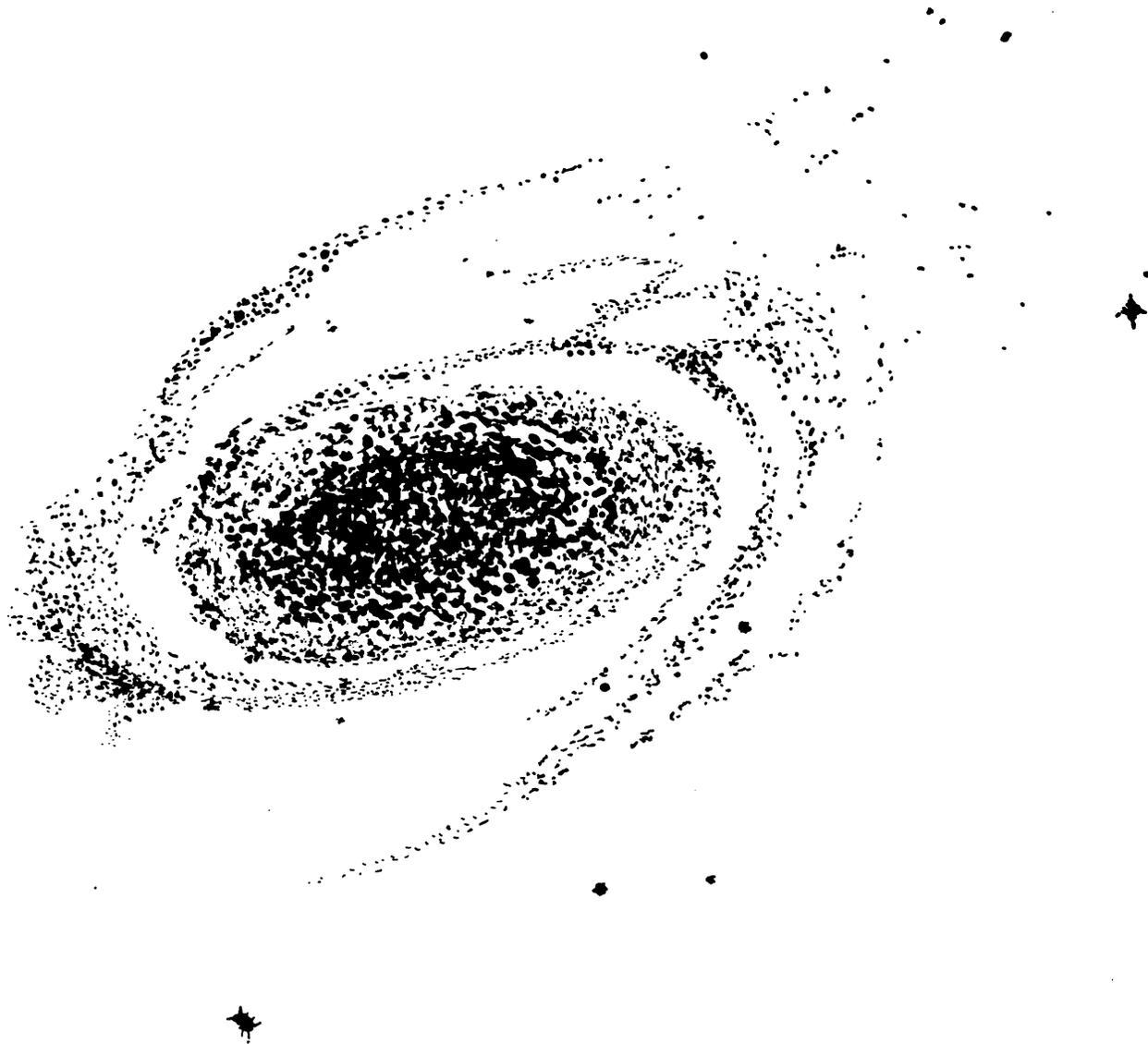


SEMIEMPIRICAL CALCULATION OF gf VALUES, IV: FeII

ROBERT L. KURUCZ



Smithsonian Astrophysical Observatory
SPECIAL REPORT 390

Research in Space Science
SAO Special Report No. 390

SAOSR.390

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January 1981

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ABSTRACT

Slater parameters, eigenvalues, eigenvectors, and scaled Thomas–Fermi–Dirac wavefunctions have been computed for all known configurations of Fe II. The complete transition array has been computed, together with partial sums required for radiative, Stark, and van der Waals damping constants. A listing of the 431,933 strongest lines is available on magnetic tape. A subset of that listing containing 22,547 lines between observed energy levels is presented here. Comparisons are made with other published lifetime and gf value data.

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INTRODUCTION

Fe II is one of the most important ions in astrophysics because of the high abundance of Fe II in many sources and because of the richness of its seven-electron spectrum. It produces important ultraviolet opacity in the sun and in most other normal stars from spectral types K to B. It appears in emission in a variety of objects from Be stars (Viotti, 1976) to quasars (Phillips, 1978), and Type I supernovas evolve into a shell of Fe II as they expand (Meyerott and Gillespie, 1980).

Although recently tremendous advances have occurred in our knowledge of the spectrum through the work of Johansson (1978), many important configurations have not yet been observed, and, of the observed configurations, many levels are missing. From only the known configurations we can generate over 400,000 lines that can contribute significant opacity. Study of the 7s, 6p, 7p, 6d, 7d, 5f, 6f, 4s5p, etc. configurations would easily bring the total to over 1,000,000 lines.

In the first paper in this series (Kurucz, 1973), we described in detail a semi-empirical method for calculating gf values. In this procedure, a program written by Cowan (1968) is used to produce LS transition arrays and electrostatic spin-orbit matrices. Transition integrals are evaluated with scaled Thomas-Fermi-Dirac wavefunctions following Warner (1968). Eigenvectors are found through a least-squares procedure that fits computed eigenvalues to observed energy levels; then, the eigenvectors are used to transform the LS transition array to the observed coupling scheme. Since the methods have already been described, we present only the final results for Fe II.

This research was supported in part by grant NSG 7054 from the National Aeronautics and Space Administration.

Table 1 lists the Slater parameters and Table 2 the observed energies, eigenvalues, and principal eigenvector components for the even levels. Tables 3 and 4 do the same for the odd levels. Transition integrals appear in Table 5. The complete transition array is too large to publish, but the 431,933 strongest lines are available on magnetic tape from the author. Table 6 lists A-sums, f-sums, and Stark and van der Waals constants for each level. Table 7 lists all 22,547 lines from the magnetic tape that are between observed levels. Below we compare these calculations with other work, discuss errors in this work, and outline future calculations.

COMPARISON WITH OTHER WORK

In this discussion following abbreviations are used:

A:	Andersen (1970).
AS:	Assousa and Smith (1972).
BELS:	Brzozowski, Erman, Lyyra, and Smith (1976).
BGHR:	Baschek, Garz, Holweger, and Richter (1970).
BR:	Bridges (1973).
BSS:	Blackwell, Shallis, and Simmons (1980).
CB:	Corliss and Bozman (1962).
DMPY:	deBoer, Morton, Pottasch, and York (1974).
DMS:	Dolby, McWhirter, and Sofield (1979).
G:	Groth (1961).
GHP:	Grasdalen, Huber, and Parkinson (1969).
HU:	Huber (1974).
K:	This work.
KP:	Kurucz and Peytremann (1975).
KU:	Kuzmickyte and Uspalis (1969, 1970, 1973).
MOI:	Moity (1979).
MOSM:	Morton and Smith (1973).
MS:	Morozova and Startsev (1964).
NBS:	Martin and Fuhr (1979).
NS:	Nussbaumer and Storey (1980).
P:	Phillips (1979).
R:	Roder (1962).
SW:	Smith and Whaling (1973).
WA:	Warner (1967).
WAR:	Warner (1967) corrected by Smith (1976).
WBW:	Wolnick, Berthel, and Wares (1971).

In Table 8 we list all published lifetimes for Fe II and in Table 9 all published gf values. (For KP, because there are so many, we list only those lines also published by another source.)

Data from five papers on lifetimes are given in Table 8:

A: Andersen (1970) made beam-foil measurements of four doublet terms. The K lifetimes are 25% shorter.

AS: Assousa and Smith (1972) made electron-beam phase-shift measurements of the three lowest sextet terms. Their description is not very complete. K is 25% smaller than AS.

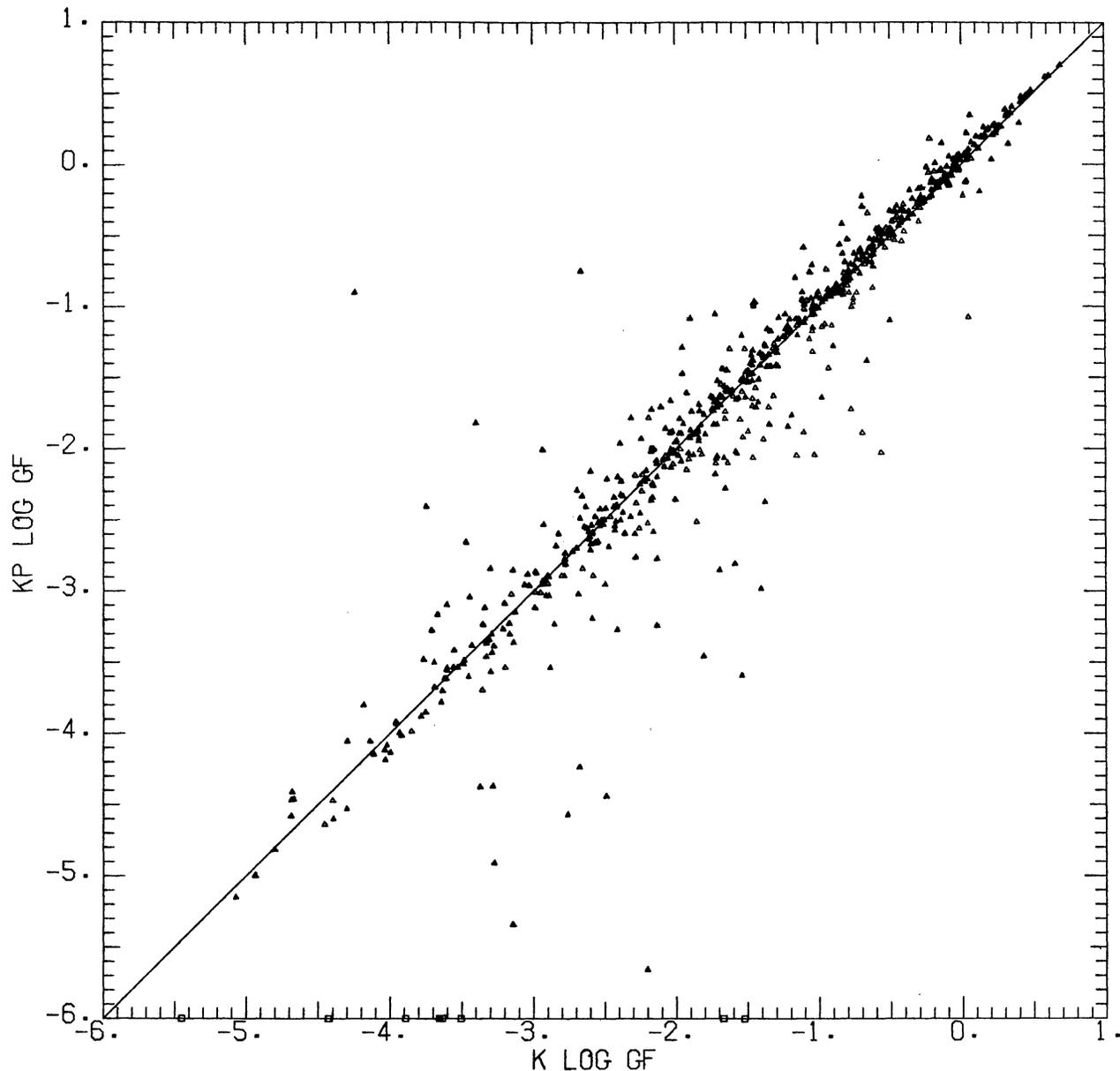
SW: Smith and Whaling (1973) made beam-foil measurements of four doublet terms. The K lifetimes are 25% shorter.

BELS: Brzozowski, Erman, Lyyra, and Smith (1976) made high-frequency deflection measurements of the same sextets as AS and their paper shows a spectrum that resolves the lines. BELS used a high enough voltage that one would expect higher states to be populated and to cascade, but no cascading was found. The BELS lifetimes are a bit larger than AS, and the K lifetimes are 25% shorter than BELS.

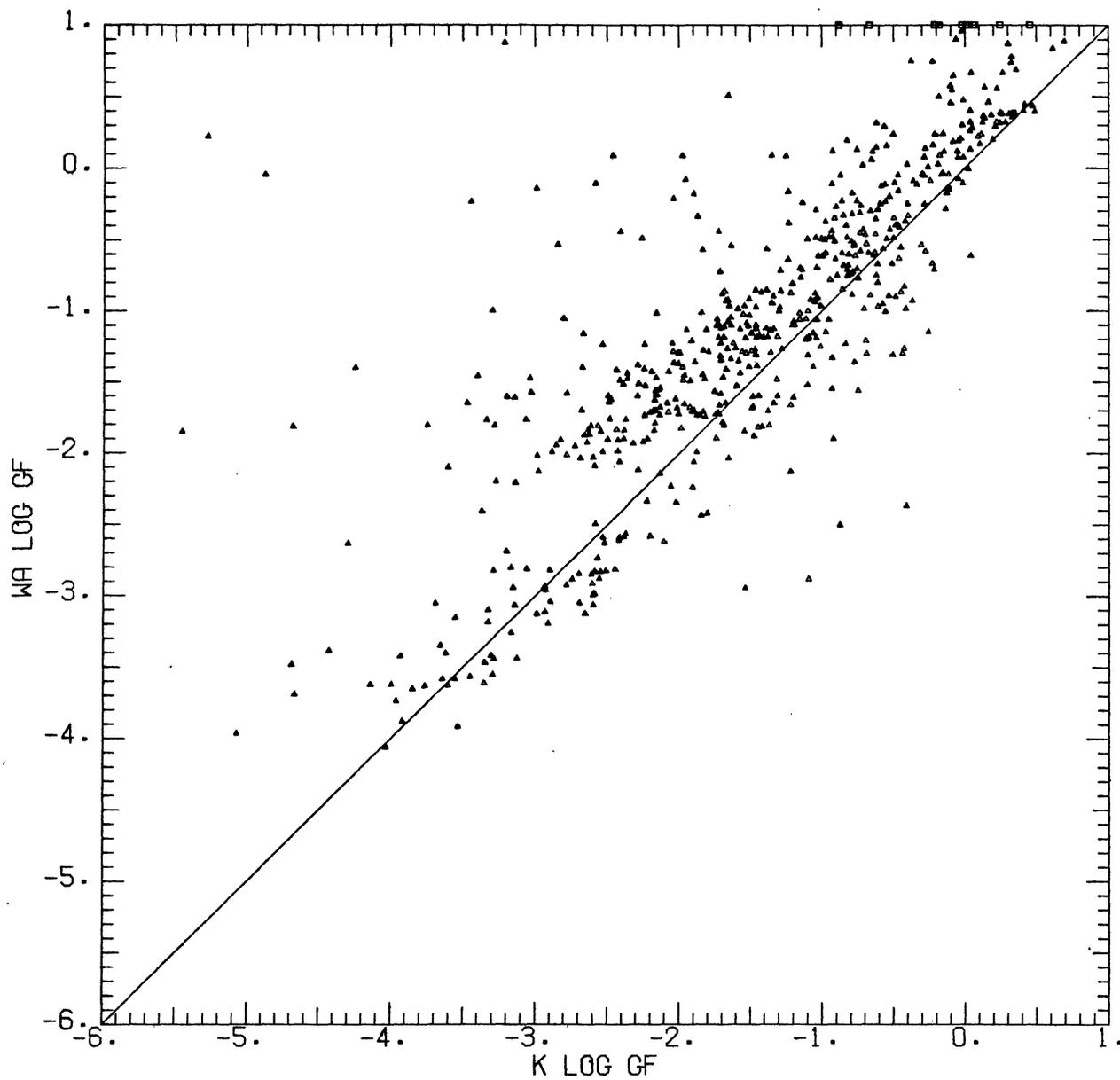
DMS: Dolby, McWhirter, and Sofield (1979). These are beam-foil lifetimes measured from low-resolution spectra. They cannot be reliable because of multiple cascading and because each feature is a blend that includes hundreds of lines.

If the A, AS, SW, and BELS measurements are correct, then the K lifetimes are approximately 25% too small and the K gf scale is too large by 0.10 in the log. However, because all these experiments were done at energies high enough to excite the upper levels and ions and should have produced dozens of cascades to the measured terms, and also blends and a varying background of weak unresolved lines, it is possible that the measurements are systematically too large.

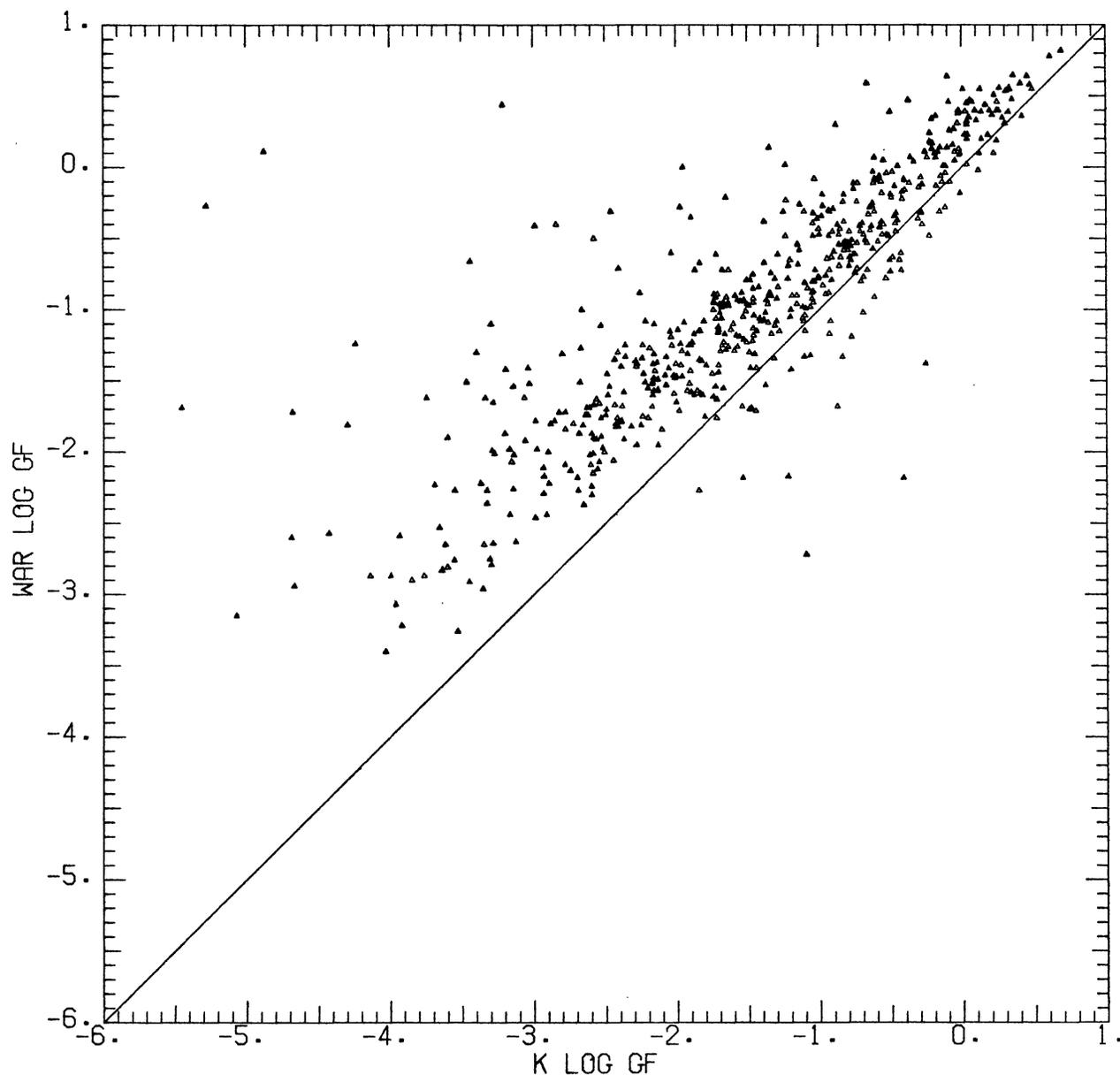
Next we discuss the papers on gf values and plot the data from each one relative to K, first, the largest line lists, then the papers cited by NBS, and finally all the other work:



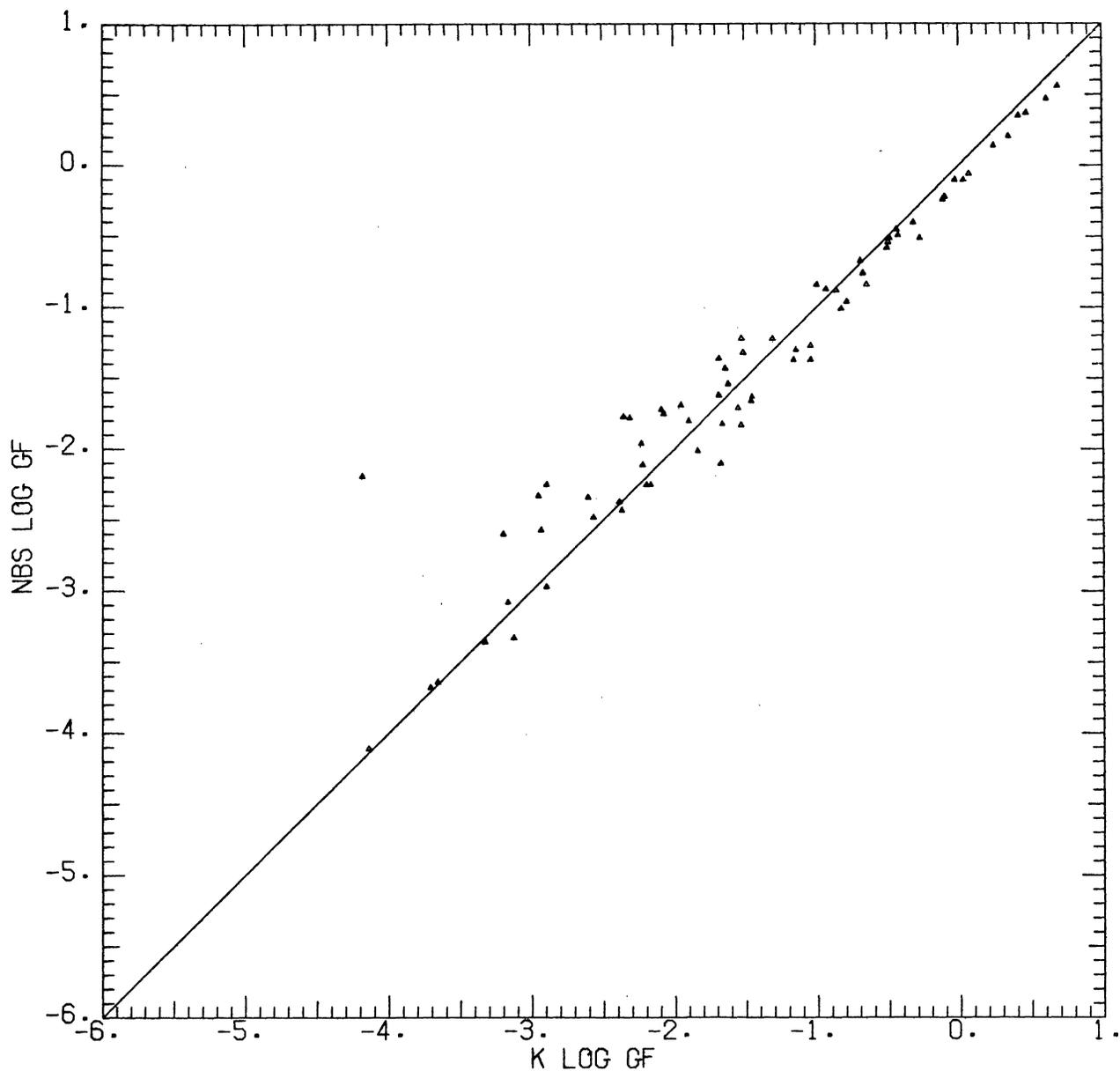
KP: Kurucz and Peytremann (1975). The present work is a repeat with new energy levels of the calculation by KP in 1972 who used the many fewer levels known at that time. Since the average energy of each configuration has not changed much, the wavefunctions, transition integrals, and overall scale must necessarily be similar. Mixing in the eigenvectors, however, is greatly improved. For example, Table 10 shows the LS forbidden multiplets 40 to 44 that were notoriously too weak in KP because of a bad eigenvector for the 6S level. In the plot these lines are indicated on the lower margin. The new values are much more reasonable.



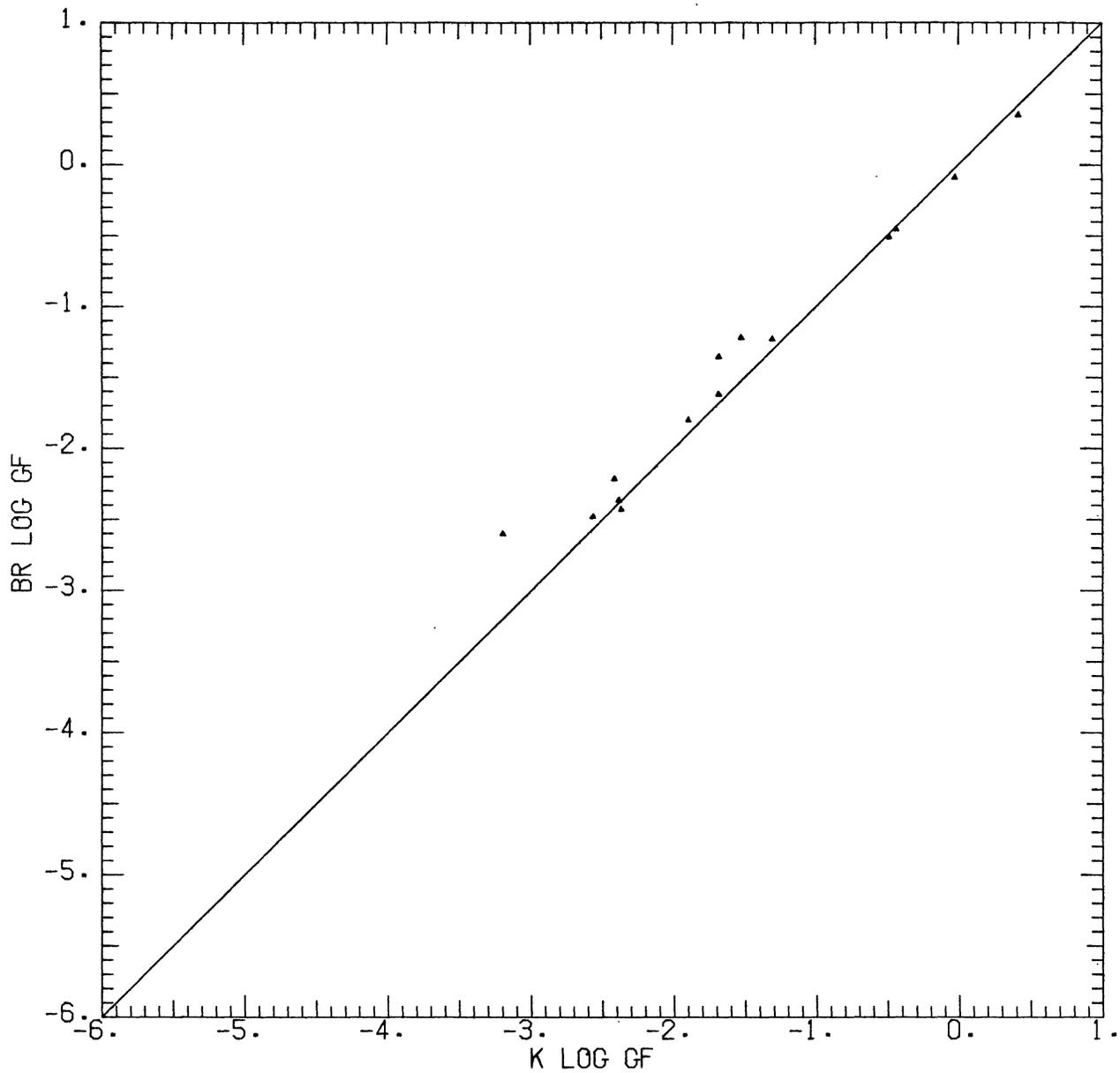
WA: Warner (1967). These arc measurements are the largest body of laboratory data for Fe II. The large systematic errors are caused by inadequate physical characterization of the arc in the data reduction. The attempt to correct these data by Smith (1976) is shown on the next page.



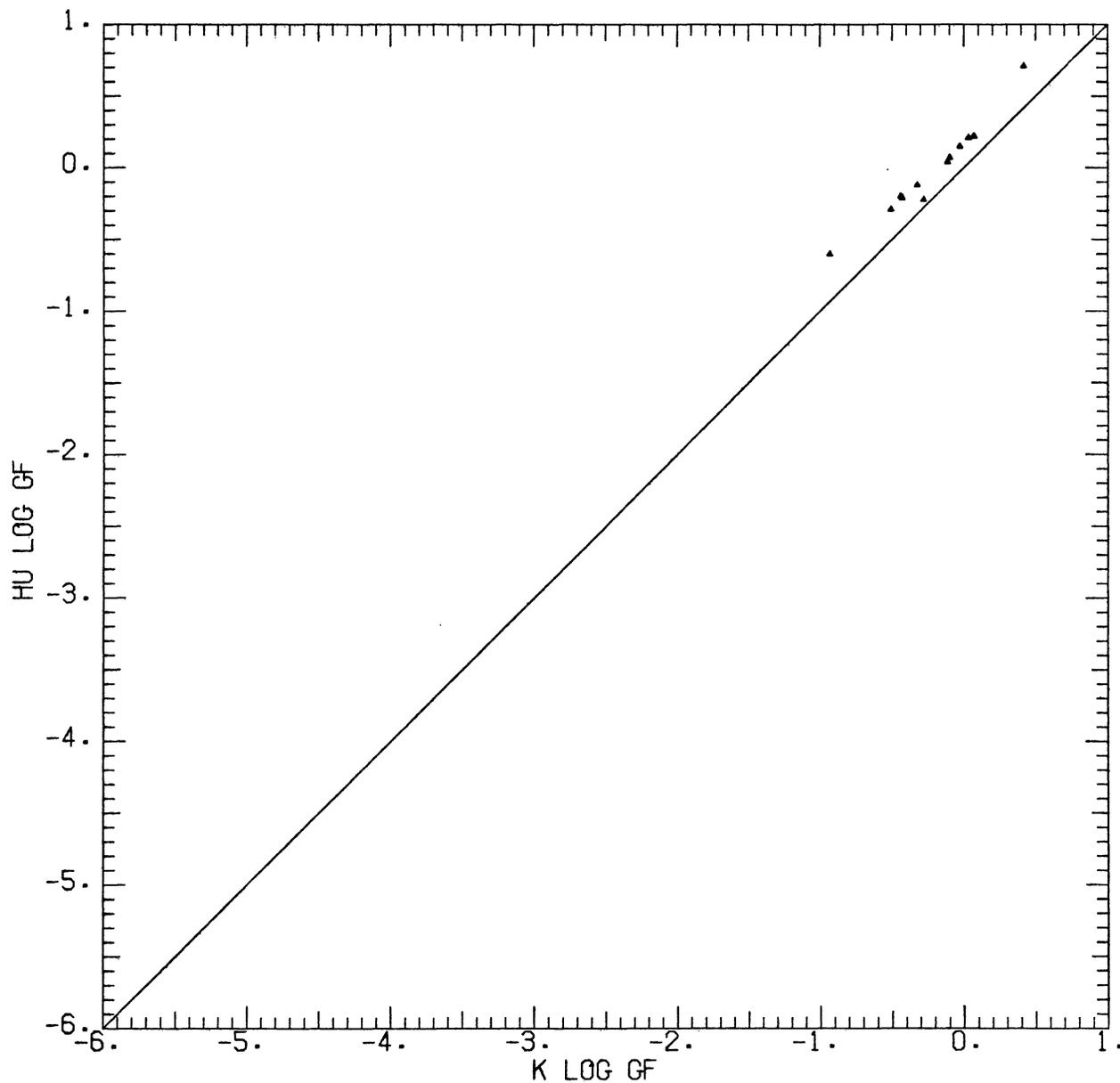
WAR: Warner (1967) corrected by Smith (1976). Smith found that the corrections $-0.000026 E_{up} + 0.45$, for $E_{up} < 50000$; $0.000074 E_{up} - 4.55$, for $50000 < E_{up} < 60000$; and $0.000024 E_{up} - 1.55$, for $60000 < E_{up}$, where E_{up} is the upper energy in cm^{-1} , when added to the WA log gf's could bring the WA values into closer agreement with other more reliable laboratory measurements. Comparing to the previous figure it is obvious that the correction improves the strong lines. However, a scale shift and an error in slope still remain. We cannot tell from this figure whether the scatter arises from WA or K or both. The most discrepant lines will be individually investigated.



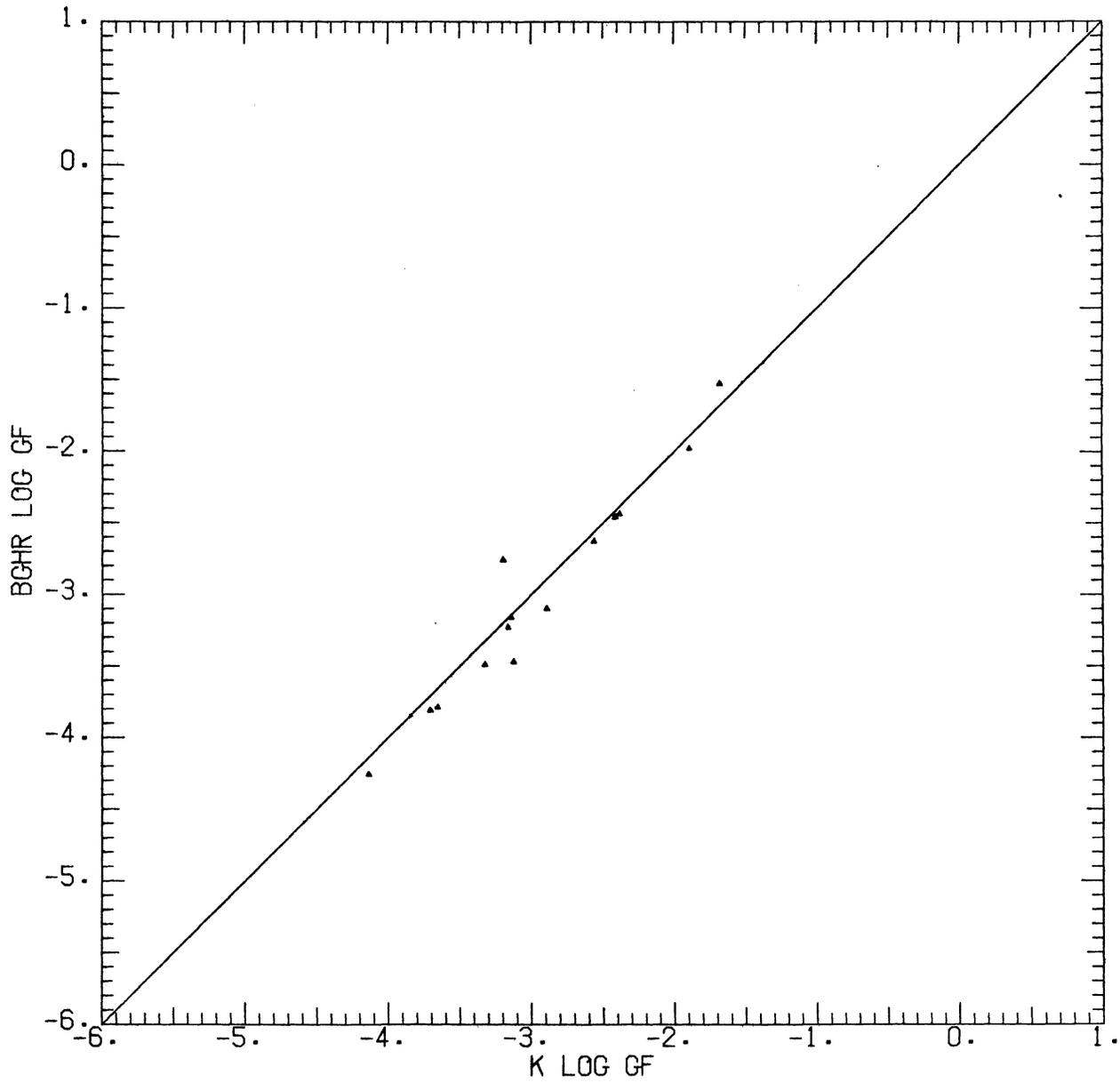
NBS: Martin and Fuhr (1979). The NBS compilation of "best" values is a selection from the data of BR, HU, BGHR, WBW, SW, AS, and BELS, each which is also presented separately following. NBS have added 0.149 in the log to BGHR and -0.284 to HU to bring them onto a scale consistent with BR. The discordant point is 299.7738 from SW. If only the dozen strongest NBS lines are considered, our calculations are systematically larger by 0.14 in the log. However, if we consider all the data, it is not obvious that there is a systematic difference.



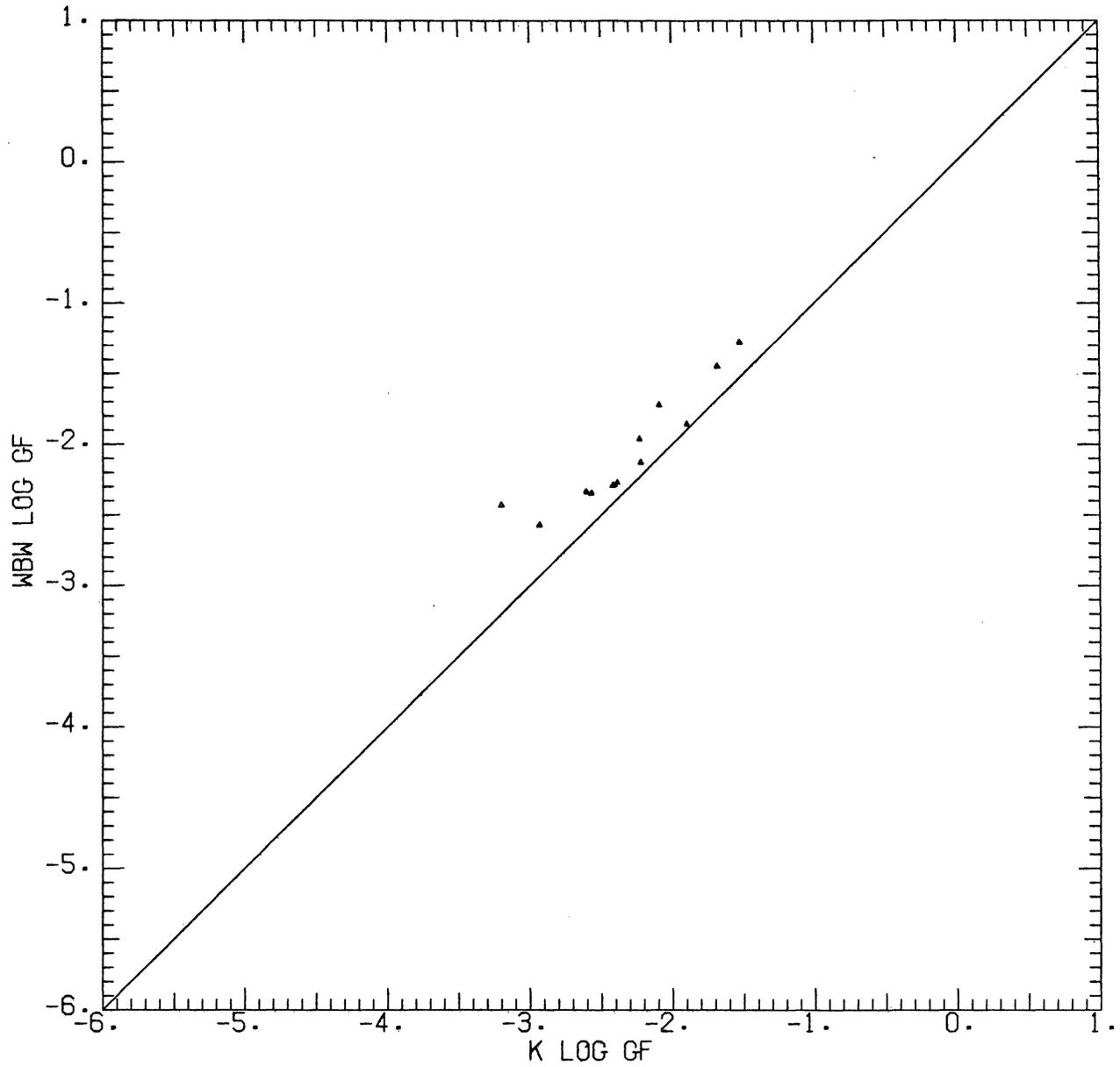
BR: Bridges (1973). These arc measurements are normalized to the AS lifetime for the ${}^6\text{D}_{9/2}$ level. There does not appear to be any systematic difference.



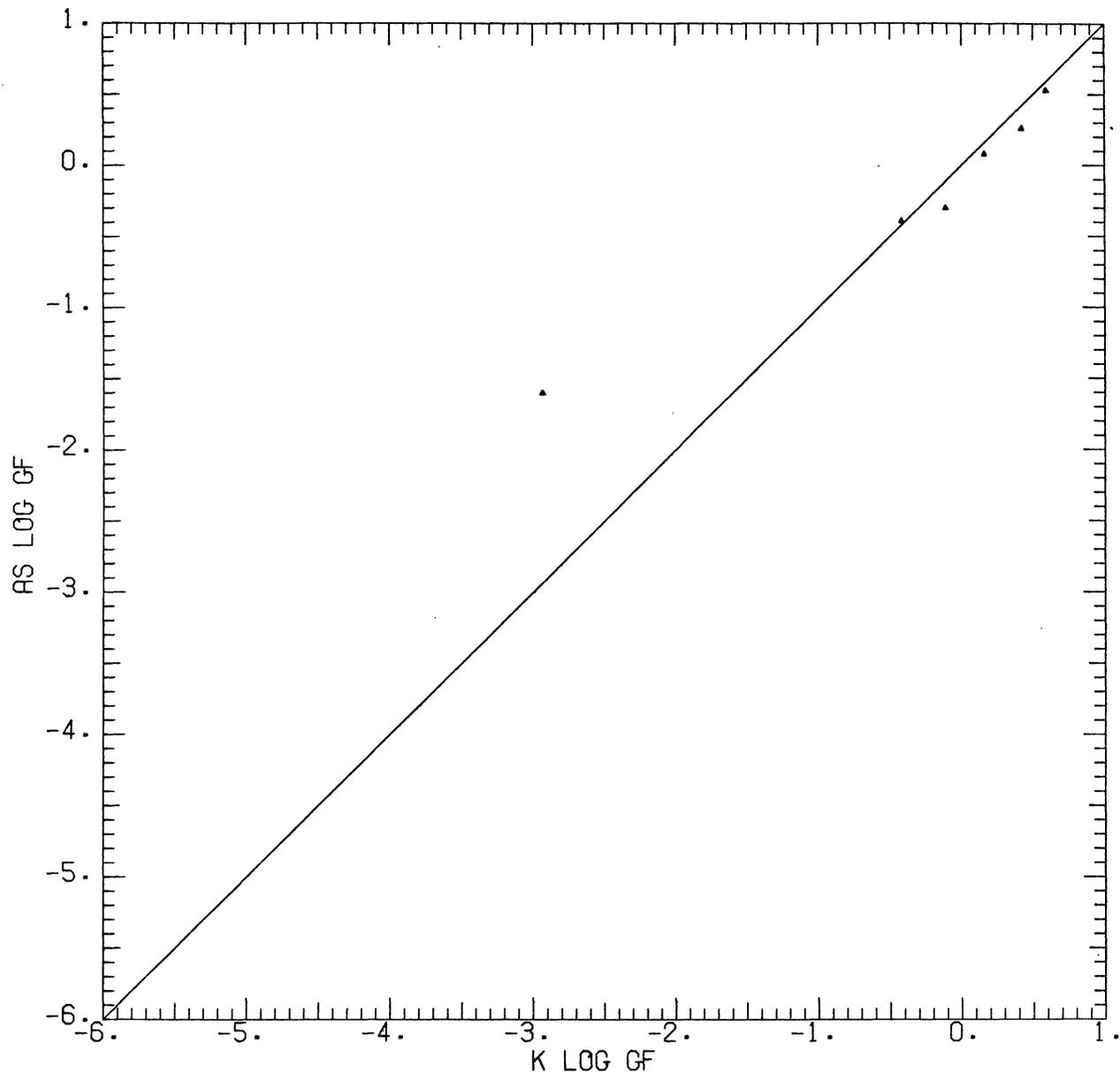
HU: Huber (1974). These shock-tube hook measurements have been put on an absolute scale by using known gf values for Fe I lines that appeared in the same shocks. HU used Fe I measurements from Banfield and Huber (1973). The HU values are systematically larger than K by 0.15 in the log.



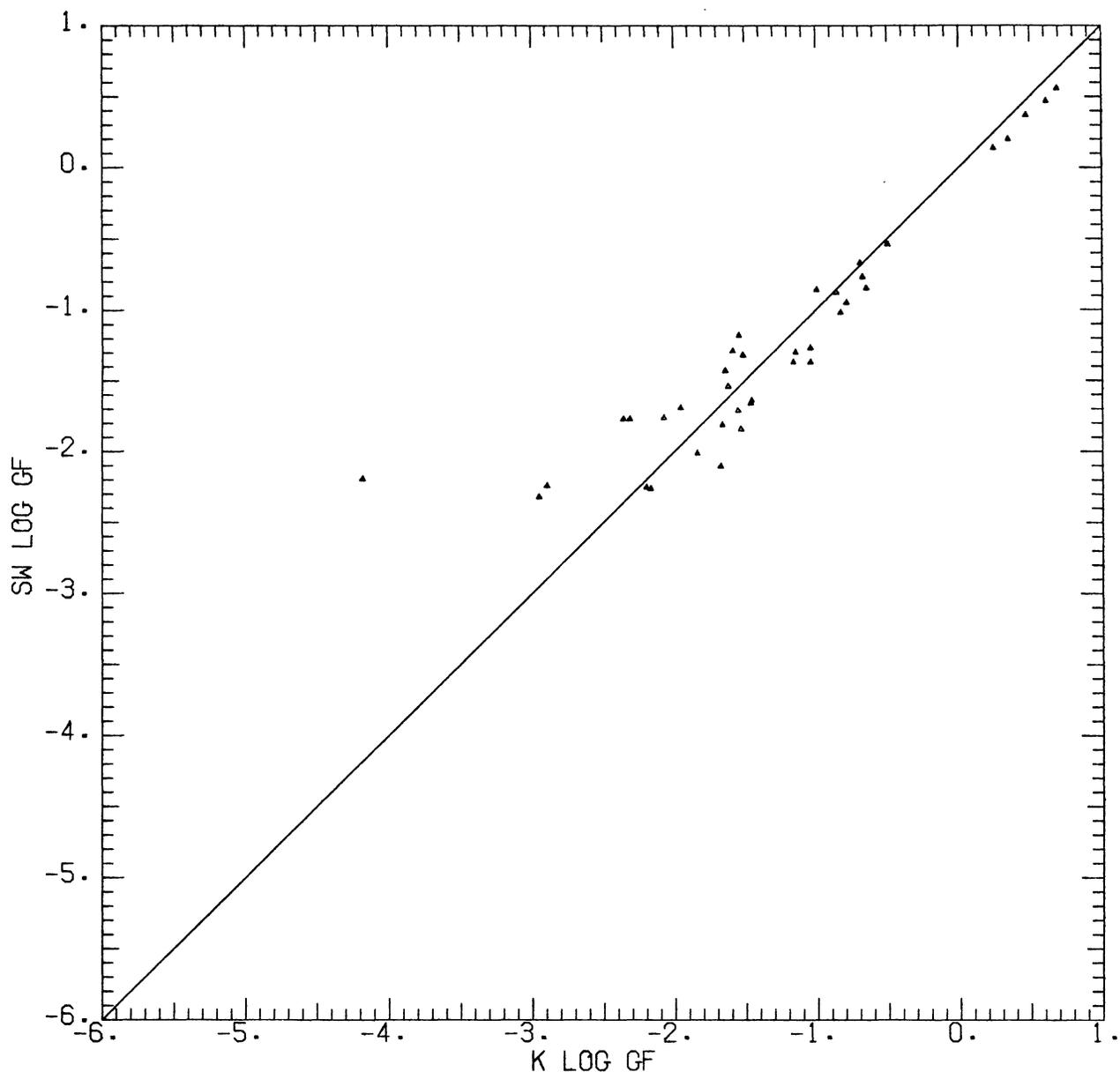
BGHR: Baschek, Garz, Holweger, and Richter (1970). These arc measurements are on a scale slightly smaller than K.



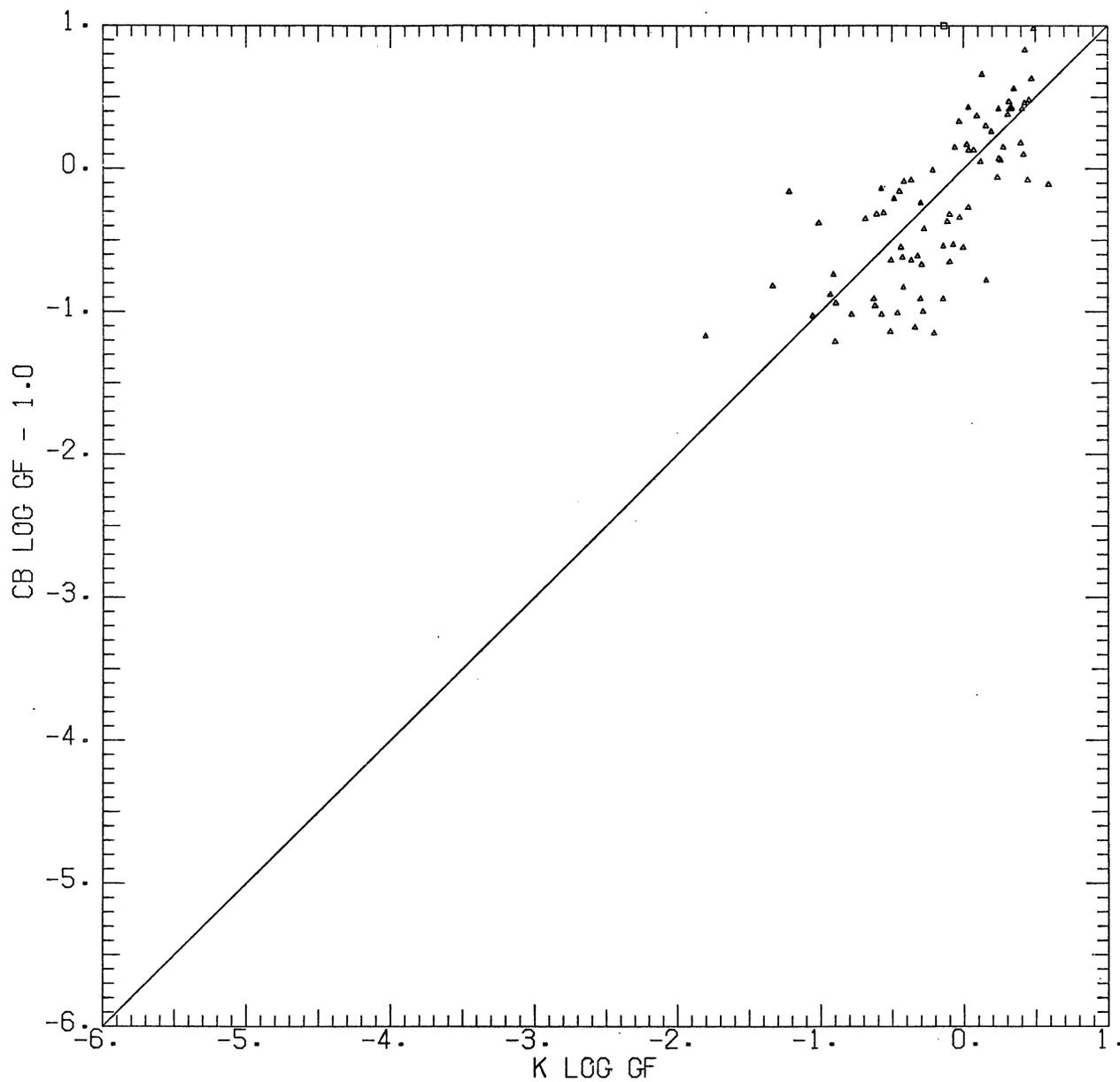
WBW: Wolnick, Berthel, and Wares (1971). These shock-tube measurements are slightly too large.



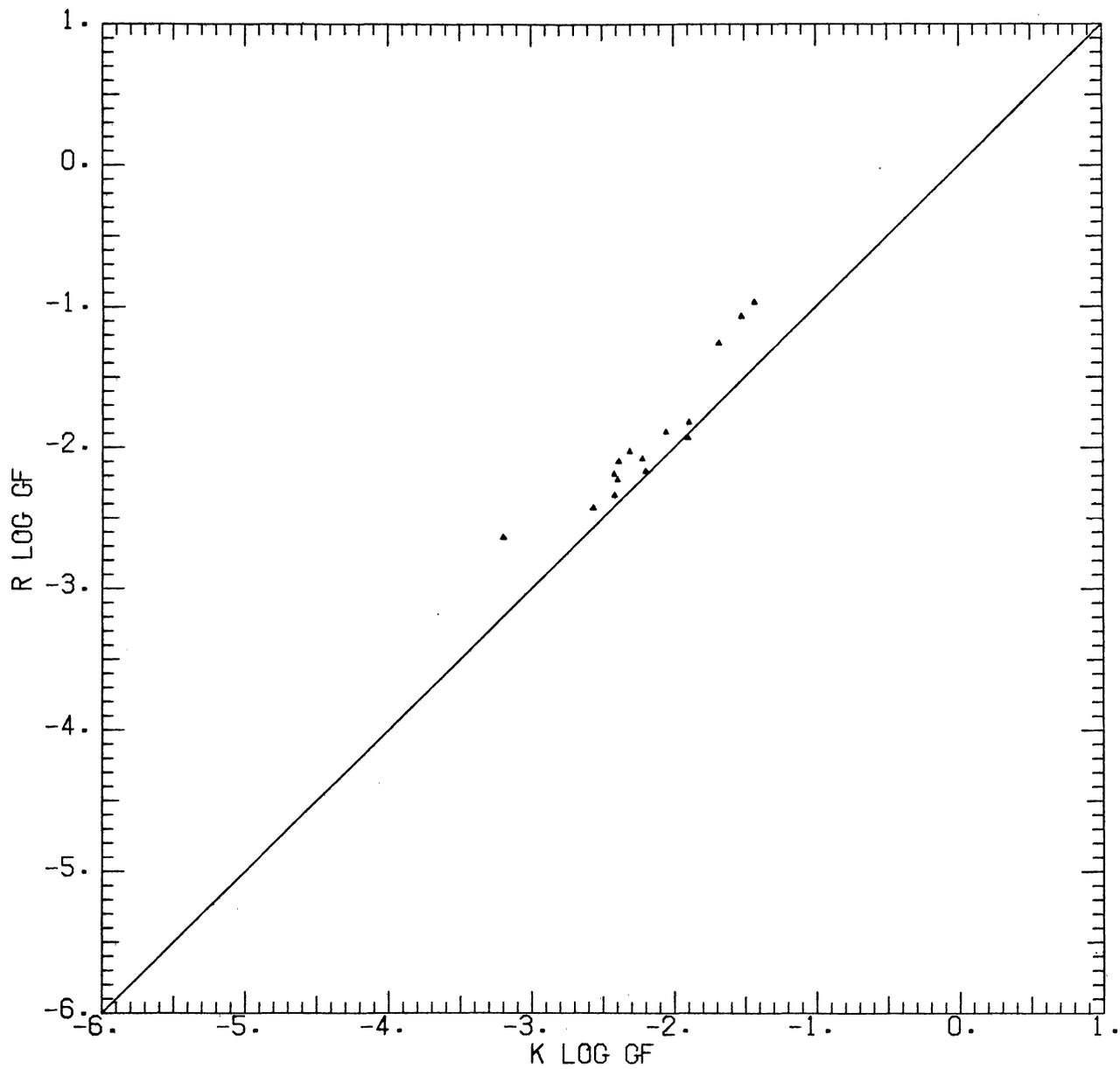
AS: Assoussa and Smith (1972). These electron-beam phase-shift lifetime measurements have been converted to multiplet gf values by using branching ratios derived from published gf measurements. AS divided the multiplets into lines by using an intermediate coupling calculation. The discordant line is 236.6867, which is also present in NS. It is strongly blended in the solar spectrum. None of the values for it should be trusted. If we compare the lifetimes directly in Table 8, we find that K is 20% smaller than AS so that the K gf scale is 20% larger than AS.



SW: Smith and Whaling (1973). These beam-foil lifetime measurements have been converted to gf values by using measured branching ratios. We compare to their lifetimes in Table 8 and find that K lifetimes are 25% shorter so that the K gf scale should be 25% larger. In the plot we see that the five strongest lines are systematically larger in K than in SW. The bad point in the plot is 299.8852. K produces a line of approximately the right strength in the solar spectrum. SW would be too strong. SW list the branching ratio for this line as 0.0020 ± 0.0020 . Neither value should be trusted without further investigation.



CB: Corliss and Bozman (1962). These arc measurements have been reduced by a factor of 10 in this plot. The original numbers are given in Table 9. The large systematic errors are caused by inadequate physical characterization of the arc in the data reduction.

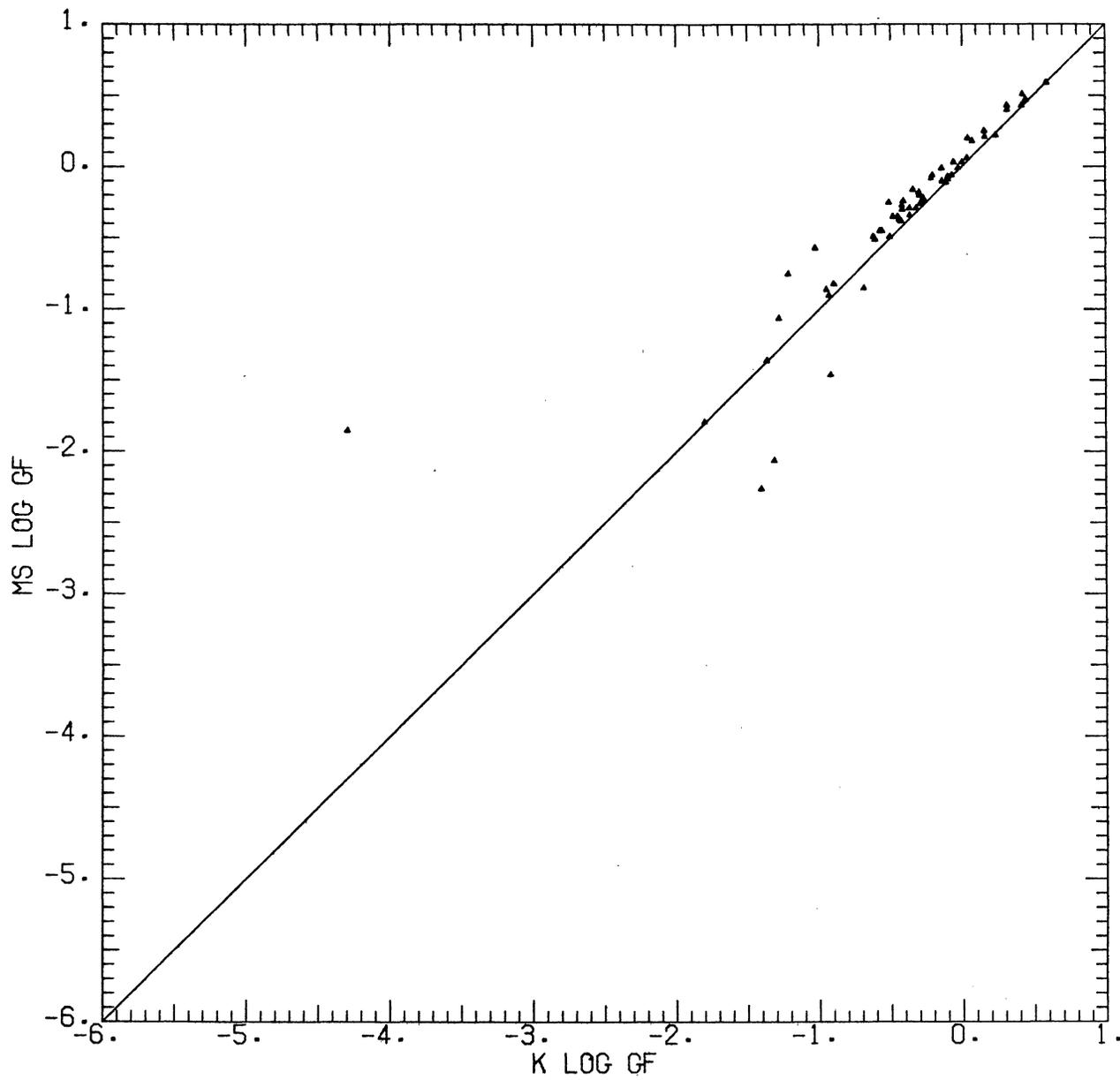


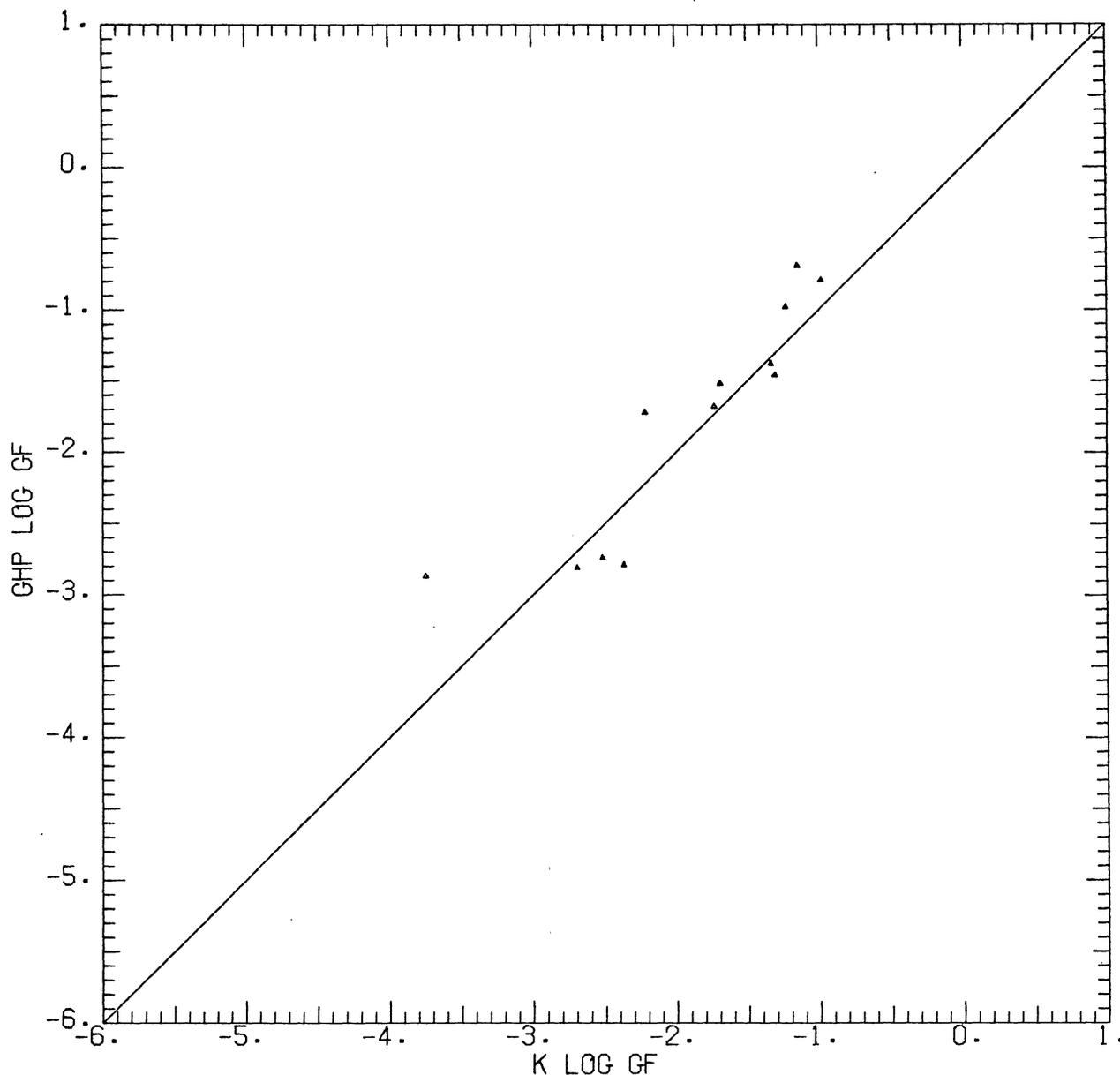
R: Roder (1962). These arc measurements are systematically large by 0.2 to 0.3 in $\log gf$.

MS: Morozova and Startsev (1964). These relative arc measurements were normalized years ago by adjusting multiplet 2 to the scale of the Coulomb values given by Warner (1967). The normalization was a shift of -2.00 in $\log gf$. The bad line is 269.2834; it is computed too weak in the solar spectrum if the K gf value is used. If we examine the eigenvectors in Tables 2 and 4, we see that the lower level 7955.299, 3.5 is almost pure $d^6 4s (5D)4D$ and that the upper level 45079.879, 2.5 is $d^6 4p \{-0.961(5D)4F -0.204(5D)4D +0.120(5D)6F +0.079(3G)4F\}$. If we look up the possible LS transitions between this eigenvector and the lower level that we assume to be pure LS, we find that the LS transitions accidentally cancel in transforming to intermediate coupling:

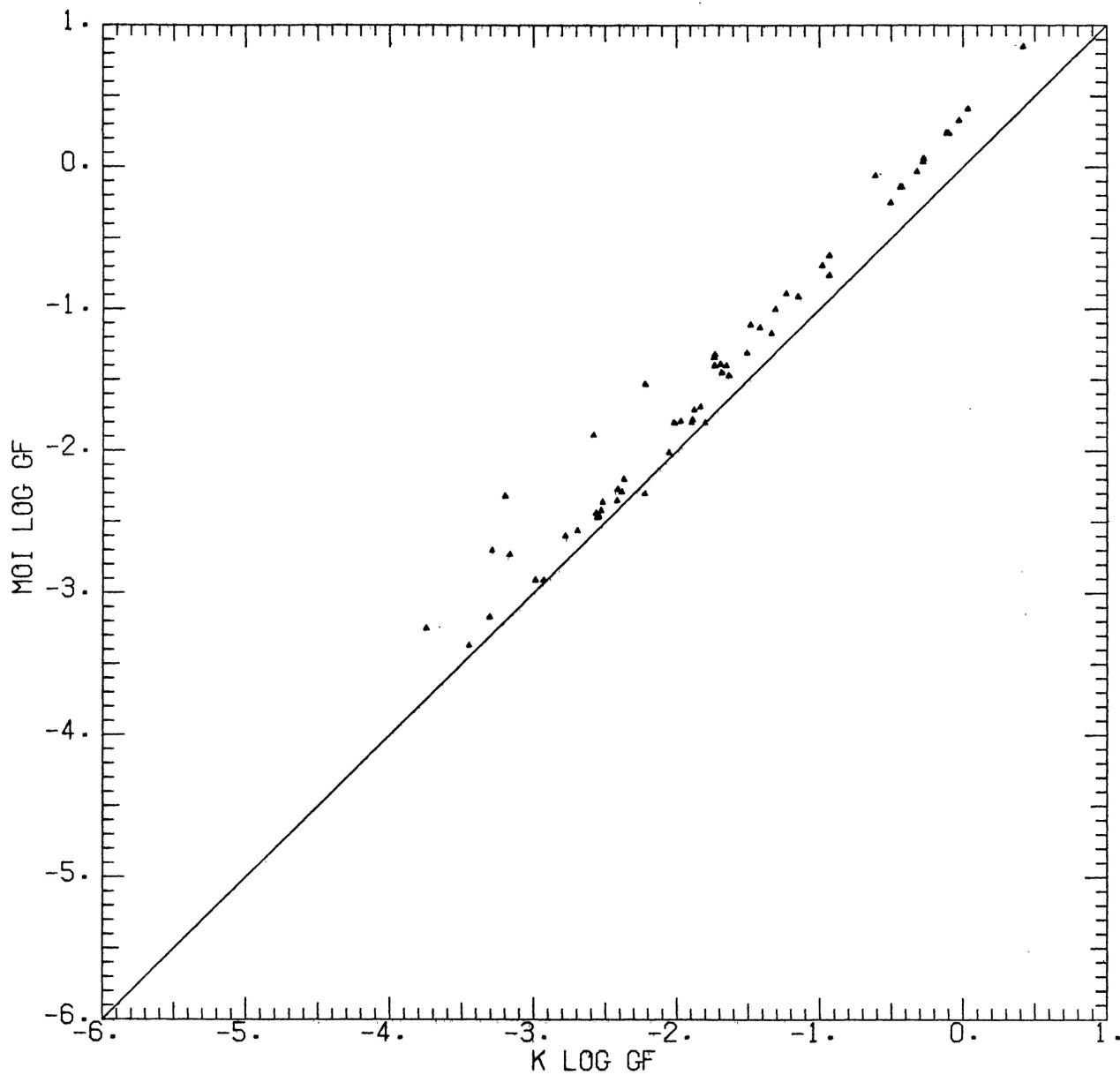
$$\begin{array}{rcl}
 (5D)4D - (5D)4F & -0.961 \times +0.138 & = -0.133 \\
 (5D)4D - (5D)4D & -0.204 \times -0.617 & = 0.126 \\
 (5D)4D - (5D)6F & +0.120 \times 0.000 & = 0.000 \\
 (5D)4D - (3G)4F & +0.079 \times 0.000 & = 0.000 \\
 & \text{Sum} & \underline{-0.007}
 \end{array}$$

(A listing of the LS transition array can be obtained from the author. It is too long to print in this report.) Thus we have a case where the calculated gf value is extremely sensitive to the eigenvector and, in this case, is too small because of cancellation.

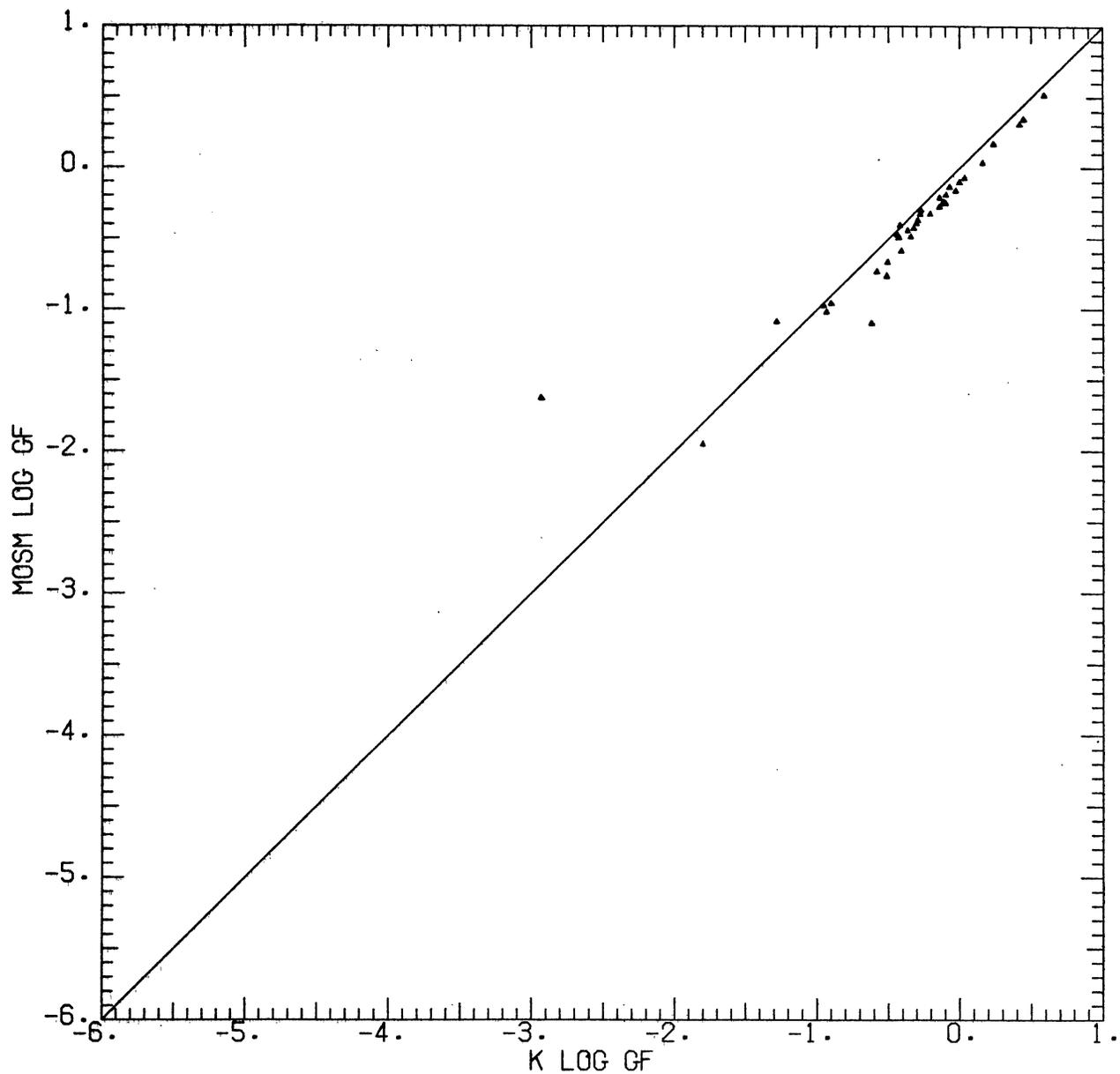




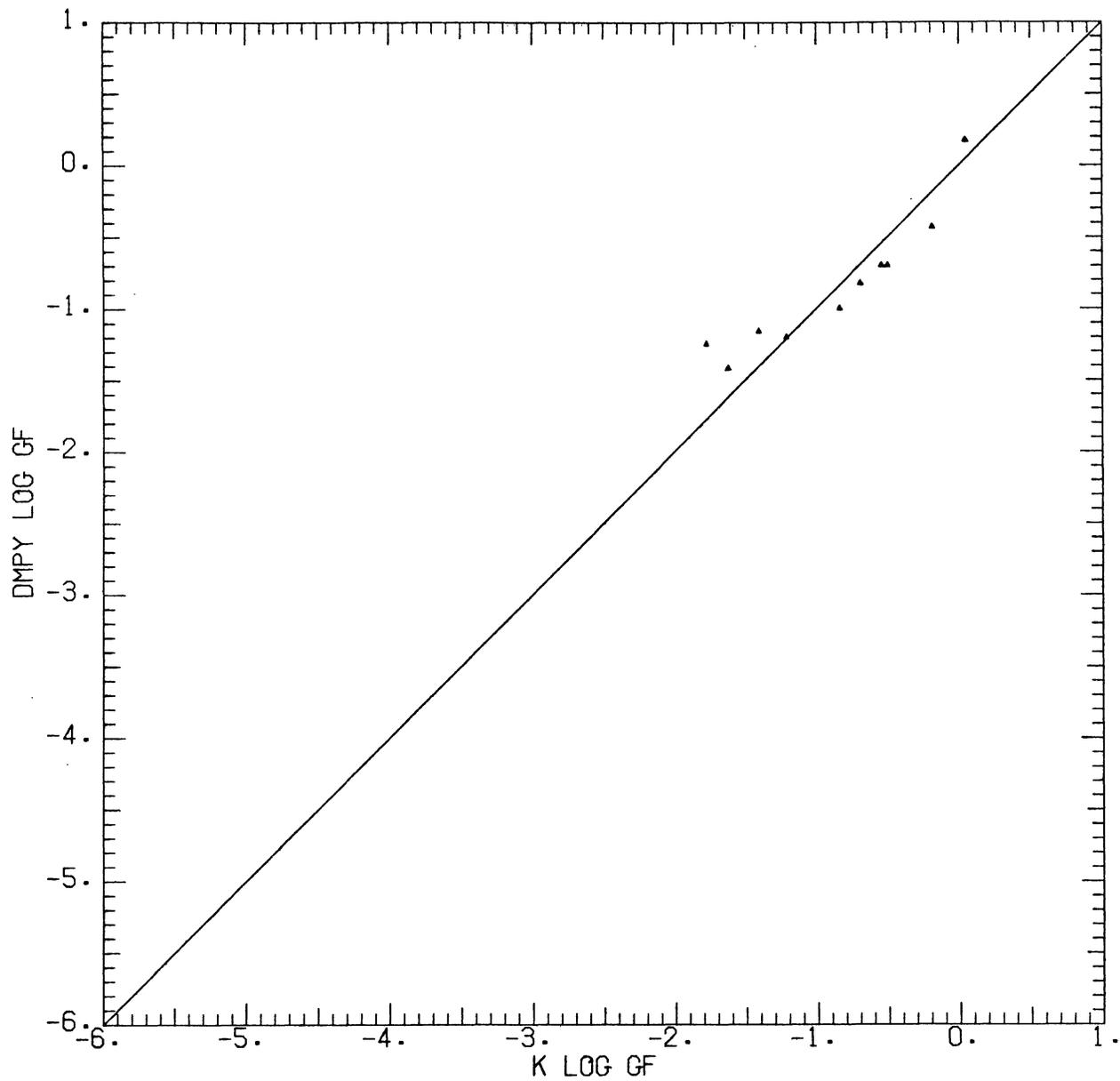
GHP: Grasdalen, Huber, and Parkinson (1969). These are shock-tube measurements. The lowest four lines in the plot have similar energies and similar gf values in GHP but have a range of equivalent width of over a factor of 2 in the sun, so there is obviously some problem with the measurement. The most discrepant line 328.5408, is a transition between 8680.454, 1.5, which is almost pure ^4D , and 39109.307, 0.5, which is mainly ^6D . Thus the gf value for the transition must depend on very minor components and should not be trusted without further investigation.



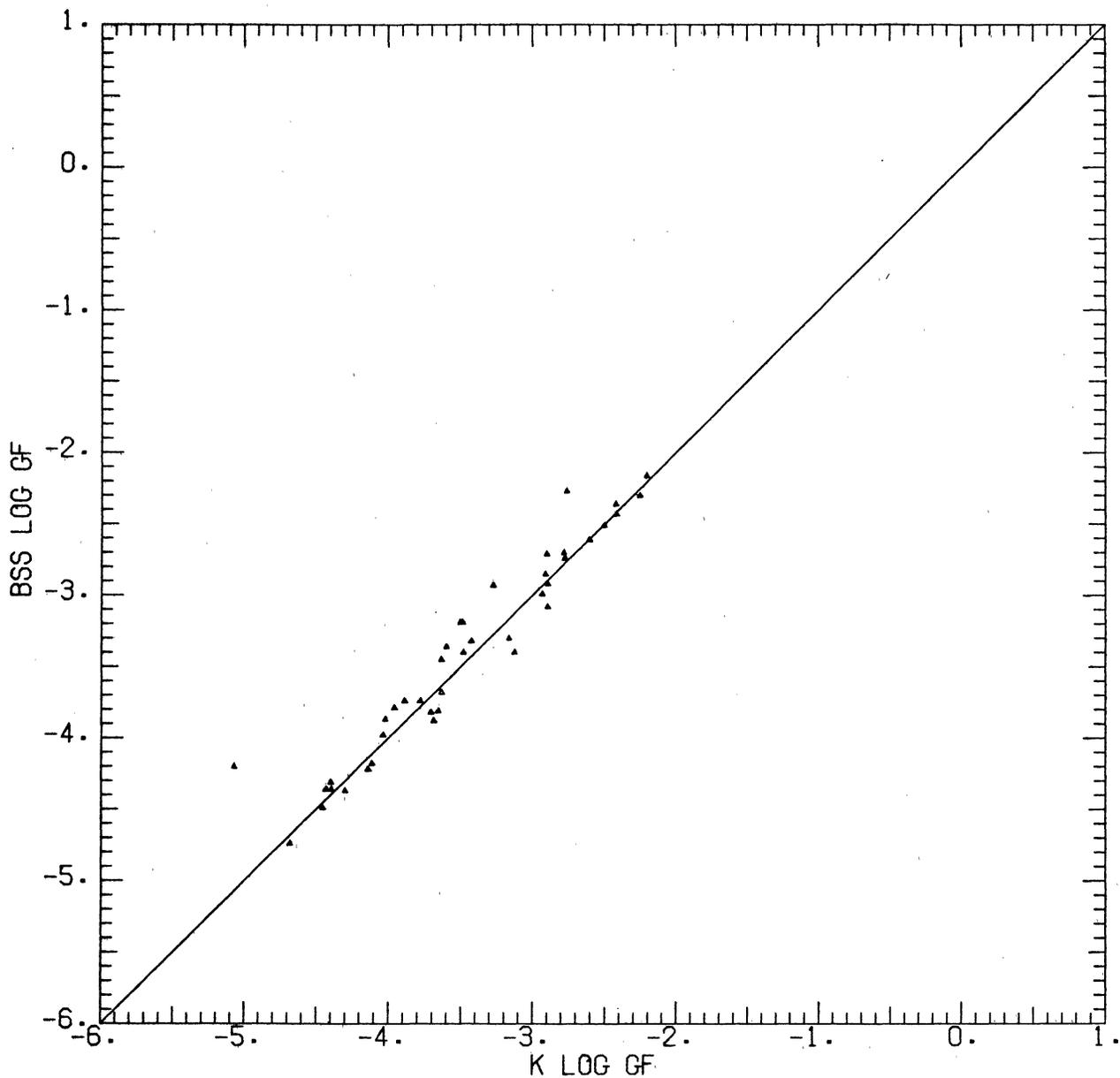
MOI: Moity (1979). These arc measurements are systematically large.



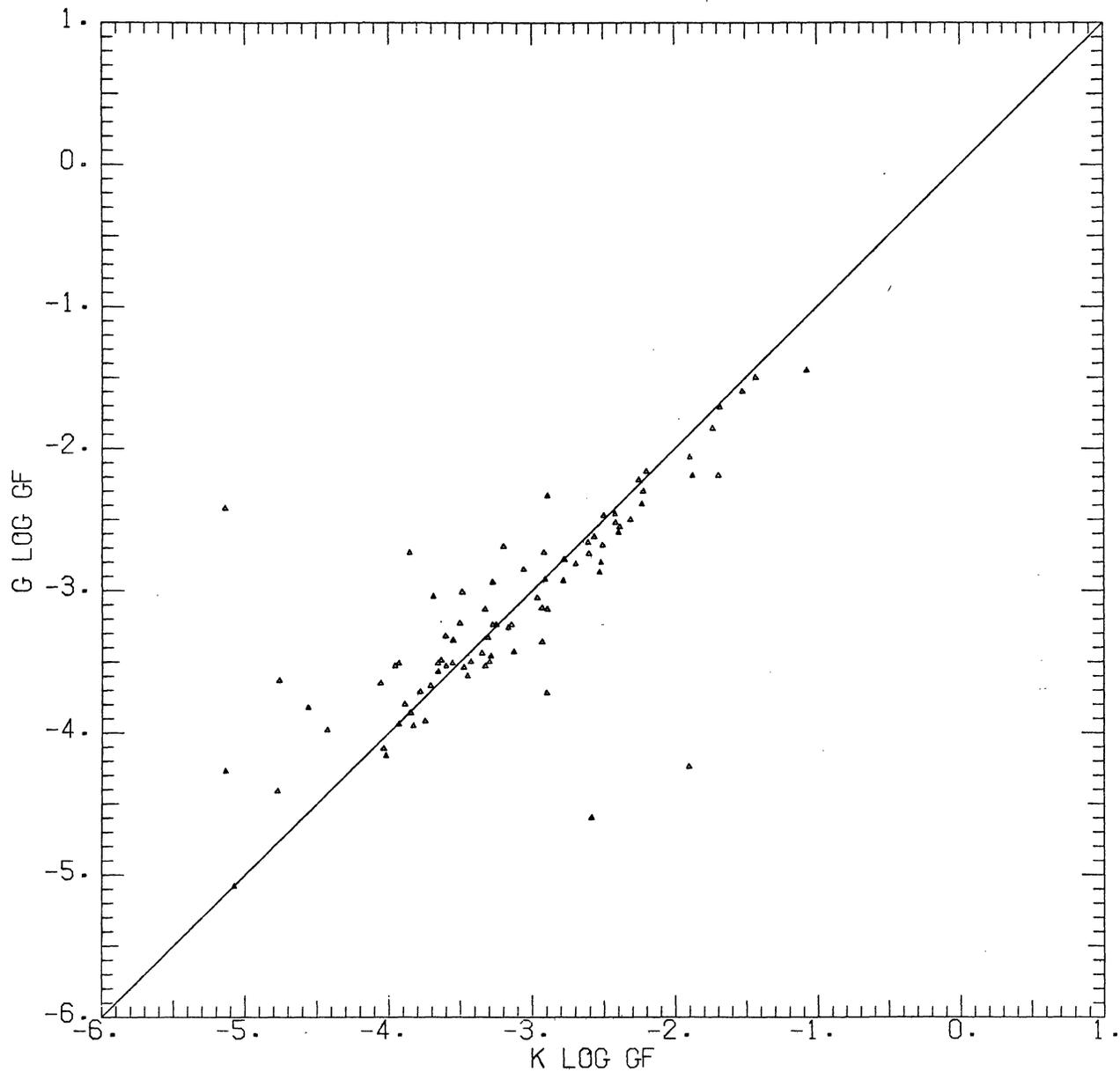
MOSM: Morton and Smith (1973). A compilation of gf values is given for lines that are present in the interstellar medium. The AS measurements are divided up to show all the lines of the multiplets.



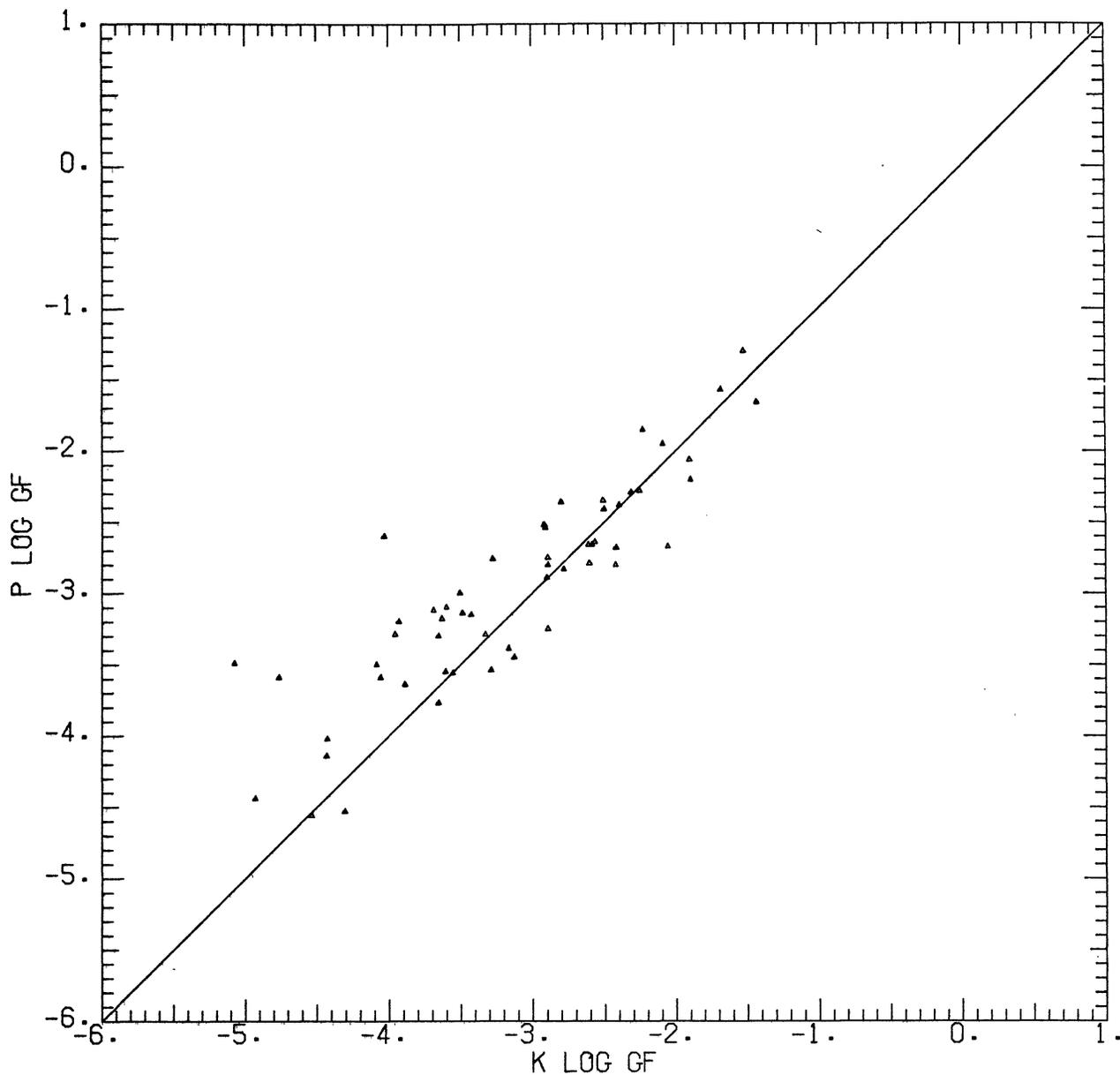
DMPY: deBoer, Morton, Pottasch, and York (1974). gf values derived from interstellar absorption lines by fixing the Fe II abundance to that derived from MOSM gf values are given. These data should be considered extremely tentative but they are the only data in the vacuum region.



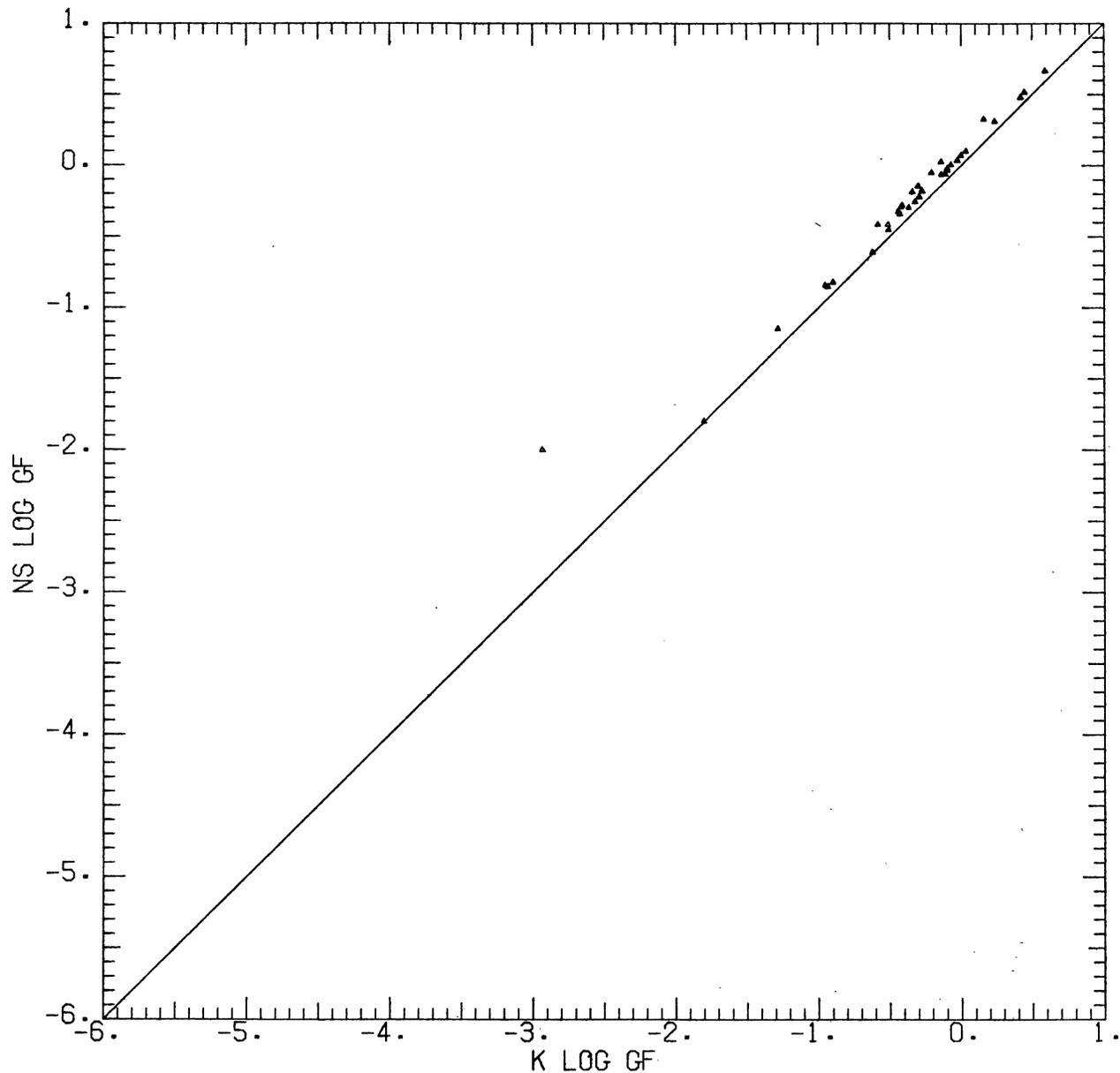
BSS: Blackwell, Shallis, and Simons (1980). These gf values were derived from weak lines in the solar spectrum by fixing the Fe abundance from well known Fe I lines. They should be considered tentative because of uncertainties in the solar model atmosphere and because of the possibility of blending, but they are the best data available for weak lines. The data are compared to K and KP in Table 11 to demonstrate the improvement in the treatment of weak lines in this calculation. The discrepant line is 730.1560, which was too weak to have been included in Table 7. It was extracted from a listing of the complete transition array for inclusion in Tables 9 and 11. (The listing is available from the author.) This line has the same upper level 45079.879, 2.5 as the bad line discussed in the section on MS and is another case of the same bad eigenvector.



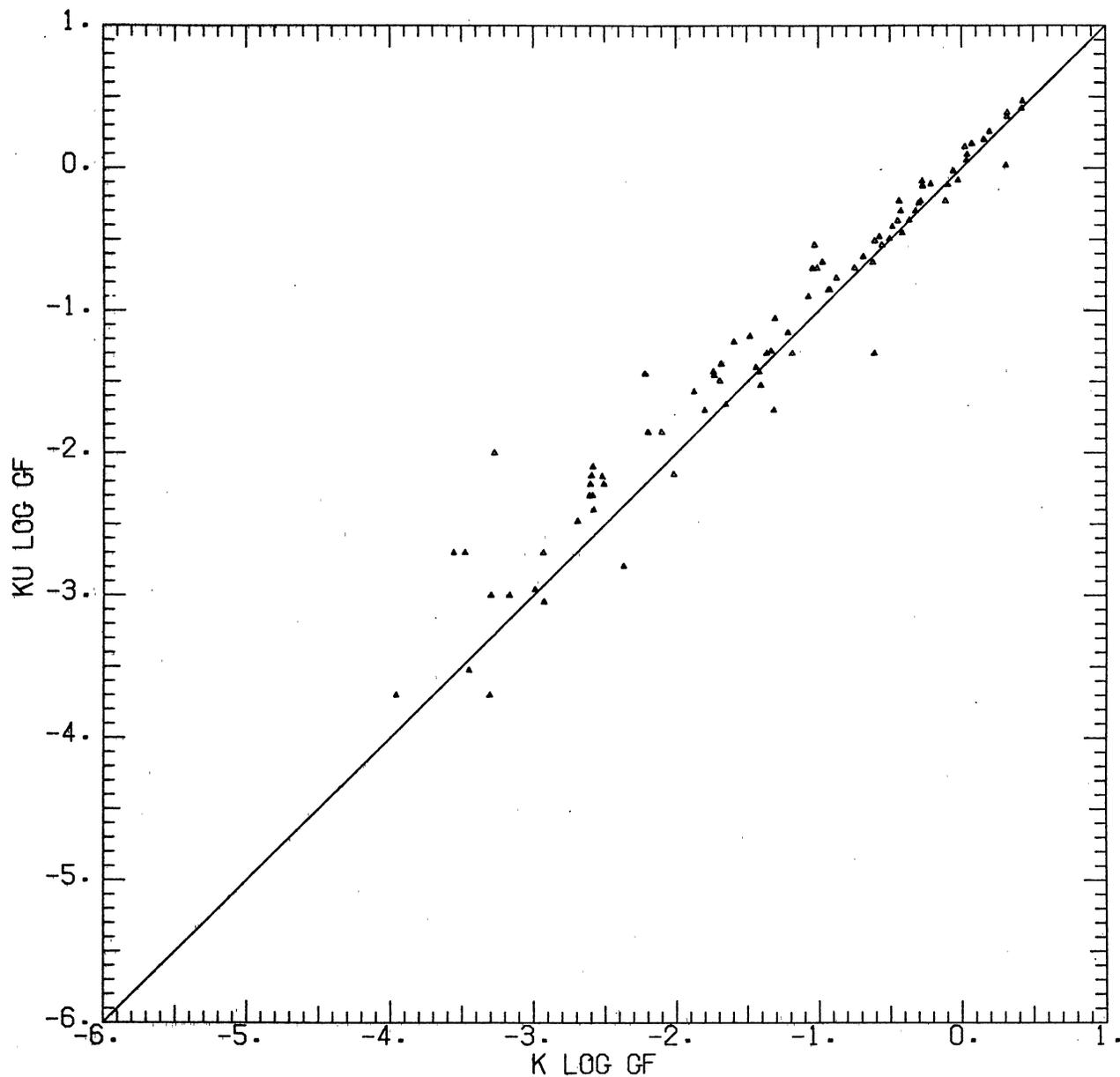
G: Groth (1961). gf values from lines in the spectrum of α Cygni. These values cannot be relied upon because of the possibility of systematic errors and blending. However, any K lines that are significantly discrepant are also suspect.



P: Phillips (1979) compiled gf values for Fe II and filled gaps in his table with gf values derived from solar equivalent widths. These values cannot be relied upon without further investigation because of the possibility of systematic errors and blending. For example, the line 393.8290 is actually badly blended so the derived gf value is meaningless. However, any K lines that are significantly discrepant are also suspect.



NS: Nussbaumer and Storey (1980). These close-coupling calculations used scaled Thomas-Fermi wavefunctions to achieve minimum energies for the low terms. The K Thomas-Fermi-Dirac wavefunctions were scaled to give the observed average energy for each configuration. This difference in approach apparently produces a shift of 0.1 in log gf between the two calculations so that NS is even further from the lifetime measurements and is close to HU. The bad line is 236.6867, which is also bad in AS. AS and NS do not agree. None of the values for the line should be trusted.



KU: Kuzmickyte and Uspalis (1973). These intermediate coupling calculations use self-consistent-field radial wavefunctions. KU computed using both length and velocity operators and recommend the velocity results tabulated here. The $d^6 4s - d^6 4p$ transitions are generally similar to K while the $d^7 - d^6 4p$ are quite disparate.

These calculations are as accurate as, or better than, the available published measurements and calculations. Some of the comparisons indicate significant scatter, but it is not clear whether the scatter arises from K or the other work or both. The calculations for some transitions can be grossly in error owing to accidental cancellations or bad eigenvectors. None of the above comparisons for measurements that have not been normalized demonstrates any systematic error in K. Several of the measurements were normalized to lifetime measurements, so the discussion above about lifetimes applies to them. If the lifetimes are correct, the K gf values are too large by 0.1 in log gf.

Errors in this type of calculation are unavoidable. LS forbidden lines can arise only through mixing or configuration interaction, which makes them very sensitive to the eigenvectors and leads to large errors. A number of reasons for errors are discussed.

1. A good laboratory analysis is required. There are many levels missing in the known configurations, and many important configurations as yet undetermined interact with the known configurations. There are levels for which the energy is known but not the classification, so they cannot be used in the least-squares fit. There are typographical errors and there can be "observed" levels reported that do not really exist.

2. Matching the observed levels to eigenvalues is a subjective process that must be done by hand, especially when strong mixing is present and when there are missing levels.

3. More Slater parameters can be required than it is possible to determine by least-squares fitting. One must resort to guesses, extrapolations, interpolations, or purely theoretical calculations that usually have systematic errors.

4. The Hamiltonian expansion can be incomplete and leave out some important configuration interaction, which can be investigated with purely theoretical calculations. Fortunately, the least-squares fit absorbs some of the error from the missing physics.

5. In such a large volume of data mistakes are inevitable.

The principle means of reducing the scatter and improving the semiempirical gf values is to improve the laboratory spectrum analysis.

We are investigating errors in calculated gf values by comparing to laboratory gf measurements and especially by synthesizing solar and stellar spectra and looking for discrepancies. We plan to try to use measured gf values to determine configuration interaction parameters for transitions that are extremely sensitive to configuration interaction. We plan to compute Hartree-Fock Slater parameters to use as starting guesses or when least-squares parameters cannot be determined. The whole gf calculation will be repeated whenever any of the data are significantly improved. We are maintaining a list of gf values for all Fe II lines that combines these calculations with any other calculations or measurements that are clearly more reliable.

We have not as yet computed forbidden transitions for Fe II so Johansson's (1977) data are listed in the Appendix in the same format as Table 7. Johansson used his new energy level values to redetermine the wavelengths for forbidden transitions that had been computed by Garstang (1962). The gf value listed is the sum of the magnetic dipole and electric quadrupole transition probabilities.

As funding and computer time permit, we plan to repeat all the KP calculations using updated spectral analyses and to extend the calculations to higher stages of ionization and to heavier elements.

We thank Martha S. Bruno and Jan Matlis for their assistance in this project.

Table 1. Slater parameters for even levels.

These are the least-squares parameters used to compute the eigenvalues shown in Table 2. The columns list the parameter number, the configuration to which the parameter applies – or, for a configuration–interaction parameter, the configurations between which it applies – the parameter name, the parameter value in cm^{-1} , the variance of the parameter value, and, finally, qualifications on the parameters.

The parameters are

- EAV: E_{av} , average energy for a configuration;
- F and G: Slater integrals F^n and G^n ;
- ALPHA and BETA: α and β effective configuration–interaction parameters;
- ZETA: ζ spin–orbit interaction parameter;
- D and E: direct and exchange Slater integrals R^n for configuration interaction. For exchange integrals, the final two orbitals of the four indicated should be interchanged.

Qualifications on a parameter arise if it has been kept fixed in the least-squares fit or was defined as a linear combination of other parameters. In a linear combination, the other parameters are indicated by their numbers.

A least-squares fit was not performed on all these configurations simultaneously. Because they were combined together only for a final output run, some of the variances and qualifications are not the actual least-squares values. $(d+s)^7$ was rerun from KP with the new energy levels. Those parameters were used as starting guesses for $d^6 5s$. Parameters from Johansson, Litzen, Sinzelle, and Wyart (1980) were used as the starting values for $d^6 4d$. Because there are not enough terms known for a proper fit, the parameters for the remaining configurations are mainly guesses based on the parameters of the other even and the odd configurations and so the predicted energies are very uncertain. In the future we expect to compute Hartree–Fock Slater parameters as a guide in estimating those that cannot be determined by least squares and to predict configurations that have not been observed.

Table 2. Energies and eigenvector components for even levels.

The energy levels are presented separately for each value of the angular momentum J . In the heading for each J , the configurations are listed and numbered. The columns list the eigenvalue number that will be used later below to identify the state, the observed energy in cm^{-1} , the eigenvalue, the eigenvalue minus the observed energy, the published assignment of the observed level, and, finally, the largest eigenvector components. The levels are listed in order of increasing eigenvalue. The observed levels and their labels (assignments) have been taken from Johansson (1978) and have been assigned to the eigenvalues in the least-squares process. A minus sign preceding a level indicates that it was not used in the least-squares fit. In computing gf values and wavelengths, the observed energy is used when available; otherwise, the computed eigenvalue is used. The eigenvector components listed are the four largest or as many as there are larger than 0.03. The LS basis states are listed in the following notation:

- 2(3P)4P 6 , from the first line of the table, means
- 2 configuration number = $d^6 4s$;
 - (3P) LS term of the ancestor configuration = $d^6 3P$;
 - 4P LS term = $4P$;
 - 6 arbitrary LS basis state number to distinguish identical terms with different seniority.

The level 2430.097, 3.5 is misprinted in Johansson as 2439.097.

J 0.5		26.01		D7 + D6 4S + D5		4S2 + D4		5S + D5		6S + D6		4D + D7		5D + D8		4S5S + D9		4S4D + D10		4P2						
				1		2		3		4		5		6		7		8		9						
ENERGY	EIGENVALUE	E-0	LABEL	PRINCIPAL	EIGENVECTOR	COMPONENTS																				
1	977.053	1017.2	40.2	D6S	(5D)6D	0.999	2(5D)6D	3	0.034	2(3P)4P	6															
2	8846.768	8884.0	37.2	D6S	(5D)4D	0.999	2(5D)4D	4	0.038	2(3P)2P	8	-0.033	2(3P)2P	9												
3	13904.824	13997.7	92.9	D7	(5D)4P	0.989	1(4P)4P	1	0.091	1(2P)2P	2	-0.090	2(3P)4P	7	0.049	3(4P)4P	13									
4	18886.780	19139.4	252.7	D7	(5D)2P	-0.991	1(2P)2P	2	0.090	1(4P)4P	1	0.071	2(3P)2P	9	-0.068	2(3P)2P	8									
5	22409.852	22731.0	321.1	D6S	(3P)4P	0.775	2(3P)4P	7	-0.615	2(3P)4P	6	0.100	1(4P)4P	1	-0.062	2(1S)2S	11									
6	26932.748	27279.1	346.4	D6S	(3P)2P	0.774	2(3P)2P	9	-0.611	2(3P)2P	8	0.098	1(2P)2P	2	0.075	2(1S)2S	11									
7	31368.450	31017.6	-350.8	D6S	(3D)4D	0.997	2(3D)4D	5	0.054	2(3P)2P	8	-0.052	2(3P)2P	9												
8	37227.326	36109.7	-1117.7	D6S	(1S)2S	-0.876	2(1S)2S	11	0.468	2(1S)2S	10	-0.081	2(3P)4P	7	0.076	2(3P)2P	9									
9	49100.976	49333.6	232.6	D6S	(3P)4P	0.784	2(3P)4P	6	0.618	2(3P)4P	7	-0.038	2(1S)2S	11	-0.034	2(3P)2P	8									
10	54063.459	54214.6	151.2	D6S	(3P)2P	0.784	2(3P)2P	8	0.619	2(3P)2P	9	0.031	2(3P)4P	6												
11	57578.484	57618.0	39.5	D5S2	(7S)4P	-0.991	3(4P)4P	13	-0.123	3(4D)4D	12	0.049	1(4P)4P	1												
12	60384.370	60440.8	56.4	D5S2	(7S)4D	0.992	3(4D)4D	12	-0.123	3(4P)4P	13															
13	78843.992	78856.1	12.1	5S	(5D)6D	0.998	4(5D)6D	16	0.036	4(3P)4P	19	0.032	4(5D)4D	17												
14	80346.016	80357.3	11.3	5S	(5D)4D	0.998	4(5D)4D	17	0.036	4(3P)2P	21	-0.032	4(5D)6D	16												
15	83558.540	83591.0	32.4	4D	(5D)6F	0.985	6(5D)6F	34	-0.155	6(5D)6D	35	-0.062	6(5D)4D	36												
16	84131.563	84119.5	-12.0	4D	(5D)6D	0.987	6(5D)6D	35	0.156	6(5D)6F	34															
17	85172.809	85157.5	-15.3	4D	(5D)4D	0.996	6(5D)4D	36	0.058	6(5D)6F	34	-0.045	6(5D)4P	43												
18	-	86875.0	-	-	-	-0.999	3(2S)2S	15	-0.989	6(5D)4P	43	-0.115	6(3F)4P	45	-0.067	6(3D)4P	46	-0.045	6(5D)4D	36						
19	88189.030	88160.7	-28.3	4D	(5D)4P	-0.989	6(5D)4P	43	-0.471	2(1S)2S	11	-0.471	2(1S)2S	11												
20	-	97245.5	-	-	-	-0.738	4(3P)4P	20	-0.601	4(3P)4P	19	0.230	4(3P)2P	22	-0.188	4(3P)2P	21									
21	-	99196.6	-	-	-	-0.738	4(3P)2P	22	0.601	4(3P)2P	21	0.227	4(3P)4P	20	-0.184	4(3P)4P	19									
22	-	100082.1	-	-	-	-0.738	4(3P)2P	22	0.601	4(3P)2P	21	0.227	4(3P)4P	20												
23	102666.694	102671.3	4.6	6S	(5D)6D	0.996	5(5D)6D	25	0.079	5(5D)4D	26	0.035	5(3P)4P	28												
24	-	102696.5	-	-	-	0.731	6(3P)4P	48	-0.606	6(3P)4P	47	-0.223	6(3P)4D	42	0.198	6(3P)4D	41									
25	103265.694	103264.5	-1.2	6S	(5D)4D	0.996	5(5D)4D	26	-0.078	5(5D)6D	25	0.034	5(3P)2P	30												
26	-	103563.6	-	-	-	-0.616	6(3P)4D	42	0.547	6(3P)4D	41	0.355	6(3P)2P	53	-0.302	6(3P)2P	52									
27	-	104438.5	-	-	-	0.960	7(5D)6F	60	-0.257	7(5D)6D	61	-0.107	7(5D)4D	62												
28	-	104548.9	-	-	-	0.582	6(3P)2P	53	-0.490	6(3P)2P	52	0.357	6(3P)2P	50	0.356	6(3P)4D	42									
29	104757.110	104724.6	-32.5	5D	(5D)6D	0.964	7(5D)6D	61	0.259	7(5D)6F	60	-0.038	7(5D)4P	69												
30	105230.290	105262.1	31.8	5D	(5D)4D	0.991	7(5D)4D	62	0.101	7(5D)6F	60	-0.066	7(5D)4P	69	-0.039	7(5D)6D	61									
31	-	105516.4	-	-	-	-0.873	6(3F)4D	39	0.480	6(3F)4D	38	0.049	6(3D)4D	40	-0.033	6(3F)2P	50									
32	-	106576.1	-	-	-	-0.849	6(3F)4P	45	0.477	6(3F)4P	44	0.161	6(3D)4P	46	0.095	6(5D)4P	43									
33	-	107027.7	-	-	-	-0.994	7(5D)4P	69	-0.067	7(5D)4D	62	-0.064	7(3F)4P	71	-0.038	7(5D)6D	61									
34	-	108222.9	-	-	-	0.751	6(3F)2P	50	-0.397	6(3F)2P	49	-0.289	6(3P)2P	53	0.282	6(3P)2P	52									
35	-	108705.9	-	-	-	-0.999	4(3D)4D	18																		
36	-	109681.5	-	-	-	-0.968	6(3G)4D	37	-0.184	6(3F)2P	50	0.088	6(3F)2P	49	-0.084	6(3D)4D	40									
37	-	111719.0	-	-	-	-0.870	4(1S)2S	24	0.481	4(1S)2S	23	-0.081	4(3P)4P	20	0.060	4(3P)2P	22									
38	-	113932.9	-	-	-	0.991	9(6S)6D106	106	0.101	9(6S)6D105	105	-0.061	9(4G)6D107	107	-0.036	9(4P)6D110	110									
39	-	116294.8	-	-	-	-0.974	6(3D)4D	40	-0.170	6(3D)2P	51	0.088	6(3G)4D	37	0.074	6(1D)2P	55									
40	-	117053.3	-	-	-	0.921	6(3D)2P	51	-0.198	6(1D)2P	55	0.178	6(3D)2S	57	-0.177	6(3D)4D	40									
41	-	117122.3	-	-	-	0.975	6(3D)2S	57	-0.170	6(3D)2P	51	0.077	6(1D)2P	55	0.061	6(1D)2S	58									
42	-	117550.9	-	-	-	0.999	3(2P)2P	14																		
43	-	117734.9	-	-	-	0.967	6(3D)4P	46	-0.147	6(3F)4P	44	0.101	6(3D)2P	51	0.093	6(3F)4P	45									
44	-	117828.2	-	-	-	-0.987	10(6S6D)166	166	0.118	10(6S4P)184	184	0.093	10(4D6D)168	168	0.046	10(4P6D)169	169									
45	-	120960.4	-	-	-	0.851	6(1D)2S	58	-0.498	6(1D)2S	59	0.115	6(3D)4P	46	-0.077	6(3D)2S	57									
46	-	121830.0	-	-	-	-0.977	10(6S4P)184	184	0.128	10(4D4P)187	187	-0.121	10(6S6D)166	166	-0.062	10(4D4P)186	186									
47	-	122726.8	-	-	-	0.638	5(3P)4P	29	-0.519	5(3P)4P	28	0.438	5(3P)2P	31	-0.357	5(3P)2P	30									
48	-	123250.9	-	-	-	-0.637	5(3P)2P	31	0.519	5(3P)2P	30	0.435	5(3P)4P	29	-0.354	5(3P)4P	28									
49	-	123318.0	-	-	-	-0.726	7(3P)4P	74	0.612	7(3P)4P	73	0.230	7(3P)4D	68	-0.201	7(3P)4D	67									
50	-	123450.6	-	-	-	-0.808	6(1D)2P	55	0.461	6(1D)2P	56	-0.213	6(3D)2P	51	-0.193	6(1F)2P	54									
51	-	123940.8	-	-	-	-0.553	7(3P)4D	68	0.484	7(3P)4D	67	0.461	7(3P)2P	79	-0.395	7(3P)2P	78									
52	-	124737.1	-	-	-	-0.546	7(3P)2P	79	0.465	7(3P)2P	78	-0.453	7(3P)4D	68	0.395	7(3P)4D	67									
53	-	125973.3	-	-	-	-0.873	7(3F)4D	65	0.482	7(3F)4D	64	0.036	7(3F)4P	71	-0.033	7(3G)4D	63									
54	-	126579.4	-	-	-	0.862	7(3F)4P	71	-0.482	7(3F)4P	70	-0.085	7(3P)4P	72	-0.061	7(3G)4D	63									
55	-	127535.5	-	-	-	0.815	7(3F)2P	76	-0.442	7(3F)2P	75	-0.232	7(3P)2P	79	0.219	7(3P)2P	78									
56	-	128040.6	-	-	-	0.763	4(3P)4P	19	0.619	4(3P)4P	20	-0.141	4(3P)2P	21	-0.112	4(3P)2P	22									
57	-	129165.1	-	-	-	-0.762	4(3P)2P	21	-0.621	4(3P)2P	22	-0.139	4(3P)4P	19	-0.115	4(3P)4P	20									
58	-	129774.2	-	-	-	-0.993	9(6S)6D105	105	0.102	9(6S)6D106	106	-0.036	9(6S)6D111	111												
59	-	129941.5	-	-	-	0.967	6(1F)2P	54	-0.133	6(1D)2P	55	0.121	6(3P)2P	52	-0.116	6(3F)2P	49									
60	-	129990.0	-	-	-	-0.990	7(3G)4D	63	-0.101	7(3F)2P	76	-0.051	7(3F)4P	71	-0.049	7(3D)4D	66									
61	-	130223.1	-	-	-	0.995	9(6S)4D111	111	-0.062	9(4G)4D112	112	-0.040	9(4P)4D118	118	-0.036	9(6S)6D105	105									
62	-	132358.1	-	-	-	-0.999	5(3D)4D	27																		
63	-	135179.6	-	-	-	-0.870	5(1S)2S	33	0.481	5(1S)2S	32	-0.079	5(3P)4P	29	0.057	5(3P)2P	31									
64	-	136703.9	-	-	-	-0.984	7(3D)4D	66	-0.145	7(3D)2P	77	0.061	7(1D)2P	81	0.049	7(3G)4D	63									
65	-	136989.1	-	-	-	-0.658	6(3F)4D	38	-0.413	6(3F)2P	49	-0.360	6(3P)4D	39	-0.309	6(3P)4D	41									
66	-	137137.8	-	-	-	-0.702	6(3F)2P	49	0.420	6(3F)4D																

96	-	151682.0	-	-	0.735	5(3P)4P 28	0.596	5(3P)4P 29	-0.251	5(3P)2P 30	-0.202	5(3P)2P 31
97	-	151978.6	-	-	0.804	10(4P4D177	-0.331	10(4P4D176	0.305	10(4D4D174	-0.238	10(4P2P197
98	-	152044.7	-	-	-0.893	9(4D)6D109	-0.293	9(4G)6D107	-0.253	9(4P)6D110	0.186	9(4P)4P134
99	-	152313.4	-	-	-0.733	5(3P)2P 30	-0.598	5(3P)2P 31	-0.250	5(3P)4P 28	-0.205	5(3P)4P 29
100	-	152686.7	-	-	-0.536	10(4D4P186	0.522	10(4P4P189	0.457	10(4D4P187	0.222	10(2D4P193
101	-	153189.2	-	-	0.560	10(4D4D173	0.552	10(4P2P197	-0.383	10(4D2P196	-0.242	10(4P4D176
102	-	153529.6	-	-	-0.683	10(4D4D173	0.409	10(4P2P197	-0.382	10(4D2P196	0.185	10(4P4P189
103	-	153818.4	-	-	0.985	8(4P)4P 93	0.107	8(4P)2P 96	0.104	8(4D)4D 88	-0.059	8(4P)4P 94
104	-	154233.1	-	-	-0.981	8(4P)2P 96	0.123	8(4P)4P 93	-0.122	8(4D)4D 88	0.059	8(2D)4D 92
105	-	154269.3	-	-	0.546	10(4D4P187	-0.489	10(4P4P190	0.442	10(4D4P186	-0.284	10(4P4P189
106	-	154405.1	-	-	0.945	9(4D)4D117	-0.184	9(4G)4D113	-0.151	9(4P)4D119	0.139	9(4D)4D116
107	-	154874.1	-	-	0.963	9(4D)4P132	0.138	9(4D)4P131	0.124	9(2D)4P139	-0.096	9(2P)4P135
108	-	155372.7	-	-	0.570	10(4P4P189	0.501	10(4D4P186	0.473	10(4P4P188	0.233	10(4D4D174
109	-	155615.8	-	-	-0.801	10(4D4D174	0.259	10(4P4D177	-0.221	10(2D4D182	0.197	10(4P4P189
110	-	156256.0	-	-	0.933	8(4F)6F 86	0.278	8(4D)4D 88	-0.177	8(2D)4D 92	-0.106	8(2D)4D 90
111	-	157119.1	-	-	-0.943	8(4D)4D 88	0.267	8(4F)6F 86	-0.117	8(2D)4D 92	0.112	8(4P)2P 96
112	-	157851.4	-	-	-0.611	7(3F)4D 64	-0.515	7(3F)2P 75	-0.335	7(3F)4D 65	-0.273	7(3F)2P 76
113	-	157936.0	-	-	-0.739	10(4D2P196	-0.613	10(4P2P197	0.163	10(2F2P198	0.092	10(2D2P205
114	-	157950.3	-	-	-0.655	7(3F)2P 75	0.519	7(3F)4D 64	-0.355	7(3F)2P 76	0.288	7(3F)4D 65
115	-	158445.0	-	-	0.756	7(3F)4P 70	0.417	7(3F)4P 71	-0.365	7(3P)4P 73	-0.309	7(3P)4P 74
116	-	158711.2	-	-	0.844	8(2D)4D 92	0.470	8(2D)4D 90	0.235	8(4F)6F 86	0.074	8(4P)2P 96
117	-	159077.8	-	-	-0.582	7(3P)4D 67	-0.510	7(3P)4D 68	-0.328	7(3P)2P 78	0.316	7(3F)4D 64
118	-	159345.4	-	-	0.582	10(2D4D182	0.567	10(2F4D178	0.355	10(2D4D180	-0.240	10(4P4D176
119	-	159541.6	-	-	-0.902	9(4G)4D112	0.309	9(4P)4D118	0.225	9(4D)4D116	0.150	9(4G)4D113
120	-	159633.9	-	-	0.632	7(3P)2P 78	0.551	7(3P)2P 79	-0.345	7(3P)4D 67	-0.303	7(3P)4D 68
121	-	160062.9	-	-	-0.666	7(3P)4P 73	-0.563	7(3P)4P 74	-0.392	7(3F)4P 70	-0.236	7(3F)4P 71
122	-	160622.4	-	-	-0.900	10(4P6F164	-0.237	10(2P4D178	-0.215	10(4D4D175	-0.160	10(4G6F163
123	-	160893.7	-	-	0.938	9(4P)4P133	0.181	9(4P)2P143	-0.154	9(4P)4P134	-0.137	9(4P)4D118
124	-	161108.4	-	-	0.657	10(4D4D175	-0.269	10(4P6F164	-0.261	10(4F4D172	0.254	10(4P4P190
125	-	161272.2	-	-	0.864	10(4P6D167	-0.253	10(4D4D175	0.234	10(4D6D168	-0.189	10(2D4P193
126	-	161286.9	-	-	0.881	9(4P)2P143	-0.257	9(4P)4D118	-0.242	9(4P)4P133	-0.166	9(4D)2S156
127	-	161554.7	-	-	-0.694	10(4P4P190	-0.470	10(4D4P187	0.288	10(4F6D167	0.215	10(4D4D175
128	-	161647.9	-	-	0.828	9(4P)4D118	-0.307	9(4D)4D116	0.292	9(4P)2P143	0.230	9(4G)4D112
129	-	162355.4	-	-	-0.685	10(2D2P204	-0.389	10(2D2P200	-0.293	10(2F2P198	-0.232	10(2D4D182
130	-	162489.1	-	-	-0.974	9(4F)6F102	-0.149	9(4P)4D118	0.114	9(2D)4D126	0.074	9(2D)4D124
131	-	163195.1	-	-	-0.968	9(4D)2S156	-0.198	9(4P)2P143	-0.088	9(4P)4P133	-0.079	9(4D)4P131
132	-	163225.9	-	-	-0.747	10(2D4P193	-0.410	10(2D4P191	-0.378	10(4P4P190	-0.200	10(4F6D167
133	-	164036.6	-	-	-0.928	9(4D)4P131	-0.282	9(4P)6D108	0.139	9(4D)4P132	0.096	9(2P)4P135
134	-	164517.9	-	-	0.781	9(4F)6D108	-0.393	9(2D)4P139	-0.295	9(4D)4P131	-0.226	9(2D)4P137
135	-	164610.9	-	-	-0.681	10(2F4D178	0.407	10(2D4D182	-0.267	10(2D2P204	0.205	10(2D4D180
136	-	164675.1	-	-	-0.626	9(4D)2P142	-0.486	9(4F)4D115	0.453	9(2D)4D126	0.254	9(2D)4D124
137	-	164918.1	-	-	-0.681	9(4D)2P142	-0.513	9(2D)4D126	-0.287	9(2D)4D124	-0.221	9(2F)4D122
138	-	165173.6	-	-	-0.527	9(4F)6D108	-0.520	9(2D)4P139	-0.431	9(2F)4P135	-0.283	9(2D)4P137
139	-	165698.7	-	-	-0.620	9(4F)4D115	-0.436	9(4D)4D116	0.373	9(2F)4D122	-0.370	9(2D)4D126
140	-	165876.8	-	-	-0.744	9(2F)4D122	-0.355	9(4F)4D115	0.339	9(2D)2P153	0.204	9(2D)2P152
141	-	166259.9	-	-	-0.774	9(4D)4D116	0.367	9(4F)4D115	-0.267	9(4G)4D112	-0.243	9(4P)4D118
142	-	167329.6	-	-	-0.566	9(4F)4P130	0.536	9(2D)2P153	0.303	9(2D)2P149	0.288	9(2F)4D122
143	-	167507.6	-	-	-0.654	9(4F)4P130	-0.357	9(2D)2P153	0.288	9(2F)2P145	-0.276	9(2F)4D122
144	-	167661.0	-	-	-0.649	10(2D2S213	0.424	10(2D2P205	-0.371	10(2D2S211	0.276	10(2F2P198
145	-	167856.6	-	-	0.566	10(2D2P205	0.447	10(2D2S213	0.366	10(4F4D171	0.306	10(2D2P201
146	-	168028.0	-	-	-0.778	10(4F4D171	0.355	10(2D2P205	-0.261	10(4D4D175	-0.202	10(2F4D179
147	-	168210.9	-	-	0.869	6(1D)2P 56	0.495	6(1D)2P 55	0.506	6(1D)2S 58		
148	-	168253.2	-	-	-0.831	9(2F)2P145	-0.342	9(2D)2P153	-0.283	9(2F)2P144	-0.184	9(2D)2P149
149	-	168862.0	-	-	0.863	6(1D)2S 59	0.506	6(1D)2S 58				
150	-	168628.4	-	-	-0.778	9(2F)4P135	0.358	9(2D)4P139	-0.354	9(4F)4P130	0.184	9(2D)4P137
151	-	169900.3	-	-	-0.752	10(2F2P198	0.369	10(4F4P185	0.310	10(2D2P204	-0.201	10(2D2S213
152	-	170368.2	-	-	-0.871	10(4F4P185	-0.299	10(2F2P198	-0.223	10(2D2S213	0.176	10(4D4P187
153	-	170960.2	-	-	-0.913	10(2P4D179	0.214	10(2D4D181	0.179	10(4F4D171	-0.165	10(2F4D178
154	-	171482.0	-	-	-0.808	9(2G)4D121	-0.398	9(2D)2S162	0.243	9(2D)2S161	-0.217	9(2D)2S158
155	-	171593.9	-	-	-0.592	9(2D)2S162	0.543	9(2G)4D121	0.370	9(2D)2S161	-0.323	9(2D)2S158
156	-	172681.1	-	-	-0.875	10(4F4D172	-0.380	10(4D4D175	0.148	10(4D4D174	0.137	10(4G4D170
157	-	173198.2	-	-	0.698	9(2D)2P152	0.466	9(2F)2P144	0.388	9(2D)2P148	-0.220	9(2D)2P153
158	-	173910.4	-	-	0.719	9(2D)2S161	0.456	9(2D)2S162	0.393	9(2D)2S157	0.233	9(2D)2S158
159	-	174920.1	-	-	-0.911	10(2S4P195	-0.326	10(2D4P192	0.127	10(4D4P187	0.105	10(4D4P186
160	-	175720.2	-	-	0.992	8(2S)2S100	0.119	8(2S)2S 99				
161	-	176016.0	-	-	-0.933	9(2F)4D123	-0.198	9(2S)4D128	0.136	9(2G)4D121	0.107	9(2F)2P144
162	-	176255.4	-	-	0.949	9(2F)4P136	-0.186	9(4F)4P129	0.099	9(4D)4P132	-0.095	9(2D)4P139
163	-	176337.0	-	-	0.512	9(4F)2P141	-0.478	9(2F)2P144	-0.443	9(2F)2P147	0.272	9(2D)2P152
164	-	176568.4	-	-	0.875	4(1S)2S 23	0.483	4(1S)2S 24				
165	-	176927.5	-	-	0.941	9(4F)4P129	0.206	9(2F)4P136	-0.142	9(4F)4P130	-0.111	9(2F)2P147
166	-	177681.0	-	-	0.771	9(2F)2P147	-0.405	9(2F)2P144	0.367	9(2F)2P146	0.168	9(2D)2P152
167	-	178182.1	-	-	-0.735	10(2F2P199	0.484	10(2S2P209	0.321	10(2D2P202	0.164	10(2F2P198
168	-	178478.4	-	-	-0.797	9(4F)2P141	-0.377	9(2F)2P144	-0.251	9(4F)4D114	-0.209	9(2F)2P147
169	-	178858.7	-	-	0.927	9(4F)4D114	-0.186	9(4F)4P141	-0.164	9(4F)4D115	-0.158	9(2F)2P144
170	-	179158.4	-	-	0.748	10(2S2P209	0.555	10(2F2P199	-0.222	10(2F2P198	0.198	10(2D2P202
171	-	180387.5	-	-	-	8(2D)4D 91						
172	-	180591.4	-	-	0.971	9(2S)4D128	-0.191	9(2F)4D123	0.088	9(2G)4D121	0.052	9(4D)4D117
173	-	180670.2	-	-	0.992	8(2S)2S 99	-0.119	8(2S)2S100				
174	-	183046.1	-	-	-0.714	10(2S2S215	0.658	10(2D2S212	0.143	10(2D2S213	0.120	10(4P2S210
175	-	183566.7	-	-	0.959	10(2B4D181	0.197	10(2F4D179	0.094	10(2D4D182	-0.076	10(4F4D171
176	-	184046.1	-	-	-0.899	9(2F)2P146	0.370	9(2F)2P147	-0.120	9(4D)2P142	0.086	9(2D)2P152
177	-	184767.8	-	-	-0.923	10(2D4P192	0.341	10(2S4P195	0.096	10(4F4P185	-0.073	10(2D4D181
178	-	187242.7	-	-	0.988	9(2D)4D125	-0.082	9(2G)4D120	0.071	9(2S)4D128	0.060	9(2F)4D123
179	-	187974.6	-	-	-0.991	9(2D)4P138	-0.084	9(4F)4P130	0.046	9(2P)4P140	0.046	9(2F)4P136
180	-	188215.6	-	-	-0.870	7(1D)2P 82	-0.493	7(1D)2P 81				
181	-	188469.8	-	-	0.729	10(2D2P202	0.602	10(2D2P203	-0.278	10(2S2P209	-0.075	10(2F2P198
182	-	188584.0	-	-	-0.866	7(1D)2S 85	-0.499	7(1D)2S 84				
183	-	189091.9	-	-	0.925	9(2D)2P151	0.371	9(2D)2P150	-0.046	9(2F)2P146		
184	-	190561.3	-	-	0.779	10(2D2P203	-0.549	10(2D2P202	0.204	10(2S2P209	-0.161	10(2F2P199
185	-	191782.9	-	-	-0.981	9(2						

73	-	117817.4	-	-	-0.978 6(3D)4P 71	0.139 6(3F)4P 69	-0.095 6(3F)4P 70	0.079 6(5D)4P 68
74	-	117858.8	-	-	-0.984 10(6S6D)284	0.110 10(6S4P)320	0.093 10(4D6D)286	0.082 10(6S6P)288
75	-	119604.3	-	-	-0.695 6(3D)2D 79	0.446 6(1S)2D 88	-0.265 6(1S)2D 87	-0.236 6(1D)2D 85
76	-	121563.5	-	-	-0.657 5(3P)2P 48	0.541 5(3P)2P 47	-0.403 5(3P)4P 43	0.331 5(3P)4P 42
77	-	121667.8	-	-	-0.978 10(6S4P)320	0.129 10(4D4P)323	-0.109 10(6S6D)284	0.062 10(4P4P)325
78	-	122255.9	-	-	-0.825 6(1D)2D 85	0.462 6(1D)2D 86	0.224 6(3D)2D 79	-0.126 6(1G)2D 83
79	-	122626.3	-	-	0.660 5(3P)4P 43	-0.538 5(3P)4P 42	-0.404 5(3P)2P 48	0.330 5(3P)2P 47
80	-	123257.6	-	-	0.811 6(1D)2P 95	-0.462 6(1D)2P 96	0.219 6(3D)2P 91	0.188 6(1F)2P 94
81	-	123330.5	-	-	0.616 7(3P)4P121	-0.519 7(3P)4P120	-0.432 7(3P)4D115	0.379 7(3P)4D114
82	-	123468.8	-	-	0.999 8(6S)4S161			
83	-	123575.4	-	-	-0.886 5(3F)4F 39	0.461 5(3F)4F 38	-0.039 5(1D)2D 45	
84	-	123930.1	-	-	-0.375 7(3P)4D115	-0.349 7(3P)2D129	0.328 7(3P)4D114	0.322 7(3P)2P141
85	-	124635.0	-	-	0.545 7(3H)4F102	-0.502 7(3P)4F108	0.425 7(3P)4F107	-0.302 7(3P)4D115
86	-	124721.4	-	-	0.419 7(3P)2D129	-0.362 7(3P)4D115	-0.360 7(3P)2D128	-0.325 7(3P)2P141
87	-	125208.4	-	-	-0.874 3(2D)2D 21	0.480 3(2D)2D 23	0.064 3(2P)2P 24	-0.040 1(2D)2D 3
88	-	125232.0	-	-	0.493 7(3H)4F102	-0.401 7(3P)2P141	0.339 7(3P)2P140	-0.325 7(3P)2D129
89	-	125472.1	-	-	-0.433 7(3H)4F102	-0.399 7(3P)4F108	-0.357 7(3P)4F105	0.338 7(3P)4F107
90	-	125898.2	-	-	0.849 7(3F)4D112	-0.473 7(3F)4D111	-0.122 7(3F)4F105	-0.090 7(3G)4F103
91	-	126460.3	-	-	0.834 7(3F)4P118	-0.472 7(3F)4P117	0.135 7(3F)4F105	0.111 7(3D)4D112
92	-	126523.2	-	-	0.695 7(3F)4F105	-0.402 7(3H)4F102	-0.379 7(3F)4F104	0.248 7(3G)4F103
93	-	127092.6	-	-	-0.769 7(3F)2D126	0.400 7(3F)2D125	-0.248 7(3P)2D129	0.199 7(3P)2D128
94	-	127614.3	-	-	-0.755 7(3F)2P138	0.419 7(3F)2P137	0.294 7(3P)2P141	-0.272 7(3P)2P140
95	-	128435.5	-	-	-0.758 4(3P)4P 30	-0.619 4(3P)4P 31	0.157 4(3P)2P 35	0.127 4(3P)2P 36
96	-	128563.8	-	-	0.886 4(3P)4F 26	0.462 4(3F)4F 27		
97	-	129777.8	-	-	-0.992 9(6S)6D181	0.102 9(6S)6D182	-0.069 9(6S)4D207	
98	-	129917.9	-	-	-0.985 7(3G)4D110	-0.089 7(3F)4P118	-0.079 7(3F)2P138	0.062 7(3H)4F102
99	-	130001.0	-	-	0.957 6(1F)2P 94	-0.145 6(1F)2D 84	0.127 6(3P)2P 92	-0.123 6(1D)2P 95
100	-	130051.8	-	-	0.756 4(3P)2P 35	0.622 4(3P)2P 36	0.155 4(3P)4P 30	-0.129 4(3P)4P 31
101	-	130223.4	-	-	0.993 9(6S)4D207	-0.069 9(6S)6D181	-0.062 9(4G)4D208	-0.035 9(4P)4D214
102	-	130788.3	-	-	-0.957 6(1F)2D 84	-0.179 6(3D)2D 79	-0.137 6(1F)2P 94	-0.090 6(3G)2D 76
103	-	130877.5	-	-	-0.927 7(3G)2D124	0.277 7(3G)4F103	-0.098 7(1G)2D131	0.097 7(3D)2D127
104	-	130965.2	-	-	0.918 7(3G)4F103	0.293 7(3G)2D124	-0.158 7(3F)4F105	0.149 7(3H)4F102
105	-	132367.0	-	-	-0.997 5(3D)4D 41	-0.048 5(1D)2D 45	0.034 5(1D)2D 46	-0.033 5(3P)4P 42
106	-	132728.9	-	-	0.996 5(3D)2D 44	0.054 5(1D)2D 45	-0.038 5(1D)2D 46	0.036 5(3P)2P 47
107	-	134612.0	-	-	0.757 7(1G)2D131	-0.583 7(1G)2D130	0.168 7(3D)2D127	0.119 7(3D)2D126
108	-	136603.6	-	-	-0.983 7(3D)4S123	0.124 7(3D)4D113	0.103 7(3D)2P139	-0.055 7(1D)2P143
109	-	136717.0	-	-	0.969 7(3D)4D113	0.139 7(3D)4S123	0.134 7(3D)2P139	0.115 7(3D)4F106
110	-	136836.2	-	-	0.988 7(3D)4F106	-0.103 7(3D)4D113	-0.059 7(3D)2P139	-0.052 7(1D)2D133
111	-	136998.8	-	-	0.649 6(3F)4D 63	0.357 6(3F)4D 64	0.323 6(3P)4D 66	0.280 6(3P)4D 67
112	-	137100.7	-	-	-0.752 6(3F)2P 89	-0.394 6(3F)2P 90	-0.305 6(3P)2P 92	0.273 6(3F)4D 63
113	-	137143.5	-	-	0.963 7(3D)2P139	-0.157 7(3D)4D113	-0.123 7(1D)2P143	0.093 7(3D)4S123
114	-	137272.9	-	-	0.601 6(3P)4F 59	0.511 6(3P)4F 60	0.392 6(3F)4F 56	-0.331 6(3F)4D 63
115	-	137275.7	-	-	0.684 7(1S)2D136	0.598 7(3D)2D127	-0.398 7(1S)2D135	0.062 7(1D)2D133
116	-	137494.1	-	-	-0.988 7(3D)4P119	-0.078 7(3D)2P139	0.076 7(3P)4P117	0.060 7(3D)4D113
117	-	137683.4	-	-	0.999 8(4G)6G145	0.046 8(2F)4F151		
118	-	137867.5	-	-	-0.657 6(3F)4P 69	0.478 6(3P)4P 72	0.399 6(3P)4P 73	-0.360 6(3F)4P 70
119	-	138504.1	-	-	-0.874 5(1D)2D 45	0.474 5(1D)2D 46	0.065 5(3D)2D 44	0.061 5(3D)4D 41
120	-	138603.0	-	-	0.760 7(3D)2D127	-0.502 7(1S)2D136	0.297 7(1S)2D135	-0.144 7(1G)2D131
121	-	138914.1	-	-	0.524 6(3P)2P 92	0.467 6(3P)2P 93	-0.325 6(3P)2P 89	0.299 6(3P)4D 66
122	-	139227.9	-	-	-0.523 6(3P)4D 66	-0.466 6(3P)4D 67	0.297 6(3P)2P 92	0.291 6(3F)4D 63
123	-	139455.1	-	-	-0.703 6(3F)4F 56	-0.383 6(3F)4F 57	0.352 6(3P)4F 59	0.293 6(3P)4F 60
124	-	140005.0	-	-	0.588 6(3P)2D 80	0.506 6(3P)2D 81	-0.337 6(3P)2D 77	-0.267 6(3P)2P 92
125	-	140216.6	-	-	0.974 10(4G6F)281	-0.176 10(4F6F)282	-0.085 10(4G6G)279	0.082 10(4D6F)283
126	-	140528.4	-	-	-0.589 6(3P)4P 72	-0.499 6(3F)4P 69	-0.492 6(3P)4P 73	-0.314 6(3P)4P 70
127	-	140642.2	-	-	-0.991 8(4P)6P148	-0.130 8(4D)6D147		
128	-	141250.8	-	-	0.737 6(3F)2D 77	0.373 6(3F)2D 78	-0.315 6(1G)2D 82	-0.286 6(1G)2D 83
129	-	141332.9	-	-	-0.889 10(4P6P)290	0.429 10(4D6P)289	-0.100 10(6S6P)288	-0.094 10(4D6D)286
130	-	141966.6	-	-	0.989 10(4G6G)279	0.097 10(4F6G)280	0.084 10(4G6F)281	0.051 10(2F4F)301
131	-	142178.3	-	-	0.861 7(1D)2D133	-0.481 7(1D)2D134	-0.102 7(3D)2D127	0.055 7(3D)4F106
132	-	142675.9	-	-	0.850 7(1D)2P143	-0.481 7(1D)2P144	0.146 7(3D)2P139	0.074 7(1F)2P142
133	-	142987.9	-	-	-0.954 8(4P)4P159	-0.241 8(4D)6D147	-0.158 8(4D)4D154	-0.063 8(4P)4P158
134	-	143270.2	-	-	0.979 10(4P6D)287	0.133 10(4D6F)283	0.073 10(4F6D)285	-0.056 10(4D6D)286
135	-	143917.9	-	-	0.961 8(4D)6D147	-0.240 8(4P)4P159	-0.124 8(4P)6P148	-0.050 8(4D)4D154
136	-	143953.7	-	-	0.992 9(4G)6F177	0.113 9(4G)6G174	0.038 9(2P)4D218	
137	-	144014.5	-	-	0.992 9(4G)6G174	-0.114 9(4G)6F177	0.041 9(2P)4P201	
138	-	144877.0	-	-	-0.710 10(4G4F)291	-0.596 10(4G4F)292	0.233 10(4D4F)296	0.157 10(4F4F)293
139	-	145441.3	-	-	0.915 9(4G)6D183	-0.322 9(4P)6D186	-0.229 9(4D)6D185	-0.037 9(4P)6P189
140	-	145760.3	-	-	-0.934 10(4D6D)286	0.246 10(4F6D)285	0.153 10(4D6F)283	-0.099 10(4F4P)324
141	-	146064.8	-	-	0.913 10(4D6F)283	0.248 10(4P4D)312	0.142 10(4D6D)286	-0.135 10(4P6D)287
142	-	146323.8	-	-	0.983 8(4D)4D154	-0.164 8(4P)4P159	0.062 8(4D)4D153	
143	-	146653.2	-	-	-0.959 9(4P)6F180	0.254 9(4D)6F179	-0.084 9(4D)6G176	0.054 9(4G)6D183
144	-	146852.2	-	-	0.983 9(4P)6P189	-0.129 9(4P)6D186	0.075 9(4D)6D185	-0.052 9(4G)4D209
145	-	146912.7	-	-	0.723 6(1G)2D 82	0.535 6(1G)2D 83	0.325 6(3P)2D 77	0.198 6(3P)2D 80
146	-	147053.9	-	-	-0.959 9(4G)4D209	-0.177 9(4D)4D213	-0.169 9(4G)4D208	0.066 9(4P)4D215
147	-	147272.2	-	-	0.540 10(4P4D)312	0.441 10(4P4P)324	-0.277 10(4D6F)283	-0.274 10(4P4P)325
148	-	147580.4	-	-	-0.894 9(4P)6D186	0.314 9(4D)6D185	-0.239 9(4G)6D183	-0.142 9(4P)6P189
149	-	147643.5	-	-	-0.575 10(4P4P)324	0.488 10(4P4D)312	0.359 10(4P4P)325	0.236 10(4D4P)322
150	-	148054.5	-	-	0.935 9(4G)4F191	0.242 9(4P)4F197	-0.177 9(4D)4F195	0.140 9(4G)4F190
151	-	148998.8	-	-	-0.813 10(4P4S)333	-0.461 10(4D6P)289	-0.213 10(4P6P)289	-0.180 10(4P4P)324
152	-	149782.3	-	-	-0.753 10(4G4D)306	-0.387 10(4P4F)298	-0.260 10(4P4D)312	-0.190 10(4P4D)313
153	-	149868.9	-	-	0.693 10(4P4F)298	-0.403 10(4G4D)306	-0.367 10(4D4F)297	-0.214 10(4P4D)313
154	-	149875.5	-	-	-0.913 9(4D)6G176	-0.217 9(4D)6F179	-0.213 9(4P)4D215	-0.200 9(4P)4F197
155	-	149935.2	-	-	-0.757 9(4D)6P188	-0.513 9(4P)4D215	0.254 9(4D)6G176	-0.215 9(4D)6F179
156	-	149951.1	-	-	0.986 7(1F)2P142	-0.099 7(1F)2D132	0.062 7(3P)2P140	-0.060 7(3D)2P139
157	-	149992.7	-	-	0.662 9(4P)4D215	-0.629 9(4D)6P188	0.283 9(4D)6F179	-0.146 9(4D)6G176
158	-	150007.8	-	-	0.764 10(4D6P)289	-0.468 10(4P4S)333	0.378 10(4P6F)290	-0.146 10(4P4P)324
159	-	150388.2	-	-	-0.985 7(1F)2D132	-0.097 7(1F)2P142	-0.097 7(3D)2D127	-0.043 7(3G)2D124
160	-	150464.6	-	-	-0.861 9(4D)6F179	0.401 9(4P)4D215	-0.227 9(4P)6F180	0.117 9(4D)6G176
161	-	151059.8	-	-	-0.921 9(4P)4F197	0.226 9(4G)4F191	0.224 9(4D)6G176	-0.133 9(4P)4F196
162	-	151140.7	-	-	-0.613 10(4D4F)296	-0.483 10(4G4F)291	-0.428 10(4P2D)337	0.268 10(4G4F)292
163	-	151252.9	-	-	0.921 9(4P)4P230	-0.242 9(4D)4S238	0.134 9(4P)4P229	-0.124 9(2F)4P231
164	-	151668.6	-	-	-0.683 10(4P2D)337	-0.386 10(4G4F)292	0.347 10(4G4F)291	-0.343 10(4D2D)336
165	-	151898.5	-	-	-0.799 10(4P4D)313	-0.351 10(4D4D)310	0.331 10(4P4D)312	0.224 10(4G4D)306
166	-	152011.6	-	-	-0.902 9(4D)6D185	-0.299 9(4G)6D183	-0.237 9(4P)6D186	0.123 9(4P)4P230
167	-	152064.7	-	-	-0.740 5(3P)4P 42	-0.605 5(3P)4P 43	0.227 5(3P)2P 47	0.185 5(3P)2P 48
168	-	152214.2	-	-	0.886 5(3P)4F 38	0.462 5(3F)4F 39		
169	-	152324.3	-	-	0.586 10(4D4P)325	-0.471 10(4P4P)325	-0.464 10(4D4P)323	-0.227 10(2D4P)329
170	-	152736.7	-	-	0.589 10(4D4F)296	0.525 10(4G4F)292	0.346 10(4D4F)297	-0.226 10(4G4F)291
171	-	153117.9	-	-	-0.952 9(4D)4S238	-0.241 9(4P)4P230	-0.156 9(4D)4S237	-0.050 9(4D)4D213
172	-	153173.4	-	-	0.738 5(3P)2P 47	0.607 5(3P)2P 48	0.226 5(3P)4P 42	0.186 5(3P)4P 43

173	-	153420.5	-	-	-0.714	10(4D4D309	-0.443	10(4P2P357	0.258	10(4P4D312	0.251	10(4D2P356
174	-	153695.0	-	-	0.576	10(4P2P357	-0.504	10(4D4D309	-0.415	10(4D2P356	0.239	10(4P4P325
175	-	153735.4	-	-	-0.970	8(4P)4P158	-0.167	8(4D)4D153	-0.128	8(4P)2P170	0.074	8(2D)4D157
176	-	153769.9	-	-	0.961	9(4D)4F195	0.160	9(4G)4F191	0.150	9(4D)4F194	-0.072	9(4D)4D213
177	-	154107.9	-	-	0.964	8(4P)2P170	0.172	8(4D)2D163	-0.143	8(4P)4P158	-0.067	8(2D)2D169
178	-	154302.6	-	-	0.555	10(4D4P322	0.461	10(4D4P323	-0.459	10(4P4P326	0.359	10(4P4P324
179	-	154491.2	-	-	0.930	9(4D)4D213	-0.190	9(4P)4D215	-0.184	9(4G)4D209	0.137	9(4D)4D212
180	-	154805.7	-	-	-0.964	9(4D)4P228	-0.137	9(4D)4P227	-0.118	9(2D)4P235	-0.106	9(4F)4P226
181	-	155381.0	-	-	-0.554	10(4P4P325	-0.372	10(4P4P324	-0.311	10(4D4P322	-0.296	10(4D4D310
182	-	155400.9	-	-	-0.878	4(1D)2D 34	-0.478	4(1D)2D 33				
183	-	155665.5	-	-	0.712	10(4D4D310	-0.266	10(4P4P325	-0.224	10(4D4F297	-0.221	10(4P4D313
184	-	155886.9	-	-	-0.691	10(4D4F297	-0.452	10(4P4F298	0.291	10(4D4F296	-0.255	10(4D4D310
185	-	156291.2	-	-	-0.941	8(4F)6F146	-0.256	8(4D)4D153	0.160	8(2D)4D157	0.099	8(2D)4D155
186	-	156489.4	-	-	0.746	10(4D2D336	-0.386	10(4P2D337	0.259	10(4D2P356	-0.188	10(2G2D339
187	-	156955.0	-	-	-0.888	10(4D4S332	-0.232	10(4P4P325	0.169	10(4P2P357	-0.168	10(4D2D336
188	-	157116.1	-	-	-0.944	8(4D)4D153	0.251	8(4F)6F146	0.136	8(4P)4P158	-0.105	8(2D)4D157
189	-	157119.0	-	-	-0.974	9(4G)2D242	-0.183	9(4D)2D244	-0.063	9(4F)2D243	0.059	9(4P)2D245
190	-	157443.9	-	-	-0.962	8(4D)2D163	-0.185	8(4F)4F150	0.175	8(4P)2P170	-0.053	8(2F)4F151
191	-	157516.1	-	-	-0.726	10(4D2P356	-0.505	10(4P2P357	-0.264	10(4D4S332	0.197	10(4D2D336
192	-	157851.9	-	-	0.575	7(3F)4D111	0.364	7(3F)2P137	0.317	7(3F)4D112	0.287	7(3P)4F107
193	-	157916.9	-	-	-0.709	7(3F)2P137	0.397	7(3F)4D111	-0.387	7(3F)2P138	-0.236	7(3P)2P140
194	-	158052.8	-	-	0.568	7(3P)4F107	0.484	7(3P)4F108	0.404	7(3F)4F104	-0.388	7(3F)4D111
195	-	158063.2	-	-	-0.984	9(4G)4F190	0.144	9(4G)4F191	0.053	9(4G)2D242	-0.046	9(2F)2D250
196	-	158397.7	-	-	0.704	7(3F)4F117	-0.408	7(3P)4P120	0.390	7(3F)4P118	-0.345	7(3P)4F121
197	-	158473.3	-	-	-0.759	8(2D)4D157	-0.424	8(2D)4D155	0.402	8(2F)4F151	-0.209	8(4F)6F146
198	-	158476.8	-	-	-0.966	10(4P6G280	0.166	10(2D4F305	0.105	10(2D4F303	0.094	10(4G6G279
199	-	158776.8	-	-	-0.902	8(4F)4F150	0.271	8(2D)2D169	-0.203	8(2F)4F151	0.192	8(4D)2D163
200	-	158956.6	-	-	-0.521	7(3P)2P140	-0.453	7(3P)2P141	0.289	7(3P)2P137	-0.265	7(3P)4D114
201	-	159207.8	-	-	0.526	7(3F)4F104	-0.342	7(3P)4D114	0.308	7(3P)2P140	-0.300	7(3P)4D115
202	-	159294.0	-	-	-0.462	7(3F)4F104	-0.413	7(3P)4D114	-0.362	7(3F)4D115	0.280	7(3P)4F107
203	-	159321.3	-	-	0.577	10(2D4D318	0.563	10(2F4D314	0.352	10(2D4D316	-0.227	10(4P4D312
204	-	159513.1	-	-	-0.886	9(4G)4D208	0.321	9(4P)4D214	0.232	9(4D)4D212	0.147	9(4G)4D209
205	-	159620.4	-	-	-0.771	8(2F)4F151	-0.366	8(2D)4D157	0.297	8(2D)2D169	0.288	8(4F)4F150
206	-	159798.0	-	-	0.472	7(3P)2D128	-0.459	7(3P)2D125	0.410	7(3P)2D129	-0.305	7(3P)2P140
207	-	160009.3	-	-	-0.618	7(3P)4P120	-0.522	7(3P)4P121	-0.386	7(3F)4P117	-0.233	7(3P)4P118
208	-	160156.3	-	-	-0.949	9(4P)2D245	-0.203	9(4D)2D244	-0.134	9(4G)4D208	0.109	9(4P)4F196
209	-	160536.5	-	-	0.662	10(2D4F305	-0.556	10(4P6F282	0.367	10(2D4F303	0.165	10(4D4F297
210	-	160565.7	-	-	0.702	7(3F)2D125	0.419	7(3P)2D128	0.364	7(3F)2D126	0.345	7(3P)2D129
211	-	160695.9	-	-	-0.716	10(4P6F282	-0.403	10(2D4F305	-0.262	10(4D4D311	-0.221	10(2D4F303
212	-	160775.4	-	-	0.761	9(4P)4F196	0.520	9(4P)4P229	-0.208	9(4D)4F194	-0.141	9(4P)4D214
213	-	160796.1	-	-	-0.752	9(4P)4P229	0.552	9(4P)4F196	-0.149	9(4P)2P266	-0.133	9(4D)4F194
214	-	160914.1	-	-	-0.764	8(2D)2D169	-0.425	8(2D)2D165	-0.419	8(2F)4F151	-0.205	8(4F)4F150
215	-	161095.1	-	-	0.517	10(4D4D311	0.418	10(4P6D285	0.313	10(4P4P326	0.292	10(4D4P323
216	-	161238.1	-	-	0.828	10(4P6D285	-0.350	10(4D4D311	0.213	10(4D6D286	0.148	10(4F6F282
217	-	161354.9	-	-	0.902	9(4P)2P266	-0.246	9(4P)4P229	-0.178	9(4P)4D214	-0.121	9(2P)2P267
218	-	161649.1	-	-	-0.589	10(4P4P326	-0.434	10(4D4P323	0.316	10(4D4D311	-0.241	10(2D2P364
219	-	161728.5	-	-	-0.841	9(4P)4D214	0.284	9(4D)4D212	-0.247	9(4G)4D208	-0.234	9(4P)2P266
220	-	161878.1	-	-	0.657	10(2D2P364	0.373	10(2D2P360	0.300	10(2D2P358	-0.225	10(2D2P365
221	-	162422.1	-	-	-0.814	10(2F4F301	0.309	10(2D2D350	0.178	10(2D2D344	0.144	10(2F2D341
222	-	162490.8	-	-	0.977	9(4F)6F178	-0.110	9(2D)4D222	0.102	9(4P)4D214	-0.071	9(2D)4D220
223	-	162590.3	-	-	0.970	9(4F)6P187	-0.160	9(2D)4S241	-0.098	9(2D)4S239	0.073	9(4D)4S237
224	-	162725.6	-	-	-0.970	9(4F)6G175	0.137	9(2D)4F205	0.086	9(2D)4F203	-0.082	9(4D)6G176
225	-	163026.2	-	-	0.707	10(2D4P329	0.402	10(4P4P326	0.389	10(2D4P327	0.196	10(2D4D318
226	-	164089.3	-	-	-0.887	9(4D)4P227	-0.238	9(4F)6D184	-0.220	9(2D)4S241	0.133	9(4D)4P228
227	-	164195.0	-	-	0.484	10(2P4D314	-0.345	10(2D4D318	-0.345	10(2D2D350	-0.285	10(2F4F301
228	-	164226.7	-	-	-0.690	9(2D)4S241	-0.388	9(2D)4S239	0.306	9(4D)4P227	0.278	9(2D)4P235
229	-	164381.7	-	-	0.480	10(2F4D314	0.469	10(2F2D340	0.426	10(2F2D341	0.274	10(2D2D350
230	-	164457.8	-	-	0.874	9(4D)4S237	-0.256	9(4F)6D184	-0.167	9(4D)2D244	0.162	9(2D)4S241
231	-	164486.6	-	-	0.659	9(4D)4F194	-0.584	9(4D)2D244	-0.220	9(4D)4S237	0.164	9(4P)4F196
232	-	164522.2	-	-	-0.542	9(4F)6D184	0.405	9(2D)4D222	-0.382	9(4D)4F194	-0.300	9(4D)4S237
233	-	164578.3	-	-	-0.615	9(4D)2D244	-0.537	9(4D)4F194	0.401	9(4F)6D184	0.140	9(4P)2D245
234	-	164710.1	-	-	0.510	9(4D)2P265	-0.434	9(4F)6D184	-0.335	9(2D)4D222	0.273	9(4F)4D211
235	-	164791.0	-	-	0.740	9(4D)2P265	-0.272	9(2D)4F205	0.268	9(4F)6D184	-0.265	9(2F)4F201
236	-	165091.2	-	-	-0.492	9(2D)4F205	-0.367	9(2D)4D222	0.365	9(4F)4D211	-0.307	9(2F)4F201
237	-	165100.7	-	-	0.562	10(2P2D340	-0.494	10(2D2D350	0.284	10(4F4F293	-0.252	10(2D2D344
238	-	165312.0	-	-	0.451	9(2F)4D218	-0.443	9(2D)4P235	-0.324	9(4F)6D184	-0.309	9(2D)4D222
239	-	165537.5	-	-	0.853	8(2D)2D168	0.478	8(2D)2D164	0.137	8(2F)4F151	-0.108	8(4F)4F149
240	-	165740.9	-	-	0.702	9(4F)4D211	0.386	9(4D)4D212	-0.293	9(2D)4P235	0.271	9(2D)4D222
241	-	166054.2	-	-	0.683	9(2F)4D218	-0.289	9(2D)2P276	0.285	9(2F)4P231	0.268	9(4F)4D211
242	-	166066.3	-	-	0.773	7(1G)2D130	0.593	7(1G)2D131	0.161	7(3F)2D125	0.107	7(3P)2D128
243	-	166160.1	-	-	0.773	9(4D)4D212	-0.282	9(4F)4D211	0.260	9(4G)4D208	0.199	9(2F)4F201
244	-	166536.5	-	-	-0.655	9(2F)4F201	-0.358	9(4F)4F193	0.342	9(2D)4F205	0.229	9(2D)2D259
245	-	166633.8	-	-	-0.763	10(4F4F293	-0.290	10(4F4F294	-0.265	10(2G4F300	0.225	10(2D2D351
246	-	167171.5	-	-	-0.637	9(2D)2P276	0.385	9(4F)4P226	-0.361	9(2D)2P272	-0.277	9(2F)4D218
247	-	167387.6	-	-	-0.752	10(2D2D351	-0.421	10(2D2D345	-0.241	10(2D2D350	-0.231	10(4F4F293
248	-	167397.3	-	-	0.711	9(4F)4P226	0.283	9(2D)4P235	-0.258	9(2F)2P268	-0.242	9(2F)4P231
249	-	167563.4	-	-	-0.747	9(4F)4F193	0.420	9(2H)4F198	0.287	9(2F)4F201	-0.201	9(2D)4F205
250	-	167841.8	-	-	-0.859	10(4P4D307	-0.243	10(4D4D311	-0.226	10(2F4D315	-0.161	10(4D4D309
251	-	167915.4	-	-	0.675	10(2D2P365	0.372	10(2D2P361	0.335	10(2D2P364	-0.216	10(2F2P358
252	-	168217.6	-	-	-0.867	6(1D)2P 96	-0.494	6(1D)2P 95	-0.059	6(1D)2D 85	-0.033	6(1D)2D 85
253	-	168245.1	-	-	-0.635	9(2D)2D259	0.412	9(2F)2D251	-0.358	9(2D)2D255	-0.270	9(4F)4F193
254	-	168491.3	-	-	-0.964	8(2F)4F152	0.253	8(4F)4F149	-0.043	8(4F)4F150	-0.034	8(2F)4F151
255	-	168516.2	-	-	0.869	6(1D)2D 86	0.478	6(1D)2D 85	0.087	6(3F)2D 77	-0.059	6(1D)2P 96
256	-	168568.6	-	-	0.819	9(2F)2P268	0.343	9(2F)2P267	0.296	9(2D)2P276	0.155	9(2D)2P272
257	-	168594.1	-	-	-0.606	10(2G4F300	-0.495	10(4F4F294	0.348	10(4F4F293	0.300	10(4F2D335
258	-	169267.6	-	-	-0.717	10(4F4F294	0.547	10(2G4F300	-0.220	10(2F4F302	-0.163	10(2D2D351
259	-	169561.8	-	-	-0.779	10(2F2P358	-0.271	10(2P2P359	0.262	10(2D2P364	-0.249	10(2D2P365
260	-	169607.6	-	-	-0.798	9(2F)4P231	-0.410</					

273	-	173474.9	-	-	0.613	9(2D)2P275	-0.399	9(2F)2D250	0.343	9(2D)2P271	0.277	9(2F)2P267
274	-	173596.5	-	-	-0.550	10(2G2D339	-0.386	10(2D2D352	0.343	10(2F2D343	0.339	10(2F2D342
275	-	173800.1	-	-	-0.999	8(2S)4S162	-	-	-	-	-	-
276	-	174215.7	-	-	-0.769	9(2F)2D250	-0.295	9(2D)2P275	0.261	9(2F)2D251	-0.226	9(2F)2P267
277	-	174907.6	-	-	0.630	10(2D2D352	0.441	10(2F2D342	0.357	10(4F2D335	0.321	10(2D2D346
278	-	175072.7	-	-	-0.701	9(2G)2D249	0.396	9(2F)2D253	-0.276	9(2F)2D250	-0.263	9(4F)2D243
279	-	175203.1	-	-	-0.905	10(2S4F331	-0.338	10(2D4F328	0.127	10(4D4F323	0.108	10(4D4F322
280	-	175384.5	-	-	-0.895	9(2F)4F202	-0.303	9(2G)4F200	-0.186	9(2G)2D249	0.157	9(4F)2D243
281	-	175846.7	-	-	0.838	9(4F)2D243	-0.240	9(2G)2D249	0.213	9(2F)4D219	0.206	9(2F)2P267
282	-	175992.9	-	-	-0.643	9(2F)4D219	0.492	9(2F)2P267	-0.297	9(4F)2P264	-0.220	9(2F)2P268
283	-	176091.5	-	-	-0.695	10(2G2D339	-0.487	10(2F2D343	-0.244	10(2F2D342	-0.243	10(2F2D340
284	-	176140.7	-	-	-0.576	9(2F)4D219	-0.528	9(2F)4P232	0.325	9(4F)2D243	-0.310	9(2F)2P267
285	-	176293.6	-	-	-0.792	9(2F)4P232	0.304	9(2F)2P267	0.299	9(2F)4D219	-0.293	9(4F)2P264
286	-	176759.1	-	-	0.969	9(4F)4F192	-0.114	9(4F)4F193	0.110	9(2F)4D219	0.105	9(2F)4P202
287	-	176897.3	-	-	-0.952	9(4F)4P225	0.133	9(4F)4P226	-0.120	9(2D)2P275	0.111	9(2F)2P267
288	-	177195.9	-	-	-0.936	10(4F4F295	-0.161	10(4G4F292	0.159	10(2F4F302	0.157	10(4D4F297
289	-	177503.1	-	-	-0.903	9(2F)2P270	-0.377	9(2F)2P269	-0.108	9(4F)2D243	0.090	9(2F)2P268
290	-	178146.3	-	-	0.633	9(4F)2P264	-0.532	9(2F)2D253	0.342	9(2F)2P267	-0.228	9(2F)2D252
291	-	178346.0	-	-	-0.774	10(2F2P359	0.384	10(2S2P369	0.317	10(2F2P362	0.239	10(2F2P358
292	-	178449.2	-	-	-0.581	9(2F)2D253	-0.493	9(4F)2P264	-0.400	9(2G)2D249	0.297	9(2G)2D248
293	-	178792.5	-	-	-0.949	9(4F)4D210	0.165	9(4F)4D211	-0.142	9(2G)2D248	-0.085	9(2F)2D253
294	-	178867.8	-	-	-0.878	5(1D)2D 46	-0.478	5(1D)2D 45	-	-	-	-
295	-	179381.5	-	-	-0.763	10(2S2P369	-0.431	10(2F2P359	-0.246	10(2D2P362	-0.229	10(2S2D355
296	-	179610.5	-	-	-0.856	9(2G)2D248	-0.232	9(4F)2P264	-0.231	9(2F)2D252	-0.209	9(2F)2D253
297	-	180397.0	-	-	-0.999	8(2D)4D156	-	-	-	-	-	-
298	-	180479.9	-	-	0.687	10(2S2D355	0.415	10(2F2D342	-0.369	10(2F2D343	-0.313	10(2D2D348
299	-	180596.4	-	-	-0.971	9(2S)4D224	0.189	9(2F)4D219	-0.088	9(2G)4D217	-0.052	9(4D)4D213
300	-	180624.8	-	-	-0.539	10(2F2D342	0.515	10(2S2D355	0.508	10(2F2D343	-0.227	10(2S2P369
301	-	182320.4	-	-	-0.993	8(2D)2D167	-0.115	8(2D)2D166	-	-	-	-
302	-	182488.1	-	-	0.950	10(2D4F304	0.199	10(2G4F300	-0.136	10(2D4D317	0.130	10(2G4F299
303	-	183633.6	-	-	0.940	10(2D4D317	0.190	10(2F4D315	-0.139	10(2D4F328	0.138	10(2D4F304
304	-	183813.5	-	-	0.847	9(2F)2D252	-0.283	9(2F)2D253	-0.268	9(2S)2D263	0.242	9(2F)2P269
305	-	184029.9	-	-	-0.857	9(2F)2P269	0.343	9(2F)2P270	0.212	9(2F)2D252	-0.160	9(2S)2D263
306	-	184239.6	-	-	0.841	9(2S)2D263	0.331	9(2S)2D262	-0.232	9(2F)2D253	-0.197	9(2G)2D248
307	-	184685.7	-	-	0.904	10(2D4F328	-0.354	10(2S4F331	0.154	10(2D4D317	-0.096	10(4F4P321
308	-	185887.1	-	-	0.948	10(2D2D347	-0.145	10(2G2D338	0.129	10(2D2D348	0.100	10(2F2D343
309	-	186510.4	-	-	0.994	9(2D)4S240	0.083	9(2F)2P269	0.046	9(2D)4S241	-0.035	9(2F)2P232
310	-	186948.6	-	-	0.996	9(2D)4F204	0.053	9(2H)4F198	0.036	9(2F)4F202	0.033	9(4F)4F193
311	-	187251.1	-	-	-0.987	9(2D)4D221	0.082	9(2G)4D216	-0.072	9(2S)4D224	0.058	9(2G)4D217
312	-	187277.8	-	-	-0.992	8(2D)2D166	0.115	8(2D)2D167	-	-	-	-
313	-	188024.2	-	-	0.986	9(2D)4P234	0.084	9(4F)4P226	-0.065	9(2F)4P232	-0.053	9(2F)2P269
314	-	188216.9	-	-	0.862	7(1D)2P144	0.489	7(1D)2P143	0.115	7(1D)2D134	0.064	7(1D)2D133
315	-	188295.8	-	-	0.865	7(1D)2D134	0.481	7(1D)2D133	-0.115	7(1D)2P144	-0.065	7(1D)2P143
316	-	188393.5	-	-	0.920	9(2S)2D262	-0.302	9(2S)2D263	-0.172	9(2F)2D252	0.065	9(2F)2D253
317	-	188772.1	-	-	-0.793	10(2D2P362	-0.470	10(2D2P363	0.325	10(2S2P369	0.084	10(2F2P358
318	-	189113.3	-	-	-0.917	9(2D)2P274	-0.382	9(2D)2P273	-0.058	9(2F)2D252	0.054	9(2F)2P270
319	-	190422.0	-	-	-0.851	10(2D2P363	0.403	10(2D2P362	0.202	10(2F2P359	-0.173	10(2S2P369
320	-	190453.5	-	-	-0.862	6(1S)2D 87	-0.504	6(1S)2D 88	0.031	6(1D)2D 86	-	-
321	-	191073.3	-	-	-0.931	9(2D)2D257	-0.284	9(2D)2D256	-0.156	9(2G)2D247	-0.091	9(2G)2D246
322	-	191542.1	-	-	-0.754	10(2G4F299	-0.533	10(2D2D348	-0.199	10(2S2D355	0.150	10(2D4F303
323	-	191613.5	-	-	-0.688	10(2D2D348	0.593	10(2G4F299	-0.265	10(2S2D355	0.127	10(2D2D349
324	-	195038.7	-	-	0.934	9(2D)2D256	-0.299	9(2D)2D257	0.125	9(2G)2D247	-0.071	9(2G)4D216
325	-	195105.4	-	-	-0.991	9(2G)4D216	-0.083	9(2D)4D221	-0.063	9(2D)2D256	-0.031	9(2P)4D223
326	-	195830.0	-	-	0.912	9(2D)2P273	-0.371	9(2D)2P274	0.102	9(4F)2P264	-0.079	9(2F)2P269
327	-	196360.1	-	-	0.992	9(2G)4F199	0.076	9(4F)4F193	-0.058	9(2F)4P206	-0.049	9(2F)4P202
328	-	197457.5	-	-	0.879	10(2D2D349	0.343	10(2G2D338	0.210	10(2S2D355	0.124	10(2D2D348
329	-	198831.9	-	-	0.863	10(2G2D338	-0.298	10(2D2D349	0.209	10(2D2D346	0.198	10(2G2D339
330	-	199540.5	-	-	0.930	9(2G)2D247	0.243	9(2G)2D246	-0.157	9(2D)2D256	-0.133	9(2P)2D261
331	-	202942.6	-	-	0.958	9(2G)2D246	-0.261	9(2G)2D247	-0.064	9(2P)2D261	-0.062	9(2D)2D257
332	-	203745.4	-	-	-0.688	10(2P2P366	-0.381	10(2P2P367	-0.356	10(2D2P360	0.261	10(2D2P361
333	-	204231.9	-	-	0.999	8(2F)4P160	0.034	8(2D)4D155	-	-	-	-
334	-	205001.8	-	-	-0.706	10(2P4P330	0.513	10(2P4D319	-0.309	10(2D4P327	0.198	10(2P2P366
335	-	205336.8	-	-	-0.646	10(2P4S334	0.624	10(2P4D319	0.300	10(2P4P330	-0.209	10(2D4D316
336	-	205508.2	-	-	-0.712	10(2P4S334	-0.448	10(2P4D319	-0.420	10(2P4P330	-0.222	10(2D4P327
337	-	206135.3	-	-	-0.992	8(2P)2P172	-0.117	8(2P)2P171	-0.032	8(2D)2D165	-0.030	8(2D)4D155
338	-	209056.4	-	-	-0.682	10(2P2D353	0.636	10(2P2D354	-0.179	10(2D2D346	-0.160	10(2D2D345
339	-	210293.5	-	-	0.988	9(2P)4D223	-0.128	9(2D)4D220	0.068	9(2D)4D222	-0.032	9(2P)4P236
340	-	210583.3	-	-	-0.863	7(1S)2D135	-0.504	7(1S)2D136	-	-	-	-
341	-	210854.8	-	-	0.997	9(2P)4F206	0.057	9(2G)4F199	-	-	-	-
342	-	210948.6	-	-	0.884	8(2P)2P171	0.381	8(2D)4D155	-0.215	8(2D)4D157	-0.116	8(2P)2P172
343	-	211323.4	-	-	0.547	10(2P2P367	-0.433	10(2P2P366	-0.419	10(2D2P361	-0.312	10(2P2P366
344	-	211409.9	-	-	-0.991	9(2P)4P236	0.078	9(2D)4P233	-0.043	9(2D)4P234	-0.039	9(2D)4P235
345	-	211591.4	-	-	-0.783	8(2D)4D155	0.438	8(2D)4D157	0.434	8(2P)2P171	-0.062	8(2D)2D165
346	-	211761.6	-	-	0.634	10(2P2D353	0.569	10(2P2D354	0.239	10(2P2P367	-0.234	10(2D2D345
347	-	212749.6	-	-	0.910	9(2P)2P278	0.367	9(2P)2P277	-0.142	9(2D)2P272	-0.073	9(2D)2P271
348	-	213419.9	-	-	-0.857	8(2D)2D165	0.480	8(2D)2D169	-0.128	8(2P)2P171	-0.106	8(2D)2D164
349	-	214062.1	-	-	-0.798	10(2D4F305	0.452	10(2D4F306	0.258	10(2D4D316	-0.187	10(2G4F299
350	-	214396.2	-	-	0.763	10(2D4D316	-0.435	10(2D4D318	0.312	10(2P4D319	0.273	10(2D4F303
351	-	215514.4	-	-	0.961	9(2P)2D261	0.172	9(2P)2D260	0.108	9(2G)2D247	0.087	9(2G)2D246
352	-	215649.4	-	-	0.579	10(2P2P367	0.575	10(2P2P368	-0.354	10(2D2P360	0.295	10(2D2P361
353	-	217203.3	-	-	-0.868	9(2D)4S239	0.487	9(2D)4S241	0.051	9(2P)2P278	-0.045	9(2P)2P277
354	-	217744.4	-	-	-0.799	9(2D)4D220	0.451	9(2D)4D222	-0.326	9(2P)2D260	-0.132	9(2P)4D223
355	-	217779.1	-	-	0.762	10(2D4P327	-0.444	10(2D4P329	-0.441	10(2P4P330	-0.090	10(2P2P367
356	-	218114.6	-	-	0.812	9(2P)2D260	0.328	9(2D)4F203	-0.308	9(2D)4D220	-0.183	9(2D)4F205
357	-	218328.2	-	-	-0.866	8(2D)2D164	0.485	8(2D)2D168	0.105	8(2D)2D165	-0.059	8(2D)2D169
358	-	218785.3	-	-	0.798	9(2D)4F203	-0.443	9(2D)4F205	-0.374	9(2P)2D260	-0.092	9(2D)2D255
359	-	218864.0	-	-	0.775	9(2D)4P233	-0.435	9(2D)4P235	0.397	9(2P)2P277	-0.197	9(2P)2P278
360	-	219133.2	-	-	0.775	10(2D2D344	-0.431	10(2D2D350	-0.305	10(2D2D345	0.186	10(2D2D351
361	-	219269.5	-	-	0.779	9(2P)2P277	-0.384	9(2D)4P233	-0.338	9(2P)2P278	0.214	9(2D)4P235
362	-	220323.9	-	-	-							

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS	
1	667.683	689.9	22.2 D6S (5D)6D	-0.999 2(5D)6D	6
2	2837.950	2751.0	-87.0 D7 (5D)4F	0.999 1(4F)4F	1
3	8391.938	8393.5	1.5 D6S (5D)4D	0.999 2(5D)4D	10
4	13474.411	13508.7	34.2 D7 (5D)4P	-0.991 1(4P)4P	2
5	20516.960	20354.8	-162.2 D7 (5D)2D	0.877 1(2D)2D	5
6	20830.582	21074.5	243.9 D6S (3P)4P	0.770 2(3P)4P	13
7	22939.358	23015.2	75.9 D6S (3F)4F	-0.881 2(3F)4F	9
8	23317.633	23153.2	-164.5 D5S2(7S)6S	-1.000 3(6S)6S	20
9	26055.423	25875.6	-179.9 D6S (3G)4G	0.976 2(3G)4G	7
10	27620.412	27703.3	82.9 D6S (3F)2F	0.860 2(3F)2F	15
11	31387.948	31060.4	-327.5 D6S (3D)4D	0.996 2(3D)4D	11
12	31811.822	31696.3	-115.5 D7 (5D)2F	0.978 1(2F)2F	3
13	36252.918	35863.3	-389.6 D6S (3D)2D	0.993 2(3D)2D	17
14	38164.194	38895.9	731.7 D6S (1D)2D	0.871 2(1D)2D	18
15	44929.550	44857.3	-72.2 D6S (1F)2F	0.992 2(1F)2F	16
16	48039.090	47929.7	-109.4 D7 (5D)2D	-0.872 1(2D)2D	4
17	50142.786	50103.8	-39.0 D6S (3F)4F	-0.886 2(3F)4F	8
18	50212.826	50494.5	281.7 D6S (3P)4P	-0.778 2(3P)4P	12
19	54275.637	54277.8	2.2 D5S2(7S)4G	0.998 3(4G)4G	21
20	54870.528	54802.9	-67.6 D6S (3F)2F	0.889 2(3F)2F	14
21	57411.065	57454.3	43.2 D5S2(7S)4P	0.967 3(4P)4P	24
22	60445.275	60524.6	79.4 D5S2(7S)4D	-0.970 3(4D)4D	23
23	-	71367.4	-	0.742 3(2D)2D	29
24	73395.930	73312.3	-83.6 D5S2(7S)4F	0.947 3(4F)4F	22
25	-	74017.9	-	-0.804 3(2F)2F	25
26	-	76693.7	-	-0.882 2(1D)2D	19
27	78525.407	78526.1	0.7 5S (5D)6D	0.995 4(5D)6D	30
28	79885.493	79881.2	-4.3 5S (5D)4D	-0.995 4(5D)4D	34
29	81639.260	81702.4	63.1 D5S2(7S)2F	0.995 3(2F)2F	26
30	83308.194	83336.1	28.0 4D (5D)6F	-0.910 6(5D)6F	59
31	83812.316	83857.3	44.9 4D (5D)6D	0.759 6(5D)6D	60
32	84326.912	84406.3	79.4 4D (5D)6P	0.806 6(5D)6P	61
33	84844.834	84745.8	-99.0 4D (5D)6G	0.989 6(5D)6G	58
34	84870.863	84857.5	-13.3 4D (5D)4D	-0.973 6(5D)4D	77
35	85679.698	85679.3	-0.4 4D (5D)4G	-0.985 6(5D)4G	63
36	85495.304	85777.0	281.7 4D (5D)6S	0.970 6(5D)6S	62
37	86599.738	86608.9	9.2 4D (5D)4F	-0.964 6(5D)4F	69
38	87985.628	87977.2	-8.5 4D (5D)4P	-0.986 6(5D)4P	84
39	-	93860.5	-	0.997 3(2D)2D	28
40	-	97609.1	-	-0.771 4(3P)4P	37
41	99824.045	99823.4	-0.7 5S (3F)4F	0.873 4(3F)4F	33
42	100749.810	100758.6	8.8 5S (3F)2F	-0.872 4(3F)2F	39
43	102334.112	102332.4	-1.7 6S (5D)6D	0.966 5(5D)6D	44
44	-	102770.0	-	-0.568 6(3P)4D	83
45	102802.312	102820.4	18.1 6S (5D)4D	-0.967 5(5D)4D	48
46	-	103130.6	-	0.984 4(3G)4G	31
47	-	103397.3	-	-0.394 6(3P)4F	76
48	-	104082.4	-	0.445 6(3P)2F	96
49	-	104140.0	-	0.777 6(3H)4G	64
50	104120.270	104172.0	51.7 5D (5D)6P	-0.793 7(5D)6P116	6
51	-	104220.2	-	0.424 6(3H)4G	64
52	104426.460	104477.2	50.8 5D (5D)6F	-0.614 7(5D)6P118	6
53	-	104515.9	-	0.662 6(3H)2F	90
54	104828.160	104849.5	21.4 5D (5D)6D	-0.617 7(5D)6P118	-0.598 7(5D)6D117
55	105127.770	104999.4	-128.4 5D (5D)4D	-0.906 7(5D)4D134	0.237 7(5D)6P118
56	-	105035.8	-	0.427 6(3F)4F	73
57	-	105102.7	-	-0.374 6(3F)4F	73
58	105205.790	105119.2	-86.6 5D (5D)6G	0.975 7(5D)6G115	0.158 7(5D)6P116
59	-	105301.8	-	0.819 6(3F)4D	80
60	105414.180	105419.6	5.4 4D (3F)4G	0.796 6(3F)4G	67
61	105711.730	105623.4	-88.3 5D (5D)6S	0.917 7(5D)6S119	0.344 7(5D)6P118
62	105630.750	105625.6	-5.1 5D (5D)4G	-0.959 7(5D)4G120	0.166 7(5D)4P126
63	-	106139.4	-	0.999 8(6S)6S177	0.041 8(6S)6S176
64	-	106177.4	-	-0.791 6(3F)4P	86
65	-	106201.1	-	0.757 6(3F)2F	93
66	-	106250.0	-	-0.963 7(5D)4F126	-0.181 7(5D)4G120
67	-	106524.5	-	0.998 10(6S6P)332	0.033 10(6S6S)346
68	-	106689.8	-	-0.561 6(3F)4F	73
69	-	106860.0	-	-0.985 7(5D)4P141	-0.144 7(5D)4D134
70	-	107564.7	-	0.768 6(3F)2D104	-0.384 6(3P)2D103
71	-	108749.9	-	0.994 4(3D)4D	35
72	-	109314.1	-	0.974 6(3G)4G	65
73	-	109430.1	-	0.967 6(3G)4D	78
74	109455.250	109477.3	22.0 4S2(7S)8D	1.000 9(6S)8D206	
75	-	109738.2	-	-0.996 4(3D)2D	41
76	-	110674.5	-	0.896 6(3G)2D102	-0.288 6(3G)2F
77	-	111374.4	-	-0.819 6(3G)2F	91
78	-	111754.6	-	-0.886 6(3G)4F	71
79	-	113796.8	-	-0.725 6(1G)2F	98
80	-	113930.5	-	0.991 9(6S)6D217	0.101 9(6S)6D218
81	-	114788.8	-	-0.706 6(1G)2D109	0.542 6(1G)2D108
82	-	115039.7	-	-0.874 4(1D)2D	42
83	-	115580.0	-	-0.982 10(6S6P)343	-0.131 10(6S6D)339
84	-	116177.4	-	0.990 6(3D)4G	68
85	-	116334.7	-	0.981 6(3D)4D	81
86	-	116577.5	-	-0.976 6(3D)4F	74
87	-	116953.5	-	-0.738 6(1S)2D114	-0.502 6(3D)2D105
88	-	117857.9	-	0.821 6(3D)2F	94
89	-	117902.1	-	-0.982 10(6S6D)339	0.124 10(6S6P)343
90	-	117906.0	-	0.856 6(3D)4P	87
91	-	119749.9	-	-0.763 6(3D)2D105	0.397 6(1S)2D114
92	-	121278.9	-	-0.771 5(3P)4P	51
93	-	121325.8	-	-0.972 10(6S4P)388	0.131 10(4D4P)391
94	-	121570.1	-	0.996 4(1F)2F	40
95	-	122194.3	-	0.804 6(1D)2D111	-0.449 6(1D)2D112
96	-	122285.7	-	0.817 6(1D)2F100	-0.458 6(1D)2F101

197	-	150832.4	-	-	-0.507	10(4P2D423	0.400	10(4G2F400	-0.389	10(4D4F364	-0.343	10(4G4F359
198	-	151011.0	-	-	0.914	9(4P)4F248	-0.211	9(4G)4F242	-0.204	9(4D)6G211	-0.143	9(4D)6F214
199	-	151333.3	-	-	0.591	10(4P2D423	-0.424	10(4G4F359	0.402	10(4G4F360	0.293	10(4D2D422
200	-	151387.6	-	-	-0.940	9(4P)4E281	-0.139	9(2F)4E282	-0.129	9(4F)4P280	-0.123	9(4D)4P279
201	-	151635.0	-	-	-0.649	10(4P4D381	-0.376	10(4G2F400	-0.330	10(4D4D378	0.280	10(4P4D380
202	-	151715.6	-	-	0.643	10(4G2F400	-0.399	10(4P4D381	0.246	10(4D4F364	0.241	10(4G4F359
203	-	151952.1	-	-	-0.628	10(4D4P390	0.450	10(4D4P391	0.372	10(4P4P393	0.276	10(4P4P392
204	-	151969.6	-	-	-0.910	9(4D)6D220	-0.303	9(4G)6D218	-0.205	9(4F)6D221	0.109	9(4P)4P281
205	-	152257.9	-	-	0.876	5(3F)4F46	0.462	5(3F)4F47	-0.109	5(3F)2F52	0.056	5(1F)2F54
206	-	152620.5	-	-	-0.876	5(3F)2F52	-0.462	5(3F)2F53	-0.103	5(3F)4F46	-0.061	5(1F)2F54
207	-	152723.0	-	-	-0.608	10(4D4F364	-0.484	10(4G4F360	-0.317	10(4D4F365	0.242	10(4D4G353
208	-	152854.3	-	-	-0.771	5(3P)4F50	-0.635	5(3P)4F51				
209	-	152931.5	-	-	-0.732	10(4D4G353	0.389	10(4G4G350	0.289	10(4F4G352	0.206	10(4P4F366
210	-	153652.5	-	-	-0.971	8(4P)4F191	-0.176	8(4D)4D186	0.078	8(2D)4D190	0.077	8(4D)2D199
211	-	153660.2	-	-	0.862	10(4D4D377	-0.307	10(4P4D380	0.183	10(4D4P390	-0.180	10(4F4D375
212	-	153757.4	-	-	-0.956	9(4D)4F246	-0.164	9(4G)4F242	-0.148	9(4D)4F245	0.115	9(4D)4D264
213	-	153917.0	-	-	-0.953	9(4D)4G231	-0.148	9(4D)4G230	-0.146	9(2I)4G232	0.132	9(4D)4G227
214	-	154160.6	-	-	0.604	10(4D4P390	-0.447	10(4P4P394	0.404	10(4P4P392	0.398	10(4D4P391
215	-	154630.1	-	-	-0.910	9(4D)4D264	0.256	9(4P)4D266	0.182	9(4G)4D260	-0.133	9(4D)4D263
216	-	154776.4	-	-	-0.950	9(4D)4P279	-0.144	9(4F)4P277	0.140	9(4P)4P281	-0.132	9(4D)4P278
217	-	155400.9	-	-	0.878	4(1D)2D43	0.478	4(1D)2D42				
218	-	155428.0	-	-	-0.451	10(4D4F365	0.382	10(4D4D378	-0.372	10(4D2F402	-0.297	10(4G4G350
219	-	155619.6	-	-	-0.492	10(4G4G350	-0.435	10(4P4P393	-0.348	10(4D4D378	-0.310	10(4D4G353
220	-	155660.7	-	-	0.645	10(4D2F402	-0.424	10(4G4G350	0.325	10(4G2F400	0.308	10(4P4P393
221	-	155871.4	-	-	-0.475	10(4D4F365	0.409	10(4D2F402	0.337	10(4G4G350	-0.300	10(4P4F366
222	-	155922.8	-	-	0.560	10(4D4D378	-0.355	10(4P4P393	0.353	10(4D4F365	-0.239	10(4P4D381
223	-	156339.2	-	-	-0.952	8(4F)6F173	-0.233	8(4D)4D186	0.139	8(2D)4D190	0.086	8(2D)4D188
224	-	156713.3	-	-	0.787	10(4D2D422	-0.398	10(4P2D423	-0.200	10(2G2D425	-0.177	10(2D2D437
225	-	157076.2	-	-	-0.941	8(4D)4D186	0.235	8(4F)6F173	-0.152	8(4D)2D199	0.144	8(4P)4P191
226	-	157123.3	-	-	-0.974	9(4G)2D310	-0.191	9(4D)2D312	-0.081	9(4F)2D311	-0.033	9(4G)2F288
227	-	157376.5	-	-	0.973	8(4D)2D199	-0.137	8(4D)4D186	0.122	8(4F)4F183	0.100	8(4P)4P191
228	-	157887.1	-	-	-0.700	7(3F)4D136	-0.391	7(3F)4D137	-0.314	7(3P)4D139	-0.270	7(3P)4D140
229	-	158062.2	-	-	0.855	9(4G)4F241	0.411	9(4G)4G226	0.253	9(4G)2F288	-0.125	9(4G)4F242
230	-	158075.5	-	-	-0.684	9(4G)4G226	-0.497	9(4G)2F288	0.487	9(4G)4F241	0.108	9(4G)4G227
231	-	158170.3	-	-	0.560	7(3P)4F132	0.478	7(3P)4F133	0.455	7(3F)4F129	-0.366	7(3F)4D136
232	-	158189.6	-	-	0.767	9(4G)2F288	-0.576	9(4G)4G226	0.199	9(4P)2F291	-0.144	9(4D)2F290
233	-	158271.6	-	-	0.742	8(2D)4D190	-0.435	8(2F)4F184	0.416	8(2D)4D188	0.196	8(4F)4F183
234	-	158302.1	-	-	0.642	7(3F)4P142	-0.461	7(3P)4P145	-0.388	7(3P)4P146	0.359	7(3F)4P143
235	-	158557.3	-	-	0.963	10(4F6G335	-0.145	10(2D4F373	-0.106	10(4P6F337	-0.095	10(4G6G334
236	-	158678.9	-	-	-0.869	7(3F)4G123	-0.490	7(3F)4G124	0.033	7(3P)4F132		
237	-	158847.8	-	-	-0.934	8(4F)4F183	0.205	8(2D)2D205	-0.175	8(2F)4F184	0.128	8(4D)2D199
238	-	158990.0	-	-	0.817	7(3F)2F149	0.471	7(3P)2F150	0.195	7(3P)2F152	0.163	7(3P)2F153
239	-	159113.6	-	-	0.490	7(3F)4P129	-0.398	7(3P)4D139	-0.348	7(3P)4D140	-0.289	7(3P)4P142
240	-	159299.8	-	-	0.552	10(2D4D386	0.523	10(2F4D382	0.335	10(2D4D384	-0.209	10(4P4D380
241	-	159376.5	-	-	-0.505	7(3F)4P129	0.354	7(3P)4F132	0.300	7(3P)4F133	0.285	7(3P)2D163
242	-	159428.2	-	-	0.544	7(3P)2F152	0.469	7(3P)2F153	0.324	7(3P)4D139	0.285	7(3P)4D140
243	-	159461.9	-	-	0.852	9(4G)4D259	-0.335	9(4P)4D265	-0.247	9(4P)2D313	-0.238	9(4D)4D263
244	-	159722.4	-	-	-0.571	10(2F4G357	0.407	10(2D2F418	-0.303	10(2F2F408	0.268	10(2D4F373
245	-	159828.8	-	-	-0.696	8(2F)4F184	0.426	8(2D)2D205	-0.358	8(2D)4D190	0.239	8(2D)2D201
246	-	159846.7	-	-	0.431	7(3P)4P145	-0.390	7(3P)4D139	0.363	7(3P)4P146	-0.343	7(3P)4D140
247	-	159853.4	-	-	-0.900	9(4P)2D313	-0.288	9(4D)2D312	-0.242	9(4G)4D259	-0.097	9(4D)2F290
248	-	159993.0	-	-	-0.483	7(3F)2D160	0.392	7(3P)2D163	0.342	7(3P)2D164	-0.316	7(3P)2F152
249	-	160471.3	-	-	-0.628	8(2D)2D205	-0.517	8(2F)4F184	0.378	8(2F)2F196	-0.352	8(2D)2D201
250	-	160590.6	-	-	0.709	10(4F6F337	-0.444	10(2D4F373	-0.248	10(2D4F371	0.226	10(2D2F418
251	-	160617.7	-	-	-0.642	7(3F)2D160	-0.465	7(3P)2D163	-0.389	7(3P)2D164	-0.337	7(3P)2D161
252	-	160704.3	-	-	0.909	9(4P)4P280	0.278	9(4D)4P278	0.159	9(4P)4F247	-0.154	9(4P)4D265
253	-	160766.4	-	-	-0.887	9(4P)4F247	-0.265	9(4P)2F291	0.189	9(4D)4F245	0.178	9(4P)4P280
254	-	160825.0	-	-	0.585	10(4F6F337	0.456	10(2D4F373	0.250	10(2D4F371	0.227	10(4D4D379
255	-	161044.0	-	-	0.696	10(4F6D340	0.309	10(4D4D379	0.235	10(4D4F391	0.218	10(2F4G357
256	-	161044.7	-	-	-0.909	9(4P)2F291	0.277	9(4P)4F247	0.214	9(4G)2F288	-0.101	9(4D)4F245
257	-	161160.6	-	-	0.611	10(4F6D340	-0.414	10(4D4D379	-0.326	10(2F4G357	-0.212	10(4P4P394
258	-	161376.5	-	-	-0.498	10(2F4G357	-0.389	10(2D4F373	0.290	10(2F2F408	0.269	10(4P4P394
259	-	161725.3	-	-	0.487	10(4P4P394	-0.439	10(4D4D379	0.423	10(4D4P391	-0.346	10(2D4P397
260	-	161798.9	-	-	-0.871	8(2F)2F196	-0.338	8(2D)2D205	-0.186	8(2D)2D201	-0.178	8(2D)2D204
261	-	161828.1	-	-	0.864	9(4P)4D265	0.278	9(4G)4D259	-0.244	9(4D)4D263	0.180	9(4P)4P280
262	-	162447.8	-	-	-0.631	10(2F4P369	0.379	10(2D4P397	0.309	10(4P4P394	-0.213	10(2F4D382
263	-	162499.9	-	-	-0.920	9(4F)6F213	-0.271	9(4F)6H208	-0.155	9(2I)4G232	-0.121	9(4F)6G210
264	-	162508.2	-	-	-0.618	9(4F)6H208	-0.603	9(2I)4G232	0.340	9(4F)6F213	-0.200	9(4F)6G210
265	-	162592.7	-	-	-0.715	9(2I)4G232	0.653	9(4F)6H208	0.109	9(4F)4G229	-0.103	9(2F)4G236
266	-	162679.8	-	-	0.987	9(4F)6P222	-0.081	9(2D)4P284	-0.050	9(2D)4P284	0.050	9(4D)4P278
267	-	162757.9	-	-	0.946	9(4F)6G210	-0.200	9(4F)6H208	-0.128	9(2I)4G232	-0.109	9(2D)4F256
268	-	162785.3	-	-	-0.514	10(2D4P397	-0.502	10(2F4F369	-0.392	10(4P4P394	-0.284	10(2D4P395
269	-	163784.4	-	-	-0.459	10(2F4D382	0.349	10(2D4D386	0.328	10(2F4F369	0.328	10(2D2D436
270	-	163813.2	-	-	0.945	9(4D)2F290	0.152	9(4G)2F288	-0.136	9(4D)2D312	0.130	9(2F)4G236
271	-	164115.3	-	-	0.471	10(2F4D382	0.382	10(2D2D427	0.382	10(2F2D427	0.314	10(2F2D426
272	-	164118.4	-	-	0.926	9(4D)4G230	0.251	9(2D)4G240	0.142	9(2D)4G238	-0.142	9(4D)4G231
273	-	164269.0	-	-	0.890	9(4D)4P278	-0.240	9(4P)4P280	0.154	9(2D)4D273	-0.139	9(4D)4P279
274	-	164373.9	-	-	-0.398	9(2D)4G240	0.394	9(4F)6D219	-0.391	9(2D)4D273	-0.339	9(2F)4G236
275	-	164386.7	-	-	-0.624	10(2H4G354	0.372	10(2G4G356	-0.357	10(4P4G351	0.320	10(2F4G357
276	-	164446.3	-	-	0.501	9(4F)6D219	0.477	9(2D)4G240	-0.358	9(2D)4D273	0.349	9(2F)4G236
277	-	164461.0	-	-	0.607	10(2F2P408	0.414	10(2D2F418	0.363	10(2F2P409	0.207	10(2D2F414
278	-	164484.4	-	-	-0.917	9(4D)4F245	-0.206	9(4P)4F247	0.142	9(4D)4F246	0.142	9(4P)4D265
279	-	164722.1	-	-	0.684	9(4F)6D219	0.340	9(2D)4D273	-0.302	9(2F)4F252	-0.256	9(2D)4F256
280	-	164807.1	-	-	-0.862	9(4D)2D312	0.286	9(4P)2D313	-0.188	9(4F)6D219	0.172	9(4G)2D310
281	-	164861.3	-	-	0.739	10(4F4G351	0.544	10(2G4G356	-0.148	10(2F2D426	-0.139	10(2H4G354
282	-	165049.7	-	-	0.981	8(2G)4G181	0.148	8(2F)2F195	-0.069	8(2D)2D204	-0.062	8(2F)2F196
283	-	165067.9	-	-	-0.670	10(2F2D426	0.383	10(2D2D436	0.256	10(2F2D428	-0.221	10(2F2D427
284	-	165237.1	-	-	-0.506	9(4F)4D262	0.439	9(2F)4D269	-0.393	9(2D)4P286	0.323	9(2D)4F25

297	-	166861.7	-	-	-0.549	9(2F) 4G236	0.536	9(4F) 4G229	0.277	9(2D) 4G240	0.256	9(2H) 4G233
298	-	167127.1	-	-	-0.517	10(2D2D437	0.486	10(2F2F409	-0.314	10(2D2D436	-0.289	10(2D2D431
299	-	167214.3	-	-	-0.870	6(1D) 2F101	-0.489	6(1D) 2F100				
300	-	167234.8	-	-	-0.751	9(4F) 4P277	0.368	9(2F) 4P282	-0.271	9(2D) 4P286	-0.174	9(2D) 4P284
301	-	167563.5	-	-	-0.744	9(4F) 4F244	0.397	9(2H) 4F249	0.281	9(2F) 4F252	0.206	9(2D) 2F307
302	-	167603.8	-	-	-0.834	10(4F4D375	-0.267	10(2F4D383	-0.237	10(4D4D379	-0.160	10(4F4F361
303	-	167696.6	-	-	-0.637	9(2D) 2F307	-0.356	9(2D) 2F303	0.302	9(2D) 2D327	-0.293	9(2F) 4G236
304	-	167945.9	-	-	-0.547	9(2D) 2D327	0.367	9(2F) 2D319	0.358	9(2F) 2F299	-0.324	9(4F) 4F244
305	-	168260.7	-	-	0.490	10(4F2F401	0.417	10(2D2D437	0.415	10(2F2F409	-0.284	10(2D2F419
306	-	168518.3	-	-	-0.871	6(1D) 2D112	-0.479	6(1D) 2D111	-0.082	6(3F) 2D103	-0.036	6(3F) 2D104
307	-	168553.9	-	-	0.975	8(2F) 4F185	-0.161	8(4F) 4F182	-0.105	8(2F) 2F195	0.082	8(4F) 2F194
308	-	168563.5	-	-	0.575	10(2G4F368	0.567	10(4F4F362	-0.358	10(4F4F361	-0.219	10(4F2D421
309	-	168777.3	-	-	0.378	10(4F2F401	-0.345	10(2F4G358	-0.327	10(2G4F368	-0.288	10(4F4G351
310	-	168791.8	-	-	0.816	9(2F) 2F299	0.280	9(2D) 2F307	0.268	9(2F) 2F298	0.162	9(2D) 2D326
311	-	169047.9	-	-	-0.403	10(2F4G358	-0.394	10(4F4F362	0.374	10(2G4G356	-0.303	10(4F4G351
312	-	169195.8	-	-	-0.800	9(2F) 4P282	-0.504	9(4F) 4P277	0.197	9(2D) 4P286	-0.152	9(4F) 4P281
313	-	169324.3	-	-	0.544	10(2G4F368	0.401	10(4F2D421	-0.381	10(4F4F362	0.300	10(2F2D427
314	-	169579.2	-	-	0.369	10(2H2F403	-0.331	10(2G2F406	-0.316	10(4F2F401	0.301	10(2F2F409
315	-	169642.0	-	-	0.972	8(4F) 4F182	0.161	8(2F) 4F185	0.102	8(2F) 2F198	-0.066	8(2F) 2F197
316	-	169954.6	-	-	0.895	8(4F) 2F194	-0.415	8(2F) 2F198	-0.107	8(2F) 2F197	-0.087	8(2F) 4F185
317	-	169969.2	-	-	-0.697	10(4F4G352	-0.316	10(2G2F406	-0.216	10(4F4F362	0.198	10(4F2F401
318	-	170448.8	-	-	0.912	9(2H) 4G233	-0.286	9(2G) 4G235	0.136	9(2F) 4G236	-0.125	9(4F) 4G229
319	-	170524.6	-	-	0.563	10(4F4P389	0.403	10(4F4G352	-0.372	10(2G2F406	0.238	10(4F2F401
320	-	170599.7	-	-	-0.698	10(4F4P389	-0.269	10(2G2F406	-0.268	10(2F2D427	0.255	10(4F4G352
321	-	170637.4	-	-	-0.892	8(2F) 2F198	-0.420	8(4F) 2F194	0.107	8(4F) 4F182	-0.086	8(2F) 2F197
322	-	170784.4	-	-	-0.829	10(2F4D383	0.265	10(4F4D375	0.188	10(2D4D385	-0.178	10(4F2D421
323	-	171022.7	-	-	-0.782	9(2F) 2D319	-0.357	9(2D) 2D327	0.250	9(2G) 2D317	-0.202	9(2F) 2D318
324	-	171436.2	-	-	-0.926	9(2G) 4D268	-0.207	9(2H) 4F249	-0.157	9(2F) 4D270	0.127	9(2F) 2D319
325	-	171689.8	-	-	-0.488	10(4F2D421	0.480	10(2F2D427	-0.264	10(2F2D426	0.229	10(2F4D383
326	-	172199.5	-	-	-0.583	10(2F4G358	-0.547	10(2H4G354	-0.375	10(2G4G356	0.312	10(2F4F370
327	-	172326.5	-	-	0.738	9(2G) 4F251	0.448	9(2H) 2F293	-0.265	9(2F) 4F253	0.215	9(2G) 2F297
328	-	172364.8	-	-	-0.539	9(2H) 2F293	0.458	9(2G) 4F251	-0.345	9(2D) 2D326	-0.294	9(2G) 2F297
329	-	172462.9	-	-	-0.804	10(2F4F370	-0.248	10(2F4G358	0.216	10(4F4F362	-0.194	10(2H4G354
330	-	172561.9	-	-	0.568	9(2D) 2D326	-0.325	9(2H) 2F293	0.322	9(2D) 2D322	-0.290	9(2F) 2F298
331	-	172784.0	-	-	0.602	10(4F4D376	0.360	10(2G2F406	0.283	10(2F2F411	0.275	10(4D4D379
332	-	172805.0	-	-	0.720	9(2H) 4P249	-0.320	9(2G) 4G235	0.282	9(4F) 4F244	-0.227	9(2G) 4D268
333	-	172928.2	-	-	-0.521	10(4F4D376	0.452	10(2G2F406	0.275	10(2H2F403	0.239	10(2F2F411
334	-	173032.1	-	-	-0.650	9(2D) 2F306	-0.363	9(2D) 2F302	-0.343	9(2F) 2F298	-0.256	9(2D) 2D326
335	-	173206.9	-	-	-0.825	9(2G) 4G235	-0.318	9(2H) 4F249	0.181	9(4F) 4G229	-0.167	9(2H) 4G233
336	-	173420.1	-	-	0.553	10(2F2F411	-0.378	10(2G2F407	-0.370	10(2F2F410	-0.352	10(2H2F403
337	-	173842.1	-	-	-0.513	10(2G2D425	0.331	10(2F2F411	-0.329	10(2D2D438	0.329	10(2F2D429
338	-	174033.9	-	-	-0.840	9(2F) 2D318	-0.237	9(2D) 2D326	0.227	9(2F) 2D319	0.219	9(2F) 2F298
339	-	174113.3	-	-	-0.440	10(2F2F410	0.427	10(2F2D428	0.320	10(2D2D438	-0.291	10(2F2F412
340	-	174440.8	-	-	0.670	9(2F) 2F298	-0.311	9(2F) 4G237	-0.304	9(2F) 2F299	-0.274	9(2D) 2F306
341	-	174834.7	-	-	-0.908	9(2F) 4G237	-0.248	9(2F) 2F298	0.167	9(2H) 4G233	0.147	9(2G) 4G235
342	-	175110.0	-	-	-0.775	9(2G) 2D317	0.375	9(2F) 2D321	-0.239	9(2G) 2D316	0.192	9(2F) 2D320
343	-	175189.2	-	-	-0.558	10(2D2D438	-0.429	10(2F2F412	-0.405	10(2F2F410	-0.285	10(2D2D432
344	-	175238.4	-	-	0.533	9(4F) 2D311	-0.529	9(2G) 2F297	0.361	9(2H) 2F293	-0.352	9(2F) 2F301
345	-	175423.6	-	-	0.912	9(2F) 4F253	0.318	9(2G) 4F251	-0.129	9(4F) 2D311	-0.114	9(2F) 2F298
346	-	175463.6	-	-	-0.985	8(2F) 2F197	0.114	8(2F) 2F198	-0.074	8(4F) 4F182	-0.065	8(2F) 2F194
347	-	175588.7	-	-	-0.891	10(2S4P399	-0.358	10(2D4P396	0.125	10(4D4P391	0.114	10(4D4P390
348	-	175958.5	-	-	-0.635	9(4F) 2D311	-0.453	9(2F) 4D270	-0.346	9(2G) 2F297	-0.290	9(2F) 4E283
349	-	176148.4	-	-	-0.725	9(2F) 4P283	0.540	9(2F) 4D270	-0.300	9(4F) 4P276	0.123	9(4F) 4P277
350	-	176184.7	-	-	-0.594	9(2F) 4D270	-0.496	9(2F) 4P283	0.477	9(4F) 2D311	0.186	9(2G) 2F297
351	-	176204.6	-	-	-0.652	10(2G2D425	-0.542	10(2F2D429	-0.238	10(2F2D428	-0.220	10(2F2D426
352	-	176728.8	-	-	0.930	9(4F) 4G243	-0.184	9(4F) 4G228	-0.159	9(4F) 4P276	0.157	9(2F) 4D270
353	-	176878.4	-	-	0.894	9(4F) 4P276	-0.299	9(2F) 4P283	-0.173	9(2G) 2D316	0.151	9(2F) 4D270
354	-	177026.1	-	-	-0.949	9(4F) 4G228	-0.189	9(4F) 4F243	0.136	9(4F) 4G229	-0.115	9(2F) 4G237
355	-	177153.8	-	-	0.937	10(4F4F363	-0.162	10(2F4F370	0.160	10(4G4F360	-0.159	10(4D4F365
356	-	177235.9	-	-	0.773	9(4F) 2F289	-0.547	9(2H) 2F292	0.165	9(2G) 2F296	-0.105	9(2G) 2D317
357	-	177861.6	-	-	0.658	10(2G2F407	-0.534	10(2H2F403	-0.308	10(4F2F401	0.185	10(2F2F410
358	-	178307.4	-	-	-0.780	9(2F) 2D321	-0.418	9(2G) 2D317	-0.247	9(2F) 2D320	0.200	9(2G) 2D316
359	-	178710.9	-	-	-0.949	9(4F) 4D261	0.162	9(4F) 4D262	-0.135	9(2G) 2D316	-0.118	9(2F) 2D321
360	-	178867.8	-	-	0.878	5(1D) 2D 56	0.478	5(1D) 2D 56				
361	-	179554.9	-	-	0.856	9(2G) 2D316	0.237	9(2F) 2D320	0.206	9(2F) 2D321	0.194	9(2S) 2D331
362	-	179797.4	-	-	-0.601	9(2G) 2F296	-0.542	9(2F) 2F301	0.482	9(2G) 2F297	0.137	9(4F) 2F289
363	-	180157.1	-	-	-0.481	10(2S2D441	-0.458	10(2F2D428	0.371	10(2F2F412	0.354	10(2F2D429
364	-	180275.1	-	-	-0.483	10(2F2F412	0.463	10(2F2D429	-0.435	10(2F2D428	0.371	10(2F2F410
365	-	180417.4	-	-	-0.998	8(2D) 4D189	-0.038	8(2F) 2F197	0.035	8(2F) 4F185		
366	-	180603.3	-	-	0.969	9(2S) 4D275	-0.187	9(2F) 4D270	0.086	9(2G) 4D268	-0.052	9(2D) 4D272
367	-	180739.2	-	-	0.721	10(2S2D441	0.394	10(2F2F412	-0.262	10(2F2F410	-0.223	10(2D2D434
368	-	180951.0	-	-	0.621	9(2H) 2F292	0.444	9(4F) 2F289	-0.337	9(2H) 2F293	0.322	9(2G) 2F296
369	-	181710.6	-	-	-0.580	9(2F) 2F301	0.561	9(2G) 2F296	-0.355	9(2H) 2F292	-0.307	9(4F) 2F289
370	-	182357.1	-	-	0.990	8(2D) 2D203	0.122	8(2D) 2D202	0.057	8(2F) 2F197	-0.036	8(2F) 2F198
371	-	182630.5	-	-	-0.939	10(2D4F372	0.197	10(2D4D385	-0.192	10(2G4F368	-0.134	10(2G4F367
372	-	183266.6	-	-	-0.915	9(2F) 2F300	0.214	9(2F) 2F301	-0.207	9(2G) 2F296	0.195	9(2G) 2F297
373	-	183714.0	-	-	0.766	10(2F2F413	0.313	10(2D2F416	0.309	10(2D2F417	-0.246	10(2H2F403
374	-	183737.8	-	-	-0.892	10(2D4P385	0.207	10(2D4P396	-0.194	10(2D4F372	-0.183	10(2F2F413
375	-	183953.1	-	-	-0.855	9(2F) 2D320	0.347	9(2S) 2D331	0.279	9(2F) 2D321	-0.122	9(2G) 2D317
376	-	184221.4	-	-	0.830	9(2S) 2D331	0.332	9(2S) 2D330	-0.248	9(2F) 2D321	0.217	9(2F) 2D320
377	-	184549.8	-	-	0.867	10(2D4P396	-0.370	10(2S4P399	0.238	10(2D4D385	-0.119	10(2D2D433
378	-	185946.7	-	-	-0.823	10(2D2D433	0.391	10(2D2F416	0.197	10(2D2F417	0.136	10(2G2D424
379	-	186571.8	-	-	-0.725	10(2D2F416	-0.469	10(2D2D433	-0.267	10(2D2F417	0.197	10(2G2F404
380	-	186781.9	-	-	0.993	9(2D) 4G239	-0.058	9(2G) 4G234	0.051	9(2F) 4G237	0.048	9(2D) 4F255
381	-	186958.7	-	-	0.993	9(2D) 4E255	0.053	9(2H) 4F249	-0.047	9(2D) 4G239	-0.040	9(2F) 2F300
382	-	187264.3	-	-	-0.985	9(2D) 4D272	0.084	9(2G) 4D267	-0.073	9(2S) 4D275	0.056	9(2G) 4D268
383	-	187284.6	-	-	-0.992	8(2D) 2D20						

397	-	194828.0	-	-	-	0.992	9(2G)4G234	0.076	9(2D)2F304	0.058	9(2D)4G239	0.039	9(2D)4G238
398	-	195055.3	-	-	-	-0.921	9(2D)2D324	0.294	9(2D)2D325	0.180	9(2G)4D267	-0.131	9(2G)2D315
399	-	195084.6	-	-	-	-0.977	9(2G)4D267	-0.166	9(2D)2D324	-0.084	9(2D)4B272	0.061	9(2D)2D325
400	-	195656.3	-	-	-	-0.918	10(2G2F404)	0.177	10(2D2F414)	-0.166	10(2D2F414)	0.140	10(2F2F413)
401	-	196363.4	-	-	-	-0.992	9(2G)4F250	-0.077	9(4F)4F244	0.059	9(2F)4F257	0.046	9(2F)4F253
402	-	196912.6	-	-	-	0.920	9(2G)2F295	0.386	9(2G)2F294	0.040	9(2D)2F303	-	-
403	-	197495.0	-	-	-	0.859	10(2D2D435)	0.352	10(2G2D424)	0.207	10(2S2D441)	0.135	10(2D2D434)
404	-	198264.5	-	-	-	-0.885	10(2G2F405)	0.325	10(2G2D424)	-0.165	10(2D2F416)	-0.155	10(2D2F415)
405	-	198649.8	-	-	-	0.793	10(2G2D424)	-0.348	10(2D2D435)	0.298	10(2G2F405)	0.181	10(2D2D432)
406	-	199530.2	-	-	-	0.931	9(2G)2D315	0.236	9(2G)2D314	-0.161	9(2D)2D324	-0.132	9(2F)2D329
407	-	202915.3	-	-	-	-0.959	9(2G)2D314	0.253	9(2G)2D315	0.064	9(2F)2D329	0.062	9(2D)2D325
408	-	204096.2	-	-	-	-0.915	9(2G)2F294	0.382	9(2G)2F295	-0.087	9(4F)2F289	0.046	9(2F)2F308
409	-	204210.2	-	-	-	0.999	8(2F)4F193	0.038	8(2D)4D188	-	-	-	-
410	-	204976.3	-	-	-	0.814	10(2P4P398)	0.385	10(2D4P395)	-0.361	10(2P4D387)	-0.158	10(2D4P397)
411	-	205614.8	-	-	-	-0.856	10(2P4D387)	-0.333	10(2P4F398)	0.282	10(2D4D384)	-0.175	10(2D4F395)
412	-	209080.0	-	-	-	-0.663	10(2P2D440)	0.655	10(2P2D439)	0.189	10(2D2D432)	0.154	10(2D2F431)
413	-	210333.6	-	-	-	0.990	9(2P)4D274	-0.111	9(2D)4D271	0.057	9(2D)4D273	-0.036	9(2P)4P287
414	-	210577.2	-	-	-	-0.863	7(1S)2D170	-0.505	7(1S)2D171	-	-	-	-
415	-	210844.2	-	-	-	-0.996	9(2P)4F257	-0.057	9(2G)4F250	-0.033	9(2D)4F254	-	-
416	-	211339.6	-	-	-	0.847	10(2P2F420)	0.332	10(2D2F415)	0.182	10(2P2D440)	0.172	10(2D2F414)
417	-	211463.1	-	-	-	-0.871	8(2D)4D188	0.488	8(2D)4D190	0.045	8(2F)4F193	-	-
418	-	211489.4	-	-	-	0.996	9(2F)4P287	0.044	9(2D)4P285	-0.042	9(2D)4P284	0.039	9(2F)4D274
419	-	212406.0	-	-	-	-0.691	10(2P2D439)	-0.564	10(2P2D440)	0.234	10(2D2D431)	0.225	10(2P2F240)
420	-	213369.8	-	-	-	0.866	8(2D)2D201	-0.485	8(2D)2D205	0.102	8(2D)2D200	-0.057	8(2D)2D204
421	-	213465.2	-	-	-	0.927	9(2F)2F309	0.340	9(2F)2F308	0.093	9(2D)2F303	0.060	9(2D)4G238
422	-	214144.9	-	-	-	0.687	10(2D4F371)	-0.464	10(2D4D384)	-0.389	10(2D4F373)	0.266	10(2D4D386)
423	-	214451.7	-	-	-	-0.652	10(2D4D384)	-0.495	10(2D4F371)	0.372	10(2D4D386)	0.281	10(2D4F373)
424	-	215494.4	-	-	-	-0.961	9(2F)2D329	-0.168	9(2F)2D328	-0.106	9(2G)2D315	-0.096	9(2D)2D323
425	-	217554.2	-	-	-	0.843	9(2D)4G238	-0.474	9(2D)4G240	0.193	9(2F)2F308	-0.145	9(2F)2F309
426	-	217565.3	-	-	-	0.796	10(2D2F414)	-0.454	10(2D2F418)	-0.288	10(2P2F420)	0.186	10(2G2F404)
427	-	217712.1	-	-	-	-0.816	9(2D)4D271	0.461	9(2D)4D273	-0.286	9(2F)2D328	0.117	9(2F)2D329
428	-	217847.6	-	-	-	-0.755	10(2D4F395)	0.458	10(2P4F398)	0.440	10(2D4F397)	-0.083	10(2D4D384)
429	-	218265.2	-	-	-	0.840	9(2F)2D328	0.312	9(2D)4F254	-0.271	9(2D)4F256	-0.174	9(2D)4F256
430	-	218323.3	-	-	-	-0.866	8(2D)2D200	0.485	8(2D)2D204	0.102	8(2D)2D201	-0.057	8(2D)2D205
431	-	218595.3	-	-	-	-0.763	9(2F)2F308	-0.411	9(2D)4F254	0.294	9(2F)2F309	0.229	9(2D)4F256
432	-	218808.6	-	-	-	-0.686	9(2F)4F254	0.477	9(2F)2F308	0.381	9(2D)4F256	0.253	9(2D)2D328
433	-	218938.6	-	-	-	-0.841	9(2D)4P284	0.471	9(2D)4P286	0.192	9(2F)2D328	-0.132	9(2D)4F254
434	-	219159.6	-	-	-	-0.745	10(2D2D430)	0.414	10(2D2D436)	0.365	10(2D2D431)	0.219	10(2D2D437)
435	-	220458.2	-	-	-	-0.796	9(2D)2F303	0.449	9(2D)2F307	-0.300	9(2D)2F302	0.172	9(2D)2F306
436	-	222014.1	-	-	-	-0.827	9(2D)2D323	0.465	9(2D)2D327	-0.219	9(2D)2D322	0.123	9(2D)2D326
437	-	222392.7	-	-	-	-0.644	10(2D2F415)	-0.418	10(2D2D431)	0.372	10(2D2F419)	0.282	10(2P2F240)
438	-	223033.5	-	-	-	0.577	10(2D2D431)	-0.429	10(2D2F415)	0.355	10(2D2D430)	-0.319	10(2D2D437)
439	-	225590.3	-	-	-	0.837	9(2D)2D322	-0.472	9(2D)2D326	-0.220	9(2D)2D323	0.124	9(2D)2D327
440	-	226437.1	-	-	-	-0.813	9(2D)2F302	0.452	9(2D)2F306	0.314	9(2D)2F300	-0.173	9(2D)2F307
441	-	230611.6	-	-	-	0.786	10(2D2D432)	-0.459	10(2D2D438)	0.322	10(2D2D440)	-0.189	10(2G2D424)

J 3.5 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 485S + D5 4S4D + D5 4P2

OBSERVED ENERGY	EIGENVALUE	E-0	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	384.790	392.8	8.1 D6S (5D)6D	0.999 2(5D)6D 4
2	2430.097	2322.1	-108.0 D7 (5D)4F	0.999 1(4F)4F 1 0.030 3(4F)4F 18
3	7955.299	7928.2	-27.1 D6S (5D)4D	-0.999 2(5D)4D 9 0.032 2(3F)2F 15
4	16369.360	16314.9	-54.4 D7 (5D)2G	0.998 1(2G)2G 2 0.045 2(3G)2G 11
5	21711.917	21785.4	73.5 D6S (3H)4H	0.990 2(3H)4H 5 0.101 2(3G)4G 6
6	22810.357	22879.7	69.3 D6S (3F)4F	-0.869 2(3F)4F 8 0.456 2(3F)4F 7
7	25981.629	25818.7	-162.9 D6S (3G)4G	0.971 2(3G)4G 6 0.159 2(3F)4F 8
8	27314.922	27368.7	53.8 D6S (3F)2F	-0.846 2(3F)2F 15 0.449 2(3F)2F 14
9	30764.485	30628.3	-136.1 D6S (3G)2G	-0.984 2(3G)2G 11 -0.132 2(3F)2F 15
10	31483.176	31158.0	-325.1 D6S (3D)4D	-0.999 2(3D)4D 10 -0.030 2(1F)2F 16
11	31999.048	31919.5	-79.6 D7 (5D)2F	0.975 1(2F)2F 3 -0.143 2(3F)2F 15
12	33501.253	32981.2	-520.0 D6S (1G)2G	-0.799 2(1G)2G 13 0.575 2(1G)2G 12
13	44915.046	44847.4	-67.6 D6S (1F)2F	0.991 2(1F)2F 16 -0.094 2(3F)4F 7
14	50187.813	50136.3	-51.5 D6S (3F)4F	-0.882 2(3F)4F 7 -0.458 2(3F)4F 8
15	54283.220	54306.2	22.9 D5S2(7S)4G	0.999 3(4G)4G 17 0.036 3(2F)2F 22
16	54904.222	54813.0	-91.2 D6S (3F)2F	0.881 2(3F)2F 14 0.464 2(3F)2F 15
17	58666.258	58736.3	70.0 D6S (1G)2G	0.808 2(1G)2G 12 0.583 2(1G)2G 13
18	60270.339	60355.1	84.8 D5S2(7S)4D	-0.998 3(4D)4D 19 -0.045 3(4F)4F 18
19	-	73189.8	-	0.796 3(2F)2F 22 0.592 3(4F)4F 18
20	73492.215	73354.0	-138.2 D5S2(7S)4F	-0.798 3(4F)4F 18 -0.596 3(2F)2F 22
21	78237.685	78230.4	-7.3 5S (5D)6D	0.993 4(5D)6D 24 0.112 4(5D)4D 29
22	78185.030	78266.9	81.9 D5S2(7S)2G	-0.995 3(2G)2G 21 0.074 3(2F)2F 22
23	79439.467	79425.0	-14.5 5S (5D)4D	-0.993 4(5D)4D 29 0.112 4(5D)6D 24
24	81734.750	81727.7	-7.1 D5S2(7S)2F	-0.996 3(2F)2F 23 -0.074 3(4F)4F 18
25	83136.487	83161.6	25.1 4D (5D)6F	-0.895 6(5D)6F 51 0.410 6(5D)6D 52
26	83713.536	83742.6	29.1 4D (5D)6D	-0.766 6(5D)6D 52 -0.492 6(5D)6F 53
27	84266.556	84325.7	59.2 4D (5D)6P	0.817 6(5D)6P 53 0.470 6(5D)6D 52
28	84710.685	84609.9	-100.8 4D (5D)6G	0.978 6(5D)6G 50 0.139 6(5D)6F 51
29	84685.198	84688.4	3.3 4D (5D)4D	-0.936 6(5D)4D 72 0.273 6(5D)6P 53
30	85462.862	85463.2	0.3 4D (5D)4G	0.973 6(5D)4G 58 -0.177 6(5D)4F 64
31	86416.333	86437.9	21.6 4D (5D)4F	0.955 6(5D)4F 64 0.189 6(5D)4G 58
32	98568.912	98549.1	-19.8 5S (3H)4H	0.987 4(3H)4H 25 0.093 4(3G)4G 26
33	99688.337	99678.5	-9.8 5S (3F)4F	-0.857 4(3F)4F 28 0.462 4(3F)4F 27
34	100492.020	100484.3	-7.7 5S (3F)2F	-0.852 4(3F)2F 35 0.464 4(3F)2F 34
35	-	101771.9	-	0.999 3(2G)2G 20
36	102030.912	102028.2	-2.8 6S (5D)6D	0.925 5(5D)6D 37 0.377 5(5D)4D 42
37	102394.718	102395.5	0.8 6S (5D)4D	-0.925 5(5D)4D 42 0.378 5(5D)6D 37
38	-	102844.2	-	0.615 6(3P)4D 78 -0.547 6(3P)4D 77
39	-	103008.6	-	0.978 4(3G)4G 26 0.131 4(3F)4F 28
40	-	103074.3	-	-0.619 6(3P)2F 96 0.528 6(3P)2F 95
41	103094.730	103094.7	0.0 485S(7S)8S	1.000 8(6S)8S154
42	-	103901.3	-	0.463 6(3H)2F 90 0.432 6(3H)4F 65
43	103983.510	103956.0	-27.5 5S (3G)2G	0.983 4(3G)2G 31 0.131 4(3F)2F 35
44	-	104013.3	-	0.740 6(3H)4G 59 0.538 6(3H)4H 54
45	104000.810	104019.5	18.7 5D (5D)6P	-0.797 7(5D)6P103 0.546 7(5D)6D104
46	-	104070.9	-	-0.813 6(3H)4H 54 0.532 6(3H)4G 59
47	104380.940	104389.7	8.8 5D (5D)6F	0.590 7(5D)6D104 -0.582 7(5D)6P105
48	-	104416.0	-	0.752 6(3P)2F 90 -0.304 6(3P)2F 96

49	104705.420	104748.8	43.4	5D (5D) 6D	-0.715 7(5D) 4D124	-0.489 7(5D) 6P105	-0.429 7(5D) 6D104	-0.212 7(5D) 6F103
50	-	104859.5	-	-	-0.534 6(3F) 4F 68	-0.455 6(3H) 4F 65	-0.342 6(3P) 4F 71	0.304 6(3P) 4F 67
51	104873.230	104910.3	37.0	5D (5D) 4D	0.650 7(5D) 4D124	-0.602 7(5D) 6P105	-0.386 7(5D) 6D104	0.183 7(5D) 6G102
52	105065.630	105001.4	-64.2	5D (5D) 6G	0.938 7(5D) 6G102	0.201 7(5D) 6F103	0.191 7(5D) 4G110	0.136 7(5D) 6D104
53	-	105005.2	-	-	0.829 6(3H) 2G 79	-0.276 6(3F) 2G 82	0.234 6(3F) 2G 82	0.218 6(3H) 4F 65
54	-	105182.4	-	-	0.746 6(3F) 4D 75	-0.427 6(3F) 4D 74	-0.301 6(3H) 2G 79	0.221 6(3F) 4G 62
55	105291.010	105296.2	5.2	4D (3F) 4G	-0.736 6(3F) 4G 62	0.432 6(3F) 4G 61	0.300 6(3H) 4G 59	0.247 6(3F) 4H 57
56	105449.540	105439.3	-10.2	5D (5D) 4G	0.948 7(5D) 4G110	-0.219 7(5D) 4F116	-0.204 7(5D) 6G102	-0.091 7(5D) 4D124
57	105589.420	105583.0	-6.4	4D (3F) 4H	0.817 6(3F) 4H 57	-0.444 6(3F) 4H 56	0.261 6(3F) 4G 62	-0.149 6(3F) 4G 61
58	-	105757.8	-	-	0.786 6(3F) 2F 93	-0.469 6(3F) 2F 92	-0.225 6(3G) 2F 91	0.152 6(3P) 2F 96
59	-	106100.9	-	-	-0.949 7(5D) 4F116	-0.237 7(5D) 4G110	-0.168 7(5D) 4D124	0.067 7(3H) 4F117
60	-	106667.2	-	-	-0.575 6(3F) 4F 68	0.536 6(3H) 4F 65	-0.374 6(3G) 4F 66	0.310 6(3F) 4F 67
61	106836.000	106836.0	0.0	4P2 (7P) 8P	0.999 10(6S8P) 306	0.035 10(6S8P) 317	-	-
62	-	107013.0	-	-	-0.741 6(3F) 2G 82	0.417 6(3F) 2G 81	-0.304 6(3H) 2G 79	0.201 6(3G) 2G 80
63	-	108396.4	-	-	-0.798 4(1G) 2G 33	0.591 4(1G) 2G 32	0.074 4(3F) 2F 35	-0.073 4(3H) 4H 25
64	108804.667	108856.0	51.4	5S (3D) 4D	0.999 4(3D) 4D 30	0.031 4(1F) 2F 36	-	-
65	-	109161.3	-	-	0.925 6(3G) 4D 73	-0.316 6(3G) 4G 60	-0.100 6(3H) 4F 65	0.100 6(3F) 4D 75
66	-	109236.8	-	-	0.865 6(3G) 4G 60	0.319 6(3G) 4D 73	-0.292 6(3G) 4H 55	0.121 6(3F) 4F 68
67	-	109377.7	-	-	-0.933 6(3G) 4H 55	-0.302 6(3G) 4G 60	0.099 6(3F) 4H 57	-0.092 6(3P) 2G 82
68	109463.220	109485.3	22.1	4SD (7S) 8D	1.000 9(6S) 8D183	-	-	-
69	-	110494.9	-	-	-0.865 6(3G) 2G 80	0.278 6(1G) 2G 86	0.249 6(3G) 2F 91	-0.193 6(1G) 2G 85
70	-	111270.6	-	-	0.767 6(3G) 2F 91	0.311 6(3G) 4F 66	-0.263 6(3H) 2F 90	0.234 6(1G) 2F 98
71	-	111504.8	-	-	0.849 6(3G) 4F 66	-0.279 6(3G) 2F 91	-0.250 6(3H) 4F 65	-0.206 6(3P) 4F 68
72	-	113790.8	-	-	-0.787 6(1I) 2G 84	-0.462 6(1G) 2G 86	0.375 6(1G) 2G 85	-0.083 6(1G) 2F 98
73	-	113875.5	-	-	-0.716 6(1G) 2F 98	0.585 6(1G) 2F 97	0.229 6(3G) 2F 94	0.212 6(3G) 2F 91
74	-	113929.1	-	-	-0.991 9(6S) 6D195	-0.100 9(6S) 6D194	0.061 9(4G) 6D196	0.035 9(4D) 6D198
75	-	115635.6	-	-	0.684 6(3D) 2G 83	-0.403 6(1G) 2G 86	0.371 6(1I) 2G 84	0.311 6(1G) 2G 85
76	-	115775.3	-	-	-0.983 10(6S6P) 317	-0.156 10(6S6P) 313	-0.077 10(4D6P) 318	0.049 10(4P6P) 319
77	-	116194.4	-	-	0.984 6(3D) 4G 63	-0.097 6(3G) 4G 60	0.070 6(3D) 4F 69	0.065 6(3D) 2G 83
78	-	116351.5	-	-	0.964 6(3D) 4D 76	0.221 6(3D) 4F 69	-0.079 6(3G) 4D 73	-0.067 6(3D) 2F 94
79	-	116615.5	-	-	0.961 6(3D) 4F 69	-0.227 6(3D) 4D 76	0.072 6(3H) 4F 65	-0.071 6(3D) 4G 63
80	-	117845.7	-	-	-0.930 6(3D) 2F 94	0.231 6(3G) 2F 91	0.161 6(1D) 2F100	0.128 6(1G) 2F 97
81	-	117943.5	-	-	-0.982 10(6S6D) 313	0.154 10(6S6P) 317	0.093 10(4D6D) 315	0.048 10(4P6D) 316
82	-	118685.8	-	-	-0.658 6(3D) 2G 83	0.367 6(1I) 2G 84	-0.359 6(1D) 2G 88	-0.322 6(1G) 2G 86
83	-	121568.4	-	-	0.995 4(1F) 2F 36	-0.069 4(3F) 4F 27	-0.038 4(3F) 4F 28	0.035 4(3F) 2F 34
84	-	122193.5	-	-	-0.986 5(3H) 4H 38	-0.091 5(3G) 4G 39	-0.070 5(3G) 2G 44	0.063 5(3F) 2F 48
85	-	122231.6	-	-	0.782 6(1D) 2G 88	-0.435 6(1D) 2G 89	-0.294 6(3D) 2G 83	0.175 6(1I) 2G 84
86	-	122395.0	-	-	-0.845 6(1D) 2F100	0.474 6(1D) 2F101	-0.147 6(3D) 2F 94	0.095 6(3G) 2F 91
87	-	123308.1	-	-	-0.808 5(3F) 4F 41	0.437 5(3F) 4F 40	-0.300 5(3F) 2F 48	0.169 5(3F) 2F 47
88	-	123402.0	-	-	0.627 7(3P) 4D130	-0.549 7(3P) 4D129	-0.384 7(3P) 4F123	0.328 7(3P) 4F122
89	-	123561.9	-	-	0.647 7(3P) 2F148	-0.554 7(3P) 2F147	0.341 7(3P) 4F123	-0.291 7(3P) 4F122
90	-	123627.2	-	-	-0.807 5(3F) 2F 48	0.438 5(3F) 2F 47	0.317 5(3F) 4F 41	-0.165 5(3F) 4F 40
91	-	124390.4	-	-	-0.438 7(3H) 4F117	-0.426 7(3H) 2F142	0.388 7(3P) 4F123	0.353 7(3P) 4D130
92	-	124539.2	-	-	0.928 7(3H) 4G111	-0.242 7(3H) 4H106	0.138 7(3F) 4G114	0.110 7(3H) 2G131
93	-	124560.9	-	-	-0.956 7(3H) 4H106	-0.218 7(3H) 4G111	-0.078 7(3F) 4H109	-0.075 7(3G) 4G112
94	-	124736.3	-	-	0.845 7(3H) 2F142	-0.242 7(3P) 2F148	0.222 7(3P) 2F147	0.184 7(3P) 4F123
95	-	125113.7	-	-	-0.700 7(3H) 4F117	-0.424 7(3P) 4F120	-0.320 7(3P) 4F123	0.273 7(3P) 4F122
96	-	125138.3	-	-	-0.930 7(3H) 2G131	0.237 7(3P) 2G134	-0.144 7(3P) 2G133	-0.109 7(3H) 4F117
97	-	125676.9	-	-	0.827 7(3F) 4D127	-0.472 7(3P) 4D126	0.133 7(3H) 4F117	0.130 7(3P) 4G114
98	-	125785.8	-	-	-0.789 7(3F) 4G114	0.453 7(3F) 4G113	0.232 7(3P) 4H109	0.170 7(3H) 4G111
99	-	126019.8	-	-	-0.821 7(3F) 4H109	0.448 7(3F) 4H108	-0.256 7(3P) 4G114	0.143 7(3P) 4G113
100	-	126038.1	-	-	-0.800 7(3P) 2F148	0.469 7(3P) 2F144	0.172 7(3G) 2F143	0.170 7(3P) 4H109
101	-	126485.7	-	-	-0.730 7(3F) 4F120	0.429 7(3H) 4F117	0.403 7(3P) 4F119	-0.185 7(3G) 4F118
102	-	126634.0	-	-	0.962 5(3G) 4G 39	0.200 5(3G) 2G 44	0.121 5(3F) 4F 41	0.089 5(3F) 2F 48
103	-	126961.3	-	-	0.804 7(3F) 2G134	-0.451 7(3F) 2G133	0.257 7(3H) 2G131	-0.147 7(3G) 2G132
104	-	127060.1	-	-	-0.966 5(3G) 2G 44	0.208 5(3G) 4G 39	-0.119 5(3P) 2F 48	0.063 5(3P) 4F 41
105	-	128648.5	-	-	0.878 4(3F) 4F 27	0.470 4(3F) 4F 28	0.077 4(1F) 2F 36	-0.040 4(1G) 2G 32
106	-	129539.2	-	-	0.877 4(3F) 2F 34	0.475 4(3F) 2F 35	-0.041 4(1F) 2F 36	-0.068 7(3F) 4D127
107	-	129547.7	-	-	-0.985 7(3G) 4D125	0.094 7(3H) 4F117	-0.083 7(3G) 2F143	-0.099 7(3P) 4F120
108	-	129666.3	-	-	-0.913 7(3G) 4G112	0.337 7(3G) 4H107	-0.099 7(3G) 2G132	-
109	-	129796.3	-	-	0.990 9(6S) 6D194	-0.101 9(6S) 6D195	0.096 9(6S) 4D245	-
110	-	129817.0	-	-	-0.926 7(3G) 4H107	-0.344 7(3G) 4G112	-0.073 7(3P) 2G134	0.067 7(3P) 4H109
111	-	130041.0	-	-	0.995 6(1F) 2G 87	-0.043 6(1D) 2G 88	-0.041 6(3P) 4G 61	0.034 6(1D) 2G 89
112	-	130223.6	-	-	0.991 9(6S) 4D245	-0.097 9(6S) 6D194	-0.063 9(4G) 4D246	-0.035 9(4D) 4D250
113	-	130288.7	-	-	-0.983 6(1F) 2F 99	-0.081 6(3F) 2F 92	-0.081 6(3P) 2F 95	0.054 6(3G) 2F 91
114	-	130520.7	-	-	0.751 7(3G) 2G132	-0.484 7(3G) 2F143	-0.308 7(3G) 4F118	-0.150 7(1G) 2G138
115	-	130620.3	-	-	0.868 7(3G) 4F118	0.401 7(3G) 2G132	0.119 7(3H) 4F117	-0.106 7(3F) 4F120
116	-	130879.5	-	-	-0.793 7(3G) 2F143	-0.411 7(3G) 2G132	0.298 7(3G) 4F118	0.169 7(3H) 2F142
117	-	131855.5	-	-	-0.798 5(1G) 2G 46	0.592 5(1G) 2G 45	-0.072 5(3H) 4H 38	0.069 5(3P) 2F 48
118	-	132504.8	-	-	0.999 5(3D) 4D 43	0.031 5(1F) 2F 49	-	-
119	-	134013.4	-	-	0.762 7(1G) 2F150	-0.609 7(1G) 2F149	-0.121 7(3G) 2F143	-0.114 7(3D) 2F146
120	-	134130.5	-	-	0.689 7(1I) 2G136	0.557 7(1G) 2G138	-0.442 7(1G) 2G137	0.080 7(3G) 2G132
121	-	135245.3	-	-	-0.650 7(1I) 2G136	0.458 7(1G) 2G138	-0.403 7(3D) 2G135	-0.354 7(1G) 2G137
122	-	135996.2	-	-	0.801 4(1G) 2G 32	0.596 4(1G) 2G 33	0.037 4(3F) 2F 34	-
123	-	136647.1	-	-	0.989 7(3D) 4G115	0.096 7(3D) 4F121	-0.056 7(3G) 4G112	0.053 7(1D) 2G140
124	-	136751.3	-	-	-0.924 7(3D) 4D128	-0.360 7(3D) 4F121	0.084 7(3D) 2F146	-0.055 7(1D) 2F152
125	-	136907.2	-	-	-0.921 7(3D) 4F121	0.367 7(3D) 4D128	0.095 7(3D) 4G115	0.038 7(3D) 2F146
126	-	137141.0	-	-	-0.766 6(3F) 4D 74	-0.431 6(3F) 4D 75	-0.308 6(3P) 4D 77	-0.267 6(3P) 4D 78
127	-	137376.5	-	-	-0.879 6(3F) 4H 56	-0.472 6(3F) 4H 57	-	-
128	-	137516.2	-	-	0.966 7(3D) 2F146	-0.132 7(3G) 2F143	0.108 7(3D) 2G135	-0.077 7(1D) 2F152
129	-	137623.0	-	-	0.592 6(3P) 4F 70	0.506 6(3P) 4F 71	0.490 6(3P) 4F 67	0.267 6(3P) 4F 68
130	-	137703.1	-	-	-0.999 8(4G) 6G155	-0.032 8(2F) 4F166	-	-
131	-	137710.5	-	-	-0.894 7(3D) 2G135	0.263 7(1I) 2G136	-0.198 7(1G) 2G138	0.159 7(1G) 2G137
132	-	138505.2	-	-	0.862 6(3F) 4G 61	0.495 6(3F) 4G 62	-0.053 6(3P) 2F 92	0.044 6(1F) 2G 87
133	-	139161.3	-	-	0.791 6(3F) 2F 92	0.473 6(3F) 2F 93	0.217 6(3P) 2G 81	0.141 6(1G) 2F 97
134	-	139186.6	-	-	0.995 10(4G6G) 307	-0.061 10(4G6G) 308	0.043 10(2F4G) 336	0.038 10(4G4G) 327
135	-	139298.8	-	-	-0.479 6(3P) 4D 77	0.434 6(3F) 4F 67	-0.426 6(3P) 4D 78	-0.371 6(3P) 2G 81
136	-	139322.9	-	-	-0.753 6(3F) 2G 81	-0.429 6(3F) 2G 82	0.246 6(3P) 2F 92	0.228 6(3P) 4D 77
137	-	139764.4	-	-	-0.521 6(3F) 4F 67	-0.417 6(3P) 4D 77	0.397 6(3P) 4F 70	-0.372 6(3P) 4D 78
138	-	140062.6	-	-	-0.967 10(4G6F) 310	0.171 10(4F6F) 311	0.146 10(4G6G) 308	-0.074 10(4D6F) 312
139	-	140138.5	-	-	-0.997 8(4G) 4G161	-0.061 8(4G) 4G160	-	-
140	-	140380.2	-	-	0.704 6(3P) 2F 95	0.612 6(3P) 2F 96	0.160 6(1G) 2F 97	-0.135 6(3F) 2F 92
141	-	140549.4	-	-	0.980 8(4P) 6P158	0.183 8(4D) 6D157	-0.047 8(2D) 4D172	-0.037 8(4D) 4D169
142	-	141923.5	-	-	-0.888 10(4P6P) 319	0.406 10(4D6P) 318	-0.143 10(4D6P) 315	-0.079 10(6S6P) 317
143	-	142034.4	-	-	0.854 7(1D) 2G140	-0.479 7(1D) 2G141	-0.146 7(3D) 2G135	0.062 7(1I) 2G136
144	-	142043.1	-	-	0.978 10(4G6G) 308	0.146 10(4G6G) 310	0.101 10(4F6G) 309	0.055 10(4G6G) 307
145	-	142322.3	-	-	-0.862			

149	-	143948.2	-	-0.997	9(4G)6I184	-0.054	9(4G)6H185	-0.045	9(2F)4H211		
150	-	143955.4	-	-0.991	9(4G)6F190	-0.117	9(4G)6G187	-0.037	9(4F)6F191		
151	-	144029.9	-	-0.992	9(4G)6G187	0.119	9(4G)6F190				
152	-	144825.7	-	-0.682	10(4G4H320)	0.446	10(4G4H321)	0.396	10(4G4G327)	-0.253	10(4G4F338)
153	-	144965.1	-	-0.560	10(4G4F338)	-0.460	10(4G4F339)	0.415	10(4G4H320)	0.316	10(4G4G327)
154	-	145038.5	-	0.996	5(1F)2F 49	-0.065	5(3F)4F 40	-0.036	5(3F)4F 41	0.036	5(3F)2F 47
155	-	145230.9	-	-0.784	6(1G)2G 85	-0.615	6(1G)2G 86	-0.043	6(1D)2G 89	-0.032	6(3F)2F 92
156	-	145367.0	-	0.896	9(4G)6D196	-0.353	9(4P)6D199	-0.249	9(4D)6D198	0.050	9(4P)6F193
157	-	145561.1	-	-0.781	10(4G4G327)	-0.352	10(4G4F338)	-0.289	10(4G4F339)	-0.245	10(4G4G328)
158	-	145968.8	-	0.894	10(4D6D315)	-0.308	10(4D6F312)	-0.231	10(4F6D314)	-0.150	10(4P6F319)
159	-	146237.6	-	-0.996	8(4D)4D169	-0.060	8(4D)4D168	-0.040	8(4F)4F165	-0.040	8(4P)6F158
160	-	146458.7	-	-0.895	10(4D6F312)	-0.284	10(4D6D315)	0.207	10(4D6D316)	-0.150	10(4P4D359)
161	-	146567.5	-	0.931	9(4P)6P202	0.294	9(4D)6P201	-0.140	9(4P)6D199	-0.089	9(4G)4D247
162	-	146706.6	-	0.960	9(4P)6F193	-0.186	9(4D)6F192	0.161	9(4D)6G189	-0.085	9(4P)6P202
163	-	146831.2	-	0.744	6(1G)2F 97	0.609	6(1G)2F 98	-0.160	6(3P)2F 95	-0.145	6(3P)2F 96
164	-	147048.2	-	-0.955	9(4G)4D247	-0.184	9(4D)4D251	-0.169	9(4G)4D246	-0.097	9(4P)6P202
165	-	147484.6	-	0.710	10(4P4D359)	-0.364	10(4G4D353)	0.359	10(4D4D356)	-0.203	10(4F4D355)
166	-	147706.5	-	-0.953	9(4G)4G214	-0.151	9(4D)4G218	-0.147	9(4G)4G213	-0.120	9(4P)6D199
167	-	147768.5	-	-0.873	9(4P)6D199	-0.291	9(4G)6D196	0.229	9(4D)6D198	-0.160	9(4D)6F192
168	-	147839.9	-	0.943	10(4G2G367)	-0.148	10(4G4H320)	0.122	10(4F2G368)	0.120	10(2I2G369)
169	-	148085.4	-	-0.929	9(4G)4F229	-0.224	9(4P)4F235	0.157	9(4D)4F233	-0.139	9(4G)4F228
170	-	148669.6	-	0.973	9(4G)4H204	0.156	9(2I)4H207	0.138	9(4G)4H203	0.058	9(2H)4H208
171	-	148903.0	-	0.879	10(4D6P318)	0.392	10(4P6P319)	-0.162	10(4G4D353)	-0.120	10(4P4D360)
172	-	149648.2	-	-0.898	9(4P)4D253	-0.303	9(4D)4D251	-0.162	9(4D)6P201	-0.155	9(4D)6F192
173	-	149663.4	-	0.806	10(4G4H321)	0.523	10(4G4H320)	-0.148	10(4F4H322)	-0.105	10(4G4D353)
174	-	149722.2	-	0.734	10(4G4D353)	0.356	10(4P4D359)	0.356	10(4P4D360)	0.186	10(4D4D357)
175	-	149914.9	-	0.622	10(4G4G328)	-0.563	10(4P4F345)	0.274	10(4D4F344)	-0.234	10(4G4F339)
176	-	149975.0	-	-0.934	9(4D)6G189	-0.236	9(4D)6F192	-0.191	9(4P)4F235	0.118	9(4P)6F193
177	-	150072.0	-	-0.704	10(4G4G328)	-0.497	10(4P4F345)	0.233	10(4D4F344)	0.222	10(4G4G327)
178	-	150137.1	-	0.997	7(1F)2G139	-0.035	7(3F)4G113				
179	-	150228.8	-	0.923	9(4D)6P201	-0.278	9(4P)6P202	-0.166	9(4P)4D253	0.120	9(4D)6F192
180	-	150262.5	-	0.993	7(1F)2F151	0.049	7(3P)2F144	0.042	7(3P)2F147	-0.035	7(3P)4F119
181	-	150331.9	-	-0.899	9(4D)6F192	0.244	9(4D)6G189	-0.208	9(4P)6F193	0.166	9(4P)6D199
182	-	150838.8	-	0.996	8(4G)4G160	-0.061	8(4G)4G161	-0.039	8(2F)4F166	0.035	8(2F)2F179
183	-	150941.5	-	-0.908	9(4P)4F235	0.196	9(4G)4F229	0.174	9(4D)6G189	0.173	9(4D)6F192
184	-	150957.4	-	-0.560	10(4G4F338)	0.466	10(4G4F339)	-0.440	10(4D4F343)	0.351	10(4G2F385)
185	-	151268.0	-	0.997	8(4G)2G173	-0.042	8(2F)2F180	-0.038	8(2F)2F180	0.036	8(4G)4G160
186	-	151320.3	-	-0.721	10(4P4D360)	-0.390	10(4D4D357)	0.364	10(4G4D353)	0.296	10(4P4D359)
187	-	151856.1	-	-0.770	10(4G2F385)	0.355	10(4D2F387)	-0.268	10(4G4F338)	0.233	10(4G4F339)
188	-	151904.2	-	-0.926	9(4D)6D198	-0.308	9(4G)6D196	-0.155	9(4P)6D199	0.080	9(4P)6P202
189	-	152294.0	-	0.878	5(3F)4F 40	0.470	5(3F)4F 41	0.072	5(1F)2F 49	0.031	5(3F)2F 47
190	-	152641.5	-	-0.877	5(3F)2F 47	-0.475	5(3F)2F 48	0.043	5(1F)2F 49	0.036	5(1G)2G 45
191	-	152772.0	-	-0.661	10(4D4F343)	-0.440	10(4G4F339)	-0.324	10(4D4F344)	0.238	10(4D4G332)
192	-	153101.6	-	-0.726	10(4D4G332)	0.390	10(4G4G329)	0.283	10(4F4G331)	0.249	10(4P4F345)
193	-	153732.1	-	0.935	9(4D)4F233	-0.186	9(4D)4G218	0.164	9(4G)4F229	0.143	9(4D)4F232
194	-	153831.0	-	0.858	10(4D4D356)	-0.356	10(4P4D359)	-0.170	10(4P4D354)	-0.144	10(2F4D361)
195	-	153962.9	-	0.930	9(4D)4G218	0.175	9(4D)4F233	-0.168	9(4P)4F235	0.143	9(4D)4G217
196	-	154821.9	-	0.897	9(4D)4D251	-0.326	9(4P)4D253	-0.188	9(4G)4D247	0.129	9(4D)4D250
197	-	155237.0	-	0.524	10(4D4F344)	0.478	10(4D2F387)	0.301	10(4P4F345)	-0.297	10(4D4F343)
198	-	155455.5	-	-0.628	10(4D2F387)	0.422	10(4G4G329)	-0.347	10(4G2F385)	0.336	10(4D4F344)
199	-	155760.7	-	-0.645	10(4G4G329)	0.433	10(4D4F344)	-0.406	10(4D4G332)	0.263	10(4P4F345)
200	-	156011.6	-	-0.735	10(4D4D357)	0.377	10(4P4D360)	0.230	10(4D4D358)	-0.223	10(4P4D359)
201	-	156389.2	-	0.964	8(4F)6P156	0.221	8(4D)4D168	-0.104	8(2D)4D172	-0.064	8(2D)4D170
202	-	156956.9	-	-0.968	8(4D)4D168	0.223	8(4F)6P156	-0.065	8(2F)4F166	0.055	8(4D)4D169
203	-	157750.6	-	-0.879	9(4G)2G263	-0.420	9(4G)4H203	-0.132	9(4D)2G265	-0.072	9(4G)2F284
204	-	157860.9	-	-0.890	9(4G)4H203	0.412	9(4G)2G263	0.133	9(4G)4H204	0.072	9(4D)2G265
205	-	157968.5	-	-0.788	7(3F)4D126	-0.444	7(3F)4D127	-0.268	7(3P)4D129	-0.231	7(3P)4D130
206	-	158045.7	-	0.877	7(3F)4H108	0.478	7(3F)4H109				
207	-	158064.8	-	0.962	9(4G)4F228	0.146	9(4G)2F284	-0.141	9(4G)4F229	0.140	9(4G)4G213
208	-	158069.5	-	-0.939	10(2I4H323)	0.211	10(2H4H324)	0.152	10(2G4H326)	-0.132	10(4G4H320)
209	-	158117.2	-	0.881	9(4G)4G213	0.384	9(4G)4F228	-0.186	9(4G)4F228	-0.137	9(4G)4G214
210	-	158152.8	-	-0.764	8(2D)4D172	-0.430	8(2D)4D170	0.399	8(2F)4F166	-0.181	8(4F)4F165
211	-	158188.9	-	-0.857	9(4G)2F284	0.418	9(4G)4G213	-0.201	9(4P)2F287	0.139	9(4D)2F286
212	-	158320.1	-	0.549	7(3F)4F119	0.542	7(3P)4F122	0.464	7(3P)4F123	0.305	7(3F)4F120
213	-	158675.7	-	-0.969	10(4F6G309)	0.138	10(4F6F311)	0.106	10(2D4F352)	0.096	10(4G6G308)
214	-	158705.8	-	0.864	7(3F)4G113	0.490	7(3F)4G114	-0.053	7(3F)2G133	-0.049	7(3F)2F144
215	-	158898.7	-	0.976	8(4F)4F165	-0.127	8(2D)4D172	0.114	8(2F)4F166	-0.069	8(2D)4D170
216	-	159089.7	-	-0.745	7(3F)2F144	-0.434	7(3F)2F145	-0.418	7(3F)2G133	-0.232	7(3F)2G134
217	-	159139.7	-	0.758	7(3F)2G133	0.429	7(3F)2G134	-0.404	7(3F)2F144	-0.240	7(3F)2F145
218	-	159245.2	-	0.571	7(3F)4F119	-0.415	7(3P)4D129	-0.363	7(3P)4D130	0.318	7(3F)4F120
219	-	159424.7	-	0.871	9(4G)4D246	-0.370	9(4P)4D252	-0.259	9(4D)4D250	-0.143	9(4G)4D247
220	-	159461.3	-	0.801	5(1G)2G 45	0.596	5(1G)2G 46	0.034	5(3F)2F 47		
221	-	159505.7	-	0.585	10(2D4D365)	0.525	10(2F4D361)	0.353	10(2D4D363)	-0.200	10(4P4D359)
222	-	159692.5	-	-0.549	7(3P)4D129	-0.482	7(3P)4D130	0.396	7(3P)4F122	0.338	7(3P)4F123
223	-	160045.2	-	0.901	8(2F)4F166	0.347	8(2D)4D172	0.191	8(2D)4D170	0.127	8(2F)2F180
224	-	160104.7	-	-0.599	10(2F4G336)	0.473	10(2D4F352)	0.267	10(2D4F350)	0.237	10(2D2F403)
225	-	160133.3	-	0.724	7(3P)2F147	0.625	7(3P)2F148	0.126	7(3P)4F122	0.115	7(3P)4F123
226	-	160718.1	-	-0.834	10(4F6F311)	0.303	10(4F6D314)	-0.167	10(2D2F403)	-0.155	10(4G6F310)
227	-	160751.9	-	0.751	9(4P)4F234	0.563	9(4P)2F287	0.160	9(4D)4G217	-0.117	9(4P)4F235
228	-	160925.7	-	0.742	9(4P)2F287	-0.577	9(4P)4F234	-0.163	9(4G)2F284	0.149	9(4D)2G265
229	-	160950.9	-	-0.898	10(4F6D314)	-0.303	10(4F6F311)	-0.230	10(4D6D315)	-0.108	10(2F4D361)
230	-	161134.7	-	0.472	10(2F2F393)	-0.446	10(2D2F403)	0.285	10(2D4F352)	0.278	10(4F6F311)
231	-	161314.4	-	-0.484	10(2D4F352)	-0.482	10(2F4G336)	-0.353	10(4D4D358)	-0.267	10(2D4F350)
232	-	161613.8	-	0.614	10(4D4D358)	-0.300	10(2D4F352)	-0.252	10(2F4G336)	0.249	10(4D4D357)
233	-	161723.6	-	0.975	8(2F)2F180	-0.149	8(2D)4D172	0.091	8(2F)2F179	-0.080	8(2D)4D170
234	-	161960.7	-	-0.873	9(4P)4D252	-0.322	9(4G)4D246	0.188	9(4D)4D250	-0.170	9(4D)4F232
235	-	162498.6	-	0.761	9(2I)4G219	0.380	9(4F)6H186	-0.372	9(4F)6F191	0.210	9(4F)6G188
236	-	162525.2	-	0.899	9(4F)6F191	0.298	9(4F)6H186	0.207	9(2I)4G219	0.130	9(4F)6G188
237	-	162607.0	-	-0.790	9(4F)6H186	0.521	9(2I)4G219	-0.176	9(4F)6G188	0.170	9(4F)6F191
238	-	162716.9	-	-0.776	10(2F4F348)	-0.309	10(2F4D361)	-0.197	10(2F2G378)	0.164	10(2F2G379)
239	-	162729.5	-	-0.989	9(4F)6P200	0.077	9(4D)6P201	-0.060	9(4G)4D246	0.058	9(2G)4D255
240	-	162783.4	-	-0.932	9(4F)6G188	0.286	9(4F)6H186</				

249	-	164264.6	-	-	0.599	9(2D)4D260	0.343	9(2D)4D258	-0.326	9(4F)6D197	-0.291	9(2F)4D256
250	-	164378.7	-	-	0.584	9(2D)4G227	0.352	9(2F)4G223	0.330	9(2D)4G225	0.263	9(4F)6D197
251	-	164396.5	-	-	-0.637	10(2H4G333)	0.439	10(2G4G335)	0.362	10(2F4G336)	-0.276	10(4F4G330)
252	-	164419.4	-	-	-0.892	9(4D)4F232	-0.200	9(4F)4D252	0.161	9(4F)4D252	0.142	9(2D)4G227
253	-	164610.2	-	-	0.584	10(2F2F393)	0.429	10(2D2F403)	0.262	10(2F2F394)	0.217	10(2D2F399)
254	-	164672.9	-	-	0.862	9(4F)6D197	0.272	9(2D)4D260	-0.206	9(2F)4D256	-0.170	9(2F)4F239
255	-	164915.6	-	-	0.763	10(4F4G330)	0.473	10(2G4G335)	-0.161	10(4F4F340)	-0.148	10(2G4H326)
256	-	165067.9	-	-	0.607	9(2I)2G267	0.367	9(2D)4F243	-0.284	9(2F)4G223	-0.276	9(2F)4H211
257	-	165138.2	-	-	0.966	8(2G)4G163	-0.210	8(2H)4H159	0.107	8(2F)2F179	-0.050	8(2G)2G177
258	-	165243.2	-	-	0.580	9(2I)2G267	-0.474	9(2D)4F243	-0.265	9(2D)4F241	0.263	9(2G)4G223
259	-	165486.8	-	-	0.786	7(1G)2G137	0.615	7(1G)2G138				
260	-	165568.2	-	-	0.607	10(2G4H326)	0.605	10(2H4H324)	0.226	10(2I4H323)	0.196	10(2D2G384)
261	-	165583.6	-	-	0.887	9(4F)4D249	-0.248	9(2F)4D256	0.202	9(4D)4D250	0.151	9(4F)4D248
262	-	165655.7	-	-	-0.591	9(4F)4G216	-0.413	9(2F)4G223	-0.358	9(2D)4F243	-0.252	9(2F)4F239
263	-	165876.9	-	-	-0.636	9(2F)4H211	0.557	9(4F)4H206	0.345	9(4F)4G216	-0.271	9(2D)4G227
264	-	165924.9	-	-	-0.879	9(4D)4D250	-0.288	9(4G)4D246	0.200	9(4F)4D249	-0.169	9(2F)4F239
265	-	166025.8	-	-	-0.492	10(2G4H326)	-0.409	10(4F4H322)	0.393	10(2D2G384)	0.281	10(2F2G378)
266	-	166122.0	-	-	0.471	10(2D2F404)	-0.433	10(2F2G379)	-0.369	10(4F4H322)	0.305	10(2H4H324)
267	-	166186.9	-	-	-0.703	9(2F)4D256	0.570	9(2F)4F239	-0.163	9(4D)4D250	-0.154	9(2D)4F243
268	-	166195.6	-	-	-0.772	7(1G)2F149	-0.616	7(1G)2F150	0.090	7(3F)2F147	0.081	7(3F)2F148
269	-	166355.5	-	-	0.671	9(4F)4H206	0.461	9(2F)4H211	-0.257	9(2H)4H208	0.235	9(2I)4H207
270	-	166521.5	-	-	-0.556	9(2F)4F239	-0.473	9(2F)4D256	-0.316	9(2D)4D260	0.240	9(2D)2F303
271	-	166551.2	-	-	0.877	8(2F)2F179	-0.428	8(2G)2G177	-0.113	8(2G)4G163	0.106	8(2F)4F167
272	-	166651.6	-	-	-0.797	10(4F4F340)	-0.291	10(2G4F347)	0.175	10(4D4F343)	-0.158	10(4F4F341)
273	-	166718.6	-	-	-0.390	10(2D2F404)	-0.382	10(4F4H322)	0.372	10(2H4H324)	-0.367	10(2D2G384)
274	-	166901.3	-	-	0.587	9(2F)4G223	-0.482	9(4F)4G216	-0.273	9(2D)4G227	-0.261	9(2H)4G220
275	-	167127.1	-	-	0.883	8(2G)2G177	0.425	8(2F)2F179	0.111	8(2G)2G176	-0.084	8(4F)2F178
276	-	167205.8	-	-	0.871	6(1D)2F101	0.489	6(1D)2F100				
277	-	167228.0	-	-	0.788	10(4F4D354)	0.311	10(2F4D362)	0.229	10(4F4F340)	0.226	10(4D4D358)
278	-	167486.4	-	-	-0.604	9(2D)2F303	0.348	9(4F)4F231	-0.342	9(2D)2F299	-0.318	9(2F)4F239
279	-	167496.9	-	-	-0.707	10(2F2F394)	-0.311	10(4F2F386)	0.297	10(2F2G379)	-0.198	10(4F2G368)
280	-	167645.0	-	-	-0.790	9(4F)4F231	0.350	9(2H)4F236	-0.310	9(2D)2F303	0.187	9(2F)2F295
281	-	167701.2	-	-	-0.489	10(2F2G379)	0.446	10(4F2G368)	-0.327	10(2D2F404)	-0.277	10(2F2F394)
282	-	167863.5	-	-	0.869	6(1D)2G 89	0.492	6(1D)2G 88	-0.030	6(1G)2G 86		
283	-	168345.2	-	-	0.689	9(2D)2G283	0.382	9(2D)2G279	-0.353	9(2F)2G275	0.263	9(2F)4H211
284	-	168448.8	-	-	0.630	10(2G4F347)	0.536	10(4F4F341)	-0.353	10(4F4F340)	0.172	10(4F2F386)
285	-	168592.1	-	-	0.986	8(2F)4F167	-0.119	8(2F)2F179	0.098	8(4F)2F178	0.045	8(4F)6F156
286	-	168740.0	-	-	-0.501	10(2G4F347)	0.467	10(4F2F386)	0.374	10(4F4F341)	-0.287	10(2F2F394)
287	-	168844.3	-	-	-0.470	10(2F4G337)	0.422	10(2G4G335)	-0.323	10(4F4G330)	-0.280	10(4F2G368)
288	-	168994.9	-	-	-0.856	9(2F)2F295	-0.299	9(2F)2F294	-0.254	9(2D)2F303	-0.140	9(2D)2F299
289	-	169142.2	-	-	0.562	10(4F4H322)	0.408	10(2H4H324)	-0.343	10(2G4H326)	0.323	10(4F2G368)
290	-	169245.5	-	-	0.429	10(4F2G368)	-0.359	10(2H4H324)	-0.331	10(4F4H322)	0.277	10(2G4H326)
291	-	169494.6	-	-	-0.543	10(4F4F341)	0.526	10(4F2F386)	-0.283	10(2H2F388)	0.274	10(2G4F347)
292	-	169555.2	-	-	-0.969	8(4F)4F164	-0.146	8(2F)2F182	0.119	8(2G)2G176	-0.114	8(4F)2F178
293	-	169688.3	-	-	0.567	10(2G2F391)	0.348	10(4F4G331)	-0.288	10(2G2F392)	-0.268	10(2H2F388)
294	-	169746.4	-	-	0.749	9(2F)2G275	0.304	9(2H)2G269	0.292	9(2D)2G283	0.208	9(2F)2G274
295	-	169956.1	-	-	-0.917	8(4F)2F178	-0.280	8(2F)2F182	0.164	8(4F)4F164	0.144	8(2G)2G176
296	-	170180.4	-	-	-0.720	10(4F4G337)	0.288	10(2G2F391)	-0.192	10(2H4G333)	0.184	10(4G4G329)
297	-	170311.8	-	-	0.471	10(2H2G371)	0.435	10(2F2G378)	0.353	10(2H2G370)	0.297	10(2G2G376)
298	-	170325.7	-	-	-0.825	9(2I)2G266	-0.276	9(2H)4G220	0.263	9(2I)2G267	0.180	9(2H)2F289
299	-	170539.9	-	-	0.865	9(2H)4G220	-0.258	9(2G)4G222	-0.252	9(2I)2G266	0.140	9(2F)4G223
300	-	170581.8	-	-	-0.938	8(2F)2F182	0.294	8(4F)2F178	-0.107	8(2F)2F181	-0.095	8(2G)2G176
301	-	170830.8	-	-	0.874	10(2F4D362)	-0.346	10(4F4D354)	-0.194	10(2D4D364)	0.128	10(2F4D361)
302	-	171287.7	-	-	0.913	9(2G)4H210	0.349	9(2H)4H208	-0.119	9(2F)2G275	0.090	9(2D)4G222
303	-	171379.3	-	-	-0.918	9(2G)4D255	-0.205	9(2H)4F236	0.173	9(2H)2F289	-0.153	9(2F)4D257
304	-	171458.1	-	-	0.651	10(2G2G376)	0.459	10(2F2G380)	-0.264	10(2F2G381)	0.241	10(4F2G368)
305	-	171718.2	-	-	0.850	9(2H)4H208	-0.354	9(2G)4H210	0.215	9(4F)4H206	0.176	9(2I)4H207
306	-	172081.1	-	-	-0.968	8(2G)2G176	-0.193	8(4F)2F178	0.104	8(2G)2G177	-0.101	8(4F)4F164
307	-	172226.1	-	-	0.578	10(2F4G337)	0.504	10(2H4G333)	-0.363	10(2F4F349)	0.341	10(2G4G335)
308	-	172316.8	-	-	-0.681	9(2G)4F238	0.390	9(2D)2G282	-0.280	9(2H)2F289	0.253	9(2F)4F240
309	-	172373.9	-	-	-0.561	9(2G)4F238	-0.557	9(2D)2G282	-0.315	9(2D)2G278	-0.309	9(2F)2G274
310	-	172495.6	-	-	-0.637	9(2H)2F289	-0.395	9(2G)2F293	-0.266	9(2H)4F236	-0.234	9(2H)2F288
311	-	172514.4	-	-	-0.492	10(2F4F349)	-0.384	10(4F4D355)	-0.339	10(2F4G337)	0.308	10(2G2F391)
312	-	172747.8	-	-	0.638	10(2F4F349)	0.361	10(2G2F391)	0.305	10(2H2F388)	-0.227	10(2G2G375)
313	-	172777.7	-	-	0.727	9(2H)4F236	-0.370	9(2G)4G222	-0.274	9(2G)4D255	0.273	9(4F)4F231
314	-	172985.1	-	-	0.704	10(4F4D355)	-0.386	10(2G2G375)	0.310	10(4D4D358)	0.200	10(2H2F388)
315	-	173118.6	-	-	-0.654	9(2D)2F302	-0.365	9(2D)2F298	0.293	9(2F)2G274	-0.227	9(2D)2G282
316	-	173144.3	-	-	-0.558	10(2G2G375)	-0.378	10(2F2F396)	0.289	10(2F2F395)	0.254	10(2I2G369)
317	-	173246.3	-	-	0.773	9(2G)4G222	0.336	9(2H)4F236	0.164	9(4F)4F231	0.162	9(2F)4G223
318	-	173578.2	-	-	0.596	10(2F2F396)	-0.314	10(2G2F395)	-0.288	10(2F2F395)	-0.238	10(2F2F393)
319	-	174018.7	-	-	-0.576	9(2F)2F294	0.366	9(2G)2G273	0.317	9(2D)2F302	0.289	9(2F)2G274
320	-	174087.8	-	-	0.573	9(2F)2F294	0.570	9(2F)2G274	-0.274	9(2F)2G275	-0.219	9(2F)2F295
321	-	174397.8	-	-	0.387	10(2F2F395)	0.369	10(2G2G376)	0.344	10(2F2F397)	0.317	10(2G2G375)
322	-	174638.8	-	-	0.706	9(2G)2G273	0.315	9(2G)2G272	0.280	9(2F)2F294	-0.267	9(2F)2G277
323	-	174806.9	-	-	-0.495	10(2F2F395)	-0.413	10(2F2F397)	-0.343	10(2F2F396)	0.274	10(2H2G370)
324	-	174834.1	-	-	0.910	9(2F)4G224	-0.157	9(2H)4G220	-0.144	9(2F)2G274	0.143	9(2F)2F294
325	-	175153.9	-	-	-0.952	9(2F)4H205	0.156	9(4F)4H205	-0.134	9(4F)4H206	-0.102	9(2H)2G269
326	-	175410.9	-	-	0.643	9(2F)4F240	-0.468	9(2G)2F293	0.297	9(2H)2F289	-0.282	9(2F)2F297
327	-	175463.9	-	-	-0.984	8(2F)2F181	0.122	8(2F)2F182	-0.086	8(4F)4F164	0.079	8(2D)4D171
328	-	175507.5	-	-	-0.659	9(2F)4F240	-0.437	9(2G)2F293	0.309	9(2H)2F289	-0.307	9(2F)2F297
329	-	175996.2	-	-	0.645	10(2F2G380)	0.475	10(2H2G370)	-0.334	10(2G2G376)	0.264	10(2G2G375)
330	-	176092.2	-	-	-0.803	9(4F)2G264	0.312	9(2H)2G269	-0.218	9(2H)2G268	-0.185	9(2G)2F293
331	-	176178.3	-	-	-0.917	9(2F)4D257	0.214	9(4F)4F230	-0.195	9(2S)4D262	0.145	9(2G)4D255
332	-	176697.4	-	-	-0.850	9(4F)4F230	0.294	9(2H)2G269	0.224	9(4F)4G215	-0.199	9(2F)4D257
333	-	176907.1	-	-	0.527	9(2H)2G269	-0.456	9(4F)4H205	0.408	9(4F)4G215	0.366	9(4F)4F230
334	-	176941.1	-	-	-0.846	9(4F)4H205	-0.275	9(4F)4G215	-0.235	9(2H)2G269	-0.218	9(4F)4F230
335	-	176990.0	-	-	0.804	9(4F)4G215	-0.423	9(2H)2G269	-0.205	9(4F)2G264	0.195	9(2F)2G274
336	-	177132.0	-	-	-0.939	10(4F4F342)	0.168	10(2F4F349)	0.160	10(4D4F344)	-0.160	

349	-	181492.6	-	-	-0.744	10(2G2G377	-0.484	10(2H2G371	-0.273	10(2D2G383	0.224	10(2G2G376
350	-	181533.1	-	-	0.605	9(2F)2F297	-0.582	9(2G)2F297	-0.252	9(2G)2G272	0.195	9(2F)2F296
351	-	182732.2	-	-	0.934	9(2F)2G276	-0.212	9(2F)2G277	-0.145	9(2H)2G268	0.094	9(4F)2G264
352	-	182859.8	-	-	0.936	10(2D4F351	-0.212	10(2D4D364	0.184	10(2G4F347	0.142	10(2G4F346
353	-	183416.2	-	-	0.908	9(2F)2F296	-0.202	9(2G)2F293	0.194	9(2G)2F292	-0.193	9(2F)2F297
354	-	183752.9	-	-	-0.768	10(2F2F398	-0.324	10(2D2F402	-0.281	10(2D2F401	0.247	10(2H2F388
355	-	183934.3	-	-	-0.915	10(2D4D364	-0.214	10(2F2F398	-0.204	10(2D4F351	-0.148	10(2F4D362
356	-	186585.4	-	-	-0.819	10(2D2F401	0.353	10(2D2F402	0.224	10(2G2F389	-0.168	10(2G2F391
357	-	186798.8	-	-	0.991	9(2D)4G226	0.087	9(2D)4F242	-0.057	9(2G)4G221	0.042	9(2F)4G224
358	-	186974.7	-	-	0.989	9(2D)4F242	-0.084	9(2D)4G226	0.053	9(2H)4E236	0.046	9(2D)4D259
359	-	187282.0	-	-	-0.985	9(2D)4D259	0.088	9(2G)4D254	-0.078	9(2F)2F296	-0.075	9(2S)4D262
360	-	187607.9	-	-	-0.872	7(1D)2F153	-0.489	7(1D)2F152				
361	-	188015.4	-	-	0.870	7(1D)2G141	0.491	7(1D)2G140				
362	-	188382.1	-	-	-0.999	8(2G)4G162						
363	-	189075.6	-	-	-0.842	10(2D2G383	-0.344	10(2G2G372	0.275	10(2G2G377	0.144	10(2G2G376
364	-	189839.8	-	-	-0.931	9(2D)2G281	-0.313	9(2D)2G280	-0.130	9(2G)2G271	-0.069	9(2D)2G270
365	-	189899.0	-	-	0.969	10(2G4H325	-0.176	10(2G4G334	-0.116	10(2I4H323	-0.081	10(2D2G383
366	-	190301.7	-	-	0.992	8(2G)2G175	0.120	8(2G)2G174				
367	-	190455.2	-	-	-0.930	9(2D)2F301	-0.300	9(2D)2F300	0.135	9(2F)2F297	0.084	9(2F)2F296
368	-	190636.7	-	-	0.816	10(2D2F402	-0.377	10(2F2F398	0.311	10(2D2F401	-0.155	10(2G2F392
369	-	190960.1	-	-	-0.811	10(2G4G334	0.517	10(2G4H325	-0.171	10(2G4H325	-0.100	10(2D4F350
370	-	191582.2	-	-	-0.804	10(2G4F346	-0.532	10(2G4G334	0.159	10(2D4F350	0.103	10(2D4F351
371	-	194569.2	-	-	-0.937	9(2D)2G280	0.326	9(2D)2G281	-0.085	9(2G)2G271	-0.036	9(2D)2G276
372	-	194768.7	-	-	0.946	9(2D)2F300	-0.306	9(2D)2F301	0.041	9(2H)2F288	0.040	9(4F)2F285
373	-	194820.8	-	-	-0.991	9(2G)4G221	0.085	9(2G)4H209	-0.057	9(2D)4G226	-0.040	9(2D)4G225
374	-	194919.0	-	-	0.995	9(2G)4H209	0.085	9(2G)4G221	0.032	9(2F)2G276		
375	-	195053.4	-	-	-0.994	9(2G)4D254	-0.087	9(2D)4D259	-0.031	9(2P)4D261		
376	-	195186.9	-	-	0.891	10(2G2F389	-0.204	10(2G2F390	-0.191	10(2G2G372	-0.168	10(2D2F399
377	-	195244.5	-	-	-0.993	8(2G)2G174	0.120	8(2G)2G175				
378	-	196237.1	-	-	-0.898	10(2G2G372	0.315	10(2D2G383	-0.163	10(2G2F389	0.158	10(2G2F390
379	-	196364.6	-	-	-0.992	9(2G)4F237	-0.078	9(4F)4F231	0.059	9(2P)4F244	0.041	9(2F)4F240
380	-	196907.0	-	-	-0.920	9(2G)2F291	-0.385	9(2G)2F290	-0.041	9(2D)2F299		
381	-	197680.6	-	-	-0.933	10(2G2G373	-0.211	10(2D2G382	-0.198	10(2G2G377	-0.086	10(2G2G374
382	-	198358.0	-	-	0.912	10(2G2F390	0.222	10(2G2F389	0.202	10(2D2F401	0.154	10(2D2F400
383	-	200202.4	-	-	-0.971	9(2G)2G271	-0.140	9(2G)2G270	0.116	9(2D)2G280	0.097	9(2D)2G281
384	-	202777.8	-	-	-0.984	9(2G)2G270	0.148	9(2G)2G271	0.058	9(2D)2G281	0.033	9(2H)2G269
385	-	203992.5	-	-	0.940	10(2G2G374	0.222	10(2D2G382	-0.148	10(2G2G373	0.120	10(2G2G376
386	-	204102.0	-	-	-0.915	9(2G)2F290	0.381	9(2G)2F291	-0.088	9(4F)2F285	0.048	9(2P)2F304
387	-	205902.8	-	-	0.931	10(2P4D366	-0.305	10(2D4D363	0.146	10(2D4D365	-0.085	10(2F4D362
388	-	210387.8	-	-	-0.994	9(2P)4D261	0.087	9(2D)4D258	-0.042	9(2D)4D260		
389	-	210832.0	-	-	0.995	9(2P)4F244	0.057	9(2G)4F237	0.046	9(2D)4F241	0.037	9(2D)4G225
390	-	211221.3	-	-	0.874	10(2P2F405	0.349	10(2D2F400	0.160	10(2D2F399	-0.159	10(2D2F404
391	-	211442.7	-	-	-0.872	8(2D)4D170	0.489	8(2D)4D172				
392	-	213442.5	-	-	0.932	9(2P)2F305	0.326	9(2P)2F304	0.106	9(2D)2F299	-0.060	9(2D)2F303
393	-	214282.2	-	-	0.632	10(2D4D363	-0.519	10(2D4F350	-0.363	10(2D4D365	0.293	10(2D4F352
394	-	214563.2	-	-	-0.674	10(2D4F350	-0.503	10(2D4D363	0.382	10(2D4F352	0.287	10(2D4D365
395	-	217581.1	-	-	0.856	9(2D)4G225	-0.481	9(2D)4G227	0.136	9(2P)2F304	-0.093	9(2P)2F305
396	-	217716.5	-	-	0.863	9(2D)4D258	-0.487	9(2D)4D261	0.094	9(2D)4G261	-0.061	9(2D)4G225
397	-	218038.6	-	-	0.813	10(2D2F399	-0.464	10(2D2F403	-0.248	10(2P2F405	0.183	10(2G2F389
398	-	218539.5	-	-	0.744	9(2P)2F304	0.510	9(2D)4F241	-0.284	9(2D)4F243	-0.268	9(2P)2F305
399	-	218786.6	-	-	-0.706	9(2D)4F241	0.547	9(2P)2F304	0.392	9(2D)4F243	-0.164	9(2P)2F305
400	-	220425.5	-	-	0.803	9(2D)2F299	-0.454	9(2D)2F303	0.310	9(2D)2F298	-0.177	9(2D)2F302
401	-	221363.3	-	-	-0.805	10(2D2G382	0.463	10(2D2G384	0.258	10(2G2G374	0.181	10(2G2G373
402	-	221480.6	-	-	-0.830	9(2D)2G279	0.463	9(2D)2G283	-0.249	9(2D)2G278	0.138	9(2D)2G282
403	-	222833.7	-	-	0.761	10(2D2F400	-0.438	10(2D2F404	-0.357	10(2P2F405	-0.185	10(2D2F399
404	-	225423.8	-	-	-0.834	9(2D)2G278	0.468	9(2D)2G282	0.246	9(2D)2G279	-0.139	9(2D)2G283

J 4.5 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2
 1 2 3 4 5 6 7 8 9 10

OBSERVED ENERGY	EIGENVALUE	E-0	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS																
1	0.000	-7.1	D6S (5D)6D	0.999	2(5D)6D	4														
2	1872.567	1741.7	D7 (5D)4F	0.998	1(4F)4F	1	0.042	1(2G)2G	3	0.030	3(4F)4F	14								
3	15844.650	15765.6	-79.0	D7 (5D)2G	-0.991	1(2G)2G	3	-0.115	1(2H)2H	2	-0.043	2(3G)2G	10	0.042	1(4F)4F	1				
4	20805.770	21055.9	250.1	D7 (5D)2H	-0.989	1(2H)2H	2	0.115	1(2G)2G	3	0.077	2(3H)2H	9	-0.038	3(2H)2H	15				
5	21581.638	21667.9	86.3	D6S (3H)4H	-0.987	2(3H)4H	5	-0.129	2(3G)4G	6	0.069	2(3F)4F	6	-0.039	2(3F)4F	7				
6	22637.205	22706.6	69.4	D6S (3F)4F	-0.862	2(3F)4F	8	0.462	2(3G)4G	7	0.154	2(3G)4G	8	-0.101	2(3H)4H	5				
7	25805.328	25653.3	-152.0	D6S (3G)4G	-0.967	2(3G)4G	6	-0.154	2(3F)4F	8	0.154	2(3H)2H	9	0.112	2(3H)4H	5				
8	26352.766	26481.8	129.1	D6S (3H)2H	-0.973	2(3H)2H	9	-0.151	2(3G)4G	6	-0.128	2(3G)2G	10	-0.076	1(2H)2H	2				
9	30388.542	30240.4	-148.2	D6S (3G)2G	0.989	2(3G)2G	10	-0.127	2(3H)2H	9	-0.043	1(2G)2G	3	-0.042	2(3F)4F	8				
10	33466.463	32957.1	-509.4	D6S (1G)2G	-0.805	2(1G)2G	12	0.580	2(1G)2G	11	0.086	2(3H)2H	9	0.068	2(3F)4F	8				
11	50157.452	50089.6	-67.9	D6S (3F)4F	-0.882	2(3F)4F	7	-0.469	2(3F)4F	8	0.037	2(1G)2G	11							
12	54273.641	54323.5	49.9	D5S2 (7S)4G	1.000	3(4G)4G	13													
13	58631.531	58723.7	92.2	D6S (1G)2G	-0.810	2(1G)2G	11	-0.584	2(1G)2G	12	-0.031	2(3F)4F	7							
14	73393.745	73255.3	-138.5	D5S2 (7S)4F	0.991	3(4F)4F	14	-0.124	3(2G)2G	17										
15	77230.900	77154.2	-76.7	D5S2 (7S)2H	0.895	3(2H)2H	15	0.440	3(2G)2G	17	0.069	3(4F)4F	14	-0.034	1(2H)2H	2				
16	77861.625	77847.7	-13.9	5S (5D)6D	0.999	4(5D)6D	18	-0.031	4(3F)4F	22										
17	78577.280	78582.8	5.5	D5S2 (7S)2G	0.889	3(2G)2G	17	-0.445	3(2H)2H	15	0.104	3(4F)4F	14							
18	82978.677	82998.0	19.4	4D (5D)6F	-0.925	6(5D)6F	37	0.357	6(5D)6D	38	0.124	6(5D)6G	36	-0.033	6(5D)4F	51				
19	83726.364	83701.8	-24.6	4D (5D)6D	0.932	6(5D)6D	38	0.347	6(5D)6F	37	-0.089	6(5D)6G	36	0.041	6(5D)4F	51				
20	84527.778	84427.1	-100.7	4D (5D)6G	0.975	6(5D)6G	36	0.160	6(5D)4G	45	0.146	6(5D)6F	37	0.040	6(5D)6D	38				
21	85184.734	85188.5	3.8	4D (5D)4G	0.966	6(5D)4G	45	-0.197	6(5D)4F	51	-0.159	6(5D)6G	36							
22	86124.301	86158.7	34.4	4D (5D)4F	-0.963	6(5D)4F	51	-0.201	6(5D)4G	45	0.120	6(3H)4F	52	0.082	6(3G)4F	53				
23	98445.400	98443.5	-1.9	5S (3H)4H	-0.986	4(3H)4H	19	-0.113	4(3G)4G	20	-0.076	4(3H)2H	23	0.057	4(3F)4F	22				
24	99332.102	99333.2	1.1	5S (3H)2H	-0.833	4(3H)2H	23	-0.452	4(3F)4F	22	0.250	4(3F)4F	21	-0.127	4(3G)2G	24				
25	99573.225	99573.8	0.6	5S (3F)4F	-0.731	4(3F)4F	22	0.531	4(3H)2H	23	0.401	4(3F)4F	21	-0.109</						

37	-	104803.7	-	-	0.856	6(3H)2G	67	-0.297	6(3F)2G	70	-0.213	6(3F)4F	55	0.190	6(3F)2G	69
38	104868.500	104833.8	-34.7	5D (5D)6G	0.933	7(5D)6G	78	0.282	7(5D)4G	87	0.204	7(5D)6F	79	0.077	7(5D)6D	80
39	105155.090	105156.3	1.3	4D (3F)4G	-0.762	6(3F)4G	49	0.452	6(3F)4G	48	0.277	6(3H)4G	46	0.236	6(3F)4H	44
40	105211.140	105204.7	-6.4	5D (5D)4G	0.923	7(5D)4G	87	-0.282	7(5D)6G	78	-0.253	7(5D)4F	93	-0.045	7(5D)6F	79
41	105524.461	105503.7	-20.8	4D (3F)4H	-0.812	6(3F)4H	44	0.447	6(3F)4H	43	-0.244	6(3F)4G	49	0.152	6(3H)4H	41
42	-	105843.2	-	-	-0.958	7(5D)4F	93	-0.258	7(5D)4G	87	0.068	7(3H)4F	94	0.065	7(5D)6F	79
43	-	106073.6	-	-	0.849	6(3F)2H	62	-0.466	6(3F)2H	61	-0.116	6(3F)4H	44	0.108	6(3G)2H	60
44	-	106215.1	-	-	-0.739	6(3H)2H	59	0.407	6(3F)2G	70	-0.262	6(3G)2H	60	-0.239	6(3F)2G	69
45	-	106666.1	-	-	-0.584	6(3F)4F	55	0.541	6(3F)4F	52	-0.349	6(3G)4F	53	0.318	6(3F)4F	54
46	-	107101.6	-	-	0.610	6(3F)2G	70	0.480	6(3H)2H	59	-0.339	6(3F)2G	69	0.329	6(3F)2G	67
47	107219.500	107219.5	0.0	4P2(7P)8P	0.999	10(6S8P240		-0.042	10(6S6D247							
48	-	108394.0	-	-	0.798	4(1G)2G	26	-0.592	4(1G)2G	25	-0.077	4(3F)4F	22	-0.062	4(3H)2H	23
49	-	109091.7	-	-	-0.857	6(3G)4G	47	0.441	6(3G)4H	42	0.127	6(3H)4G	46	-0.116	6(3F)4F	55
50	-	109257.7	-	-	-0.873	6(3G)4H	42	-0.439	6(3G)4G	47	-0.083	6(3F)4G	49	0.070	6(3F)4H	44
51	109473.650	109495.6	21.9	4SD(7S)8D	1.000	9(6S)8D140										
52	-	109533.2	-	-	0.983	6(3G)4I	40	0.126	6(3H)4I	39	0.086	6(3F)4H	44	0.077	6(3F)2H	62
53	-	110293.8	-	-	0.776	6(3G)2G	68	-0.475	6(3G)2H	60	-0.215	6(1G)2G	74	0.176	6(1I)2G	72
54	-	110630.4	-	-	0.763	6(3G)2H	60	0.429	6(3G)2G	68	0.178	6(1I)2H	63	-0.176	6(1G)2G	74
55	-	111102.4	-	-	-0.915	6(3G)4F	53	-0.249	6(3H)4F	52	0.315	6(3F)4F	55	-0.128	6(5D)4F	51
56	-	113270.1	-	-	-0.776	6(1G)2H	65	0.589	6(1G)2H	64	0.178	6(1I)2H	63	-0.073	6(3H)4I	39
57	-	113764.7	-	-	0.749	6(1I)2G	72	0.507	6(1G)2G	74	-0.408	6(1I)2G	73	0.070	6(3G)2G	68
58	-	113928.2	-	-	-0.992	9(6S)6D152		-0.100	9(6S)6D151		0.061	9(4G)6D153		0.035	9(4D)6D155	
59	-	115475.3	-	-	0.631	6(3D)2G	71	0.443	6(1I)2G	72	-0.402	6(1G)2G	74	0.305	6(1G)2G	73
60	-	116237.8	-	-	-0.980	6(3D)4G	50	-0.111	6(3D)4F	56	0.096	6(3G)4G	47	-0.062	6(3D)2G	71
61	-	116653.0	-	-	-0.987	6(3D)4F	56	0.113	6(3D)4G	50	-0.067	6(3H)4F	52	-0.046	6(3G)4F	53
62	-	117361.8	-	-	0.866	6(1I)2H	63	0.315	6(3H)2H	59	-0.279	6(3G)2H	60	0.146	6(1G)2H	65
63	-	117903.0	-	-	-0.993	10(6S6D247		0.094	10(4D6D249		0.046	10(4P6D250		-0.044	10(6S8P240	
64	-	118995.6	-	-	-0.730	6(3D)2G	71	0.369	6(1I)2G	72	-0.296	6(1G)2G	74	-0.271	6(1D)2G	76
65	-	121914.3	-	-	0.816	6(1D)2G	76	-0.458	6(1D)2G	77	-0.188	6(3D)2G	71	0.159	6(1I)2G	72
66	-	122086.6	-	-	-0.975	5(3H)4H	28	-0.176	5(3H)2H	32	-0.104	5(3G)4G	29	-0.057	5(3G)2G	33
67	-	122497.2	-	-	0.964	5(3H)2H	32	-0.162	5(3H)4H	28	0.131	5(3F)4F	31	0.108	5(3G)2G	33
68	-	123179.0	-	-	-0.850	5(3F)4F	31	0.467	5(3F)4F	30	0.158	5(3H)2H	32	0.124	5(3G)4G	29
69	-	123464.6	-	-	0.722	7(3P)4F100		-0.617	7(3P)4F	99	-0.306	7(3H)4F	94	-0.036	7(3G)4F	95
70	-	124410.1	-	-	-0.929	7(3H)4G	88	0.234	7(3H)4H	83	-0.143	7(3H)2G109		0.135	7(3H)4F	94
71	-	124476.1	-	-	-0.926	7(3H)4H	83	0.255	7(3H)4I	81	-0.209	7(3H)4G	88	-0.090	7(3G)4G	89
72	-	124620.5	-	-	-0.951	7(3H)4I	81	-0.250	7(3H)4H	83	0.086	7(3G)4I	82	-0.059	7(3F)4H	86
73	-	124878.6	-	-	-0.673	7(3H)4F	94	-0.567	7(3H)2G109		-0.302	7(3F)4F	97	0.174	7(3F)4G	96
74	-	124996.8	-	-	-0.737	7(3H)2G109		0.449	7(3H)4F	94	0.285	7(3F)4F	97	0.226	7(3H)4G	88
75	-	125672.0	-	-	0.796	7(3F)4G	91	-0.461	7(3F)4G	90	-0.236	7(3F)4H	86	-0.151	7(3H)4G	88
76	-	125931.1	-	-	-0.804	7(3F)4H	86	0.444	7(3F)4H	85	-0.219	7(3F)4G	91	-0.193	7(3F)2H104	
77	-	126072.5	-	-	-0.861	7(3H)2H101		0.220	7(3F)2G112		0.206	7(3F)2H104		-0.162	7(3F)2H102	
78	-	126277.6	-	-	-0.801	7(3F)2H104		0.444	7(3F)2H103		0.193	7(3F)2G112		0.166	7(3F)4H	86
79	-	126378.6	-	-	-0.850	5(3G)4G	29	-0.507	5(3G)2G	33	0.110	5(3H)4H	28	-0.076	5(3F)4F	31
80	-	126406.9	-	-	0.731	7(3F)4F	97	-0.437	7(3H)4F	94	-0.409	7(3F)4F	96	-0.176	7(3H)2H101	
81	-	126757.7	-	-	0.851	5(3G)2G	33	-0.495	5(3G)4G	29	-0.126	5(3F)4F	31	-0.107	5(3H)2H	32
82	-	126872.4	-	-	0.734	7(3F)2G112		-0.420	7(3F)2G111		0.321	7(3H)2H101		0.288	7(3H)2G109	
83	-	128622.3	-	-	0.877	4(3F)4F	21	0.478	4(3F)4F	22	-0.041	4(1G)2G	25			
84	-	129252.9	-	-	0.985	6(1F)2H	66	-0.114	6(3F)2H	61	0.058	6(3H)2H	59	0.055	6(1I)2H	63
85	-	129529.5	-	-	-0.876	7(3G)4G	89	0.422	7(3G)4H	84	-0.132	7(3G)2G110		-0.091	7(3F)4F	97
86	-	129712.0	-	-	-0.879	7(3G)4H	84	-0.429	7(3G)4G	89	-0.106	7(3G)2H102		-0.076	7(3G)2H102	
87	-	129815.3	-	-	0.994	9(6S)6D151		-0.101	9(6S)6D152							
88	-	129903.3	-	-	-0.989	7(3G)4I	82	-0.076	7(3H)4I	81	-0.072	7(3F)4H	86	-0.067	7(3F)2H104	
89	-	130041.7	-	-	0.995	6(1F)2G	75	-0.045	6(3F)4G	48	-0.042	6(1D)2G	76	0.037	6(3F)2G	69
90	-	130295.4	-	-	0.702	7(3G)2G110		-0.472	7(3G)2H102		0.448	7(3G)4F	95	0.136	7(3G)4H	84
91	-	130379.2	-	-	0.865	7(3G)4F	95	0.328	7(3G)2H102		-0.315	7(3G)2G110		0.102	7(3H)4F	94
92	-	130634.3	-	-	-0.759	7(3G)2H102		-0.542	7(3G)2G110		-0.180	7(1I)2H105		0.138	7(3F)2H101	
93	-	131854.6	-	-	0.798	5(1G)2G	35	-0.592	5(1G)2G	34	-0.077	5(3F)4F	31	-0.058	5(3H)2H	32
94	-	133702.7	-	-	0.777	7(1G)2H105		-0.596	7(1G)2H106		-0.162	7(1I)2H105		0.063	7(3H)4I	81
95	-	134090.4	-	-	0.625	7(1I)2G114		0.604	7(1G)2G116		-0.477	7(1G)2G115		0.072	7(3G)2G110	
96	-	135142.5	-	-	-0.707	7(1I)2G114		0.415	7(1G)2G116		-0.371	7(3D)2G113		-0.317	7(1G)2G115	
97	-	135944.0	-	-	0.935	7(1I)2H105		0.190	7(3H)2H101		-0.181	7(3G)2H102		0.131	7(1G)2H107	
98	-	135994.4	-	-	0.801	4(1G)2G	25	0.596	4(1G)2G	26	0.037	4(3F)4F	21	0.030	4(3F)4F	22
99	-	136682.5	-	-	-0.983	7(3D)4G	92	-0.150	7(3D)4F	98	-0.059	7(1D)2G118		0.055	7(3G)4G	89
100	-	136940.1	-	-	0.986	7(3D)4F	98	-0.151	7(3D)4G	92	0.030	7(3H)4F	94			
101	-	137418.2	-	-	-0.876	6(3F)4H	43	-0.475	6(3F)4H	44	-0.051	6(1F)2H	66	0.039	6(3F)2H	61
102	-	137712.3	-	-	0.999	8(4G)6G120										
103	-	137878.8	-	-	0.922	7(3D)2G113		-0.264	7(1I)2G114		0.182	7(1G)2G116		-0.147	7(1G)2G115	
104	-	137882.1	-	-	-0.587	6(3F)4F	54	-0.562	6(3P)4F	57	-0.481	6(3P)4F	58	-0.324	6(3F)4F	55
105	-	138531.2	-	-	-0.859	6(3F)4G	48	-0.498	6(3F)4G	49	0.072	6(3F)2H	61	-0.050	6(1F)2G	75
106	-	139096.0	-	-	-0.836	6(3F)2H	61	-0.465	6(3F)2H	62	0.156	6(3F)2G	69	-0.117	6(1F)2H	66
107	-	139304.8	-	-	-0.993	10(4G6G242		0.077	10(4G6G242		-0.045	10(4G6F244		-0.035	10(4G4H254	
108	-	139359.8	-	-	-0.848	6(3F)2G	69	-0.495	6(3F)2G	70	-0.161	6(3F)2H	61	-0.087	6(3F)2H	62
109	-	139804.8	-	-	-0.644	6(3F)4F	54	0.113	6(3P)4F	57	0.433	6(3P)4F	58	-0.362	6(3F)4F	55
110	-	139962.3	-	-	-0.968	10(4G6F244		0.166	10(4F6F245		0.148	10(4G6F242		-0.068	10(4D6F246	
111	-	140149.3	-	-	0.998	8(4G)4G126		0.061	8(4G)4G125							
112	-	141927.8	-	-	0.863	7(1D)2G118		-0.486	7(1D)2G119		-0.068	7(3D)4G	92	0.051	7(1I)2G114	
113	-	142077.6	-	-	0.978	10(4G6G242		0.150	10(4G6F244		0.103	10(4F6G243		0.067	10(4G6H241	
114	-	143763.8	-	-	0.994	9(4G)6H142		-0.083	9(4G)6I141		-0.052	9(4F)6H143				
115	-	143764.2	-	-	0.965	10(4P6D250		0.178	10(4D6F246		0.138	10(4D6D249		-0.063	10(4P4F279	
116	-	143795.5	-	-	0.999	8(4D)6D122		0.039	8(4F)6F121							

137	-	149737.1	-	-	0.759	10(4G4H255	0.498	10(4G4H254	0.280	10(4G2H287	-0.237	10(4G4G262
138	-	149943.5	-	-	-0.893	10(4G4G262	0.202	10(4P4F279	0.190	10(4G4G261	-0.163	10(4G4H255
139	-	150026.9	-	-	0.936	9(4D)6G146	0.259	9(4D)6F149	0.151	9(4P)4F195	-0.139	9(4P)6F150
140	-	150135.2	-	-	0.997	7(1F)2G117	-0.039	7(3F)4G 90				
141	-	150225.6	-	-	0.747	10(4P4F279	-0.297	10(4D4F278	0.272	10(4G4F273	0.270	10(4D4F277
142	-	150242.0	-	-	-0.921	9(4D)6F149	0.261	9(4D)6G146	-0.169	9(4P)6F150	0.164	9(4P)6D156
143	-	150638.8	-	-	0.923	10(4G2H287	-0.224	10(4G4H255	-0.174	10(4G4H254	0.141	10(4G4I251
144	-	150850.8	-	-	0.907	9(4P)4F195	0.187	9(4D)4F193	-0.182	9(4G)4F189	-0.176	9(4D)6F149
145	-	150852.5	-	-	0.997	8(4G)4G125	-0.062	8(4G)4G126	-0.038	8(2F)4F131		
146	-	150943.6	-	-	0.635	10(4G4F272	-0.558	10(4G4F273	0.429	10(4D4F277	0.181	10(4P4F279
147	-	151287.8	-	-	-0.999	8(4G)2G135						
148	-	151814.6	-	-	0.944	9(4D)6D155	0.308	9(4G)6D153	0.076	9(4P)6D156	0.053	9(6S)6D152
149	-	152271.4	-	-	0.877	5(3F)4F 30	0.478	5(3F)4F 31	-0.041	5(1G)2G 34		
150	-	152977.7	-	-	-0.710	10(4D4F277	-0.393	10(4G4F278	-0.364	10(4D4F278	0.236	10(4P4F279
151	-	153233.9	-	-	0.742	10(4D4G266	-0.397	10(4G4G263	-0.284	10(4F4G265	-0.248	10(4P4F279
152	-	153704.4	-	-	-0.903	9(4D)4F193	0.320	9(4D)4G178	-0.159	9(4G)4F189	-0.138	9(4D)4F192
153	-	153985.5	-	-	0.895	9(4D)4G178	0.295	9(4D)4F193	-0.192	9(4P)4F195	0.136	9(4D)4G177
154	-	155024.3	-	-	0.745	10(4D4F278	0.396	10(4P4F279	-0.303	10(4D4F277	0.263	10(4G4G263
155	-	155452.6	-	-	0.997	8(2I)4I123	0.049	8(2H)4H124	0.039	8(2H)2H133	0.034	8(2H)2H134
156	-	155636.8	-	-	-0.772	10(4G4G263	-0.461	10(4D4G266	0.284	10(4D4F278	0.174	10(4P4F279
157	-	156437.7	-	-	0.997	8(4F)6E121	-0.047	8(2G)4G128	-0.043	8(2F)4F132	-0.038	8(4D)6D122
158	-	157803.4	-	-	0.920	9(4G)2G219	0.313	9(4G)4H163	0.138	9(4D)2G221	-0.133	9(4G)4F188
159	-	157851.1	-	-	-0.872	10(2I4H257	0.362	10(2I4I252	0.203	10(2H4H258	0.135	10(2G4H260
160	-	157875.7	-	-	0.928	9(4G)4H163	-0.304	9(4G)2G219	-0.140	9(4G)4H164	-0.092	9(4G)4I157
161	-	158040.7	-	-	0.978	9(4G)4I157	-0.158	9(4G)4I158	0.089	9(4G)4H163	0.072	9(4G)2H205
162	-	158064.6	-	-	-0.975	9(4G)4F188	-0.146	9(4G)2G219	0.141	9(4G)4F189	-0.045	9(4F)4F190
163	-	158079.6	-	-	-0.874	7(3F)4H 85	-0.480	7(3F)4H 86	0.046	7(3F)2H103	-0.043	7(1F)2H108
164	-	158143.6	-	-	0.983	9(4G)4G173	-0.152	9(4G)4G174	-0.047	9(4G)2H205	-0.045	9(4G)2G219
165	-	158515.1	-	-	0.688	7(3F)4F 96	0.465	7(3P)4F 99	0.399	7(3P)4F100	0.385	7(3F)4F 97
166	-	158698.1	-	-	0.971	9(4G)2H205	0.147	9(2I)2H208	-0.120	9(2I)2H208	-0.071	9(4G)4I157
167	-	158705.7	-	-	-0.913	10(2I4I252	-0.349	10(2I4H257	0.133	10(4G4I251	-0.081	10(4F6G243
168	-	158727.1	-	-	0.860	7(3F)4G 90	0.492	7(3F)4G 91	-0.093	7(3F)2H103	-0.051	7(3F)2H104
169	-	158824.4	-	-	0.970	10(4F6G243	-0.159	10(4F6F245	-0.097	10(4G6G242	-0.070	10(2I4I252
170	-	158852.3	-	-	-0.994	8(4F)4F130	0.066	8(2G)2G139	-0.061	8(4F)4F129	0.030	8(2G)4G128
171	-	158984.7	-	-	-0.857	7(3F)2H103	-0.476	7(3F)2H104	-0.094	7(3F)4G 90	0.081	7(3F)2G111
172	-	159166.1	-	-	0.862	7(3F)2G111	0.495	7(3F)2G112	0.084	7(3F)2H103	0.044	7(3F)2H104
173	-	159460.7	-	-	0.801	5(1G)2G 34	0.596	5(1G)2G 35	0.037	5(3F)4F 30		
174	-	159654.1	-	-	0.601	7(3P)4F 99	-0.532	7(3F)4F 96	0.512	7(3P)4F100	-0.302	7(3F)4F 97
175	-	159711.7	-	-	-0.996	8(2F)4F131	-0.043	8(2G)4G128	-0.039	8(4G)4G125	0.030	8(4D)6D122
176	-	160439.5	-	-	-0.542	10(2F4G270	0.490	10(2D4F286	-0.336	10(4F6F245	0.276	10(2D4F284
177	-	160639.3	-	-	0.822	10(4F6D248	-0.333	10(2I2H288	-0.222	10(2I2H289	0.219	10(4D6D249
178	-	160711.1	-	-	0.614	10(2I2H288	0.411	10(4F6D248	0.409	10(2I2H289	0.250	10(2G2H295
179	-	160864.0	-	-	0.957	9(4P)4F194	0.163	9(4D)4G177	-0.147	9(4P)4F195	-0.087	9(4D)2G221
180	-	160887.6	-	-	0.841	10(4F6F245	-0.306	10(2F4G270	0.191	10(2D4F286	0.169	10(4F6D248
181	-	161372.0	-	-	0.996	9(2I)4I159	0.043	9(2H)4H168	0.037	9(2H)2H209	-0.035	9(2H)4I160
182	-	161541.5	-	-	-0.582	10(2F4G270	-0.517	10(2D4F286	-0.289	10(2D4F284	-0.274	10(2F2G310
183	-	162477.5	-	-	-0.819	9(2I)4G179	0.400	9(4F)6F148	-0.222	9(4F)6H143	-0.177	9(4F)6G145
184	-	162523.0	-	-	0.904	10(2F4F282	0.198	10(2F4F283	0.125	10(4G4F273	-0.124	10(4G4F272
185	-	162559.0	-	-	0.880	9(4F)6F148	0.312	9(4F)6H143	0.267	9(2I)4G179	0.126	9(4F)6G145
186	-	162632.6	-	-	0.831	9(4F)6H143	-0.387	9(2I)4G179	0.283	9(4F)6G145	-0.221	9(4F)6F148
187	-	162796.2	-	-	0.921	9(4F)6G145	-0.351	9(4F)6H143	-0.090	9(2I)4G179	0.076	9(4D)6G146
188	-	163229.3	-	-	0.600	10(2F2G310	-0.379	10(2D2G316	-0.346	10(2F2G311	-0.280	10(2D4F286
189	-	163417.0	-	-	-0.904	9(2I)4H167	0.252	9(4F)4H166	0.185	9(2F)4H171	0.154	9(4D)2G221
190	-	163817.8	-	-	0.957	8(2H)4H124	0.275	8(2G)4G128	0.047	8(2G)2G139	-0.046	8(2I)4I123
191	-	163865.0	-	-	0.886	9(4D)2G221	0.234	9(4D)4G177	-0.192	9(2I)2G223	0.178	9(2I)4H167
192	-	163938.6	-	-	-0.772	10(2I2G301	-0.358	10(2G2G307	0.342	10(2H2G302	-0.160	10(2F2G310
193	-	163961.4	-	-	0.898	9(2I)2H208	0.390	9(2I)2H207	-0.148	9(4D)2G221	0.050	9(4G)2H205
194	-	164177.0	-	-	0.910	9(4D)4G177	-0.199	9(4D)2G221	0.182	9(4D)4F192	0.176	9(2D)4G187
195	-	164219.2	-	-	-0.888	9(4D)4F192	0.173	9(4D)4G177	-0.168	9(2D)4G187	-0.168	9(2D)4G183
196	-	164328.9	-	-	0.577	10(2H4G267	-0.434	10(2G4G269	0.309	10(2H4I253	-0.308	10(2F4G270
197	-	164358.1	-	-	-0.659	9(2D)4G187	-0.373	9(2D)4G185	0.342	9(2F)4H171	0.314	9(4D)4F192
198	-	164579.9	-	-	0.985	9(4F)6D154	-0.103	9(4D)4F192	0.061	9(4P)6D156	-0.058	9(2D)4F203
199	-	164581.4	-	-	-0.817	10(2H4I253	0.258	10(2H4G267	0.244	10(4F4G264	-0.166	10(2H2H290
200	-	164993.6	-	-	0.560	9(2I)2G223	0.477	9(2D)4F203	-0.312	9(2F)4G183	0.267	9(2D)4F201
201	-	165019.3	-	-	0.749	10(4F4G264	0.405	10(2G4G269	0.315	10(2H4I253	-0.164	10(4F4F274
202	-	165178.4	-	-	-0.934	8(2G)4G128	0.272	8(2H)4H124	0.199	8(2H)2H134	0.062	8(2G)2G139
203	-	165195.7	-	-	0.541	10(2F2H297	0.321	10(2H2H290	-0.279	10(2D2G316	-0.272	10(2H4I253
204	-	165274.5	-	-	0.641	9(2I)2G223	-0.480	9(2D)4F203	0.298	9(2F)4G183	-0.269	9(2D)4F201
205	-	165486.5	-	-	-0.786	7(1G)2G115	-0.615	7(1G)2G116	-0.034	7(3F)4F 96		
206	-	165649.6	-	-	0.593	10(2H4H258	0.509	10(2G4H260	-0.268	10(2I2H289	0.242	10(2H2H290
207	-	165749.0	-	-	-0.789	7(1G)2H106	-0.606	7(1G)2H107	0.070	7(3F)2H103	0.043	7(3F)2H104
208	-	165766.6	-	-	-0.730	9(4F)4G176	-0.488	9(2F)4G183	-0.346	9(2D)4F203	-0.195	9(2D)4F201
209	-	165795.9	-	-	-0.945	8(2H)2H134	-0.226	8(2G)2G139	-0.207	8(2G)4G128	-0.083	8(2H)2H133
210	-	165913.0	-	-	0.482	10(2I2H289	0.416	10(2G4H260	-0.327	10(2H2H290	-0.310	10(2D2G316
211	-	165974.0	-	-	0.627	9(4F)4H166	-0.590	9(2F)4H171	-0.315	9(2D)4G187	-0.173	9(2D)4G185
212	-	166197.1	-	-	-0.960	9(2F)4F199	-0.152	9(4F)4F191	-0.105	9(2G)4F198	-0.094	9(2H)4F196
213	-	166331.6	-	-	-0.534	10(4F4H256	0.440	10(2I2H289	-0.337	10(2G4H260	-0.331	10(2I2H288
214	-	166504.8	-	-	0.593	9(4F)4H166	0.501	9(2F)4H171	-0.316	9(4F)4G176	-0.239	9(2H)4H168
215	-	166666.9	-	-	0.620	10(4F4F274	-0.328	10(4F4H256	0.245	10(2H4H258	-0.241	10(2G4H260
216	-	166708.5	-	-	-0.569	10(4F4F274	-0.316	10(4F4H256	-0.295	10(2D2G316	-0.242	10(2I2H289
217	-	166887.3	-	-	-0.579	9(2F)4G183	0.439	9(4F)4G176	0.347	9(2F)4H171	0.257	9(2D)4G187
218	-	167083.9	-	-	-0.956	8(2G)2G139	0.217	8(2H)2H134	-0.122	8(2G)2G138	0.116	8(2H)2H133
219	-	167467.4	-	-	-0.650	10(2F2G311	0.432	10(4F2G300	-0.351	10(2F2G310	0.177	10(2H2G303
220	-	167610.8	-	-	-0.868	9(4F)4F191	0.378	9(2H)4F196	0.151	9(2D)2G239	-0.119	9(4F)4F190
221	-	167865.3	-	-	-0.869	6(1D)2G 77	-0.492	6(1D)2G 76	0.031	6(1G)2G 74		
222	-	167943.3	-	-	-0.629	9(2D)2G239	0.446	9(2F)2H216	-0.352	9(2D)2G235	0.305	9(2F)2G231
223	-	168126.5	-	-	0.779	10(2G4F281	-0.352	10(4F4F274	0.340	10(4F4F275	-0.173	10(2D4F285
224	-	168265.2	-	-	0.569	10(2F2H297	-0.460	10(2G2H295	0.326	10(2F2G311	-0.281	10(2H2H290
225	-	168539.9	-	-	0.972	8(2F)4F132	0					

237	-	170602.8	-	-	-0.843	9(2H)4G180	0.254	9(2I)2G222	0.233	9(2G)4G182	0.189	9(2I)2H207
238	-	170623.5	-	-	0.548	10(2H2H291)	0.362	10(2F2H298)	0.333	10(2F2G312)	0.330	10(2G2G308)
239	-	170851.3	-	-	0.986	8(2H)2H133	-0.113	8(2H)2H134	0.084	8(2G)2G139	0.071	8(2G)2G138
240	-	171203.7	-	-	0.697	9(2G)4H170	0.405	9(2I)2H207	0.396	9(2H)4H168	0.290	9(2G)4I162
241	-	171305.2	-	-	0.696	9(2I)2H207	-0.416	9(2G)4H170	-0.290	9(2I)2H208	-0.262	9(2G)4I162
242	-	171332.0	-	-	-0.517	10(2H2H291)	0.453	10(2G2G308)	0.356	10(2F2G312)	-0.305	10(2P2H298)
243	-	171526.9	-	-	-0.762	9(2G)4I162	-0.427	9(2H)4I160	0.368	9(2H)4H168	0.195	9(2G)4H170
244	-	171762.2	-	-	0.722	9(2H)4H168	-0.500	9(2G)4H170	0.214	9(2G)4I162	0.196	9(4F)4H166
245	-	171902.1	-	-	0.590	10(2G2H296)	-0.584	10(2H2H290)	0.288	10(2H2H292)	0.213	10(2G2H295)
246	-	172094.0	-	-	0.967	8(2G)2G138	0.200	8(4F)4F129	-0.127	8(2G)2G139	0.063	8(2H)2H134
247	-	172315.9	-	-	0.904	9(2G)4F198	-0.333	9(2F)4F200	-0.148	9(2H)4G180	0.090	9(2D)4F203
248	-	172347.3	-	-	-0.668	10(2F4G271)	-0.529	10(2H4G267)	-0.353	10(2G4G269)	0.262	10(2F4F283)
249	-	172489.9	-	-	0.611	9(2D)2G238	-0.479	9(2H)2H210	0.345	9(2D)2G234	-0.315	9(2F)2H215
250	-	172612.3	-	-	-0.700	9(2H)2H210	-0.399	9(2D)2G238	-0.298	9(2H)2H209	-0.227	9(2D)2G234
251	-	172681.2	-	-	0.833	9(2H)4F196	0.315	9(4F)4F191	-0.311	9(2G)4G182	0.129	9(2H)4H168
252	-	172808.3	-	-	-0.853	10(2F4F283)	-0.239	10(2F4G271)	0.236	10(4F4F275)	0.229	10(2P4F282)
253	-	172915.3	-	-	-0.612	10(2G2G307)	-0.336	10(2H2G303)	-0.301	10(2F2G313)	0.298	10(2I2G301)
254	-	173216.9	-	-	0.801	9(2G)4G182	0.294	9(2H)4F196	-0.178	9(2H)4H168	0.169	9(2F)2G230
255	-	173587.7	-	-	0.648	9(2F)2G230	-0.511	9(2G)2H214	-0.270	9(2F)2G231	0.191	9(4F)2G220
256	-	174034.0	-	-	0.730	9(2F)2H215	0.401	9(2G)2H214	-0.306	9(2F)2H216	0.176	9(2D)2G238
257	-	174128.3	-	-	0.558	10(2G2H295)	-0.490	10(2G2H296)	0.402	10(2G2G307)	-0.284	10(2H2H290)
258	-	174168.9	-	-	0.614	9(2G)2H214	0.357	9(2F)2G230	-0.347	9(2F)2H215	0.335	9(2G)2G229
259	-	174530.3	-	-	-0.725	9(2G)2G229	-0.289	9(2G)2G228	0.270	9(2F)2G233	0.256	9(2H)2G230
260	-	174708.3	-	-	-0.449	10(2G2G308)	-0.372	10(2G2G307)	-0.359	10(2H2G302)	0.337	10(2H2G303)
261	-	174839.1	-	-	-0.931	9(2F)4G184	0.159	9(2H)4G180	-0.147	9(2G)2G229	0.143	9(2F)2G230
262	-	175178.7	-	-	0.959	9(2F)4H172	0.123	9(4F)2H206	0.107	9(4F)4H166	-0.092	9(4F)4H165
263	-	175465.7	-	-	0.912	9(2F)4F200	0.307	9(2G)4F198	-0.146	9(2H)2G225	0.121	9(4F)4F190
264	-	175977.5	-	-	-0.720	9(4F)2G220	0.410	9(2H)2G225	-0.352	9(4F)2H206	-0.205	9(4F)2G224
265	-	176025.0	-	-	0.626	10(2F2G312)	0.409	10(2H2G302)	-0.348	10(2G2G308)	-0.312	10(2F2G313)
266	-	176145.8	-	-	0.790	9(4F)2H206	-0.323	9(2H)2H209	-0.318	9(4F)2G220	-0.139	9(2F)2H217
267	-	176535.5	-	-	0.709	10(2F2H298)	-0.513	10(2H2H291)	0.306	10(2H2H292)	-0.270	10(2G2H296)
268	-	176735.9	-	-	-0.929	9(4F)4F190	0.189	9(2H)2G225	0.156	9(2F)4F200	0.140	9(4F)4H165
269	-	176860.7	-	-	-0.886	9(4F)4H165	-0.346	9(4F)4G175	-0.164	9(4F)4F190	-0.125	9(2F)4H172
270	-	176889.2	-	-	0.890	9(4F)4G175	-0.346	9(4F)4H165	-0.133	9(4F)4G176	0.117	9(2H)2G225
271	-	177148.8	-	-	0.935	10(4F4F276)	-0.176	10(2F4F283)	-0.159	10(4D4F278)	0.157	10(4G4F273)
272	-	177191.5	-	-	0.704	9(2H)2G225	0.368	9(4F)2G220	-0.339	9(2F)2G230	0.205	9(2H)2G224
273	-	177515.5	-	-	-0.900	9(2F)2H218	-0.307	9(2F)2H217	-0.149	9(4F)2H206	-0.114	9(4F)2G220
274	-	178741.4	-	-	-0.864	9(2H)2G224	0.223	9(2G)2G228	0.218	9(4F)2G220	-0.196	9(2G)2H213
275	-	179073.0	-	-	-0.794	9(2G)2H213	-0.393	9(2H)2H209	0.283	9(2G)2H214	-0.190	9(2G)2G228
276	-	179399.2	-	-	-0.743	10(2F2G313)	-0.495	10(2F2G312)	-0.272	10(2G2G309)	-0.175	10(2H2G302)
277	-	179576.3	-	-	0.670	9(2F)2G233	-0.439	9(2H)2H209	0.336	9(2G)2H213	0.250	9(2G)2G229
278	-	179922.9	-	-	0.580	9(2H)2H209	0.555	9(2F)2G233	-0.268	9(2G)2H213	0.265	9(4F)2H206
279	-	181095.1	-	-	0.821	9(2G)2G228	-0.282	9(2G)2G229	-0.255	9(4F)2G220	0.164	9(2F)2G233
280	-	181499.2	-	-	0.668	10(2G2G309)	0.476	10(2H2G303)	0.280	10(2H2H292)	0.239	10(2D2G315)
281	-	182277.7	-	-	-0.802	10(2H2H292)	0.366	10(2F2H298)	0.260	10(2G2H296)	0.252	10(2G2G309)
282	-	182704.0	-	-	-0.928	9(2F)2G232	0.224	9(2F)2G233	0.182	9(2F)2H217	0.138	9(2H)2G224
283	-	183031.5	-	-	-0.896	9(2F)2H217	0.326	9(2F)2H218	-0.186	9(2F)2G232	-0.150	9(4F)2H206
284	-	183208.4	-	-	-0.957	10(2D4F285)	-0.177	10(2G4F281)	-0.156	10(2G4F280)	-0.088	10(4F4F275)
285	-	186823.0	-	-	0.988	9(2D)4G186	0.114	9(2D)4F202	-0.057	9(2G)4G181	0.045	9(2F)2H217
286	-	186998.4	-	-	0.985	9(2D)4F202	-0.110	9(2D)4G186	0.088	9(2F)2G232	0.053	9(2H)4F196
287	-	188013.3	-	-	0.870	7(1D)2G119	0.491	7(1D)2G118				
288	-	188373.9	-	-	-1.000	8(2G)4G127						
289	-	189138.6	-	-	-0.856	10(2D2G315)	-0.344	10(2G2G304)	0.288	10(2G2G309)	0.152	10(2G2G308)
290	-	189854.4	-	-	-0.928	9(2D)2G237	-0.318	9(2D)2G236	-0.129	9(2G)2G227	-0.071	9(2G)2G226
291	-	190136.7	-	-	0.950	10(2G4H259)	-0.263	10(2G4G268)	-0.113	10(2I4H257)	0.073	10(2G4F280)
292	-	190288.5	-	-	0.993	8(2G)2G137	0.118	8(2G)2G136				
293	-	190921.8	-	-	-0.732	10(2G4G268)	0.590	10(2G4F280)	-0.255	10(2G4H259)	-0.114	10(2D4F284)
294	-	191501.2	-	-	-0.747	10(2G4F280)	-0.606	10(2G4G268)	0.147	10(2D4F284)	-0.106	10(2G4H259)
295	-	194159.0	-	-	0.968	10(2G2H293)	-0.116	10(2I2H288)	0.112	10(2I2H288)	-0.100	10(2H2H291)
296	-	194462.3	-	-	-0.998	9(2G)4I162	-0.040	9(2G)4I162	-0.032	9(2F)2H217		
297	-	194602.1	-	-	0.937	9(2D)2G236	-0.329	9(2D)2G237	0.083	9(2G)2G227	0.030	9(2F)2H218
298	-	194813.3	-	-	0.990	9(2G)4G181	-0.102	9(2G)4H169	0.056	9(2D)4G186	0.041	9(2D)4G185
299	-	194923.7	-	-	0.993	9(2G)4H169	0.102	9(2G)4G181				
300	-	195241.8	-	-	-0.993	8(2G)2G136	0.118	8(2G)2G137				
301	-	196191.6	-	-	0.856	10(2G2G304)	-0.296	10(2D2G315)	0.259	10(2G2H294)	-0.248	10(2G2G305)
302	-	196360.2	-	-	-0.992	9(2G)4F197	-0.078	9(4F)4F191	0.060	9(2P)4F204	0.040	9(2G)4F198
303	-	197161.0	-	-	-0.929	10(2G2H294)	-0.230	10(2G2G305)	0.181	10(2G2G304)	0.132	10(2G2H293)
304	-	197191.6	-	-	0.937	9(2G)2H212	0.344	9(2G)2H211				
305	-	197847.2	-	-	0.868	10(2G2G305)	0.282	10(2G2G304)	0.214	10(2G2G309)	0.202	10(2D2G314)
306	-	200181.8	-	-	0.972	9(2G)2G227	0.133	9(2G)2G226	-0.115	9(2D)2G236	-0.097	9(2D)2G237
307	-	202681.4	-	-	0.934	9(2G)2H211	-0.343	9(2G)2H212	-0.086	9(2G)2G226		
308	-	202784.9	-	-	-0.981	9(2G)2G226	0.141	9(2G)2G227	-0.082	9(2G)2H211	0.057	9(2D)2G237
309	-	204068.9	-	-	-0.935	10(2G2G306)	-0.214	10(2D2G314)	0.178	10(2G2G305)	-0.128	10(2G2G308)
310	-	210820.5	-	-	-0.994	9(2P)4F204	-0.062	9(2D)4F201	-0.058	9(2G)4F197	-0.036	9(2D)4G185
311	-	214718.6	-	-	-0.852	10(2D4F284)	0.482	10(2D4F286)	-0.191	10(2G4F280)	0.048	10(2D2G314)
312	-	217599.0	-	-	0.870	9(2D)4G185	-0.488	9(2D)4G187	-0.045	9(2G)4G181	-0.040	9(2P)4F204
313	-	218718.9	-	-	0.871	9(2D)4F201	-0.484	9(2D)4F203	-0.070	9(2P)4F204		
314	-	221287.8	-	-	0.818	10(2D2G314)	-0.471	10(2D2G316)	-0.261	10(2G2G306)	-0.184	10(2G2G305)
315	-	221438.0	-	-	-0.838	9(2D)2G235	0.468	9(2D)2G239	-0.241	9(2D)2G234	0.133	9(2D)2G238
316	-	225427.2	-	-	-0.837	9(2D)2G234	0.470	9(2D)2G238	0.240	9(2D)2G235	-0.135	9(2D)2G239

J 5.5 26.01

D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2
1 2 3 4 5 6 7 8 9 10

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	20340.300	20573.2	232.9 D7 (5D)2H	0.996 1(2H)2H 1 -0.075 2(3H)2H 5 0.038 3(2H)2H 8
2	21430.359	21537.8	107.4 D6S (3H)4H	-0.993 2(3H)4H 2 -0.115 2(3G)4G 3
3	25428.784	25279.0	-149.8 D6S (3G)4G	0.951 2(3G)4G 3 -0.288 2(3H)2H 5 -0.103 2(3H)4H 2
4	26170.181	26310.0	139.9 D6S (3H)2H	0.952 2(3H)2H 5 0.286 2(3G)4G 3 0.070 1(2H)2H 1 0.062 2(1I)2I 4
5	32909.905	33037.5	127.6 D6S (1I)2I	0.998 2(1I)2I 4 -0.066 2(3H)2H 5 0.034 3(2H)2H 8
6	54232.195	54315.5	83.3 D5S2(7S)4G	-0.999 3(4G)4G 6 -0.992 3(2I)2I 7 -0.092 3(2H)2H 8
7	-	68634.4	-	-0.996 3(2I)2I 7 -0.092 3(2H)2H 8
8	-	77530.9	-	0.994 3(2H)2H 8 -0.092 3(2I)2I 7 -0.038 1(2H)2H 1 0.034 3(4G)4G 6
9	82853.658	82866.9	13.2 4D (5D)6F	-0.991 6(5D)6F 18 0.128 6(5D)6G 17
10	84296.830	84192.6	-104.2 4D (5D)6G	0.976 6(5D)6G 17 0.179 6(5D)4G 26 0.122 6(5D

14	102584.963	102550.6	-34.4	5S	(3G) 4G	-0.991	4(3G) 4G 10	0.106	4(3H) 4H 9	-0.083	4(3H) 2H 12
15	103751.660	103748.7	-2.9	4D	(3H) 4H	0.951	6(3H) 4G 27	0.224	6(3F) 4G 30	0.154	6(3G) 4G 28
16	103936.600	103809.7	-126.9	5D	(5D) 6F	-0.983	7(5D) 6F 46	0.175	7(5D) 6G 45	-0.037	7(5D) 4G 54
17	-	103847.3	-	-	-	-0.884	6(3H) 4H 22	0.337	6(3H) 4I 20	-0.274	6(3H) 4K 19
18	-	103885.3	-	-	-	-0.876	6(3H) 4K 19	0.359	6(3H) 4H 22	0.251	6(3H) 4I 20
19	104174.270	104105.4	-68.9	4D	(3H) 4I	0.884	6(3H) 4I 20	0.369	6(3H) 4K 19	0.218	6(3H) 4H 22
20	104593.270	104621.7	28.4	5D	(5D) 6G	0.929	7(5D) 6G 45	0.334	7(5D) 4G 54	0.153	7(5D) 6F 46
21	-	104788.3	-	-	-	-0.861	6(3H) 2I 32	-0.341	6(3F) 4G 30	0.206	6(3F) 4G 29
22	104863.430	104951.0	87.5	5D	(5D) 4G	0.941	7(5D) 4G 54	-0.324	7(5D) 6G 45	-0.093	7(5D) 6F 46
23	105063.550	105045.8	-17.8	4D	(3F) 4G	-0.719	6(3F) 4G 30	0.452	6(3H) 2I 32	0.429	6(3F) 4G 29
24	105398.852	105367.3	-31.5	4D	(3F) 4H	-0.802	6(3F) 4H 25	0.448	6(3F) 4H 24	-0.208	6(3F) 2H 40
25	105763.270	105831.9	68.7	4D	(3F) 2H	-0.785	6(3F) 2H 40	0.438	6(3F) 2H 39	0.313	6(3F) 2H 37
26	-	106218.6	-	-	-	0.847	6(3H) 2H 37	0.341	6(3G) 2H 38	0.263	6(3F) 2H 40
27	108630.429	108636.6	6.1	5S	(1I) 2I	-0.999	4(1I) 2I 11	0.047	4(3H) 2H 12	-0.156	6(3H) 4G 27
28	-	108898.5	-	-	-	0.889	6(3G) 4G 28	-0.398	6(3G) 4H 23	-0.156	6(3H) 4G 27
29	-	109071.7	-	-	-	0.897	6(3G) 4H 23	0.389	6(3G) 4G 28	0.105	6(3G) 2H 38
30	-	109378.3	-	-	-	-0.968	6(3G) 4I 21	-0.162	6(3G) 2I 33	-0.110	6(3H) 4I 20
31	109486.150	109508.2	22.0	4SD	(7S) 8D	1.000	9(6S) 8D 85	-	-	-	-
32	-	110041.0	-	-	-	0.966	6(3G) 2I 33	-0.166	6(3G) 4I 21	0.138	6(3H) 2I 32
33	-	110410.9	-	-	-	-0.875	6(3G) 2H 38	-0.368	6(1I) 2H 41	0.262	6(3H) 2H 37
34	-	113276.3	-	-	-	0.779	6(1G) 2H 43	-0.592	6(1G) 2H 42	-0.161	6(1I) 2H 41
35	-	113469.0	-	-	-	0.769	6(1G) 2I 36	-0.602	6(1G) 2I 35	-0.176	6(1I) 2I 34
36	-	114591.3	-	-	-	-0.980	6(1I) 2I 34	-0.130	6(1G) 2I 35	-0.120	6(1G) 2I 36
37	-	116319.8	-	-	-	-0.993	6(3D) 4G 31	0.095	6(3G) 4G 28	0.047	6(3F) 4G 30
38	-	117192.8	-	-	-	0.885	6(1I) 2H 41	0.300	6(3H) 2H 37	-0.282	6(3G) 2H 38
39	-	121948.6	-	-	-	0.948	5(3H) 4H 13	0.306	5(3H) 2H 16	0.076	5(3G) 4G 14
40	-	122275.2	-	-	-	-0.949	5(3H) 2H 16	0.299	5(3H) 4H 13	0.097	5(3G) 4G 14
41	-	124291.1	-	-	-	0.944	7(3H) 4G 55	-0.282	7(3H) 4H 50	0.120	7(3G) 4G 58
42	-	124374.8	-	-	-	0.884	7(3H) 4H 50	-0.325	7(3H) 4I 48	0.271	7(3H) 4G 55
43	-	124443.5	-	-	-	0.875	7(3H) 4K 47	-0.366	7(3H) 4I 48	-0.253	7(3H) 4H 50
44	-	124570.6	-	-	-	-0.853	7(3H) 4I 48	-0.443	7(3H) 4K 47	-0.232	7(3H) 4H 50
45	-	124970.9	-	-	-	-0.971	7(3H) 2I 60	0.104	7(3H) 4I 48	-0.099	7(3F) 4G 58
46	-	125559.2	-	-	-	-0.804	7(3F) 4G 58	0.470	7(3F) 4G 57	0.200	7(3F) 4H 53
47	-	125780.3	-	-	-	0.637	7(3F) 4H 53	-0.419	7(3H) 2H 65	0.393	7(3F) 2H 68
48	-	125889.7	-	-	-	-0.739	7(3H) 2H 65	-0.504	7(3F) 4H 53	0.282	7(3F) 4H 52
49	-	126156.6	-	-	-	-0.730	7(3F) 2H 68	-0.429	7(3H) 2H 65	0.418	7(3F) 2H 67
50	-	126201.3	-	-	-	-0.992	5(3G) 4G 14	0.102	5(3H) 4H 13	-0.069	5(3H) 2H 16
51	-	129359.5	-	-	-	-0.991	6(1F) 2H 44	-0.061	6(1I) 2H 41	-0.060	6(3H) 2H 37
52	-	129372.0	-	-	-	0.912	7(3G) 4G 56	-0.377	7(3G) 4H 51	-0.099	7(3H) 4G 55
53	-	129547.6	-	-	-	-0.896	7(3G) 4H 51	-0.363	7(3G) 4G 56	-0.173	7(3G) 2H 66
54	-	129765.5	-	-	-	-0.953	7(3G) 4I 49	-0.234	7(3G) 2I 61	-0.121	7(3G) 4H 51
55	-	130156.2	-	-	-	-0.958	7(3G) 2I 61	0.240	7(3G) 4I 49	-0.090	7(3H) 2I 60
56	-	130338.3	-	-	-	-0.934	7(3G) 2H 66	-0.206	7(1I) 2H 69	0.194	7(3H) 2H 65
57	-	132101.8	-	-	-	-0.999	5(1I) 2I 15	0.044	5(3H) 2H 16	-	-
58	-	133702.8	-	-	-	0.780	7(1G) 2H 71	-0.598	7(1G) 2H 70	-0.150	7(1I) 2H 69
59	-	133818.3	-	-	-	-0.776	7(1G) 2I 64	0.608	7(1G) 2I 63	0.127	7(1I) 2I 62
60	-	134737.8	-	-	-	0.989	7(1I) 2I 62	-0.090	7(1G) 2I 63	0.089	7(1G) 2I 64
61	-	135853.7	-	-	-	0.954	7(1I) 2H 69	-0.178	7(3G) 2H 66	0.169	7(3H) 2H 65
62	-	136756.5	-	-	-	-0.997	7(3D) 4G 59	0.055	7(3G) 4G 56	-	-
63	-	137444.9	-	-	-	0.874	6(3F) 4H 24	0.480	6(3F) 4H 25	0.061	6(1F) 2H 44
64	-	137717.0	-	-	-	1.000	8(4G) 6G 73	-	-	-	-
65	-	138532.9	-	-	-	0.855	6(3F) 4G 29	0.502	6(3F) 4G 30	-0.098	6(3F) 2H 39
66	-	139073.6	-	-	-	-0.851	6(3F) 2H 39	-0.485	6(3F) 2H 40	-0.101	6(3F) 4G 29
67	-	139445.6	-	-	-	0.991	10(4G6H)52	-0.085	10(4G6G)53	0.072	10(4G6F)55
68	-	139847.5	-	-	-	-0.971	10(4G6F)55	0.160	10(4F6F)56	0.123	10(4G6G)53
69	-	140148.3	-	-	-	-0.998	8(4G) 4G 78	-0.061	8(4G) 4G 77	-	-
70	-	142096.6	-	-	-	0.981	10(4G6G)53	0.130	10(4G6F)55	0.106	10(4F6G)54
71	-	143779.7	-	-	-	0.992	9(4G) 6H 87	-0.108	9(4G) 6I 86	-0.049	9(4F) 6H 88
72	-	143939.7	-	-	-	-0.998	9(4G) 6F 92	-0.049	9(4F) 6F 93	-0.032	9(4D) 6F 94
73	-	143980.4	-	-	-	-0.993	9(4G) 6I 86	-0.108	9(4G) 6H 87	-	-
74	-	144043.1	-	-	-	-0.999	9(4G) 6G 89	-	-	-	-
75	-	144797.9	-	-	-	0.781	10(4G4H)62	-0.532	10(4G4H)63	-0.247	10(4G4G)69
76	-	144828.2	-	-	-	-0.781	6(1G) 2I 35	-0.619	6(1G) 2I 36	-0.037	6(1G) 2H 42
77	-	145665.4	-	-	-	0.913	10(4G4G)69	0.217	10(4G4H)62	0.180	10(4G4G)70
78	-	145743.2	-	-	-	-0.788	6(1G) 2H 42	-0.596	6(1G) 2H 43	0.114	6(3F) 2H 39
79	-	146679.9	-	-	-	-0.984	10(4D6F)57	-0.121	10(4F6F)56	-0.088	10(4G4G)69
80	-	146815.8	-	-	-	0.962	9(4F) 6F 95	-0.195	9(4G) 4I 99	0.158	9(4D) 6G 91
81	-	146835.8	-	-	-	0.967	9(4G) 4I 99	0.195	9(4F) 6F 95	0.157	9(4G) 4I 98
82	-	147656.8	-	-	-	0.976	10(4G4I)59	0.141	10(2I4I)60	-0.094	10(4G2H)87
83	-	147744.5	-	-	-	0.971	9(4G) 4G115	0.150	9(4D) 4G119	0.149	9(4G) 4G118
84	-	148698.7	-	-	-	-0.974	9(4G) 4H105	-0.157	9(2I) 4H108	-0.137	9(4G) 4H104
85	-	149719.0	-	-	-	-0.997	7(1F) 2H 72	0.045	7(3F) 4H 52	-	-
86	-	149767.4	-	-	-	-0.714	10(4G4G)70	0.466	10(4G4H)63	0.362	10(4G2H)87
87	-	149916.6	-	-	-	-0.658	10(4G4G)70	-0.512	10(4G4H)63	-0.365	10(4G2H)87
88	-	150054.8	-	-	-	0.982	9(4D) 6G 91	-0.155	9(4F) 6F 94	0.067	9(4D) 6F 94
89	-	150122.8	-	-	-	-0.993	9(4D) 6F 94	-0.077	9(4F) 6F 95	0.053	9(4D) 6G 91
90	-	150490.4	-	-	-	0.820	10(4G2H)87	-0.414	10(4G4H)63	-0.317	10(2I2H)89
91	-	150854.3	-	-	-	0.997	8(4G) 4G 77	-0.061	8(4G) 4G 78	-0.031	8(2H) 2H 83
92	-	153252.0	-	-	-	0.799	10(4D4G)71	-0.410	10(4G4G)71	-0.296	10(4F4G)73
93	-	153892.2	-	-	-	-0.962	9(4D) 4G119	-0.146	9(2I) 4G120	-0.144	9(4D) 4G118
94	-	155461.5	-	-	-	-0.997	8(2I) 4I 75	-0.062	8(2H) 4H 76	-	-
95	-	155465.2	-	-	-	-0.824	10(4G4G)71	-0.490	10(4D4G)74	-0.165	10(4F4G)73
96	-	155908.6	-	-	-	0.989	10(2I4K)58	-0.080	10(2I4I)60	0.072	10(2I2I)80
97	-	156420.7	-	-	-	-0.997	8(4F) 6F 74	0.069	8(2G) 4G 80	-0.031	8(4G) 4G 77
98	-	156922.5	-	-	-	0.998	9(4G) 2I129	-0.043	9(2F) 2H148	-0.035	9(2F) 2H149
99	-	157382.8	-	-	-	-0.991	8(2I) 2I 82	-0.114	8(2I) 2I 81	-0.053	8(2H) 2H 84
100	-	157702.6	-	-	-	0.873	10(2I4H)65	-0.364	10(2I4I)60	-0.197	10(2H4H)66
101	-	157894.0	-	-	-	-0.975	9(4G) 4H104	0.146	9(4G) 4H105	0.129	9(4G) 4I 98
102	-	158072.1	-	-	-	0.976	9(4G) 4I 98	-0.159	9(4G) 4I 99	0.127	9(4G) 4H104
103	-	158103.9	-	-	-	-0.872	7(3F) 4H 52	-0.484	7(3F) 4H 53	-0.051	7(1F) 2H 72
104	-	158149.5	-	-	-	-0.981	9(4G) 4G114	0.150	9(4G) 4G115	0.076	9(4G) 2H138
105	-	158730.4	-	-	-	-0.972	9(4G) 2H138	-0.146	9(2I) 2H140	0.125	9(2I) 2H141
106	-	158732.8	-	-	-	-0.859	7(3F) 4G 57	-0.497	7(3F) 4G 58	0.098	7(3F) 2H 67
107	-	158779.9	-	-	-	-0.909	10(2I4I)60	-0.359	10(2I4H)65	0.133	10(4G4I)59
108	-	158988.6	-	-	-	-0.861	7(3F) 2H 67	-0.488	7(3F) 2H 68	-0.099	7(3F) 4G 57
109	-	159005.2	-	-	-	0.975	10(4F6G)53	-0.156	10(4F6F)56	-0.100	10(4G6G)53
110	-	159379.3	-	-	-	0.909	10(2I2I)80	-0.210	10(2I2H)88	-0.206	10(2I2H)86
111	-	160736.3	-	-	-	0.683	10(2I2H)88	0.390	10(2I2H)89	-0.320	10(2F4G)78
112	-	160857.9	-	-	-	0.942	10(4F6F)56	0.161	10(4G6F)55	0.153	10(4F6G)54
113	-	161387.0	-	-	-	0.995	9(2I) 4I100	-0.057	9(2I) 4K 96	0.054	9(2H) 4H109

114	-	161486.3	-	-	0.833	10(2F4G178	0.309	10(2I2H188	0.252	10(2H4G175	0.189	10(2I2H189
115	-	161620.2	-	-	0.994	9(2I)4K 96	-0.058	9(2H)4K 97	0.057	9(2I)4I100	0.048	9(2H)4I101
116	-	162267.8	-	-	-0.972	8(2I)2I 81	0.152	8(2H)4H 76	0.137	8(2H)2H 84	0.109	8(2I)2I 82
117	-	162444.5	-	-	0.827	9(2I)4G120	-0.450	9(4F)6F 93	0.131	9(4F)6G 90	-0.126	9(2D)4G128
118	-	162603.7	-	-	-0.848	9(4F)6F 93	-0.347	9(2I)4G120	-0.337	9(4F)6H 88	0.115	9(2D)4G128
119	-	162660.0	-	-	-0.840	9(4F)6H 88	-0.357	9(4F)6G 90	0.299	9(2I)4G120	0.246	9(4F)6F 93
120	-	162796.4	-	-	0.912	9(4F)6G 90	-0.381	9(4F)6H 88	0.080	9(4F)6F 93	0.069	9(4D)6G 91
121	-	163458.1	-	-	-0.919	9(2I)4H108	0.261	9(4F)4H107	0.177	9(2F)4H112	0.125	9(4G)4H105
122	-	163894.5	-	-	0.941	8(2H)4H 76	0.288	8(2G)4G 80	0.142	8(2I)2I 81	-0.074	8(2H)2H 84
123	-	163895.0	-	-	-0.969	10(2I2I181	0.117	10(2G2I185	-0.087	10(2H2H191	0.082	10(2I2I180
124	-	163955.3	-	-	0.902	9(2I)2H141	0.399	9(2I)2H140	0.072	9(2I)4H108	-0.070	9(2H)4G121
125	-	164111.3	-	-	-0.975	9(4D)4G118	0.140	9(4D)4G119	-0.074	9(2F)4H112	0.060	9(2I)4G120
126	-	164311.5	-	-	-0.645	10(2H4G175	0.427	10(2G4G177	0.316	10(2F4G178	0.223	10(2F4G179
127	-	164413.6	-	-	0.748	9(2D)4G128	0.423	9(2D)4G126	-0.366	9(2F)4H112	0.183	9(4F)4H107
128	-	164816.6	-	-	0.844	10(2H4I161	-0.296	10(4F4G172	0.212	10(2G4H168	0.198	10(2H2H190
129	-	165138.3	-	-	-0.911	8(2G)4G 80	0.291	8(2H)4H 76	0.260	8(2H)2H 84	0.088	8(2H)2H 83
130	-	165147.3	-	-	0.578	10(4F4G172	0.473	10(2H4I161	-0.378	10(2F2H197	-0.306	10(2H2H190
131	-	165260.6	-	-	-0.784	7(1G)2I 63	-0.618	7(1G)2I 64	-0.033	7(1G)2H 70	-0.030	7(3F)2H 67
132	-	165570.8	-	-	0.594	10(2F2H197	0.505	10(4F4G172	0.394	10(2H2H190	0.323	10(2G4G177
133	-	165615.8	-	-	-0.719	9(2F)4G124	-0.679	9(4F)4G117	-0.111	9(4F)4G116	0.052	9(2G)2H147
134	-	165680.1	-	-	0.539	10(2I2H189	-0.475	10(2H4H166	-0.452	10(2G4H168	-0.335	10(2I2H188
135	-	165722.1	-	-	-0.790	7(1G)2H 70	-0.606	7(1G)2H 71	0.059	7(3F)2H 67	0.035	7(3F)2H 68
136	-	165839.1	-	-	-0.565	10(2I2H189	-0.515	10(2H4H166	-0.385	10(2G4H168	0.370	10(2I2H188
137	-	165951.3	-	-	0.639	9(4F)4H107	-0.612	9(2F)4H112	-0.296	9(2D)4G128	-0.167	9(2F)4G124
138	-	166020.1	-	-	-0.943	8(2H)2H 84	-0.281	8(2G)4G 80	-0.124	8(2I)2I 81	-0.100	8(2H)2H 83
139	-	166544.3	-	-	0.734	10(4F4H164	0.504	10(2G4H168	-0.306	10(2H4H166	-0.149	10(2H4I161
140	-	166562.8	-	-	-0.547	9(4F)4G117	0.519	9(2F)4G124	0.415	9(4F)4H107	0.291	9(2F)4H112
141	-	166751.8	-	-	0.576	9(2F)4H112	0.449	9(4F)4H107	-0.338	9(2F)4G124	0.335	9(4F)4G117
142	-	167166.6	-	-	0.928	9(2I)2I131	0.193	9(2H)2I133	-0.171	9(2G)2I137	-0.151	9(4F)4H107
143	-	167826.7	-	-	-0.716	10(2H2I183	-0.420	10(2G2I186	0.343	10(2H2I184	-0.236	10(2I2I182
144	-	168324.0	-	-	0.493	10(2F2H197	-0.446	10(2G2H195	-0.358	10(2H2H190	-0.325	10(2I2I182
145	-	168607.1	-	-	0.925	9(2F)2H149	0.305	9(2F)2H148	-0.149	9(2D)4G128	-0.080	9(2D)4G126
146	-	168925.3	-	-	-0.472	10(2G4G177	0.469	10(2F4G179	-0.382	10(2I2I182	-0.355	10(2H2I184
147	-	169043.9	-	-	-0.439	10(2I2I182	-0.411	10(2H2I184	0.315	10(2G4G177	-0.290	10(2F4G179
148	-	169276.0	-	-	-0.920	9(2I)2I130	-0.227	9(2H)2I101	-0.151	9(2H)2I133	0.122	9(2H)2H143
149	-	169320.0	-	-	0.517	10(2H4H166	0.507	10(4F4H164	-0.464	10(2G4H168	0.297	10(4F4G173
150	-	169536.1	-	-	0.813	9(2H)4I101	-0.429	9(2G)4I103	-0.245	9(2I)2I130	-0.201	9(2H)4K 97
151	-	169965.8	-	-	-0.953	9(2H)4K 97	-0.271	9(2H)4I101	-0.063	9(2G)4I103	-0.063	9(2G)4H111
152	-	169978.1	-	-	0.795	10(4F4G173	0.222	10(2H4G175	-0.217	10(4G4G171	0.212	10(2G4G177
153	-	170603.4	-	-	-0.855	9(2H)4G121	0.312	9(2I)2H140	-0.195	9(2I)2H141	0.189	9(2G)4G123
154	-	170850.4	-	-	-0.989	8(2H)2H 83	0.120	8(2H)2H 84	-0.060	8(2G)4G 80	-0.039	8(2I)2I 82
155	-	171079.6	-	-	0.677	10(2H2H191	0.436	10(2F2H198	0.350	10(2G2H196	0.268	10(2H2H192
156	-	171181.6	-	-	-0.783	9(2G)4H111	-0.465	9(2H)4H109	-0.343	9(2G)4I103	-0.113	9(2G)4G123
157	-	171480.9	-	-	-0.714	9(2I)2H140	-0.326	9(2H)4G121	0.313	9(2G)4I103	0.287	9(2I)2H141
158	-	171574.7	-	-	0.717	9(2G)4I103	0.381	9(2H)4I101	0.334	9(2I)2H140	-0.314	9(2H)4H109
159	-	171821.4	-	-	0.565	10(2H2H190	-0.473	10(2G2H196	0.298	10(2H2H191	-0.282	10(2G2H195
160	-	171845.5	-	-	0.657	9(2H)4H109	-0.536	9(2G)4H111	0.238	9(2G)4I103	0.217	9(2G)4G123
161	-	172153.4	-	-	0.582	10(2I2I182	-0.546	10(2H2I183	0.398	10(2G2I186	-0.227	10(2G2H196
162	-	172537.1	-	-	0.809	9(2H)2H143	0.343	9(2H)2H142	-0.274	9(2G)4G123	0.213	9(2H)4H109
163	-	172555.1	-	-	0.694	10(2F4G179	0.495	10(2H4G175	0.329	10(2G4G177	0.237	10(2H2H191
164	-	173168.1	-	-	0.853	9(2G)4G123	0.339	9(2H)2H143	-0.197	9(2H)4H109	-0.145	9(4F)4G117
165	-	173816.4	-	-	0.816	9(2F)2H148	-0.327	9(2G)2H147	-0.275	9(2F)2H149	-0.202	9(2G)2I137
166	-	173949.0	-	-	0.810	9(2G)2H147	0.349	9(2F)2H148	0.262	9(2G)2H146	0.251	9(2H)2I133
167	-	174138.6	-	-	-0.633	10(2G2H195	0.533	10(2G2H196	0.341	10(2H2H190	0.227	10(2I2H189
168	-	174295.8	-	-	0.641	9(2H)2I133	0.563	9(2G)2I137	-0.308	9(2G)2H147	0.227	9(2G)2I136
169	-	174819.4	-	-	0.964	9(2F)4G125	-0.162	9(2H)4G121	-0.117	9(2G)4G123	-0.116	9(2F)4H113
170	-	175065.9	-	-	0.670	10(2H2I184	0.665	10(2G2I186	-0.266	10(2I2I182	0.090	10(2I2I180
171	-	175185.8	-	-	-0.966	9(2F)4H113	-0.144	9(4F)2H139	-0.101	9(2F)4G125	0.096	9(2F)2H148
172	-	175831.0	-	-	-0.616	9(2G)2I137	0.601	9(2H)2I133	0.326	9(4F)2H139	-0.231	9(2I)2I131
173	-	176237.5	-	-	-0.771	9(4F)2H139	0.342	9(2H)2H142	-0.320	9(2G)2I137	-0.195	9(4F)4H106
174	-	176588.9	-	-	0.719	10(2F2H198	-0.506	10(2H2H191	0.313	10(2H2H192	-0.197	10(2G2H196
175	-	176783.8	-	-	0.781	9(4F)4H106	0.568	9(4F)4G116	-0.115	9(4F)4H107	-0.113	9(4F)2H139
176	-	176852.0	-	-	0.771	9(4F)4G116	-0.544	9(4F)4H106	-0.182	9(2G)2H146	0.120	9(4F)2H139
177	-	177500.3	-	-	0.896	9(2F)2H151	0.349	9(2F)2H150	-0.171	9(2H)2H143	-0.151	9(4F)2H139
178	-	177820.2	-	-	0.862	9(2H)2I132	-0.413	9(2G)2I136	-0.141	9(2I)2I131	0.123	9(2H)2H142
179	-	179077.6	-	-	-0.796	9(2G)2H146	-0.381	9(2H)2H142	0.270	9(2G)2H147	-0.227	9(2G)2I136
180	-	179317.7	-	-	-0.797	9(2G)2I136	-0.393	9(2H)2I132	0.273	9(2H)2H142	0.271	9(2G)2I137
181	-	179933.5	-	-	-0.682	9(2H)2H142	0.433	9(2G)2H146	-0.336	9(4F)2H139	0.280	9(2H)2H143
182	-	182297.1	-	-	-0.845	10(2H2H192	0.409	10(2F2H198	0.281	10(2G2H196	0.091	10(2G2H195
183	-	182957.1	-	-	0.920	9(2F)2H150	-0.349	9(2F)2H151	0.079	9(4F)4H106	-0.079	9(2D)4G127
184	-	186858.8	-	-	-0.992	9(2D)4G127	-0.088	9(2F)2H150	0.057	9(2G)4G122	0.034	9(2F)4H113
185	-	188363.7	-	-	1.000	8(2G)4G 79						
186	-	190355.9	-	-	0.947	10(2G4H167	-0.288	10(2G4G176	-0.111	10(2I4H165	0.039	10(2G2H193
187	-	191141.9	-	-	0.945	10(2G4G176	0.289	10(2G4H167	0.076	10(2G4G177	0.062	10(4F4G173
188	-	194455.8	-	-	0.998	9(2G)4I102						
189	-	194598.1	-	-	0.968	10(2G2H193	0.159	10(2G2I185	-0.112	10(2I2H188	-0.099	10(2H2H191
190	-	194805.9	-	-	-0.992	9(2G)4G122	0.092	9(2G)4H110	-0.054	9(2D)4G127	-0.042	9(2D)4G126
191	-	194929.7	-	-	-0.994	9(2G)4H110	-0.091	9(2G)4G122				
192	-	196506.5	-	-	0.961	10(2G2I185	-0.161	10(2G2H193	0.148	10(2I2I182	0.106	10(2I2I181
193	-	197189.2	-	-	0.937	9(2G)2H145	0.345	9(2G)2H144	-0.030	9(2G)2H147		
194	-	197243.1	-	-	0.978	10(2G2H194	0.109	10(2I2H189	-0.107	10(2G2H196	0.076	10(2F2H198
195	-	197947.4	-	-	-0.951	9(2G)2I135	-0.302	9(2G)2I134	-0.041	9(2H)2I133		
196	-	202255.6	-	-	-0.952	9(2G)2I134	0.302	9(2G)2I135	0.032	9(2G)2H144		
197	-	202698.0	-	-	0.937	9(2G)2H144	-0.345	9(2G)2H145	0.032	9(2G)2I134		
198	-	217586.6	-	-	-0.871	9(2D)4G126	0.489	9(2D)4G128	0.045	9(2G)4G122		

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D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2
 1 2 3 4 5 6 7 8 9 10

1	2	3	4	5	6	7	8	9	10
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9	104315.370	1042711.6	-43.8	4D (3H)2K	-0.925	6(3H)2K 16	0.268	6(3H)2I 18	0.187	6(3H)4K 9	-0.107	6(3G)2I 19
10	104366.820	104389.0	22.2	5D (5D)6G	0.999	7(5D)6G 23						
11	-	104676.1	-	-	-0.942	6(3H)2I 18	-0.281	6(3H)2K 16	0.106	6(3H)4I 10	0.091	6(3G)2I 19
12	105288.847	105227.2	-61.6	4D (3F)4H	-0.839	6(3F)4H 15	0.475	6(3F)4H 14	0.168	6(3H)4H 12	0.096	6(3G)4I 11
13	108648.695	108634.8	-13.9	5S (1I)2I	-0.999	4(1I)2I 5	0.050	4(3H)4H 4				
14	-	108804.4	-	-	0.993	6(3G)4H 13	-0.089	6(3H)4I 10	0.063	6(3H)2I 18	-0.034	6(3G)4I 11
15	-	109144.0	-	-	-0.926	6(3G)4I 11	-0.341	6(3G)2I 19	-0.088	6(3H)4I 10	0.088	6(3H)4K 9
16	-	109673.2	-	-	-0.926	6(3G)2I 19	0.332	6(3G)4I 11	-0.108	6(3H)2I 18	0.089	6(3F)4H 15
17	-	113470.6	-	-	0.768	6(1G)2I 22	-0.601	6(1G)2I 21	-0.185	6(1I)2I 20	-0.079	6(3F)4H 15
18	-	114373.8	-	-	0.996	6(1I)2K 17	-0.064	6(1I)2I 20	-0.041	6(3H)2I 18		
19	-	114607.4	-	-	-0.978	6(1I)2I 20	0.136	6(1G)2I 21	-0.126	6(1G)2I 22	-0.066	6(1I)2K 17
20	-	121824.7	-	-	0.999	5(3H)4H 6	0.049	5(1I)2I 7				
21	-	124253.8	-	-	0.947	7(3H)4H 27	-0.285	7(3H)4I 25	0.110	7(3H)4K 24	0.078	7(3F)4H 30
22	-	124329.3	-	-	0.837	7(3H)4K 24	-0.417	7(3H)4I 25	-0.220	7(3H)4H 27	0.191	7(3H)2K 31
23	-	124472.7	-	-	0.834	7(3H)4I 25	0.450	7(3H)4K 24	0.205	7(3H)2K 31	0.191	7(3H)4H 27
24	-	124637.3	-	-	-0.873	7(3H)2K 31	0.380	7(3H)2I 33	0.271	7(3H)4K 24	-0.085	7(3G)2I 34
25	-	124824.4	-	-	-0.894	7(3H)2I 33	-0.381	7(3H)2K 31	0.200	7(3H)4I 25	0.086	7(3H)4H 27
26	-	125687.3	-	-	-0.854	7(3F)4H 30	0.484	7(3F)4H 29	0.097	7(3G)4H 27	0.092	7(3G)4I 26
27	-	129333.0	-	-	0.989	7(3G)4H 28	-0.112	7(3G)4I 26	-0.079	7(3H)4I 25	0.051	7(3H)2I 33
28	-	129547.5	-	-	-0.857	7(3G)4I 26	-0.493	7(3G)2I 34	-0.098	7(3G)4H 28	0.078	7(3H)4K 24
29	-	129872.9	-	-	-0.862	7(3G)2I 34	0.482	7(3G)4I 26	0.092	7(3F)4H 30	0.076	7(3H)2K 31
30	-	132101.2	-	-	-0.999	5(1I)2I 7	0.049	5(3H)4H 6				
31	-	133817.3	-	-	0.776	7(1G)2I 37	-0.608	7(1G)2I 36	-0.131	7(1I)2I 35	-0.070	7(3F)4H 30
32	-	134622.6	-	-	-0.998	7(1I)2K 32	0.046	7(1I)2I 35	0.036	7(1I)2I 33		
33	-	134744.6	-	-	0.989	7(1I)2I 35	-0.093	7(1G)2I 36	0.092	7(1G)2I 37	0.046	7(1I)2K 32
34	-	137430.9	-	-	0.872	6(3F)4H 14	0.487	6(3F)4H 15	-0.039	6(1G)2I 21		
35	-	137713.2	-	-	1.000	8(4G)6G 38						
36	-	139611.6	-	-	0.995	10(4G)6H81	-0.071	10(4G)6G82	0.038	10(4G)4H88	-0.037	10(4G)4I85
37	-	142086.0	-	-	0.990	10(4G)6G82	0.108	10(4F)6G83	0.069	10(4G)6H81	-0.042	10(4G)4H89
38	-	143794.3	-	-	-0.990	9(4G)6H 44	0.124	9(4G)6I 43	0.046	9(4F)6H 45	0.031	9(4G)6G 46
39	-	143995.4	-	-	0.992	9(4G)6I 43	0.125	9(4G)6H 44				
40	-	144045.6	-	-	-0.999	9(4G)6G 46	-0.031	9(4G)6H 44				
41	-	144803.8	-	-	-0.800	10(4G)4H88	0.564	10(4G)4H89	0.127	10(2I)4H91	-0.106	10(4F)4H90
42	-	144831.8	-	-	-0.782	6(1G)2I 21	-0.620	6(1G)2I 22	-0.038	6(3F)4H 14		
43	-	146837.8	-	-	-0.987	9(4G)4I 53	-0.160	9(4G)4I 52				
44	-	147699.6	-	-	-0.981	10(4G)4I85	-0.142	10(2I)4I86	-0.091	10(4G)4H89	0.055	10(4G)4H88
45	-	148709.8	-	-	-0.975	9(4G)4H 59	-0.157	9(2I)4H 62	-0.136	9(4G)4H 58	-0.051	9(2H)4H 63
46	-	150002.8	-	-	-0.997	9(4D)6G 48	0.047	9(4F)6G 47	-0.035	9(4F)6H 45		
47	-	150271.5	-	-	-0.797	10(4G)4H89	-0.578	10(4G)4H88	0.135	10(4F)4H90	-0.071	10(2H)4H92
48	-	155478.6	-	-	0.998	8(2I)4I 39	0.059	8(2H)4H 40				
49	-	156114.4	-	-	0.990	10(2I)4K84	-0.101	10(2I)4I86	0.054	10(2H)4I87	0.039	10(2I)2K95
50	-	156931.6	-	-	-0.999	9(4G)2I 72						
51	-	157406.9	-	-	-0.991	8(2I)2I 42	-0.124	8(2I)2I 41	0.056	8(2H)4H 40		
52	-	157630.2	-	-	0.904	10(2I)4H91	-0.312	10(2I)4I86	-0.182	10(2H)4H92	0.124	10(4G)4H88
53	-	157917.9	-	-	-0.975	9(4G)4H 58	0.147	9(4G)4I 52	0.144	9(4G)4H 59	-0.044	9(2I)4H 62
54	-	158097.2	-	-	0.974	9(4G)4I 52	-0.159	9(4G)4I 53	0.148	9(4G)4H 58	-0.037	9(2F)4H 66
55	-	158098.9	-	-	-0.871	7(3F)4H 29	-0.490	7(3F)4H 30	0.035	7(1G)2I 36		
56	-	158798.7	-	-	-0.927	10(2I)4I86	-0.316	10(2I)4H91	0.135	10(4G)4I85	-0.085	10(2I)4K84
57	-	159236.8	-	-	0.978	10(4F)6G83	-0.116	10(2I)2I98	-0.105	10(4G)6G82	-0.075	10(2G)4H94
58	-	159306.7	-	-	-0.766	10(2I)2I98	0.496	10(2I)2K95	-0.270	10(2I)2K96	0.174	10(2G)2I104
59	-	160213.5	-	-	-0.738	10(2I)2K95	-0.553	10(2I)2I98	0.316	10(2I)2K96	0.123	10(2G)2I104
60	-	161409.5	-	-	-0.996	9(2I)4I 54	0.062	9(2I)4K 50	-0.051	9(2H)4H 63		
61	-	161493.8	-	-	0.985	9(2I)4L 49	-0.152	9(2I)4K 50	0.056	9(2H)4K 51	0.038	9(2H)2K 70
62	-	161644.4	-	-	0.983	9(2I)4K 50	0.156	9(2I)4L 49	0.060	9(2H)4I 55	0.060	9(2I)4I 54
63	-	162239.2	-	-	-0.952	8(2I)2I 41	0.273	8(2H)4H 40	0.135	8(2I)2I 42		
64	-	162676.4	-	-	0.936	9(4F)6H 45	0.341	9(4F)6G 47	-0.047	9(2G)4I 57	-0.045	9(2F)4H 67
65	-	162770.5	-	-	-0.935	9(4F)6G 47	0.339	9(4F)6H 45	0.068	9(2G)4H 65	-0.056	9(4D)6G 48
66	-	163441.6	-	-	0.881	10(2I)2K96	0.426	10(2I)2K97	-0.112	10(2H)2K97	0.099	10(2H)2I102
67	-	163493.9	-	-	0.923	9(2I)4H 62	-0.295	9(4F)4H 61	-0.156	9(2F)4H 66	-0.126	9(4G)4H 59
68	-	163945.1	-	-	0.983	10(2I)2I99	-0.117	10(2G)2I103	-0.070	10(2H)2I103	0.065	10(2I)4I86
69	-	164121.2	-	-	-0.958	8(2H)4H 40	-0.279	8(2I)2I 41	0.055	8(2I)4I 39		
70	-	164257.9	-	-	0.941	9(2I)2K 69	0.331	9(2I)2K 68	-0.043	9(2H)4I 55	0.032	9(2H)2I 76
71	-	165183.8	-	-	-0.973	10(2H)4I87	-0.158	10(2G)4H94	-0.092	10(2I)2K95	-0.069	10(4F)4H90
72	-	165259.7	-	-	0.785	7(1G)2I 36	0.618	7(1G)2I 37	0.034	7(3F)4H 29		
73	-	165734.0	-	-	0.788	9(2F)4H 66	-0.592	9(4F)4H 61	-0.092	9(4F)4H 60	0.063	9(2H)4H 63
74	-	165752.4	-	-	-0.714	10(2H)4H92	-0.620	10(2G)4H94	-0.219	10(2I)4H91	0.139	10(4F)4H90
75	-	166527.3	-	-	0.737	10(4F)4H90	0.470	10(2G)4H94	-0.304	10(2H)4H92	-0.200	10(2H)2I101
76	-	166618.1	-	-	0.638	9(4F)4H 61	0.547	9(2F)4H 66	0.313	9(2I)2I 74	-0.276	9(2H)4H 63
77	-	167189.4	-	-	0.889	9(2I)2I 74	-0.269	9(4F)4H 61	0.210	9(2H)2I 76	-0.186	9(2F)4H 66
78	-	168114.8	-	-	0.722	10(2H)2I101	0.371	10(2G)2I104	-0.325	10(2H)2I102	0.281	10(2I)2I100
79	-	169010.8	-	-	-0.717	10(2I)2I100	-0.571	10(2H)2I102	0.283	10(2G)2I104	-0.164	10(2H)2I101
80	-	169210.4	-	-	-0.656	9(2I)2K 68	0.517	9(2I)2I 73	0.391	9(2H)4I 55	0.248	9(2I)2K 69
81	-	169443.2	-	-	0.798	9(2I)2I 73	0.450	9(2I)2K 68	-0.213	9(2H)4I 55	-0.170	9(2I)2K 69
82	-	169450.5	-	-	-0.578	10(2H)4H92	0.566	10(2G)4H94	-0.550	10(4F)4H90	0.132	10(2G)2I104
83	-	169704.2	-	-	-0.676	9(2H)4I 55	-0.491	9(2I)2K 68	0.403	9(2G)4I 57	0.288	9(2H)4K 51
84	-	170002.6	-	-	-0.914	9(2H)4K 51	-0.379	9(2H)4I 55	-0.092	9(2G)4H 65	-0.060	9(2G)4I 57
85	-	170739.8	-	-	-0.960	10(2H)2K97	-0.159	10(2H)2I102	-0.145	10(2I)2K96	0.124	10(2H)2I101
86	-	171155.1	-	-	0.806	9(2G)4H 65	0.451	9(2H)4H 63	0.302	9(2G)4I 57	0.144	9(2I)2I 73
87	-	171562.2	-	-	-0.812	9(2G)4I 57	-0.412	9(2H)4I 55	0.280	9(2H)4H 63	0.209	9(2H)4K 51
88	-	171982.4	-	-	0.768	9(2H)4H 63	-0.522	9(2G)4H 65	0.193	9(4F)4H 61	0.143	9(2G)4I 57
89	-	172622.1	-	-	-0.592	10(2H)2I101	0.544	10(2I)2I100	0.482	10(2G)2I104	-0.231	10(2H)2I102
90	-	172733.8	-	-	-0.933	9(2H)2K 71	-0.314	9(2H)2K 70	-0.127	9(2G)4I 57	-0.082	9(2G)2I 80
91	-	174258.1	-	-	-0.699	9(2H)2I 76	-0.625	9(2G)2I 80	-0.225	9(2G)2I 79	-0.200	9(2H)2I 75
92	-	174992.7	-	-	-0.673	10(2H)2I102	-0.664	10(2G)2I104	0.272	10(2I)2I100	0.104	10(2H)2K97
93	-	175168.5	-	-	0.987	9(2F)4H 67	0.098	9(4F)4H 60	0.081	9(2I)4H 62	-0.046	9(4G)4H 59
94	-	176030.8	-	-	-0.670	9(2G)2I 80	0.619	9(2H)2I 76	-0.254	9(2I)2I 74	-0.200	9(2I)2I 73
95	-	176758.5	-	-	-0.940	9(4F)4H 60	0.233	9(2G)2I 79	0.152	9(4F)4H 61	-0.107	9(2H)2I 76
96	-	177814.5	-	-	0.881	9(2H)2I 75	-0.374	9(2G)2I 79	-0.145	9(4F)4H 60	-0.145	9(2H)2K 70
97	-	177848.8	-	-	0.912	9(2H)2K 70	-0.317	9(2H)2K 71	0.208	9(2H)2I 75	0.099	9(2H)2I 80
98	-	179412.2	-	-	0.857	9(2G)2I 79	0.336	9(2H)2I 75	-0.271	9(2G)2I 80	0.185	9(4F)4H 60
99	-	190671.7	-	-	0.989	10(2G)4H93	-0.115	10(2I)4H91	-0.071	10(2G)2I103	-0.045	10(2G)4H94
100	-	194447.9	-	-								

J 7.5 26.01			D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2																	
	OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS															
1	-	103643.3	-	-	0.916 6(3H)4K 1	-0.333 6(3H)4I 2	0.198 6(3H)2K 5	0.090 6(3G)4I 3												
2	103878.340	103854.0	-24.4	4D (3H)4I	0.891 6(3H)4I 2	0.365 6(3H)2K 5	0.253 6(3H)4K 1	-0.077 6(3G)4I 3												
3	104119.710	104087.7	-32.1	4D (3H)2K	0.907 6(3H)2K 5	-0.299 6(3H)4K 1	-0.291 6(3H)4I 2	-0.049 6(3G)4I 3												
4	-	108944.2	-	-	0.992 6(3G)4I 3	0.085 6(3H)4I 2	-0.079 6(3H)4K 1	0.055 6(3H)2K 5												
5	-	113645.6	-	-	0.999 6(1I)2L 4	-0.045 6(3H)2K 5														
6	-	114374.0	-	-	-0.999 6(1I)2K 6	0.048 6(3H)4I 2														
7	-	124217.7	-	-	0.876 7(3H)4K 7	-0.369 7(3H)4I 8	0.303 7(3H)2K 11	0.063 7(3G)4I 9												
8	-	124321.5	-	-	0.863 7(3H)4I 8	0.456 7(3H)2K 11	0.209 7(3H)4K 7	-0.044 7(3G)4I 9												
9	-	124485.1	-	-	0.834 7(3H)2K 11	-0.429 7(3H)4K 7	-0.341 7(3H)4I 8	-0.055 7(3G)4I 9												
10	-	129404.1	-	-	0.996 7(3G)4I 9	-0.070 7(3H)4K 7	0.047 7(3H)2K 11	0.043 7(3H)4I 8												
11	-	134215.2	-	-	0.999 7(1I)2L 10	-0.038 7(3H)2K 11														
12	-	134621.0	-	-	-0.999 7(1I)2K 12	0.042 7(3H)4I 8														
13	-	139798.9	-	-	0.998 10(4G)6H32	-0.057 10(4G)4I34	-0.032 10(2H)4I36													
14	-	143806.7	-	-	-0.991 9(4G)6H 15	0.120 9(4G)6I 14	0.042 9(4F)6H 16													
15	-	144006.3	-	-	0.992 9(4G)6I 14	0.121 9(4G)6H 15														
16	-	146831.4	-	-	-0.987 9(4G)4I 21	-0.159 9(4G)4I 20														
17	-	147680.7	-	-	-0.986 10(4G)4I34	-0.142 10(2I)4I35	-0.058 10(4G)6H32	-0.053 10(2H)4I36												
18	-	155507.7	-	-	1.000 8(2I)4I 13															
19	-	156356.6	-	-	0.992 10(2I)4K33	-0.092 10(2I)4I35	0.047 10(2H)4I36	-0.040 10(2I)2L37												
20	-	158106.3	-	-	-0.986 9(4G)4I 20	0.159 9(4G)4I 21	0.034 9(4F)6H 16	0.031 9(2H)2K 30												
21	-	158740.4	-	-	-0.981 10(2I)4I35	0.144 10(4G)4I34	-0.088 10(2I)4K33	0.073 10(2I)2K39												
22	-	159873.7	-	-	-0.827 10(2I)2K38	0.463 10(2I)2K39	-0.251 10(2I)2L37	-0.161 10(2H)2K40												
23	-	161440.3	-	-	0.998 9(2I)4I 22	-0.045 9(2I)4K 18														
24	-	161512.9	-	-	0.983 9(2I)4L 17	-0.166 9(2I)4K 18	0.067 9(2H)4K 19													
25	-	161639.9	-	-	-0.962 10(2I)2L37	0.195 10(2I)2K38	-0.174 10(2I)2K39	-0.053 10(2I)4K33												
26	-	161675.3	-	-	-0.982 9(2I)4K 18	-0.169 9(2I)4L 17	-0.057 9(2H)4I 23	-0.043 9(2I)4I 22												
27	-	162677.0	-	-	0.996 9(4F)6H 16	-0.070 9(2G)4I 25	0.040 9(4G)6H 15	0.035 9(4G)4I 20												
28	-	163916.5	-	-	0.852 10(2I)2K39	0.487 10(2I)2K38	-0.155 10(2H)4I36	0.080 10(2I)4I35												
29	-	164251.8	-	-	0.883 9(2I)2K 29	0.319 9(2I)2K 28	-0.316 9(2I)2L 27	-0.110 9(2I)2L 26												
30	-	164260.1	-	-	0.888 9(2I)2L 27	0.315 9(2I)2K 29	0.309 9(2I)2L 26	0.114 9(2I)2K 28												
31	-	165577.9	-	-	-0.975 10(2H)4I36	-0.180 10(2I)2K38	-0.076 10(2I)2K39	0.057 10(2H)2K40												
32	-	169165.4	-	-	0.730 9(2I)2L 26	-0.431 9(2I)2K 28	0.286 9(2H)4I 23	-0.262 9(2H)4K 19												
33	-	169245.0	-	-	-0.618 9(2I)2K 28	-0.535 9(2I)2L 26	0.437 9(2H)4I 23	0.264 9(2I)2K 29												
34	-	169960.7	-	-	0.533 9(2H)4K 19	-0.504 9(2H)4I 23	-0.498 9(2I)2K 28	0.417 9(2G)4I 25												
35	-	170129.7	-	-	-0.765 9(2H)4K 19	-0.549 9(2H)4I 23	-0.249 9(2I)2K 28	-0.194 9(2I)2L 26												
36	-	170725.7	-	-	-0.982 10(2H)2K40	-0.132 10(2I)2K39	0.085 10(2I)2K38	0.081 10(2I)2L37												
37	-	171480.6	-	-	0.855 9(2G)4I 25	0.397 9(2H)4I 23	-0.225 9(2H)4K 19	-0.183 9(2H)2K 31												
38	-	172868.2	-	-	0.910 9(2H)2K 31	0.316 9(2H)2K 30	0.213 9(2G)4I 25	0.126 9(2I)2L 26												
39	-	177881.2	-	-	0.940 9(2H)2K 30	-0.331 9(2H)2K 31	0.049 9(2I)2L 27	0.043 9(2G)4I 25												
40	-	194438.6	-	-	-1.000 9(2G)4I 24															

J 8.5 26.01			D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2																	
	OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS															
1	-	103545.1	-	-	0.999 6(3H)4K 1	0.051 6(1I)2L 2														
2	-	113650.8	-	-	-0.999 6(1I)2L 2	0.051 6(3H)4K 1														
3	-	124137.3	-	-	0.999 7(3H)4K 3	0.044 7(1I)2L 4														
4	-	134214.9	-	-	-0.999 7(1I)2L 4	0.044 7(3H)4K 3														
5	-	144009.1	-	-	1.000 9(4G)6I 5															
6	-	156634.0	-	-	0.996 10(2I)4K11	-0.085 10(2I)2L12														
7	-	161543.2	-	-	0.989 9(2I)4L 6	-0.134 9(2I)4K 7	0.060 9(2H)4K 8													
8	-	161621.6	-	-	0.996 10(2I)2L12	0.085 10(2I)4K11														
9	-	161716.4	-	-	0.991 9(2I)4K 7	0.135 9(2I)4L 6														
10	-	164249.3	-	-	0.939 9(2I)2L 10	0.334 9(2I)2L 9	-0.081 9(2H)4K 8													
11	-	169188.3	-	-	0.853 9(2I)2L 9	-0.398 9(2H)4K 8	-0.337 9(2I)2L 10													
12	-	170290.8	-	-	-0.911 9(2H)4K 8	-0.402 9(2I)2L 9	0.064 9(2I)2L 10	0.050 9(2I)4L 6												

J 9.5 26.01			D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2																	
	OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS															
1	-	161586.3	-	-	1.000 9(2I)4L 1															

Table 3. Slater parameters for odd levels.

These are the least-squares parameters used to compute the eigenvalues shown in Table 4. The columns list the parameter number, the configuration to which the parameter applies – or, for a configuration–interaction parameter, the configurations between which it applies – the parameter name, the parameter value in cm^{-1} , the variance of the parameter value, and, finally, qualifications on the parameters.

The parameters are

EAV: E_{av} , average energy for a configuration;

F and G: Slater integrals F^n and G^n ;

ALPHA and BETA: α and β , effective configuration–interaction parameters;

ZETA: ζ spin–orbit interaction parameter;

D and E: direct and exchange Slater integrals R^n for configuration interaction. For exchange integrals, the final two orbitals of the four indicated should be interchanged.

Qualifications on a parameter arise if it has been kept fixed in the least-squares fit or was defined as a linear combination of other parameters. In a linear combination, the other parameters are indicated by their numbers.

The standard deviation shown on the last line is defined as the square root of the sum of the squares of the residuals (E–O in Table 4) divided by the number of observed levels used in the least-squares fit minus the number of free parameters.

Johansson, Litzen, Sinzelle, and Wyart (1980) have determined Slater parameters (in Racah notation) for all the odd configurations. We have adopted a slightly different Hamiltonian with fewer effective parameters and used their parameters as starting values. In the future we expect to compute Hartree–Fock Slater parameters as a guide in estimating those that cannot be determined by least squares and to predict configurations that have not been observed.

SLATER PARAMETERS

26.01

ODD CONFIGURATIONS

		PARAMETER		VARIANCE	
1	D6 4P	EAV	71705.1	52.4	
2		F2(3D3D)	70636.7	87.5	
3		F4(3D3D)	42648.9	166.3	
4		ALPHA	66.8	1.6	
5		BETA	557.2	46.6	
6		ZETA 3D	426.3	22.2	
7		ZETA 4P	408.5	39.2	
8		F2(3D4P)	12971.6	166.3	
9		G1(3D4P)	5049.5	65.3	
10		G3(3D4P)	2854.6	135.3	
11	D5 4S4P	EAV	115599.3	62.3	
12		F2(3D3D)	75699.1	267.5	
13		F4(3D3D)	47643.5	177.6	
14		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
15		BETA	557.2	0.0	LINEAR = 1.000 * 5
16		ZETA 3D	441.2	62.4	
17		ZETA 4P	532.7	72.6	
18		F2(3D4P)	15351.6	339.8	
19		G2(3D4S)	7309.7	246.8	
20		G1(3D4P)	6099.3	166.5	
21		G3(3D4P)	5570.5	406.0	
22		G1(4S4P)	29614.1	215.6	
23	D6 5P	EAV	118544.6	51.1	
24		F2(3D3D)	70636.7	0.0	LINEAR = 1.000 * 2
25		F4(3D3D)	42648.9	0.0	LINEAR = 1.000 * 3
26		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
27		BETA	557.2	0.0	LINEAR = 1.000 * 5
28		ZETA 3D	426.3	0.0	LINEAR = 1.000 * 6
29		ZETA 5P	130.0	0.0	FIXED
30		F2(3D4P)	2571.4	437.4	
31		G1(3D4P)	1370.8	106.5	
32		G3(3D4P)	685.4	0.0	LINEAR = 0.500 * 31
33	D6 4F	EAV	131659.0	1.2	
34		F2(3D3D)	70636.7	0.0	LINEAR = 1.000 * 2
35		F4(3D3D)	42648.9	0.0	LINEAR = 1.000 * 3
36		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
37		BETA	557.2	0.0	LINEAR = 1.000 * 5
38		ZETA 3D	426.3	0.0	LINEAR = 1.000 * 6
39		ZETA 4F	1.0	0.8	
40		F2(3D4F)	948.6	17.1	
41		F4(3D4F)	79.1	43.1	
42		G1(3D4F)	73.4	7.1	
43		G3(3D4F)	0.0	0.0	FIXED
44		G5(3D4F)	0.0	0.0	FIXED
45	D6P-D5SP	2D(3D3D3D4S)	-1745.8	433.2	
46	D6P-D5SP	2D(3D4P4S4P)	-7532.0	945.2	
47	D6P-D5SP	1E(3D4P4S4P)	-10620.3	492.6	
48	D6P-D6P	0D(3S4P3S4P)	0.0	0.0	FIXED
49	D6P-D6P	2D(3D4P3D4P)	0.0	0.0	FIXED
50	D6P-D6P	1E(3D4P3D4P)	0.0	0.0	FIXED
51	D6P-D6P	3E(3D4P3D4P)	0.0	0.0	FIXED
52	D5SP-D6P	2D(3S4P3D3D)	-1745.8	0.0	LINEAR = 1.000 * 45
53	D5SP-D6P	2D(4S4P3D4P)	-2500.0	0.0	FIXED
54	D5SP-D6P	1E(4S4P3D4P)	-3668.2	126.9	
		STANDARD DEVIATION		157.9	

Table 4. Energies and eigenvector components for odd levels.

The energy levels are presented separately for each value of the angular momentum J . In the heading for each J , the configurations are listed and numbered. The columns list the eigenvalue number that will be used later below to identify the state, the observed energy in cm^{-1} , the eigenvalue, the eigenvalue minus the observed energy, the published assignment of the observed level, and, finally, the largest eigenvector components. The levels are listed in order of increasing eigenvalue. The observed levels and their labels (assignments) have been taken from Johansson (1978) and have been assigned to the eigenvalues in the least-squares process. A minus sign preceding a level indicates that it was not used in the least-squares fit. In computing gf values and wavelengths, the observed energy is used when available; otherwise, the computed eigenvalue is used. The eigenvector components listed are the four largest or as many as there are larger than 0.03. The LS basis states are listed in the following notation:

- 2(4D)6P 26 , from the first line of the table, means
- 2 configuration number = $d^5 4s4p$;
 - (4D) LS term of the ancestor configuration = $d^5 4D$;
 - 6P LS term = 6P ;
 - 26 arbitrary LS basis state number to distinguish identical terms with different seniority.

Odd levels that were unclassified by Johansson have been matched to eigenvectors so that lines would appear at the proper wavelengths. These should not be considered assignments. The gf values for lines connecting such levels may be completely random or may even be accidentally correct.

The level 102893.38, 5.5 is misprinted in Johansson as 102983.38.

77	-109780.000	109467.4	28ODD	-0.414	3(3P)4P130	0.348	3(3P)4P129	-0.344	3(3P)2P143	0.332	2(2F)4D 67
78	-	110061.1	-	0.521	3(3P)2D137	-0.428	3(3P)2D136	0.401	3(3P)4P130	-0.335	3(3P)4P129
79	-	110226.3	-	-0.585	3(3P)4F119	0.349	3(3P)4D123	0.306	3(3P)4F118	-0.263	2(4G)4F 48
80	-	110427.0	-	0.453	3(3P)4D123	0.422	3(3P)4F119	0.327	3(3P)4D126	-0.263	3(3P)4D125
81	-	110646.5	-	-0.437	3(3P)2P143	0.408	3(3P)4D123	-0.365	3(3P)4D126	0.354	3(3P)2P142
82	-	110987.9	-	-0.380	3(3P)2D137	0.353	3(3P)4D126	-0.347	3(3P)2P143	0.311	3(3P)2D136
83	-	111931.9	-	-0.795	3(3P)2D134	0.393	3(3P)2D133	0.184	3(3G)4F117	-0.158	3(3P)2D137
84	-	112144.1	-	0.621	2(2D)2P107	0.369	2(2D)2P108	0.344	2(2D)2P103	0.211	3(3P)2P143
85	-	112474.7	-	-0.475	2(2G)4F 55	-0.339	3(3F)4F119	0.315	2(4D)4F 53	-0.298	2(4D)4F 52
86	-	112802.5	-	0.536	2(2G)4F 55	-0.481	2(4G)4F 49	0.377	2(4G)4F 48	0.284	2(4F)4F 50
87	-	113385.5	-	0.365	2(4F)4F 50	-0.321	2(4F)4D 61	-0.305	2(2F)2D 89	0.297	2(4F)4F 51
88	-	113561.0	-	-0.432	2(4F)4D 61	-0.364	2(4F)4D 62	0.329	2(2F)2D 89	-0.231	2(4F)4F 50
89	-	113791.0	-	0.489	2(4F)4P 77	-0.451	2(4F)4P 76	-0.344	2(4F)4F 50	-0.249	2(2F)2D 89
90	-	113817.7	-	0.424	2(4P)4F 77	0.380	2(4F)4F 50	-0.378	2(4F)4P 76	0.310	2(2F)2D 89
91	-	114390.1	-	0.811	3(3G)4F117	0.292	2(2G)4F 55	-0.215	2(2F)4F 57	0.171	2(4G)4F 49
92	-	115131.3	-	0.565	2(4P)4D 66	-0.333	2(4P)4D 65	0.318	3(3F)4D123	-0.302	2(4F)4D 62
93	-	115429.2	-	0.838	1(1D)2D 28	0.395	1(1D)2D 27	-0.220	2(2F)2D 89	-0.159	2(2D)2D 97
94	-	115558.7	-	-0.780	2(4P)4S 84	0.445	2(4P)4S 83	-0.263	3(3P)4S132	0.169	3(3P)4S131
95	-	116590.7	-	-0.847	2(2F)4F 57	-0.235	3(3D)4F120	-0.216	3(3G)4F117	0.197	2(4D)4F 53
96	-	117584.8	-	0.573	2(4D)4D 64	-0.463	2(4D)4D 63	-0.276	2(4D)4P 75	0.242	2(4P)4D 66
97	-	117690.2	-	-0.511	2(4D)4P 75	0.429	2(4D)4P 74	0.328	2(2S)4P 82	0.319	3(3D)4P128
98	-	117887.9	-	0.888	2(4F)2D 86	-0.240	2(4D)2D 87	0.177	2(2F)4D 68	-0.105	2(4D)4F 53
99	-	118546.9	-	-0.506	2(4D)4F 53	-0.378	2(2G)4F 55	0.368	3(3D)4F120	0.321	2(4D)4F 52
100	-	118593.1	-	0.743	2(2F)4D 68	-0.394	3(3D)4D124	0.202	2(4D)4F 53	-0.163	2(2F)4D 67
101	-	119077.5	-	0.816	1(1D)2P 33	0.474	1(1D)2P 32	0.188	1(1S)2P 34	-0.133	2(2S)2P112
102	-	119500.8	-	0.698	3(3D)4P128	-0.439	2(2S)4P 82	-0.387	2(2F)2D 91	-0.263	2(2F)2D 92
103	-	119613.7	-	-0.654	2(2F)2D 91	-0.438	2(2F)2D 92	-0.392	3(3D)4P128	0.264	2(2S)4P 82
104	-	119879.9	-	-0.850	3(3D)4F120	-0.296	2(4D)4F 53	-0.203	2(2G)4F 55	0.189	3(3G)4F117
105	-	120071.7	-	0.794	3(3D)2P141	0.420	3(3D)4D124	0.226	2(2F)4D 68	0.216	3(3D)2D135
106	-	120253.9	-	0.773	3(3D)2D135	-0.495	3(3D)4D124	-0.256	2(2F)4D 68	0.126	3(3D)2P141
107	-	120321.9	-	0.540	3(3D)4D124	0.536	3(3D)2D135	-0.521	3(3D)2P141	0.276	2(2F)4D 68
108	-	122245.6	-	-0.702	4(3P)4D167	0.573	4(3P)4D166	0.319	4(3P)4F159	-0.265	4(3P)4F158
109	-	122256.1	-	0.761	3(1S)2P147	-0.417	3(1S)2P146	-0.266	2(2S)2P111	0.186	2(2D)2P107
110	-	122288.0	-	0.701	4(3P)2D181	-0.573	4(3P)2D180	-0.310	4(3P)4F159	0.257	4(3P)4F158
111	-	122880.7	-	-0.670	2(2S)4P 82	-0.429	2(4D)4P 75	-0.425	3(3D)4P128	0.234	2(4P)4P 77
112	-	123046.4	-	0.715	4(3H)2D175	0.621	4(3H)4D161	-0.296	4(3H)4F153	0.109	4(3G)2P187
113	-	123196.1	-	0.679	4(3H)2D175	-0.661	4(3H)4D161	0.262	4(3H)4F153	-0.087	4(3G)4P169
114	-	123227.2	-	0.903	4(3H)4F153	0.386	4(3H)4D161	0.077	4(3G)2D176	-0.075	4(3F)2P189
115	-	123570.1	-	-0.629	4(3P)4F159	0.516	4(3P)4F158	-0.323	4(3P)2D181	-0.311	4(3P)4D167
116	-	124160.1	-	0.520	4(3P)4P171	-0.458	4(3P)4D164	-0.329	4(3F)4S174	-0.283	4(3F)4P170
117	-	124181.7	-	-0.484	4(3P)2P189	-0.444	4(3P)4S174	0.408	4(3F)2D178	0.290	4(3F)4P171
118	-	124393.9	-	-0.638	4(3F)4P156	0.506	4(3P)2P189	0.339	4(3F)4F155	-0.268	4(3F)2P188
119	-	124411.3	-	0.503	4(3P)2D178	0.502	4(3P)4S174	-0.473	4(3P)4D164	-0.266	4(3F)2D177
120	-	124555.3	-	-0.505	4(3P)4F156	-0.479	4(3P)4D164	-0.344	4(3F)2D178	-0.301	4(3F)4P171
121	-	124582.9	-	-0.493	4(3F)4P171	0.429	4(3F)2D178	-0.425	4(3F)4S174	0.360	4(3F)2P189
122	-	125011.2	-	-0.595	3(1D)2P144	0.454	2(2S)2P111	0.321	3(1D)2P145	0.309	3(1S)2P147
123	-	125780.6	-	-0.833	3(1D)2D139	0.443	3(1D)2D140	0.132	2(2D)2D 98	0.126	2(2F)2D 90
124	-	126148.4	-	-0.559	3(1D)2P144	-0.496	2(2S)2P111	0.312	3(1D)2P145	-0.270	2(2S)2P112
125	-	127091.3	-	0.731	4(3G)2P187	-0.390	4(3G)4D162	-0.370	4(3G)2D176	0.356	4(3G)4P169
126	-	127456.6	-	0.571	4(3G)4P169	-0.538	4(3G)4D162	-0.429	4(3G)2P187	0.363	4(3G)2D176
127	-	127458.6	-	0.676	4(3G)4P154	-0.431	4(3G)2D176	-0.401	4(3G)4P169	-0.321	4(3G)2P187
128	-	127639.7	-	-0.652	4(3G)4D162	-0.607	4(3G)4F154	-0.383	4(3G)4P169	-0.167	4(3G)2D176
129	-	127658.4	-	-0.701	4(3G)2D176	0.456	4(3G)4P169	-0.382	4(3G)2P187	-0.283	4(3G)4F154
130	-	128610.4	-	-0.637	2(2D)4F 59	0.626	2(2D)4D 70	0.185	2(2F)4D 61	0.141	2(2G)4F 55
131	-	128777.6	-	-0.650	2(2D)4D 70	-0.636	2(2D)4F 59	-0.198	2(4F)4D 61	0.168	2(4F)4D 62
132	-	128971.2	-	-0.524	2(2D)2D 98	0.369	2(2D)2D 97	-0.311	2(2D)2D 94	0.308	2(2F)2D 90
133	-	129751.6	-	-0.513	2(2D)2P108	0.329	2(2D)2D 98	-0.286	2(2D)2P104	0.278	2(2F)2D 90
134	-	130731.6	-	0.686	2(4F)4F 51	-0.514	2(4F)4F 50	-0.259	2(2D)4F 59	0.174	2(2D)2D 98
135	-	131104.4	-	-0.529	2(2D)4P 79	-0.355	2(2F)2D 90	0.347	2(4F)4D 62	0.318	3(1F)2D138
136	-	131233.5	-	-0.715	2(2D)4P 79	0.316	2(2F)2D 90	-0.277	3(1F)2D138	-0.264	2(2S)4P 82
137	-	131707.0	-	0.589	2(4F)4D 62	-0.464	2(4F)4D 61	0.280	2(2D)4D 70	-0.269	3(1F)2D138
138	-	132600.7	-	0.767	3(1F)2D138	0.409	2(2F)2D 90	0.207	2(2D)2D 98	-0.198	2(2F)2D 89
139	-	132791.2	-	0.795	4(1G)2D183	-0.591	4(1G)2D182	0.067	4(3H)4F153	-0.050	4(3F)2P189
140	-	132810.4	-	0.794	4(1G)2P192	-0.592	4(1G)2P191	0.065	4(3D)2P190	0.053	4(3H)4D161
141	-	132904.8	-	-0.758	4(3D)2P190	-0.416	4(3D)4D165	-0.409	4(3D)4P172	-0.263	4(3D)2D179
142	-	132933.1	-	0.850	4(3D)4F157	0.365	4(3D)4D165	-0.340	4(3D)2P190	0.135	4(3D)2D179
143	-	132934.8	-	-0.581	4(3D)2D179	0.570	4(3D)4P172	0.424	4(3D)4D165	-0.314	4(3D)2P190
144	-	133048.4	-	0.705	4(3D)4P172	-0.623	4(3D)4D165	0.250	4(3D)2D179	0.168	4(3D)4F157
145	-	133061.4	-	0.711	4(3D)2D179	-0.431	4(3D)4F157	-0.425	4(3D)2P190	0.347	4(3D)4D165
146	-	134125.0	-	-0.645	2(2D)2P105	-0.404	2(2D)2P106	0.390	2(2D)2D 95	-0.289	2(2S)2P111
147	-	134462.9	-	-0.682	2(2D)2D 95	-0.381	2(2D)2P105	-0.366	2(2D)2D 96	-0.257	2(2D)2P106
148	-	137273.0	-	0.858	2(2G)4F 54	0.394	3(3P)4F118	0.211	3(3P)4F119	0.172	2(2D)4F 58
149	-	137631.5	-	0.596	3(3P)4D125	0.541	3(3P)4D122	0.478	3(3P)4D126	0.278	3(3P)4D123
150	-	138380.4	-	-0.453	3(3P)2D136	-0.354	3(3P)2D137	-0.345	2(2F)2D 92	-0.290	1(1S)2P 34
151	-	138493.2	-	0.791	1(1S)2P 34	0.437	1(1S)2P 35	-0.163	3(3P)2D136	-0.157	1(1D)2P 33
152	-	138617.8	-	0.442	3(3P)4S131	0.430	3(3P)4P129	0.359	3(3P)4P130	0.343	3(3P)2D136
153	-	138926.4	-	0.872	4(1D)2P194	-0.477	4(1D)2P195	-0.053	4(3D)2D179	0.053	4(3D)4D165
154	-	139017.6	-	0.873	4(1D)2D185	-0.474	4(1D)2D186	0.069	4(3D)4F157	-0.051	4(3D)2P190
155	-	139199.9	-	0.659	3(3F)2D133	0.325	3(3F)2D134	-0.273	3(3F)4D122	0.255	3(3P)4P129
156	-	139252.7	-	0.539	3(3P)2D133	0.373	3(3P)4S131	0.318	3(3F)4D122	-0.315	3(3P)4P129
157	-	139534.0	-	-0.493	3(3P)4D122	0.368	3(3P)4D125	-0.333	3(3P)4P129	0.330	3(3P)4S131
158	-	139769.9	-	-0.632	3(3P)2P142	-0.520	3(3P)2P143	0.244	2(2F)2D 92	0.204	3(3P)4D125
159	-	139876.9	-	0.767	3(3P)4F118	0.409	3(3P)4F119	-0.406	2(2G)4F 54	-0.186	2(4F)4F 51
160	-	140500.2	-	0.546	2(2F)2D 92	-0.453	3(3P)2D136	-0.394	3(3P)2D137	-0.387	2(2F)2D 91
161	-	142953.5	-	-0.787	2(2S)2P112	0.465	2(2S)2P111	0.255	2(2D)2P106	-0.143	2(2D)2P105
162	-	145123.1	-	0.994	4(1F)2P193	-0.048	4(3F)4S173	0.046	4(3F)4D163	-0.045	4(3F)2D177
163	-	145233.6	-	-0.994	4(1F)2D184	-0.058	4(3F)4F155	0.047	4(3F)2P188	-0.031	4(3F)4F156
164	-	149140.6	-	-0.871	2(2P)4P 81	0.425	2(2D)4P 78	-0.189	2(2D)4P 80	-0.094	3(3P)4P129
165	-	150852.8	-	0.851	2(2D)2D 96	-0.459	2(2D)2D 95	-0.126	2(2F)2D 92	-0.103	2(2P)2D 99
166	-	151711.0	-	0.546	4(3P)4F158	0.448	4(3P)4F159	0.314	4(3P)2D180	0.309	4(3P)4D166
167	-	151805.1	-	-0.784	4(3P)4S173	-0.408	4(3				

75	103987.930	103983.7	-4.2	4F(5D)1[31	0.920	4(5D)6H170	-0.238	4(5D)4P199	0.212	4(5D)6G171	0.177	4(5D)4G175
76	104046.350	104055.5	9.2	4F(5D)0[31	-0.727	4(5D)4P199	-0.500	4(5D)4D191	-0.249	4(5D)4F183	-0.198	4(5D)6H170
77	-	104473.9	-	-	-0.592	2(2D)4F 76	0.471	2(4F)6G 43	-0.462	2(2F)4F 72	-0.346	2(2D)4F 74
78	-	105116.8	-	-	0.855	2(4F)6G 43	0.362	2(2F)4F 72	0.235	2(2D)4F 76	0.131	2(2D)4F 74
79	-	105848.5	-	-	0.837	2(4F)6F 45	-0.270	2(4F)6D 47	0.255	2(2D)4F 96	-0.181	2(2D)4D 87
80	-	106181.4	-	-	-0.688	2(2D)4P 96	-0.390	2(2D)4P 94	0.388	2(4F)6F 45	0.209	2(2F)4D 83
81	-	106755.2	-	-	-0.639	2(2F)4G 62	0.379	2(2D)4D 87	-0.314	2(4F)6D 47	-0.284	2(2F)4F 72
82	-	107024.4	-	-	-0.576	2(2F)4G 62	0.510	2(4F)6D 47	-0.398	2(2D)4D 87	-0.224	2(2D)4D 85
83	-107196.200	107346.9	-	180DD	0.696	2(4F)6D 47	0.288	2(2D)4D 87	0.269	2(4F)6F 45	-0.249	2(2F)4D 83
84	-	107758.7	-	-	0.460	2(2F)4F 72	0.424	2(2D)4D 87	-0.320	2(2D)4F 76	-0.273	2(2D)2D127
85	-108130.600	108208.7	-	220DD	0.448	2(2F)4D 83	-0.312	2(2F)4F 72	-0.310	2(2D)2D127	0.300	2(2F)2D119
86	-	108737.3	-	-	-0.382	3(3P)4D148	0.313	3(3P)4D147	0.273	2(2D)2D127	0.257	2(2D)4P 96
87	108629.250	108778.0	148.8	4SP(3G)4G	-0.532	3(3H)4G134	0.475	2(4G)4G 56	-0.385	2(4G)4G 55	0.329	2(2H)4G 59
88	-	108870.7	-	-	-0.607	3(3P)4P152	0.511	3(3P)4P151	-0.340	3(3P)2D166	0.281	3(3P)2D165
89	-	109183.0	-	-	0.558	3(3P)2D166	0.528	2(2F)4D 83	-0.461	3(3P)2D165	0.145	2(2D)4P 96
90	-	109688.6	-	-	0.658	3(3H)4G134	0.462	3(3F)4G137	0.379	2(2H)4G 59	0.264	2(2F)4G 63
91	-	110084.4	-	-	0.460	3(3F)4F141	-0.420	3(3F)4D145	-0.272	3(3P)4D148	-0.245	3(3F)4F140
92	-	110180.0	-	-	0.589	2(2D)2F114	0.355	2(2D)2F115	0.324	2(2D)2F110	-0.268	2(4F)4G 57
93	-	110354.2	-	-	-0.545	3(3F)4F141	-0.310	3(3F)4D145	-0.303	3(3F)4D148	0.289	3(3F)4F140
94	-	110619.5	-	-	0.546	3(3P)4D145	-0.419	3(3P)4D148	0.340	3(3P)4D147	-0.331	2(2F)4D 83
95	-	111027.6	-	-	0.547	2(4F)4G 57	0.446	2(4F)4G 58	0.295	2(4G)4G 56	0.253	2(2D)2F114
96	-	111569.2	-	-	-0.801	3(3P)2F155	0.437	3(3F)2F154	0.159	3(3G)2F153	0.132	3(3G)4G135
97	-	111745.1	-	-	-0.830	3(3P)2D163	0.429	3(3P)2D162	0.119	3(3G)2F153	0.110	3(3F)2F155
98	-111929.000	111828.6	-	290DD	-0.563	3(3F)4G137	0.446	2(2G)4G 61	0.366	2(2H)4G 59	0.294	3(3F)4G136
99	-	112370.0	-	-	0.441	2(2G)4G 61	-0.399	3(3P)4G135	-0.331	3(3P)4G134	-0.329	2(4G)4G 56
100	-	112427.7	-	-	0.363	2(2G)4F 71	0.306	3(3F)4F141	0.297	2(4G)4F 65	-0.285	2(4D)4F 69
101	-	112686.9	-	-	-0.534	2(2G)4F 71	0.384	2(4G)4F 65	-0.304	2(4G)4F 64	-0.272	2(4D)4F 68
102	-	113194.2	-	-	-0.391	2(2F)2D119	-0.312	2(2F)2F106	-0.299	2(4F)4D 77	-0.233	2(2D)2D127
103	-	113203.1	-	-	-0.709	2(2F)2F106	-0.327	2(2F)2F107	-0.196	2(2D)2F114	-0.186	2(4G)4F 65
104	-	113356.9	-	-	0.452	2(2F)2D119	-0.381	2(4F)4D 77	-0.316	2(4F)4D 78	0.290	2(2D)2D127
105	-	113570.2	-	-	0.616	2(4P)4P 93	-0.569	2(4P)4P 92	0.256	2(4D)4P 91	-0.181	2(4D)4P 90
106	-	113671.6	-	-	0.617	2(4F)4F 66	0.458	2(4F)4F 67	0.185	2(2F)2D119	0.180	3(3F)4F141
107	-	114277.1	-	-	0.801	3(3G)4F139	0.276	2(2G)4F 71	-0.193	2(2F)4F 73	0.183	2(4G)4F 65
108	-	115110.8	-	-	0.509	2(4P)4D 82	0.476	3(3G)2F153	-0.318	2(4P)4D 81	0.254	3(3F)4D145
109	-	115187.4	-	-	-0.689	3(3G)2F153	0.433	3(3G)4G135	0.237	2(4P)4D 82	-0.213	2(4G)4G 56
110	-	115236.6	-	-	-0.637	3(3G)4G135	-0.453	3(3G)2F153	0.300	2(4G)4G 56	-0.216	2(2G)4G 61
111	-	115524.6	-	-	-0.854	1(1D)2D 39	-0.408	1(1D)2D 38	0.173	2(2F)2D119	0.127	2(2D)2D127
112	-	115918.3	-	-	0.614	2(2G)4G 61	-0.391	2(2F)4G 63	-0.364	2(2H)4G 59	-0.349	2(2F)4G 57
113	-	116608.6	-	-	-0.827	2(2F)4F 73	-0.235	3(3D)4F142	0.203	2(4D)4F 69	-0.203	3(3G)4F139
114	-	117246.1	-	-	0.533	1(1D)2F 31	-0.394	2(4F)2D116	0.368	2(2G)2F104	0.286	2(4F)2F100
115	-	117387.3	-	-	-0.613	2(4D)4D 80	0.497	2(4D)4D 79	0.231	2(4F)4D 77	0.219	2(4F)4D 81
116	-	117783.0	-	-	-0.451	2(4D)4P 91	0.384	2(4D)4P 90	0.321	3(3D)4P150	0.313	2(4F)2D116
117	-	117817.2	-	-	0.586	2(4F)2D116	0.399	1(1D)2F 31	0.305	2(4D)4P 91	-0.240	2(4D)4P 90
118	-	118044.1	-	-	0.754	2(4F)2F100	-0.308	2(2F)4G 63	0.295	2(4F)2D116	-0.240	1(1D)2F 31
119	-	118304.3	-	-	-0.699	2(2F)4G 63	0.491	2(2H)4G 59	-0.307	2(4F)2F100	-0.210	2(2G)4G 61
120	-	118534.4	-	-	0.460	2(4D)4F 69	0.337	2(2G)4F 71	-0.321	2(2F)4D 84	-0.318	3(3D)4F142
121	-	118630.8	-	-	-0.703	2(2F)4D 84	0.373	3(3D)4D146	-0.233	2(4D)4F 69	-0.173	2(2F)4F 73
122	-	119193.4	-	-	0.587	2(2G)2F104	0.335	3(1G)2F158	0.304	2(2G)2F105	-0.234	3(1G)2F157
123	-	119521.6	-	-	0.531	3(3D)4P150	-0.457	2(2F)2D121	-0.329	2(2F)2D122	-0.304	2(2G)4P 98
124	-	119687.2	-	-	0.507	3(3D)2F156	-0.464	3(1G)2F158	0.345	3(1G)2F157	0.295	2(2G)2F104
125	-	119796.6	-	-	-0.489	3(3D)4P150	-0.453	2(2F)2D121	0.325	2(2S)4P 98	-0.304	2(2F)2D122
126	-	119931.6	-	-	0.807	3(3D)4F142	0.259	2(4D)4F 69	0.193	2(2F)2D121	0.171	2(2G)4F 71
127	-	120289.9	-	-	0.789	3(3D)4D146	0.406	2(2F)4D 84	-0.218	3(3D)2D164	-0.186	3(3D)2F156
128	-	120351.3	-	-	0.631	3(3D)2F156	0.411	3(3D)2D164	0.355	3(1G)2F158	0.282	3(3D)4D146
129	-	120375.0	-	-	-0.835	3(3D)2D164	0.416	3(3D)2F156	0.193	3(1G)2F158	-0.150	3(1G)2F157
130	-	122253.7	-	-	-0.570	4(3P)4D198	0.500	4(3P)4F190	0.465	4(3P)4D197	-0.415	4(3P)4F189
131	-	122293.6	-	-	-0.519	4(3P)2F210	0.467	4(3P)2D225	0.430	4(3P)2F209	-0.381	4(3P)2D224
132	-	122808.0	-	-	-0.864	4(3H)2D219	-0.416	4(3H)4D192	0.202	4(3H)4F184	0.179	4(3H)2F204
133	-	123048.0	-	-	-0.773	4(3H)4D192	0.460	4(3H)2D219	0.404	4(3H)4F184	-0.112	4(3G)4P200
134	-	123074.9	-	-	0.631	4(3H)2F204	0.576	4(3H)4F184	0.367	4(3H)4D192	-0.326	4(3H)4G176
135	-	123213.0	-	-	0.687	2(2S)4P 98	0.431	2(4D)4P 91	0.393	3(3D)4P150	-0.241	2(4P)4P 93
136	-	123228.4	-	-	0.735	4(3H)2F204	-0.508	4(3H)4F184	0.289	4(3H)4G176	-0.250	4(3H)4D192
137	-	123241.1	-	-	-0.876	4(3H)4G176	-0.422	4(3H)4F184	-0.114	4(3H)4D192	0.085	4(3F)2D222
138	-	123343.2	-	-	-0.858	2(2F)2F108	-0.362	2(2F)2F109	-0.184	2(2F)2F106	0.133	2(2G)2F104
139	-	123569.3	-	-	0.450	4(3P)4D198	-0.382	4(3P)4G182	0.379	4(3P)4F190	-0.364	4(3P)4D197
140	-	123590.8	-	-	0.470	4(3P)2D225	0.400	4(3P)2F210	-0.389	4(3P)4G182	-0.380	4(3P)2D224
141	-	124102.7	-	-	-0.491	4(3P)4G182	0.398	4(3P)4G181	-0.345	4(3P)2D225	-0.320	4(3P)4F190
142	-	124136.5	-	-	-0.487	4(3P)4D195	0.454	4(3F)4F187	-0.348	4(3F)2D222	0.266	4(3F)4D194
143	-	124159.5	-	-	0.526	4(3F)4P202	0.470	4(3F)2D222	-0.330	4(3F)2F207	-0.326	4(3F)4D195
144	-	124366.4	-	-	0.559	4(3F)4G179	-0.492	4(3F)2D222	-0.301	4(3F)4F187	-0.300	4(3F)4G178
145	-	124388.8	-	-	0.540	4(3F)4P202	0.476	4(3F)2F207	-0.402	4(3F)4F187	-0.286	4(3F)4P201
146	-	124532.3	-	-	-0.621	4(3F)4G179	-0.456	4(3F)4F187	0.324	4(3F)4G178	-0.307	4(3F)2F207
147	-	124555.0	-	-	-0.486	4(3F)4D195	0.476	4(3F)2F207	-0.339	4(3F)4P202	0.329	4(3F)2D222
148	-	125654.3	-	-	-0.809	3(1D)2F160	0.440	3(1D)2F161	0.237	3(1D)2F168	0.130	2(2G)2F104
149	-	125838.3	-	-	-0.803	3(1D)2D168	0.428	3(1D)2D169	-0.226	3(1D)2F160	0.145	2(2D)2D128
150	-	127064.1	-	-	-0.768	4(3G)4P200	0.566	4(3G)4D193	-0.266	4(3G)4F185	0.072	4(3H)4D192
151	-	127078.9	-	-	0.722	4(3G)2D220	-0.403	4(3G)2F205	-0.366	4(3G)4F185	0.313	4(3G)4P200
152	-	127450.1	-	-	0.583	4(3G)2F205	0.527	4(3G)4D193	-0.429	4(3G)4F177	0.377	4(3G)4P200
153	-	127450.6	-	-	-0.571	4(3G)4F185	-0.521	4(3G)2D220	0.516	4(3G)4G177	0.287	4(3G)4P200
154	-	127626.9	-	-	-0.670	4(3G)4G177	-0.585	4(3G)4F185	-0.303	4(3G)4D193	-0.248	4(3G)2F205
155	-	127644.2	-	-	-0.635	4(3G)2F205	0.490	4(3G)4D193	-0.388	4(3G)2D220	0.296	4(3G)4F185
156	-	128062.2	-	-	0.547	2(2D)2F115	0.350	2(2F)2F107	0.315	2(2D)2F111	-0.273	2(2D)2D128
157	-	128494.9	-	-	-0.420	2(2D)2D128	-0.313	2(2D)2F115	0.304	2(2D)2D127	-0.259	2(2D)4D 86
158	-	128734.6	-	-	-0.713	2(2D)4D 86	0.464	2(2D)4F 75	-0.202	2(4F)4D 77	0.164	2(2D)2F115
159	-	128913.1	-	-	-0.752	2(2D)4F 75	-0.500	2(2D)4D 86	-0.179	2(2D)4F 67	0.170	2(4F)4F 66
160	-	129492.9	-	-	0.689	2(4F)4G 58	-0.538	2(4F)4G 57	0.268	2(2D)2F115	0.165	2(2F)2F107
161	-	130348.5	-	-	0.599	2(2F)2F107	-0.418	2(2F)2D120	-0.			

175	-	132957.1	-	-	-0.696	4(3D)2F208	-0.514	4(3D)2D223	0.370	4(3D)4F188	-0.273	4(3D)4P203
176	-	133060.1	-	-	0.732	4(3D)4D196	-0.546	4(3D)4F188	-0.362	4(3D)4P203	0.144	4(3D)4G180
177	-	133086.6	-	-	-0.681	4(3D)2F208	0.599	4(3D)2D223	-0.300	4(3D)4F188	0.223	4(3D)4G180
178	-	134433.5	-	-	0.788	2(2D)2D125	0.435	2(2D)2D126	-0.260	2(2F)2D121	-0.236	3(1F)2D167
179	-	135870.5	-	-	-0.870	4(1S)2F218	0.480	4(1S)2F217	-0.067	4(3P)4G182	-0.045	4(3P)4F190
180	-	136340.5	-	-	-0.771	2(2G)2F105	0.440	2(2G)2F104	-0.255	3(1F)2F159	-0.202	3(3F)2F154
181	-	137011.5	-	-	-0.730	2(2G)4G 60	0.544	2(2G)4F 70	0.229	3(3F)4G136	0.221	3(3F)4F140
182	-	137283.5	-	-	-0.676	2(2G)4F 70	-0.557	2(2G)4G 60	-0.300	3(3F)4F140	0.227	3(3F)4G136
183	-	137851.3	-	-	0.607	3(3F)4D144	0.544	3(3P)4D147	0.438	3(3P)4D148	0.318	3(3P)4D145
184	-	138510.0	-	-	-0.824	3(3F)4G136	-0.425	3(3F)4G137	-0.358	2(2G)4G 60	-0.047	3(3F)2F154
185	-	138917.9	-	-	0.519	2(2F)2D122	0.489	3(3P)2D165	0.387	3(3P)2D166	-0.328	2(2F)2D121
186	-	139017.5	-	-	-0.873	4(1D)2D229	0.474	4(1D)2D230	0.056	4(3D)4P203	0.052	4(3D)2F208
187	-	139091.1	-	-	0.604	2(2F)2F109	0.526	3(3F)2F154	0.269	3(3F)2F155	-0.252	2(2F)2F108
188	-	139118.7	-	-	0.874	4(1D)2F215	-0.471	4(1D)2F216	0.056	4(3D)4G180	-0.049	4(3D)2D223
189	-	139261.4	-	-	-0.572	3(3P)4P151	-0.482	3(3P)4P152	0.350	3(3P)4D144	-0.260	2(2F)2D122
190	-	139428.8	-	-	0.783	3(3F)2D162	0.403	3(3F)2D163	0.231	3(3P)2D165	0.177	3(3P)2D166
191	-	139773.2	-	-	-0.478	3(3P)4D147	0.476	3(3F)4D144	-0.392	3(3P)4D148	0.370	3(3P)4P151
192	-	139866.7	-	-	-0.678	3(3F)4F140	-0.363	3(3F)4F141	0.354	3(3F)2F154	0.334	2(2G)4F 70
193	-	140125.3	-	-	-0.503	3(3F)2F154	0.462	2(2F)2F109	-0.348	2(2G)2F102	-0.325	3(3P)4F140
194	-	140817.3	-	-	-0.527	3(3P)2D165	0.497	2(2F)2D122	-0.451	3(3P)2D166	-0.352	2(2F)2D121
195	-	142363.6	-	-	-0.690	2(2G)2F102	-0.423	2(2G)2F103	0.270	2(2D)2F112	-0.268	2(2F)2F109
196	-	145233.6	-	-	0.994	4(1F)2D228	-0.052	4(3F)4P201	-0.042	4(3F)2F206	0.039	4(3F)4F186
197	-	145356.4	-	-	0.994	4(1F)2F214	0.052	4(3F)4G178	-0.044	4(3F)2D221		
198	-	146322.5	-	-	0.756	3(1G)2F157	0.567	3(1G)2F158	-0.163	2(2D)2F112	0.159	2(2D)2F113
199	-	149456.7	-	-	0.871	2(2P)4P 97	-0.430	2(2D)4P 94	0.190	2(2D)4P 96	0.095	3(3P)4P151
200	-	150900.4	-	-	0.818	2(2D)2D126	-0.453	2(2D)2D125	0.191	2(2D)2F113	-0.146	2(2F)2D122
201	-	151065.1	-	-	0.792	2(2D)2F113	-0.424	2(2D)2F112	-0.218	2(2G)2F102	-0.206	2(2D)2D126
202	-	151292.2	-	-	0.533	4(3P)4G181	0.429	4(3P)4G182	0.325	2(2G)2D224	0.307	4(3P)4F189
203	-	151662.9	-	-	0.482	4(3P)4G181	-0.480	4(3P)2D224	0.391	4(3P)4G182	-0.389	4(3P)2D225
204	-	151731.7	-	-	0.402	4(3P)2F209	-0.382	4(3P)4D197	-0.360	4(3P)4F189	0.329	4(3P)2F210
205	-	151876.8	-	-	0.873	4(3F)4P201	0.462	4(3F)4P202	-0.055	4(3P)4D197	-0.054	4(3F)2F206
206	-	151962.9	-	-	-0.832	4(3F)4D194	-0.442	4(3F)4D195	0.158	4(3P)4F189	0.130	4(3P)4F190
207	-	152023.5	-	-	0.822	4(3F)2D221	0.440	4(3F)2D222	0.152	4(3F)4G178	-0.146	4(3F)4F186
208	-	152082.1	-	-	-0.741	4(3F)4F186	-0.393	4(3F)4F187	-0.338	4(3F)2F206	-0.180	4(3F)2F207
209	-	152136.4	-	-	0.759	4(3F)2F206	0.402	4(3F)2F207	-0.315	4(3F)4F186	0.208	4(3P)4D197
210	-	152227.9	-	-	-0.811	4(3F)4G178	-0.430	4(3F)4G179	0.161	4(3F)2D221	0.157	4(3P)4G181
211	-	152595.5	-	-	-0.959	2(2D)4D 88	-0.199	2(2D)4D 85	-0.095	2(2F)4D 84	0.082	2(2D)4D 87
212	-	152636.4	-	-	-0.502	4(3P)4D197	-0.410	4(3P)4D198	-0.358	4(3P)2F209	0.350	4(3P)4F189
213	-	152693.7	-	-	0.441	4(3P)4F189	0.430	4(3P)2F209	0.366	4(3P)4F190	0.356	4(3P)2F210
214	-	155443.3	-	-	0.752	2(2P)2D129	0.494	2(2P)2D130	0.275	2(2D)2D123	0.215	2(2D)2D124
215	-	159170.0	-	-	0.796	4(1G)2D226	0.594	4(1G)2D227	-0.084	4(1G)2F212	-0.062	4(1G)2F213
216	-	159190.9	-	-	-0.797	4(1G)2F212	-0.592	4(1G)2F213	-0.084	4(1G)2D226	-0.062	4(1G)2D227
217	-	159265.0	-	-	0.818	2(2G)2F103	-0.461	2(2G)2F102	0.167	3(1D)2F161	0.138	2(2D)2F111
218	-	159957.3	-	-	-0.834	2(2D)4F 74	0.474	2(2D)4F 76	0.192	2(2G)4F 70	0.155	2(2D)4D 85
219	-	161441.5	-	-	0.832	2(2D)4D 85	-0.465	2(2D)4D 87	-0.222	2(2P)4D 88	0.150	2(2D)4F 74
220	-	162488.5	-	-	0.737	2(2D)4P 94	0.458	2(2P)4P 97	-0.438	2(2D)4P 96	-0.118	2(2D)2D123
221	-	163405.2	-	-	0.597	3(1D)2D169	0.451	2(2D)2D123	0.321	3(1D)2D168	0.320	2(2D)2D124
222	-	164691.2	-	-	0.732	2(2D)2F110	-0.415	2(2D)2F114	0.398	2(2D)2F111	-0.223	2(2D)2F115
223	-	164844.4	-	-	0.845	3(1D)2F161	0.461	3(1D)2F160	-0.167	2(2G)2F103	0.095	2(2D)2D123
224	-	165164.2	-	-	0.614	3(1D)2D169	-0.443	2(2D)2D123	0.325	3(1D)2D168	-0.283	2(2D)2D124
225	-	173651.3	-	-	0.809	2(2P)2D130	-0.493	2(2P)2D129	-0.197	2(2D)2D123	0.163	2(2D)2D124
226	-	177638.3	-	-	0.879	4(1D)2F216	0.475	4(1D)2F215				
227	-	177828.5	-	-	-0.878	4(1D)2D230	-0.478	4(1D)2D229				
228	-	181686.7	-	-	-0.741	2(2D)2F111	0.419	2(2D)2F115	0.400	2(2D)2F110	-0.227	2(2D)2F114
229	-	182534.9	-	-	0.685	2(2D)2D124	-0.456	2(2D)2D123	-0.389	2(2D)2D128	0.253	2(2D)2D127
230	-	198086.6	-	-	0.876	4(1S)2F217	0.482	4(1S)2F218				

J 3.5 26.01 D6 4P + D5 4S4P + D6 5P + D6 4F
 1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	38660.043	38714.2	54.1	4P (5D)6D
2	42237.033	42196.5	-40.6	4P (5D)6F
3	42658.224	42682.9	24.6	4P (5D)6P
4	44446.878	44366.3	-80.6	4P (5D)4D
5	44753.799	44840.5	86.7	4P (5D)4F
6	52582.510	52576.6	-5.9	4SP (7S)8P
7	60956.781	60956.7	-0.1	4P (3H)4G
8	61156.835	61203.1	46.3	4P (3H)4H
9	61726.077	61910.9	184.8	4P (3P)4D
10	62065.521	62067.1	1.6	4P (3F)4F
11	62322.431	62328.1	5.6	4P (3H)2G
12	62171.615	62365.0	193.4	4SP (7S)6P
13	62945.038	63064.5	119.5	4P (3F)4D
14	64040.886	63976.4	-64.5	4P (3F)4G
15	64286.345	64127.8	-158.5	4P (3F)2F
16	65109.679	65047.0	-62.7	4P (3F)2G
17	65931.334	65822.5	-108.9	4P (3G)4G
18	66377.283	66271.1	-106.2	4P (3G)4F
19	66672.334	66599.6	-72.8	4P (3G)4H
20	69606.552	69661.9	55.4	4P (3G)2F
21	70523.706	70464.4	-59.3	4P (3G)2G
22	72352.024	72130.8	-221.3	4P (3D)4F
23	72651.876	72404.5	-247.4	4P (3D)4D
24	73143.288	72599.0	-544.3	4P (1G)2G
25	73016.147	72776.9	-239.2	4P (1G)2F
26	75600.931	75277.1	-323.9	4P (3D)2F
27	78137.364	78814.8	677.4	4P (1D)2F
28	79331.500	79216.1	-115.4	4SP (5S)6P
29	83305.251	83373.4	68.1	4P (1F)2G
30	-	85064.1	-	-
31	-	86138.3	-	-
32	86482.750	86559.3	76.5	4P (1F)2F
33	86929.649	87013.8	84.1	4P (3P)4D
34	87537.652	87470.5	-67.1	4SP (5G)6F
35	88209.450	88207.6	-1.8	4SP (5P)6D
36	88853.533	88851.9	-1.6	5P (5D)6D
37	89128.561	89176.1	47.6	4SP (5P)6P

38	89890.373	89689.9	-200.5	4P (3F)4G	-0.872	1(3F)4G 8	-0.425	1(3F)4G 9	-0.144	2(4G)4G 58	-0.083	2(4G)4G 57
39	90300.625	90269.9	-30.7	5P (5D)6F	-0.715	3(5D)4F129	-0.557	3(5D)6F120	0.284	3(5D)4D134	0.237	2(4G)6F 41
40	90397.868	90480.5	82.7	5P (5D)4D	0.771	3(5D)4D134	0.555	3(5D)6F120	-0.213	2(4G)6F 41	-0.190	3(5D)4F129
41	90780.621	90727.9	-52.7	5P (5D)4F	-0.644	3(5D)4F129	-0.548	3(5D)4D134	0.475	3(5D)6F120	-0.166	2(4G)6F 41
42	91167.937	91189.0	21.0	5P (5D)6P	-0.720	3(5D)6P122	0.559	2(4G)6P 50	0.296	2(4D)6P 49	0.218	2(6S)6P 48
43	92089.260	92101.6	12.4	4SP(5G)4H	0.724	2(4G)4H 51	0.610	2(4G)4H 52	-0.246	2(4D)6F 43	0.110	2(2I)4H 53
44	92154.165	92137.0	-17.2	4SP(5D)6F	0.900	2(4D)6F 43	0.271	2(4G)6F 41	0.199	2(4G)4H 51	0.168	2(4G)4H 52
45	92602.703	92404.2	-198.5	4P (3F)2G	0.640	1(3F)2G 23	-0.433	1(3F)4F 12	0.329	1(3F)2G 24	0.296	2(4G)4F 67
46	92282.460	92599.1	315.7	4SP(5G)4F	0.548	1(3F)2G 23	-0.423	2(4G)4F 67	-0.404	2(4G)4F 66	0.389	1(3F)4F 12
47	93129.900	93151.7	21.8	4P (3F)4D	-0.495	1(3F)4D 19	0.445	1(3F)4D 16	-0.407	1(3P)4D 20	-0.313	2(4G)4F 66
48	93487.650	93455.8	-31.9	4P (3F)4F	-0.554	1(3F)4F 12	-0.357	2(4G)4F 66	-0.356	1(3F)4F 13	0.303	1(3P)4D 19
49	93987.457	93812.9	-174.5	4SP(5D)6D	0.771	2(4D)6D 45	-0.426	2(4D)6P 49	0.345	2(4P)6D 46	0.215	3(5D)6D121
50	94073.240	94161.1	87.8	4SP(5G)4G	-0.814	2(4G)4G 57	-0.497	2(4G)4G 58	-0.115	2(4G)2F103	0.111	1(3F)4G 8
51	94763.219	94603.5	-159.7	4SP(5D)6P	-0.744	2(4D)6P 49	0.462	2(4D)6P 50	-0.404	2(4D)6D 45	-0.149	2(4P)6D 46
52	95079.640	95097.5	17.9	4P (3F)2F	0.735	1(3F)2F 29	-0.436	2(4G)2F103	0.424	1(3F)2F 30	-0.146	1(1G)2F 33
53	96217.420	96143.1	-74.3	4SP(5P)4D	-0.737	2(4D)4D 83	-0.586	2(4P)4D 84	-0.131	2(4D)4F 70	0.106	2(4D)4D 81
54	96356.960	96422.6	65.6	4SP(3G)2F	-0.842	2(4G)2F103	-0.345	1(3F)2F 29	-0.274	1(3F)2F 30	-0.200	2(4F)2F104
55	98391.330	98427.8	36.5	4SP(5D)4D	0.669	2(4D)4D 81	0.594	2(4D)4D 82	-0.187	2(4D)4F 70	0.187	2(4F)4D 80
56	98535.850	98700.0	164.2	4SP(5D)4F	-0.714	2(4D)4F 70	-0.567	2(4D)4F 71	-0.182	2(4D)4D 81	0.176	2(2G)4F 73
57	98898.710	99041.3	142.6	4P (1G)2F	0.653	1(1G)2F 32	0.485	1(1G)2F 33	-0.391	1(1G)2G 25	-0.269	1(1G)2G 26
58	99635.520	99709.6	74.1	4SP(3G)2G	0.662	2(4G)2G 91	-0.485	1(1G)2G 25	-0.336	1(1G)2G 26	-0.309	1(1G)2F 32
59	99808.400	99965.9	157.5	4P (1G)2G	0.697	2(4G)2G 91	0.494	1(1G)2G 25	0.345	1(1G)2G 26	0.201	1(1G)2F 32
60	102887.120	102879.1	-8.1	4F(5D)4(4)	0.526	4(5D)6F158	0.523	4(5D)4F175	-0.397	4(5D)6G157	-0.330	4(5D)4D183
61	102942.200	102935.7	-6.5	4F(5D)4(3)	-0.540	4(5D)6D159	-0.510	4(5D)4F175	0.443	4(5D)6F158	0.305	4(5D)4D183
62	103183.700	103116.4	-67.3	4SP(3D)2F	0.959	2(4D)2F105	-0.139	2(4D)2F108	-0.105	2(4D)2F108	-0.093	2(4D)2F104
63	103340.640	103342.0	1.4	4F(5D)3(4)	-0.700	4(5D)6G157	0.460	4(5D)6D159	0.336	4(5D)4D183	0.246	4(5D)6F156
64	103385.730	103384.8	-0.9	4F(5D)3(3)	-0.677	4(5D)4G167	0.483	4(5D)4D183	0.309	4(5D)6P160	-0.282	4(5D)6F158
65	103676.780	103682.8	6.0	4F(5D)2(3)	0.583	4(5D)6F158	0.451	4(5D)6G157	-0.404	4(5D)6P160	-0.335	4(5D)4G167
66	103711.570	103715.2	3.6	4F(5D)2(4)	-0.587	4(5D)4D183	-0.548	4(5D)4F175	0.341	4(5D)4H161	0.335	4(5D)6F156
67	103882.680	103886.6	3.9	4F(5D)1(4)	0.714	4(5D)6H156	0.393	4(5D)4H161	0.350	4(5D)4G167	0.286	4(5D)6G157
68	103969.760	103983.9	14.2	4F(5D)1(3)	-0.736	4(5D)4H161	0.451	4(5D)6H156	-0.381	4(5D)6P160	-0.214	4(5D)6D159
69	104022.890	104031.3	8.4	4F(5D)0(3)	0.673	4(5D)6P160	0.469	4(5D)6D159	-0.320	4(5D)4H161	0.259	4(5D)6F158
70	-	104736.6	-	-	0.571	2(2D)4F 78	-0.519	2(4F)6G 40	0.433	2(2F)4F 74	0.333	2(2D)4F 76
71	105028.600	104962.7	-65.9	4SP(3I)4H	-0.924	2(2I)4H 53	0.213	2(4G)4H 51	-0.170	2(2G)4H 56	0.122	2(2D)4H 55
72	-	105190.7	-	-	0.825	2(4F)6G 40	0.351	2(2F)4F 74	0.281	2(2D)4F 78	0.158	2(2D)4F 76
73	-	105895.6	-	-	0.907	2(4F)6F 42	-0.296	2(4F)6D 44	0.161	2(4D)6F 43	-0.129	2(4G)6F 41
74	-	106786.7	-	-	0.580	2(2D)4D 89	-0.402	2(4F)6D 44	-0.337	2(2F)4G 64	0.333	2(2D)4D 87
75	-106863.200	107160.5	-	16ODD	-0.745	2(4F)6D 44	0.462	2(2F)4G 64	-0.292	2(4F)6F 42	0.241	2(2D)4F 74
76	-107165.600	107306.9	-	17ODD	0.592	2(2F)4G 64	0.360	2(4F)6D 44	0.357	2(2D)4D 89	-0.302	2(2F)4D 85
77	-107886.600	107813.3	-	20ODD	0.505	2(2F)4F 74	-0.453	2(2D)4F 78	-0.352	2(2F)4G 64	-0.314	2(2F)4D 85
78	-108239.200	108225.2	-	24ODD	0.582	2(2F)4D 85	-0.387	3(3P)4D139	0.363	2(2D)4D 89	0.321	3(3P)4D138
79	108631.090	108751.6	120.5	4SP(3G)4G	0.545	3(3H)4G125	-0.433	2(4G)4G 58	0.349	2(4G)4G 57	-0.302	2(2H)4G 61
80	108906.640	108894.1	-12.5	4SP(3G)4H	0.722	3(3H)4H123	0.446	2(4G)4H 52	-0.393	2(4G)4H 51	0.151	3(3H)4G125
81	-108373.800	109270.0	-	26ODD	0.623	2(2H)4H 54	-0.557	2(2G)4H 56	0.316	2(4G)4H 52	-0.299	2(4G)4H 51
82	-	109466.5	-	-	0.581	3(3P)4D139	0.474	2(2F)4D 85	-0.472	3(3P)4D138	0.206	3(4F)4D136
83	-	109602.5	-	-	-0.612	3(3H)4G125	-0.442	3(3F)4G128	-0.364	2(2H)4G 61	-0.248	2(2F)4G 65
84	-	109808.1	-	-	0.597	2(2F)2G 99	0.386	2(2F)2G100	0.223	3(3H)2G140	0.223	2(2D)2F118
85	-	110039.8	-	-	-0.517	3(3F)4F132	0.372	3(3F)4D136	0.280	3(3F)4F131	0.280	3(3H)2G140
86	-	110317.9	-	-	0.490	3(3F)4F132	0.450	3(3H)2G140	0.422	3(3F)4D136	-0.264	3(3F)4F131
87	-	110387.1	-	-	0.699	3(3H)2G140	-0.471	3(3F)4D136	0.259	3(3F)4D135	0.161	2(4P)4D 84
88	-	110583.4	-	-	0.568	2(2D)2F118	0.355	2(2D)2F119	0.311	2(2D)2F114	-0.243	2(2F)2G 99
89	-	111022.3	-	-	-0.552	2(4F)4G 59	-0.451	2(4F)4G 60	-0.290	2(4G)4G 58	0.250	2(2H)4G 61
90	-	111298.9	-	-	-0.691	3(3F)2F149	0.394	3(3F)2G143	0.392	3(3F)2F148	-0.209	3(3F)2G142
91	-	111477.5	-	-	-0.691	3(3F)2G143	0.364	3(3F)2G142	-0.351	3(3F)2F149	-0.238	3(3H)2G140
92	-	111732.4	-	-	-0.468	3(3H)4H123	0.392	2(4G)4H 52	0.375	3(3F)4G128	0.309	2(2G)4H 56
93	-	111839.6	-	-	-0.384	3(3F)4G128	0.303	2(2G)4G 63	-0.302	3(3H)4H123	0.292	2(4G)4H 52
94	-	112293.7	-	-	0.425	3(3G)4G126	-0.358	2(2G)4G 63	0.348	2(4G)4G 58	-0.322	3(3F)4G128
95	-	112362.5	-	-	0.422	2(2G)4F 73	0.357	3(3F)4F132	-0.300	3(3G)4F130	0.289	2(4D)4F 70
96	-	112568.4	-	-	0.500	2(2G)4F 73	-0.313	2(4F)4D 79	-0.304	2(4G)4F 67	-0.267	2(4F)4D 80
97	-	113099.3	-	-	-0.412	2(4F)4D 79	-0.350	2(2G)4F 73	-0.324	2(4F)4D 80	0.310	2(4G)4F 67
98	-	113239.4	-	-	-0.724	2(2F)2F110	-0.327	2(2F)2F111	-0.218	2(2D)2F118	0.205	2(4F)4F 68
99	-	113513.1	-	-	0.572	2(4F)4F 68	0.439	2(4F)4F 69	-0.292	3(3G)4F130	0.203	2(4F)4D 79
100	-	113842.7	-	-	-0.459	2(2G)2G 97	-0.367	2(2H)2G 93	0.351	2(2F)2G 99	-0.298	2(2G)2G 98
101	-	114136.4	-	-	-0.693	3(3G)4F130	-0.311	3(3G)4H124	-0.256	2(2G)4F 73	0.186	3(3G)4G126
102	-	114142.6	-	-	-0.840	3(3G)4H124	0.204	3(3G)4F130	-0.185	3(3G)2G141	-0.169	2(2G)4H 56
103	-	114614.9	-	-	0.557	2(2H)4H 54	0.528	2(2G)4H 56	0.378	3(3G)2G141	-0.323	3(3G)4H124
104	-	114729.4	-	-	-0.605	3(3G)2F147	0.461	3(3G)2G141	-0.341	2(2H)4H 54	-0.288	2(2G)4H 56
105	-	115036.0	-	-	0.497	3(3G)2G141	0.482	3(3G)2F147	0.336	2(4P)4D 84	0.280	2(4F)2G 92
106	-	115156.1	-	-	0.489	2(4F)4D 84	-0.431	3(3G)2F147	-0.320	2(4P)4D 83	-0.291	3(3G)2G141
107	-	115198.0	-	-	-0.731	3(3G)4G126	0.355	2(4G)4G 58	-0.240	2(2G)4G 63	-0.239	2(2H)4G 61
108	-	115472.3	-	-	-0.712	2(4F)2G 92	0.402	3(3G)2G141	0.227	2(2G)4G 63	0.216	2(2F)2G101
109	-	116002.5	-	-	-0.561	2(2G)4G 63	0.373	2(2F)4G 65	0.323	2(4F)4G 59	0.319	2(2H)4G 61
110	-	116670.8	-	-	0.814	2(2F)4F 75	0.238	3(3D)4F133	-0.220	2(4D)4F 71	0.199	2(4G)4F 67
111	-	117113.4	-	-	-0.665	2(4D)4D 82	0.541	2(4D)4D 81	0.258	2(4F)4D 79	-0.213	3(3D)4D137
112	-	117446.0	-	-	0.544	2(4F)2F104	0.460	1(1D)2F 36	0.420	2(2G)2F108	0.253	2(2G)2F109
113	-	118004.2	-	-	-0.666	2(4F)2F104	0.493	1(1D)2F 36	0.250	1(1D)2F 35	0.211	2(2G)2F108
114	-	118287.0	-	-	0.631	2(2F)4G 65	-0.403	2(2H)4G 61	-0.270	2(4D)4F 71	0.232	2(2F)2G101
115	-	118495.5	-	-	0.432	2(4D)4F 71	0.313	2(2G)4F 73	-0.295	2(2F)4D 86	-0.287	2(4D)4F 70
116	-	118615.3	-	-	-0.402	2(2F)2G101	-0.396	2(2F)4D 86	0.338	2(2F)4G 65	-0.282	2(4F)2G 92
117	-	118641.7	-	-	0.622	2(2F)4D 86	-0.320	3(3D)4D137	0.312	2(2F)4G 65	0.222	2(4D)4F 71
118	-	118959.7	-	-	-0.575	2(2G)2F108	0.410	1(1D)2F 36	-0.291	3(1G)2F152	0.266	1(1D)2F 35
119	-	119650.7	-	-	0.572	3(1G)2F152	-0.426	3(1G)2F151	-0.366	3(3D)2F150	-0.331	3(1G)2G145

138	-	124135.6	-	-	-0.598	4(3F)4D187	-0.429	4(3F)2F207	0.349	4(3F)4F179	0.328	4(3F)4D186
139	-	124341.2	-	-	0.476	4(3F)4H165	-0.448	4(3F)2F207	-0.444	4(3F)4G171	-0.273	4(3F)2G194
140	-	124366.4	-	-	-0.531	4(3F)4D187	-0.448	4(3F)2G194	-0.385	4(3F)4F179	0.298	4(3F)4G171
141	-	124513.6	-	-	-0.713	4(3F)4H165	-0.398	4(3F)4G171	0.373	4(3F)4H164	-0.279	4(3F)2G194
142	-	124536.8	-	-	0.531	4(3F)2G194	-0.445	4(3F)4F179	-0.384	4(3F)4G171	0.283	4(3F)2F207
143	-	125750.6	-	-	-0.844	3(1D)2F154	0.460	3(1D)2F155	0.127	2(2G)2F108	0.112	2(2F)2F112
144	-	127056.3	-	-	0.673	4(3G)4D185	-0.630	4(3G)4F177	0.328	4(3G)4G169	-0.123	4(3G)2F205
145	-	127069.4	-	-	0.728	4(3G)2F205	0.427	4(3G)4D185	-0.381	4(3G)2G192	-0.312	4(3G)4G169
146	-	127445.1	-	-	0.590	4(3G)4G169	-0.527	4(3G)4H163	0.520	4(3G)2F205	-0.232	4(3G)4D185
147	-	127447.4	-	-	-0.593	4(3G)2G192	-0.525	4(3G)4F177	-0.462	4(3G)4D185	0.304	4(3G)4H163
148	-	127607.6	-	-	-0.740	4(3G)4H163	-0.531	4(3G)4G169	-0.258	4(3G)4F177	-0.233	4(3G)2G192
149	-	127631.8	-	-	0.642	4(3G)2G192	-0.472	4(3G)4F177	0.368	4(3G)2F205	-0.335	4(3G)4G169
150	-	127757.3	-	-	-0.580	2(2D)2F119	0.471	2(2F)2G100	-0.328	2(2D)2F115	0.316	2(2D)2F118
151	-	128843.5	-	-	-0.794	2(2D)4D 88	0.432	2(2D)4F 77	-0.245	2(4F)4D 79	0.189	2(4F)4D 80
152	-	129060.3	-	-	0.773	2(2D)4F 77	0.410	2(2D)4D 88	0.227	2(4F)4F 69	-0.213	2(4F)4F 68
153	-	129284.5	-	-	0.717	2(4F)4G 60	-0.569	2(4F)4G 59	-0.247	2(2F)2G100	-0.174	2(2F)4F 77
154	-	129902.4	-	-	-0.554	2(2F)2G100	-0.463	2(2F)2F111	-0.348	2(2D)2F119	0.328	2(2F)2G 99
155	-	130263.7	-	-	-0.648	2(2F)2F111	0.349	2(2F)2F110	0.329	2(2F)2G100	0.263	2(2D)2F119
156	-	130600.7	-	-	0.690	2(4F)4F 69	-0.514	2(4F)4F 68	-0.337	2(2D)4F 77	-0.137	2(2G)4F 72
157	-	131684.5	-	-	-0.669	2(4F)4D 80	0.503	2(4F)4D 79	-0.333	2(2D)4D 88	-0.173	3(1F)2F153
158	-	131698.8	-	-	0.959	3(1F)2G146	-0.124	2(2H)2G 94	0.109	2(2H)2G 94	-0.101	3(3F)2G142
159	-	132189.9	-	-	-0.858	3(1F)2F153	-0.172	2(2F)2F113	-0.170	2(2G)2F108	0.156	2(2D)2F117
160	-	132619.3	-	-	0.632	2(2D)2F116	0.374	2(2D)2F117	-0.343	2(2G)2G 94	-0.310	2(2D)2G 98
161	-	132710.6	-	-	0.792	4(1G)2G200	-0.584	4(1G)2G199	-0.111	4(1I)2G198	0.067	4(3H)4H162
162	-	132751.3	-	-	0.791	4(1G)2F213	-0.586	4(1G)2F212	-0.129	4(1I)2F211	-0.058	4(3F)4D187
163	-	132838.1	-	-	-0.439	2(2H)2G 94	-0.438	2(2D)2F116	-0.363	2(2G)2G 98	0.299	2(2H)2G 93
164	-	132884.7	-	-	0.989	4(1I)2F211	0.101	4(1G)2F213	-0.078	4(1G)2F212	-0.046	4(3H)4D184
165	-	132897.3	-	-	0.984	4(3D)4H166	0.124	4(3D)4G172	0.105	4(3D)2G195		
166	-	132919.5	-	-	-0.632	4(3D)4F180	-0.564	4(3D)4D188	-0.455	4(3D)4G172	0.223	4(3D)2G195
167	-	132937.3	-	-	0.665	4(3D)4G172	-0.582	4(3D)4D188	-0.397	4(3D)2G195	0.199	4(3D)2F208
168	-	132950.3	-	-	0.743	4(3D)2G195	0.474	4(3D)2F208	0.318	4(3D)4G172	0.256	4(1I)2G198
169	-	132964.6	-	-	-0.956	4(1I)2G198	0.235	4(3D)2G195	0.128	4(3D)2F208	-0.070	4(1G)2G200
170	-	133069.7	-	-	0.751	4(3D)4F180	-0.525	4(3D)4D188	-0.393	4(3D)4G172	0.055	4(3D)4H166
171	-	133101.6	-	-	0.831	4(3D)2F208	-0.405	4(3D)2G195	-0.271	4(3D)4G172	0.243	4(3D)4D188
172	-	135871.2	-	-	-0.870	4(1S)2F218	0.480	4(1S)2F217	-0.052	4(3P)4F182	0.051	4(3P)2G197
173	-	136095.3	-	-	-0.880	2(2G)4H 55	-0.239	2(2G)2G 98	0.188	2(2G)2F109	0.144	2(2G)4G 62
174	-	136132.4	-	-	0.473	2(2G)2G 98	-0.434	2(2G)2F109	-0.423	2(2G)4H 55	-0.292	2(2G)2G 97
175	-	136594.2	-	-	-0.607	2(2G)2F109	0.344	2(2G)2F108	-0.318	2(2G)2G 98	0.317	2(2F)2G102
176	-	136931.2	-	-	0.757	2(2G)4F 72	-0.476	2(2G)4G 62	0.290	3(3F)4F131	0.158	3(3F)4F132
177	-	137320.6	-	-	0.766	2(2G)4G 62	0.439	2(2G)4F 72	-0.294	3(3F)4G127	0.198	3(3F)4F131
178	-	138065.4	-	-	0.717	3(3F)4D135	0.444	3(3F)4D138	0.384	3(3F)4D136	0.359	3(3F)4D139
179	-	138593.6	-	-	-0.792	3(3F)4G127	-0.413	3(3F)4G128	-0.338	2(2G)4G 62	-0.169	2(2F)2G102
180	-	138733.7	-	-	-0.529	2(2F)2G102	0.442	3(3F)2G142	0.358	2(2F)2G101	0.279	2(2H)2G 94
181	-	139122.0	-	-	0.872	4(1D)2F215	-0.470	4(1D)2F216	-0.064	4(1D)2G202	-0.056	4(3D)4D188
182	-	139129.6	-	-	0.873	4(1D)2G202	-0.470	4(1D)2G203	0.064	4(1D)2F215	0.044	4(3D)4H166
183	-	139178.5	-	-	-0.675	2(2F)2F113	-0.425	3(3F)2F148	0.287	2(2F)2F112	-0.240	3(3F)4F131
184	-	139459.8	-	-	0.700	3(3F)2G142	-0.360	2(2G)2G 95	0.354	3(3F)2G143	-0.231	2(2H)2G 94
185	-	139889.6	-	-	-0.536	3(3F)4F131	0.462	3(3F)2F148	-0.291	3(3F)4F132	0.263	3(3F)2F149
186	-	139971.8	-	-	0.474	3(3P)4D138	0.412	3(3F)2F148	0.389	3(3P)4D139	-0.351	3(3F)4D135
187	-	140045.2	-	-	-0.517	3(3F)4F131	0.321	2(2F)2F113	0.311	3(3P)4D138	-0.282	3(3F)4F132
188	-	141896.0	-	-	-0.649	2(2G)2G 95	-0.409	2(2G)2G 96	0.293	2(2H)2G 94	-0.286	2(2F)2G102
189	-	142277.7	-	-	-0.655	2(2G)2F106	-0.389	2(2G)2F107	0.268	2(2D)2F116	-0.251	2(2G)2G 95
190	-	145354.8	-	-	0.994	4(1F)2G214	-0.051	4(3F)4D186	-0.038	4(3F)2G193	-0.035	4(3F)4F178
191	-	145435.6	-	-	-0.995	4(1F)2G201	-0.044	4(3F)4H164	0.040	4(3F)4G170	0.040	4(3F)2F206
192	-	146181.9	-	-	-0.722	3(1G)2F151	-0.541	3(1G)2F152	0.238	3(1G)2G144	0.174	3(1G)2G145
193	-	146507.5	-	-	0.735	3(1G)2G144	0.541	3(1G)2G145	0.238	3(1G)2F151	-0.182	2(2G)2G 95
194	-	151064.3	-	-	-0.808	2(2D)2F117	0.455	2(2D)2F116	0.215	2(2G)2F106	0.181	2(2G)2F109
195	-	151306.6	-	-	0.384	4(3P)2G196	-0.374	4(3P)4D189	-0.363	4(3P)4F181	-0.356	4(3P)4G173
196	-	151678.4	-	-	-0.516	4(3P)4D189	0.451	4(3P)4G173	-0.417	4(3P)4D190	0.366	4(3P)4G174
197	-	151708.6	-	-	-0.512	4(3P)2G196	-0.416	4(3P)2G197	-0.323	4(3P)4G173	-0.308	4(3P)2F209
198	-	151983.9	-	-	0.835	4(3F)4D186	0.448	4(3F)4D187	-0.171	4(3F)4F178	0.105	4(3F)4G170
199	-	152069.9	-	-	-0.810	4(3F)4F178	-0.432	4(3F)4F179	0.198	4(3F)2G193	-0.161	4(3F)4D186
200	-	152116.0	-	-	-0.752	4(3F)2F206	-0.406	4(3F)2F207	-0.347	4(3F)4H164	0.211	4(3F)4G170
201	-	152123.8	-	-	0.767	4(3F)4H164	0.403	4(3F)4H165	0.271	4(3F)4G170	-0.237	4(3F)2F206
202	-	152226.8	-	-	-0.656	4(3F)2G193	0.489	4(3F)4G170	-0.349	4(3F)2G194	0.259	4(3F)4G171
203	-	152263.0	-	-	-0.564	4(3F)4G170	-0.424	4(3F)2G193	-0.316	4(3F)2F206	-0.302	4(3F)4G171
204	-	152695.6	-	-	0.587	4(3P)4F181	0.487	4(3P)4F182	-0.343	4(3P)4D189	-0.281	4(3P)4D190
205	-	152720.9	-	-	-0.588	4(3P)2F209	-0.487	4(3P)2F210	0.308	4(3P)2G196	0.275	4(3P)4G173
206	-	152838.8	-	-	0.961	2(2P)4D 90	0.213	2(2D)4D 87	0.094	2(2F)4D 86	-0.090	2(2D)4D 89
207	-	158855.7	-	-	0.840	2(2G)2G 96	-0.497	2(2G)2G 95	0.111	2(2G)2F107	-0.073	3(1G)2G144
208	-	159140.3	-	-	0.818	2(2G)2F107	-0.450	2(2G)2F106	0.160	3(1D)2F155	0.148	2(2D)2F115
209	-	159191.6	-	-	0.800	4(1G)2F212	0.594	4(1G)2F213	-0.055	4(1G)2G199	-0.041	4(1G)2G200
210	-	159214.2	-	-	-0.801	4(1G)2G199	-0.593	4(1G)2G200	-0.055	4(1G)2F212	-0.041	4(1G)2F213
211	-	160108.1	-	-	-0.836	2(2D)4F 76	0.475	2(2D)4F 78	0.190	2(2G)4F 72	0.153	2(2D)4D 87
212	-	161660.9	-	-	-0.830	2(2D)4D 87	0.464	2(2D)4D 89	0.240	2(2P)4D 90	-0.150	2(2D)4F 76
213	-	164994.1	-	-	0.859	3(1D)2F155	0.469	3(1D)2F154	-0.163	2(2G)2F107	-0.069	2(2D)2F115
214	-	165107.1	-	-	0.742	2(2D)2F114	-0.420	2(2D)2F118	0.418	2(2D)2F115	-0.235	2(2D)2F119
215	-	177589.8	-	-	-0.879	4(1D)2G203	-0.475	4(1D)2G202				
216	-	177640.9	-	-	-0.879	4(1D)2F216	-0.475	4(1D)2F215				
217	-	181620.0	-	-	0.741	2(2D)2F115	-0.421	2(2D)2F114	-0.419	2(2D)2F119	0.239	2(2D)2F118
218	-	198089.7	-	-	-0.876	4(1S)2F217	-0.482	4(1S)2F218				

J 4.5 26.01

D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	38458.981	39.4	4P (5D)6D	-0.994 1(5D)6D 2 0.085 1(5D)6F 1 0.040 2(4D)6D 35 0.037 1(5D)4F 10
2	42114.818	-43.2	4P (5D)6F	0.982 1(5D)6F 1 0.150 1(5D)4F 10 0.090 1(5D)6D 2 0.055 2(4G)6F 31
3	44232.512	86.4	4P (5D)4F	0.979 1(5D)4F 10 -0.155 1(5D)6F 1 -0.079 1(3G)4F 11 0.068 2(4G)4F 54
4	52965.820	-34.8	4SP (7S)8P	-1.000 2(6S)8P 27
5	60807.230	4.7	4P (3H)4G	0.695 1(3H)4G 6 0.532 1(3F)4G 9 0.239 1(3G)4G 7 -0.219 1(3F)4G 8
6	60989.444	41.8	4P (3H)4H	-0.641 1(3H)4H 4 0.619 1(3H)4I 3 0.293 1(3H)4G 6 0.254 1(3G)4H 5
7	61512.634	14.7	4P (3H)4I	-0.734 1(3H)4I 3 -0.537 1(3H)4H 4 -0.277 1(3H)2G 20 -0.143 1(3G)2G 21
8				

13	65556.280	65619.2	62.9	4P (3H)2H	-0.765	1(3H)2H 15	0.489	1(3G)2H 16	0.285	1(1I)2H 17	0.151	1(3F)2G 23
14	66012.750	65914.9	-97.8	4P (3G)4F	-0.699	1(3G)4F 11	-0.615	1(3G)4G 7	-0.233	1(3D)4F 14	0.167	1(3H)4G 6
15	66589.008	66523.1	-65.9	4P (3G)4H	-0.907	1(3G)4H 5	-0.310	1(3H)4H 4	-0.172	1(3H)2H 15	-0.104	1(3F)4G 9
16	68000.788	68074.9	74.1	4P (3G)2H	-0.773	1(3G)2H 16	-0.539	1(3H)2H 15	0.167	1(3G)4H 5	-0.134	1(3F)2G 23
17	70314.604	70315.3	0.7	4P (3G)2G	-0.880	1(3G)2G 21	0.412	1(3H)2G 20	0.123	1(3H)2H 15	-0.117	1(1F)2G 26
18	72130.390	71514.0	-616.4	4P (1G)2H	0.735	1(1G)2H 19	-0.511	1(1G)2H 18	-0.343	1(1I)2H 17	0.169	1(3G)2H 16
19	72650.658	72403.2	-247.4	4P (3D)4F	0.876	1(3D)4F 14	-0.282	1(3G)4F 11	-0.260	1(1G)2G 25	0.182	1(1G)2G 24
20	73091.590	72537.8	-553.8	4P (1G)2G	0.712	1(1G)2G 25	-0.495	1(1G)2G 24	0.318	1(3D)4F 14	0.219	1(3H)2G 20
21	73751.282	73788.0	36.8	4P (1I)2H	0.862	1(1I)2H 17	-0.274	1(1G)2H 18	-0.233	1(3G)2H 16	0.212	1(3H)2H 15
22	83871.184	83952.4	81.2	4P (1F)2G	-0.970	1(1F)2G 26	0.105	1(1G)2G 25	0.093	1(3F)2G 20	0.092	1(3G)2G 21
23	-	85096.3	-	-	-0.965	2(4G)6G 29	0.218	2(4G)6H 28	0.130	2(4F)6G 32	0.056	2(4G)6F 31
24	-	86259.5	-	-	0.974	2(4G)6H 28	0.217	2(4G)6G 29	0.032	2(2F)4G 52	-	-
25	87471.765	87396.2	-75.5	4SP (5G)6F	0.843	2(4G)6F 31	0.380	3(5D)6F 88	-0.249	2(4D)6F 33	0.177	2(4F)6F 32
26	88614.520	88493.3	-121.2	4SP (5P)6D	0.732	3(5D)6D 89	0.505	2(4P)6D 36	-0.378	2(4D)6D 35	0.214	2(4G)6F 31
27	88723.400	88806.8	83.4	5P (5D)6D	-0.745	2(4P)6D 36	0.621	3(5D)6D 89	0.146	2(4D)6D 35	-0.131	3(5D)6F 88
28	90042.779	89835.9	-206.9	4P (3F)4G	0.866	1(3F)4G 8	0.430	1(3F)4G 9	0.146	2(4G)4G 46	0.097	1(1F)2G 26
29	90386.528	89957.5	-429.0	5P (5D)4F	0.857	3(5D)4F 97	0.433	3(5D)6F 88	-0.206	2(4G)6F 31	0.137	2(4G)4F 54
30	90067.347	90358.7	291.3	5P (5D)6F	-0.804	3(5D)6F 88	0.481	3(5D)4F 97	0.314	2(4G)6F 31	0.077	2(4G)4F 54
31	92171.716	92099.4	-72.3	4P (3F)2G	0.749	1(3F)2G 22	0.397	1(3F)2G 23	-0.280	1(3F)4F 12	0.221	2(4G)4H 39
32	92116.780	92164.4	47.7	4SP (5G)4H	0.705	2(4G)4H 39	0.602	2(4G)4H 40	-0.231	1(3F)2G 22	-0.135	2(4D)6F 33
33	92300.277	92292.3	-8.0	4SP (5D)6F	-0.930	2(4D)6F 33	-0.259	2(4G)6F 31	0.138	2(4F)6D 36	0.120	2(4F)6F 32
34	92426.980	92591.8	164.8	4SP (5G)4F	-0.538	2(4G)4F 55	-0.528	2(4G)4F 54	0.449	1(3F)4F 12	0.300	1(3F)2G 22
35	93484.580	93423.3	-61.2	4P (3F)4F	-0.645	1(3F)4F 12	-0.427	2(4G)4F 54	-0.423	1(3F)4F 13	-0.340	2(4G)4F 55
36	94057.773	93847.4	-210.3	4SP (5D)6D	-0.882	2(4D)6D 35	-0.368	2(4P)6D 36	-0.231	3(5D)6D 89	-0.155	2(4F)6D 34
37	94148.510	94253.9	105.3	4SP (5G)4G	-0.819	2(4G)4G 45	-0.503	2(4G)4G 46	0.116	1(3F)4G 8	0.096	2(4F)4G 47
38	96239.200	96085.7	-153.5	4SP (3G)2H	0.985	2(4G)2H 67	0.095	2(2I)2H 68	-0.050	1(3H)2H 15	0.049	2(2H)2H 70
39	97851.350	97946.2	94.9	4P (1G)2H	0.776	1(1G)2H 18	0.587	1(1G)2H 19	-0.113	2(2I)2H 69	0.100	1(1I)2H 17
40	98596.650	98785.9	189.3	4SP (5D)4F	-0.742	2(4D)4F 58	-0.601	2(4D)4F 59	0.184	2(2G)4F 61	0.101	2(4F)4F 56
41	99653.220	99657.0	3.8	4SP (3G)2G	-0.690	1(1G)2G 24	0.486	2(4G)2G 76	-0.477	1(1G)2G 25	0.085	2(2G)2G 79
42	99757.120	99980.9	223.8	4P (1G)2G	-0.838	2(4G)2G 76	-0.388	1(1G)2G 24	-0.270	1(1G)2G 25	0.127	1(3F)2G 22
43	102851.360	102843.1	-8.3	4P (5D)4[5]	0.586	4(5D)6F116	-0.555	4(5D)6G115	0.384	4(5D)4F136	-0.331	4(5D)4G128
44	102882.370	102877.2	-5.1	4P (5D)4[4]	0.586	4(5D)4F136	-0.533	4(5D)4G128	-0.443	4(5D)6F116	0.371	4(5D)6D117
45	102951.500	102991.0	39.5	4SP (3I)4I	0.968	2(2I)4I 37	-0.176	2(2H)4I 38	-0.100	2(2I)4H 41	0.087	3(3H)4I 90
46	103326.410	103327.5	1.1	4P (5D)3[4]	0.651	4(5D)6G115	-0.467	4(5D)6D117	0.386	4(5D)4F136	-0.359	4(5D)6H114
47	103352.680	103355.4	2.7	4P (5D)3[5]	0.594	4(5D)4G128	0.511	4(5D)4F136	-0.415	4(5D)4H122	0.399	4(5D)6D117
48	103680.640	103690.3	9.7	4P (5D)2[4]	-0.585	4(5D)6D117	-0.536	4(5D)6F116	-0.525	4(5D)4H122	-0.278	4(5D)6G115
49	103701.720	103699.7	-2.0	4P (5D)2[5]	0.693	4(5D)6H114	0.427	4(5D)4G128	0.406	4(5D)4H122	0.271	4(5D)4F136
50	103873.990	103885.0	11.0	4P (5D)1[4]	-0.596	4(5D)4H122	0.587	4(5D)6H114	0.356	4(5D)6G115	-0.260	4(5D)4G128
51	104937.800	104883.1	-54.7	4SP (3I)4H	0.916	2(2I)4H 41	-0.211	2(4G)4H 39	0.157	2(2G)4H 44	-0.153	2(4F)6G 30
52	-	105119.0	-	-	-0.847	2(4F)6G 30	0.357	2(2D)4F 66	0.219	2(2D)4F 62	0.208	2(2D)4F 64
53	-	105386.3	-	-	-0.555	2(2D)4F 66	-0.479	2(2F)4F 62	-0.463	2(4F)6G 30	-0.319	2(2D)4F 64
54	-	105943.2	-	-	0.895	2(4F)6F 32	-0.339	2(4F)6D 34	0.152	2(4D)6F 33	-0.129	2(4G)6F 31
55	-	107044.4	-	-	-0.911	2(4F)6D 34	-0.330	2(4F)6F 32	0.198	2(4D)6D 35	0.072	2(2G)4F 61
56	107006.350	107120.9	114.5	4SP (3I)2H	0.743	2(2I)2H 68	0.512	2(2I)2H 69	0.177	2(2H)2H 70	-0.176	2(2G)2H 75
57	-	107386.6	-	-	-0.659	2(2F)4G 52	-0.615	2(2F)4F 62	0.214	2(2G)4F 54	0.164	2(2D)4F 66
58	-107964.700	107714.6	-	21ODD	-0.590	2(2F)4G 52	-0.447	2(2D)4F 66	0.411	2(2F)4F 62	-0.238	2(2D)4F 64
59	108570.560	108733.6	163.0	4SP (3G)4G	-0.589	3(3H)4G 93	0.394	2(4G)4G 46	0.356	3(3H)4H 91	-0.311	2(4G)4G 45
60	108868.980	108865.1	-3.8	4SP (3G)4H	-0.693	3(3H)4H 91	-0.416	2(4G)4H 40	0.371	2(4G)4H 39	-0.238	3(3H)4G 93
61	-	109382.7	-	-	-0.624	2(2H)4H 42	0.544	2(2G)4H 44	-0.325	2(4G)4H 40	0.313	2(4G)4H 39
62	-	109515.6	-	-	0.569	3(3H)4G 93	0.476	3(3F)4G 96	0.374	2(2H)4G 49	-0.297	3(3H)4I 90
63	-	109675.5	-	-	-0.922	3(3H)4I 90	-0.177	3(3H)4G 93	-0.143	3(3F)4G 96	-0.143	2(2H)4G 49
64	-	110018.0	-	-	0.617	3(3F)4F100	-0.456	3(3H)2G107	-0.339	3(3F)4F 99	0.268	2(4G)4F 54
65	-	110059.4	-	-	-0.772	3(3H)2G107	-0.362	3(3F)4F100	-0.231	2(2F)2G 84	0.201	3(3F)4F 99
66	-	110342.3	-	-	0.598	2(2F)2G 84	0.433	2(2F)2G 85	0.302	2(2H)2G 78	0.232	2(2H)2G 79
67	-	110890.9	-	-	0.934	3(3H)2H102	-0.127	3(3F)2G110	0.126	2(2I)2H 69	-0.101	3(3F)4F100
68	-	111019.0	-	-	-0.582	2(4F)4G 47	-0.482	2(4F)4G 48	-0.294	2(4G)4G 46	0.272	2(2D)4G 49
69	-	111178.7	-	-	0.762	3(3F)2G110	-0.417	3(3F)2G109	0.244	3(3H)2G107	0.166	3(3H)2H102
70	-	111297.8	-	-	0.912	2(2H)4I 38	-0.182	3(3H)4H 91	0.171	2(2I)4I 37	0.160	2(4G)4H 40
71	-	111699.7	-	-	-0.522	3(3F)4G 96	0.357	2(2G)4G 51	0.335	2(2H)4G 49	0.279	3(3F)4G 95
72	-	111844.5	-	-	0.434	3(3H)4H 91	-0.416	2(4G)4H 40	-0.359	2(2G)4H 44	0.297	2(4G)4H 39
73	-	112141.6	-	-	-0.337	3(3G)4F 98	-0.329	3(3G)4G 94	0.305	2(4G)4F 55	0.303	3(3F)4G 96
74	-	112263.8	-	-	0.429	2(2G)4G 51	-0.359	3(3G)4G 94	-0.355	2(4G)4F 61	-0.284	3(3F)4F100
75	-	112634.1	-	-	-0.620	2(2G)4F 61	0.411	2(4G)4F 55	-0.336	2(4G)4F 54	-0.287	2(4D)4F 58
76	-	113267.8	-	-	0.620	2(4F)4F 56	0.480	2(4F)4F 57	-0.378	3(3G)4F 98	0.220	2(2F)4F 63
77	-	113818.7	-	-	0.567	3(3G)4F 98	-0.314	2(2G)2G 82	-0.275	2(2H)2G 78	0.261	2(2F)2G 84
78	-	113991.4	-	-	0.801	3(3G)4H 92	0.396	3(3G)2H103	0.210	3(3G)4F 98	0.153	2(2G)4H 44
79	-	114152.7	-	-	-0.400	3(3G)4F 98	-0.310	2(2G)2G 82	0.310	3(3G)2G108	-0.292	2(2H)2G 78
80	-	114330.4	-	-	-0.817	3(3G)2H103	0.330	3(3G)4H 92	0.239	2(2G)4H 44	0.206	2(2H)4H 42
81	-	114624.5	-	-	-0.641	3(3G)2G108	-0.404	2(2G)4H 44	-0.381	2(2H)4H 42	0.257	3(3G)4H 92
82	-	114709.3	-	-	-0.502	3(3G)2G108	0.486	2(2H)4H 42	0.456	2(2G)4H 44	-0.229	2(4F)2G 77
83	-	115118.0	-	-	-0.719	3(3G)4G 94	0.369	2(4G)4G 46	-0.237	2(2H)4G 49	-0.233	2(2G)4G 51
84	-	115368.6	-	-	0.764	2(4F)2G 77	-0.291	3(3G)2G108	-0.217	2(2G)4G 51	-0.212	2(2G)2H 74
85	-	115955.4	-	-	-0.560	2(2G)4G 51	0.379	2(2F)4G 53	-0.337	2(4F)2G 77	0.318	2(2H)4G 49
86	-	116662.2	-	-	-0.596	2(2G)2H 74	0.481	2(2H)2H 70	-0.321	2(2I)2H 68	-0.246	2(2G)2H 75
87	-	116756.3	-	-	0.805	2(2F)4F 63	-0.265	2(4D)4F 59	0.249	3(3D)4F101	0.202	2(4G)4F 55
88	-	118161.6	-	-	0.454	2(2F)2G 86	-0.376	2(2G)2G 82	0.316	2(2F)2G 87	0.283	2(2F)4G 53
89	-	118225.7	-	-	0.629	2(2H)2H 70	0.516	2(2G)2H 74	0.368	2(2H)2H 71	0.320	2(2G)2H 75
90	-	118391.7	-	-	-0.474	2(4D)4F 59	-0.343	2(2G)4F 61	0.329	2(4D)4F 58	-0.293	2(2F)2G 86
91	-	118638.7	-	-	0.733	2(2F)4G 53	-0.479	2(2H)4G 49	0.189	2(2G)4G 51	0.188	2(4D)4F 59
92	-	119421.5	-	-	0.778	3(1G)2H106	-0.576	3(1G)2H105	0.180	2(2H)2H 70	-0.072	3(3F)2G110
93	-	119691.7	-	-	0.762	3(1G)2G112	-0.555	3(1G)2G111	-0.188	2(2H)2G 78	0.137	2(2F)2G 84
94	-	120097.2	-	-	0.919	3(3D)4F101	0.227	2(4D)4F 59	-0.152	2(4D)4F 58	0.151	2(2G)4F 61

39	-	109454.3	-	-	0.513	3(3F)4G	60	0.500	3(3H)4G	57	0.416	2(2H)4G	35	-0.270	3(3F)4G	59
40	-	109553.7	-	-	0.616	3(3H)4I	54	0.391	2(2H)4H	28	0.352	3(3H)2I	61	-0.341	2(2G)4H	30
41	-	109641.9	-	-	0.660	3(3H)4I	54	-0.398	2(2H)4H	28	0.350	2(2G)4H	30	-0.306	2(2I)2I	40
42	-	110090.2	-	-	-0.843	3(3H)2I	61	0.323	2(2I)2I	40	0.238	3(3H)4I	54	0.236	2(2I)2I	41
43	-	110638.0	-	-	-0.942	3(3H)2H	63	0.179	3(3G)4G	58	-0.137	2(2I)2H	46	0.097	2(4G)4G	32
44	-	111027.2	-	-	0.552	2(4F)4G	33	0.465	2(4F)4G	34	0.333	2(4G)4G	32	0.326	3(3G)4G	58
45	-	111423.4	-	-	0.811	2(2H)4I	24	-0.294	3(3H)4H	55	0.267	2(4G)4H	26	-0.180	2(4G)4H	25
46	-	111642.9	-	-	0.565	3(3F)4G	60	-0.352	2(2H)4G	35	-0.340	2(2G)4G	37	-0.333	2(2H)4I	24
47	-	111909.7	-	-	0.425	3(3H)4H	55	0.403	2(2H)4I	24	-0.401	2(4G)4H	26	-0.369	2(2G)4H	30
48	-	112145.3	-	-	-0.517	3(3G)4G	58	0.464	2(2G)4G	37	0.322	2(4F)4G	33	0.304	2(4F)4G	34
49	-	113668.4	-	-	-0.717	3(3G)2H	64	-0.647	3(3G)4H	56	0.103	3(3H)4I	54	-0.098	2(2G)4H	30
50	-	114126.7	-	-	0.672	3(3G)4H	56	-0.633	3(3G)2H	64	0.203	2(2G)4H	30	0.149	3(3F)4G	60
51	-	114606.5	-	-	-0.544	2(2G)4H	30	-0.541	2(2H)4H	28	0.448	2(2H)2I	42	0.261	2(2H)2I	43
52	-	114904.4	-	-	-0.731	3(3G)4G	58	0.393	2(4G)4G	32	-0.276	2(2G)4G	37	-0.216	2(2H)4G	35
53	-	115052.7	-	-	0.694	2(2H)2I	42	0.402	2(2H)2I	43	0.371	2(2G)4H	30	0.325	2(2H)4H	28
54	-	115702.9	-	-	-0.598	2(2G)4G	37	0.391	2(2F)4G	39	0.362	2(2H)4G	35	0.310	2(4F)4G	33
55	-	116710.4	-	-	-0.578	2(2G)2H	51	0.503	2(2H)2H	47	-0.318	2(2I)2H	45	-0.256	2(2G)2H	52
56	-	118415.1	-	-	0.617	2(2H)2H	47	0.567	2(2G)2H	51	0.367	2(2H)2H	48	0.357	2(2G)2H	52
57	-	118738.4	-	-	0.820	2(2F)4G	39	-0.504	2(2H)4G	35	0.208	2(2G)4G	37	-0.079	2(2F)4G	38
58	-	119544.4	-	-	-0.776	3(1G)2H	67	0.576	3(1G)2H	66	-0.165	2(2H)2H	47	-0.087	3(1I)2I	62
59	-	119813.7	-	-	-0.941	3(1I)2I	62	-0.191	2(2I)2I	41	0.165	2(2I)2I	40	0.156	3(1I)2I	65
60	-	120027.7	-	-	0.938	3(1I)2H	65	-0.166	2(2H)2H	47	0.156	2(2G)2H	51	0.156	2(2I)2H	45
61	-	122263.2	-	-	-0.772	4(3P)4G	90	0.633	4(3P)4G	89	-0.033	4(3D)4H	82			
62	-	122876.1	-	-	0.912	4(3H)4G	84	-0.394	4(3H)4H	78	0.090	4(3H)4I	73	0.050	4(1I)2H104	
63	-	122930.5	-	-	-0.729	4(3H)2H	99	-0.501	4(3H)4H	78	0.319	4(3H)4I	73	-0.239	4(3H)4G	84
64	-	123117.7	-	-	0.625	4(3H)4I	73	0.454	4(3H)2I	91	-0.438	4(3H)4K	71	0.397	4(3H)4H	78
65	-	123120.7	-	-	0.613	4(3H)2H	99	-0.591	4(3H)4H	78	0.351	4(3H)4I	73	-0.296	4(3H)4G	84
66	-	123248.4	-	-	0.857	4(3H)4K	71	0.424	4(3H)4I	73	0.131	4(3H)2I	91	0.117	4(3H)4H	78
67	-	123283.5	-	-	0.810	4(3H)2I	91	-0.408	4(3H)4I	73	0.237	4(3H)2H	99	-0.227	4(3H)4H	78
68	-	124099.4	-	-	-0.663	4(3F)4G	87	0.493	4(3F)4H	81	0.367	4(3F)4G	86	0.273	4(3F)4H	80
69	-	124122.9	-	-	0.675	4(3F)2H102		-0.374	4(3F)2H101		0.342	4(3F)4G	87	0.269	4(3F)4H	81
70	-	124344.3	-	-	-0.581	4(3F)4H	81	-0.400	4(3F)4G	87	0.371	4(3F)2H102		-0.324	4(3F)2I	94
71	-	124377.7	-	-	-0.667	4(3F)4I	76	-0.462	4(3F)2I	94	0.353	4(3F)4I	75	-0.302	4(3F)2H102	
72	-	124546.0	-	-	-0.644	4(3F)2I	94	0.499	4(3F)4I	76	0.332	4(3F)2I	93	0.279	4(3F)4H	81
73	-	126122.5	-	-	0.848	2(2I)2I	41	-0.401	2(2I)2I	40	-0.254	3(1I)2I	62	-0.131	2(2H)2I	43
74	-	127040.9	-	-	-0.692	4(3G)4G	85	0.627	4(3G)4H	79	0.225	4(3G)2H100		-0.225	4(3G)4I	74
75	-	127056.7	-	-	-0.766	4(3G)2H100		-0.501	4(3G)4G	85	0.249	4(3G)2I	92	0.228	4(3G)4I	74
76	-	127429.7	-	-	-0.683	4(3G)4I	74	-0.534	4(3G)2I	92	-0.316	4(3G)4H	79	-0.262	4(3G)2H100	
77	-	127437.3	-	-	0.589	4(3G)4H	79	0.469	4(3G)4G	85	-0.458	4(3G)2H100		-0.341	4(3G)4I	74
78	-	127582.6	-	-	-0.790	2(2I)2H	46	0.476	2(2I)2H	45	-0.169	2(2G)2H	51	0.149	2(2H)2H	47
79	-	127609.0	-	-	0.732	4(3G)2I	92	-0.513	4(3G)4I	74	-0.319	4(3G)4H	79	0.238	4(3G)2H100	
80	-	127626.2	-	-	-0.969	4(3G)4K	72	-0.133	4(3G)2I	92	-0.129	4(3G)4I	74	-0.106	4(3F)4I	76
81	-	129225.5	-	-	-0.751	2(4F)4G	34	0.622	2(4F)4G	33	0.104	2(2G)2H	52	0.075	2(4G)4G	31
82	-	132452.0	-	-	-0.719	2(2H)2I	43	0.426	2(2H)2I	42	-0.391	2(2G)2H	52	0.246	2(2H)2H	48
83	-	132679.0	-	-	-0.791	4(1G)2H105		0.582	4(1G)2H105		0.105	4(1I)2H104		0.069	4(3F)4G	87
84	-	132691.2	-	-	0.791	4(1G)2I	97	-0.582	4(1G)2I	96	-0.119	4(1I)2I	95	0.070	4(3H)4K	71
85	-	132926.5	-	-	-0.826	4(3D)4H	82	0.419	4(3D)2H103		-0.360	4(3D)4G	88	-0.071	4(1D)2H108	
86	-	133034.8	-	-	0.965	4(1I)2H104		0.196	4(3D)2H103		0.125	4(3D)4H	82	0.087	4(1G)2H106	
87	-	133057.2	-	-	0.779	4(3D)2H103		0.512	4(3D)4H	82	-0.277	4(3D)4G	88	-0.226	4(1I)2H104	
88	-	133074.8	-	-	0.888	4(3D)4G	88	0.414	4(3D)2H103		-0.178	4(3D)4H	82	-0.065	4(1I)2H104	
89	-	133089.4	-	-	-0.991	4(1I)2I	95	-0.091	4(1G)2I	97	0.077	4(1G)2I	96	0.039	4(3H)2H	99
90	-	133144.4	-	-	-0.557	2(2H)2H	48	0.494	2(2G)2H	52	-0.440	2(2H)2I	43	0.269	2(2H)2H	47
91	-	135876.5	-	-	0.585	2(2G)2H	52	0.583	2(2H)2H	48	-0.375	2(2G)2H	51	-0.349	2(2H)2H	47
92	-	136367.8	-	-	0.968	2(2G)4H	29	-0.195	2(2G)4G	36	0.114	2(2I)4H	27	0.043	2(2H)2H	48
93	-	137420.9	-	-	-0.885	2(2G)4G	36	0.342	3(3F)4G	59	-0.202	2(2G)4H	29	0.181	3(3F)4G	60
94	-	138719.6	-	-	0.807	3(3F)4G	59	0.436	3(3F)4G	60	0.386	2(2G)4G	36	-0.056	2(2G)4G	37
95	-	138987.1	-	-	0.873	4(1D)2H108		-0.475	4(1D)2H109		-0.067	4(3D)4H	82	-0.042	4(3D)4G	88
96	-	140997.5	-	-	-0.842	2(2G)2H	49	-0.499	2(2G)2H	50	-0.140	2(2H)2H	48	-0.097	2(2I)2H	45
97	-	145184.0	-	-	0.995	4(1F)2I	98	-0.061	4(3F)4I	75	-0.051	4(3F)2I	93	-0.033	4(3F)4I	76
98	-	145409.7	-	-	-0.995	4(1F)2H107		0.056	4(3F)4H	80	0.039	4(3F)4G	86	-0.034	4(3F)2H101	
99	-	145989.2	-	-	0.797	3(1G)2H	66	0.593	3(1G)2H	67	0.075	2(2G)2H	49	-0.050	2(2H)2H	48
100	-	151903.2	-	-	0.671	4(3F)4I	75	-0.568	4(3F)2I	93	0.349	4(3F)4I	76	-0.293	4(3F)2I	94
101	-	151979.6	-	-	-0.669	4(3F)2I	93	-0.569	4(3F)4I	75	-0.352	4(3F)2I	94	-0.302	4(3F)4I	76
102	-	152121.5	-	-	0.794	4(3F)4G	86	0.433	4(3F)4G	87	0.307	4(3F)4G	89	0.250	4(3F)4G	90
103	-	152171.7	-	-	0.677	4(3F)2H101		0.551	4(3F)4H	80	0.371	4(3F)2H102		0.300	4(3F)4H	81
104	-	152189.8	-	-	0.664	4(3F)4H	80	-0.552	4(3F)2H101		0.355	4(3F)4H	81	-0.297	4(3F)2H102	
105	-	152652.0	-	-	-0.706	4(3P)4G	89	-0.580	4(3P)4G	90	0.352	4(3F)4G	86	0.194	4(3F)4G	87
106	-	157626.6	-	-	-0.854	2(2G)2H	50	0.503	2(2G)2H	49	-0.098	2(2I)2H	46	0.059	2(2I)2H	45
107	-	159211.6	-	-	-0.801	4(1G)2I	96	-0.592	4(1G)2I	97	0.056	4(1G)2H105		0.041	4(1G)2H106	
108	-	159228.3	-	-	0.801	4(1G)2H105		0.592	4(1G)2H106		0.056	4(1G)2I	96	0.041	4(1G)2I	97
109	-	177856.1	-	-	0.878	4(1D)2H109		0.479	4(1D)2H108							

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1 2 3 4

	OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS											
1	60837.569	60918.1	80.6	4P (3H)4H	0.665	1(3H)4I	1	-0.664	1(3H)4H	2	0.249	1(3G)4H	3	0.217	1(3H)2I	5
2	61527.616	61617.9	90.3	4P (3H)4I	0.682	1(3H)4I	1	0.674	1(3H)4H	2	0.201	1(3H)2I	5	-0.184	1(3G)4H	3
3	62293.164	62375.9	82.8	4P (3H)2I	-0.946	1(3H)2I	5	0.292	1(3H)4I	1	0.103	1(3G)4H	3	0.044	1(1I)2I	6
4	66411.686	66349.5	-62.2	4P (3G)4H	-0.943	1(3G)4H	3	-0.305	1(3H)4H	2	-0.086	1(3H)2I	5	0.074	1(3H)4I	1
5	70986.677	71005.9	19.2	4P (1I)2K	0.994	1(1I)2K	4	-0.079	1(1I)2I	6	-0.055	1(3H)2I	5	-0.043	2(2I)2K	20
6	73966.832	74062.9	96.0	4P (1I)2I	-0.988	1(1I)2I	6	-0.101	2(2I)2I	22	-0.082	1(1I)2K	4	0.049	2(2H)2I	24
7	-	85217.4	-	-												

23	-	111577.2	-	-	0.731	2(2H)4I	12	-0.351	3(3H)4H	26	0.348	2(4G)4H	14	0.278	2(2G)4H	18
24	-	111959.8	-	-	0.641	2(2H)4I	12	-0.356	2(2G)4H	18	0.347	2(2H)4H	16	0.346	3(3H)4H	26
25	-	113701.8	-	-	0.967	3(3G)4H	27	0.174	2(2G)4H	18	-0.101	3(3H)4I	25	0.076	2(2H)4H	16
26	-	114642.1	-	-	0.586	2(2H)4H	16	0.577	2(2G)4H	18	-0.428	2(2H)2I	23	-0.262	2(2H)2I	24
27	-	115534.1	-	-	-0.726	2(2H)2I	23	-0.442	2(2H)2I	24	-0.394	2(2G)4H	18	-0.314	2(2H)4H	16
28	-	119362.6	-	-	-0.986	3(1I)2K	28	0.117	3(1I)2I	30	-0.086	2(2I)2K	19	0.063	2(2I)2K	20
29	-	119843.2	-	-	-0.951	3(1I)2I	30	-0.197	2(2I)2I	22	0.169	2(2I)2I	21	-0.118	3(1I)2K	28
30	-	122893.9	-	-	0.894	4(3H)4I	41	-0.425	4(3H)4I	36	0.117	4(3H)4K	34	0.049	4(1I)2I	55
31	-	122927.9	-	-	-0.730	4(3H)2I	51	-0.445	4(3H)4I	36	0.332	4(3H)4K	34	-0.282	4(3H)4H	41
32	-	123087.9	-	-	0.528	4(3H)4K	34	-0.519	4(3H)4L	33	0.494	4(3H)2K	46	0.335	4(3H)4I	36
33	-	123116.2	-	-	0.599	4(3H)4I	36	-0.552	4(3H)2I	51	-0.346	4(3H)4K	34	0.308	4(3H)4H	41
34	-	123210.6	-	-	-0.820	4(3H)4L	33	-0.409	4(3H)4K	34	-0.320	4(3H)2K	46	-0.144	4(3H)2I	51
35	-	123252.4	-	-	0.676	4(3H)2K	46	-0.529	4(3H)4K	34	-0.359	4(3H)4I	36	0.261	4(3H)2I	51
36	-	123832.3	-	-	-0.849	2(2I)2K	20	0.509	2(2I)2K	19	-0.102	3(1I)2K	28	-0.073	2(2H)2I	24
37	-	124099.1	-	-	0.802	4(3F)4H	44	-0.444	4(3F)4H	43	-0.236	4(3F)4I	39	-0.135	4(3H)2K	46
38	-	124136.1	-	-	0.723	4(3F)2I	54	0.455	4(3F)4I	39	-0.394	4(3F)2I	53	-0.248	4(3F)4I	38
39	-	124377.5	-	-	-0.696	4(3F)4I	39	0.445	4(3F)2I	54	0.368	4(3F)4I	38	-0.283	4(3F)4H	44
40	-	126227.7	-	-	0.859	2(2I)2I	22	-0.410	2(2I)2I	21	-0.253	3(1I)2I	30	-0.112	2(2H)2I	24
41	-	127032.7	-	-	0.844	4(3G)4H	42	-0.497	4(3G)4I	37	-0.115	4(3G)2I	52	-0.086	4(1I)2I	56
42	-	127042.8	-	-	0.821	4(3G)2I	52	0.377	4(3G)4I	37	0.353	4(3G)4H	42	-0.151	4(3G)4K	35
43	-	127425.9	-	-	0.741	4(3G)4I	37	-0.486	4(3G)2I	52	0.374	4(3G)4H	42	0.165	4(3G)2K	47
44	-	127436.4	-	-	0.756	4(3G)4K	35	0.581	4(3G)2K	47	0.209	4(3G)2I	52	0.129	4(3F)2I	54
45	-	127629.3	-	-	0.764	4(3G)2K	47	-0.598	4(3G)4K	35	-0.151	4(3G)4I	37	-0.114	4(3F)4I	39
46	-	132693.2	-	-	0.794	4(1G)2I	57	-0.584	4(1G)2I	56	-0.117	4(1I)2I	55	-0.074	4(3F)4H	44
47	-	132748.5	-	-	0.789	4(1G)2K	50	-0.585	4(1G)2K	49	-0.147	4(1I)2K	48	0.072	4(2H)4L	33
48	-	132758.3	-	-	0.841	2(2H)2I	24	-0.519	2(2H)2I	23	-0.078	2(2I)2I	21	-0.075	2(2I)2K	20
49	-	133043.5	-	-	-0.998	4(3D)4H	45	-0.033	4(1F)2I	58						
50	-	133088.7	-	-	0.989	4(1I)2I	55	0.089	4(1G)2I	57	-0.075	4(1G)2I	56	-0.074	4(1I)2K	48
51	-	133094.5	-	-	-0.985	4(1I)2K	48	-0.113	4(1G)2K	50	0.092	4(1G)2K	49	-0.074	4(1I)2I	55
52	-	136608.1	-	-	-0.992	2(2G)4H	17	-0.116	2(2I)4H	15						
53	-	145190.4	-	-	-0.995	4(1F)2I	58	0.066	4(3F)4I	38	-0.039	4(3F)2I	53	0.036	4(3F)4I	39
54	-	151942.4	-	-	-0.702	4(3F)4I	38	-0.527	4(3F)2I	53	-0.377	4(3F)4I	39	-0.288	4(3F)2I	54
55	-	151979.1	-	-	0.703	4(3F)2I	53	-0.529	4(3F)4I	38	0.375	4(3F)2I	54	-0.277	4(3F)4I	39
56	-	152170.1	-	-	-0.875	4(3F)4H	43	-0.479	4(3F)4H	44	0.040	4(1G)2I	56	-0.034	4(1F)2I	58
57	-	159146.0	-	-	-0.801	4(1G)2K	49	-0.597	4(1G)2K	50	-0.032	4(1G)2I	53			
58	-	159213.0	-	-	-0.803	4(1G)2I	56	-0.594	4(1G)2I	57	-0.037	4(3F)4H	43			

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D6 4P + D5 4S4P + D6 5P + D6 4F
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OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS													
1	61347.614	61371.9	24.3	4P (3H)4I	0.998	1(3H)4I	1	0.052	1(1I)2K	2	0.040	2(2I)4I	5				
2	71432.680	71459.5	26.8	4P (1I)2K	0.998	1(1I)2K	2	-0.052	1(3H)4I	1	-0.044	2(2I)2K	8				
3	-	86637.2	-	-	-1.000	2(4G)6H	3	0.031	2(2H)4I	6							
4	102851.200	102755.4	-95.8	4SP(3I)4K	0.851	2(2I)4K	4	-0.508	2(2I)4I	5	0.116	2(2H)4I	6	-0.045	3(3H)4I	9	
5	103040.320	103019.7	-20.6	4F(5D)4I7I	0.999	4(5D)6H	11	-0.032	4(3F)4I	18							
6	103232.100	103416.0	183.9	4SP(3I)4I	-0.843	2(2I)4I	5	-0.521	2(2I)4K	4	0.099	2(2H)4I	6	-0.084	3(3H)4I	9	
7	106524.400	106432.3	-92.1	4SP(3I)2K	0.838	2(2I)2K	7	0.528	2(2I)2K	8	-0.120	2(2H)4I	6	-0.042	3(1I)2K	10	
8	-	109443.7	-	-	-0.992	3(3H)4I	9	0.085	2(2I)4I	5	-0.072	2(2H)4I	6	-0.050	3(1I)2K	10	
9	-	111973.6	-	-	-0.978	2(2H)4I	6	-0.151	2(2I)4I	5	-0.099	2(2I)2K	7	-0.061	2(2I)2K	8	
10	-	119510.9	-	-	0.993	3(1I)2K	10	0.090	2(2I)2K	7	-0.063	2(2I)2K	8	-0.051	3(3H)4I	9	
11	-	122878.6	-	-	-0.739	4(3H)2K	21	-0.502	4(3H)4K	13	0.351	4(3H)4L	12	0.266	4(3H)2L	19	
12	-	122902.0	-	-	0.914	4(3H)4I	15	-0.299	4(3H)4K	13	0.254	4(3H)2K	21	-0.079	4(3H)2L	19	
13	-	123053.6	-	-	0.711	4(3H)4L	12	0.534	4(3H)2L	19	0.386	4(3H)2K	21	0.221	4(3H)4K	13	
14	-	123087.9	-	-	-0.638	4(3H)4K	13	-0.430	4(3H)2L	19	0.396	4(3H)2K	21	-0.367	4(3H)4I	15	
15	-	123213.5	-	-	0.651	4(3H)2L	19	-0.506	4(3H)4L	12	-0.435	4(3H)4K	13	0.278	4(3H)2K	21	
16	-	123916.2	-	-	0.843	2(2I)2K	8	-0.528	2(2I)2K	7	0.101	3(1I)2K	10				
17	-	124137.5	-	-	-0.854	4(3F)4I	18	0.466	4(3F)4I	17	0.125	4(3G)4K	14	0.118	4(3H)2L	19	
18	-	127027.7	-	-	-0.967	4(3G)4I	16	0.203	4(3G)4K	14	0.108	4(3H)4K	13	-0.042	3(1I)2K	10	
19	-	127049.7	-	-	-0.839	4(3G)2K	22	-0.527	4(3G)4K	14	0.097	4(3H)4L	12	0.077	4(3H)2L	19	
20	-	127439.2	-	-	-0.805	4(3G)4K	14	0.517	4(3G)2K	22	-0.214	4(3G)4I	16	-0.155	4(3F)4I	18	
21	-	132751.6	-	-	0.789	4(1G)2K	25	-0.585	4(1G)2K	24	-0.148	4(1I)2K	23	-0.079	4(3F)4I	18	
22	-	133025.4	-	-	0.998	4(1I)2L	20	-0.042	4(3H)2K	21							
23	-	133096.2	-	-	0.987	4(1I)2K	23	0.114	4(1G)2K	25	-0.093	4(1G)2K	24	-0.047	4(3H)4I	15	
24	-	151929.9	-	-	0.878	4(3F)4I	17	0.475	4(3F)4I	18	-0.042	4(1G)2K	24				
25	-	159149.2	-	-	-0.801	4(1G)2K	24	-0.597	4(1G)2K	25	-0.038	4(3F)4I	17	-0.031	4(3F)4I	18	

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS													
1	-	103179.9	-	-	1.000	2(2I)4K	1										
2	-	122815.6	-	-	0.834	4(3H)2L	6	0.549	4(3H)4L	2	0.052	4(1I)2M	5				
3	-	122881.2	-	-	-0.895	4(3H)4K	3	0.361	4(3H)4L	2	-0.252	4(3H)2L	6	0.056	4(3G)4K	4	
4	-	123056.8	-	-	0.746	4(3H)4L	2	-0.483	4(3H)2L	6	0.444	4(3H)4K	3	0.110	4(3G)4K	4	
5	-	127052.8	-	-	0.992	4(3G)4K	4	-0.104	4(3H)4L	2	0.067	4(3H)2L	6				
6	-	132900.0	-	-	0.999	4(1I)2M	5	-0.043	4(3H)2L	6							
7	-	133028.0	-	-	-0.999	4(1I)2L	7	0.050	4(3H)4K	3							

J 9.5 26.01

D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS													
1	-	122818.8	-	-	0.999	4(3H)4L	1	0.052	4(1I)2M	2							
2	-	132903.2	-	-	0.999	4(1I)2M	2	-0.052	4(3H)4L	1							

Table 5. Transition integrals.

These are the transition integrals between the even and odd configurations computed with scaled Thomas–Fermi–Dirac wavefunctions. Refer to Kurucz (1973) for the definition of the integral and a description of the wave functions.

		1	2	3	4
		$d^6 4p$	$d^5 4s4p$	$d^6 5p$	$d^6 4f$
1	d^7	1.35766	0.00000	0.31047	-0.62290
2	$d^6 4s$	2.83484	1.09794	0.02568	0.00000
3	$d^5 4s^2$	0.00000	2.57820	0.00000	0.00000
4	$d^6 5s$	-1.96706	0.00000	6.47685	0.00000
5	$d^6 6s$	-0.54524	0.00000	-4.50327	0.00000
6	$d^6 4d$	-4.48957	0.00000	7.67470	10.60525
7	$d^6 5d$	-1.41681	0.00000	-6.79612	-10.68216
8	$d^5 4s5s$	0.00000	-1.38775	0.00000	0.00000
9	$d^5 4s4d$	0.00000	-3.78465	0.00000	0.00000
10	$d^5 4p^2$	-1.02594	-2.46905	0.00000	0.00000

Table 6. Partial sums for damping constants.

This table lists the sum of the A values for each level, contributions to the Stark and van der Waals damping constants, and f sums from the complete transition array. These sums generally are not directly usable, because transitions to other configurations must be added. However, since these configurations include all the low-lying levels of the atom, a number of the A sums are complete and can be used to compute radiative lifetimes.

For the treatment of Stark broadening, we follow Hunger (1960). The perturbation on level k is

$$\Delta E = \frac{-e^4}{r^4} \frac{1}{3} \frac{3\hbar^2}{2m} \sum_{k'} \frac{f_{kk'}}{(E_k - E_{k'})^2},$$

where $f_{kk'} = gf/g_k$ for $E_k < E_{k'}$, or $f_{kk'} = -gf/g_{k'}$ for $E_k > E_{k'}$. The constant C_{Stark} is defined such that

$$\Delta\omega = \frac{2\pi \Delta E}{h} = \frac{2\pi C_{\text{Stark}}}{r^4},$$

so that

$$\begin{aligned} C_{\text{Stark}} &= \frac{-e^4}{8\pi^2 h m} \sum_{k'} \frac{f_{kk'}}{\nu^2} \\ &= -1.11336\text{E}14 \sum_{k'} \frac{f_{kk'}}{\nu^2} \\ &= -1.23878\text{E}-21 \sum_{k'} f_{kk'} \lambda^2, \end{aligned}$$

where λ is in nanometers.

We treat van der Waals broadening in similar fashion. From Margenau (1939), we have

$$\Delta E = \frac{3}{2} \frac{e^4}{r^6} \frac{\hbar^4}{m^2} \sum_{k'} \sum_{\ell'} \frac{f_{kk'} f_{\ell\ell'}}{(E_k - E_{k'}) (E_{\ell} - E_{\ell'}) (E_k - E_{k'} + E_{\ell} - E_{\ell'})} ,$$

where k and ℓ refer to different atoms. Let all the perturbing atoms be in the ground state ℓ and let $(E_{\ell} - E_{\ell'})$ be larger than $|(E_k - E_{k'})|$, so that $(E_k - E_{k'} + E_{\ell} - E_{\ell'}) \sim (E_{\ell} - E_{\ell'})$. If a perturber is hydrogen or helium and the perturbed atom is a metal atom with closely spaced energy levels, this is a reasonable approximation. Then, approximately,

$$\Delta E \sim \frac{3}{2} \frac{e^4}{r^6} \frac{\hbar^4}{m^2} \sum_{\ell'} \frac{f_{\ell\ell'}}{(E_{\ell} - E_{\ell'})^2} \sum_{k'} \frac{f_{kk'}}{E_k - E_{k'}} = \frac{3}{2} \frac{e^2}{r^6} \frac{\hbar^2}{m} \alpha \sum_{k'} \frac{f_{kk'}}{E_k - E_{k'}} ,$$

where α is the polarizability of the perturbing atom. The constant C_{Waals} is defined such that

$$\Delta\omega = \frac{2\pi \Delta E}{h} = \frac{2\pi C_{\text{Waals}}}{r^6} ,$$

so that

$$C_{\text{Waals}} = \frac{3e^2}{8\pi^2 m} \alpha \sum_{k'} \left| \frac{f_{kk'}}{\nu} \right| = 9.6223E6 \alpha \sum_{k'} \left| \frac{f_{kk'}}{\nu} \right| .$$

In computing Table 7, we assumed that the perturber was hydrogen, for which $\alpha = 6.70E-25 \text{ cm}^3$.

The f sum for each level $\sum_{k'} f_{kk'}$, where $f_{kk'}$ is as defined above, is provided for comparison with sum rules.

PARTIAL SUMS FOR DAMPING CONSTANTS		26.01					D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2				
J= 0.5	LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F	
1	977.053	0.00E+00	-7.79E-17	6.19E-33	1.470	98	-152044.672	1.18E+09	1.87E-17	1.87E-33 -0.508	
2	8846.768	0.00E+00	-8.35E-17	6.19E-33	1.456	99	-152313.375	2.38E+08	6.15E-16	1.34E-32 -0.873	
3	13904.824	0.00E+00	-2.25E-17	2.19E-33	0.685	100	-152686.703	1.86E+09	3.88E-17	3.08E-33 -0.730	
4	18886.779	0.00E+00	-2.11E-17	2.17E-33	0.667	101	-153189.172	1.88E+09	3.43E-17	3.08E-33 -0.788	
5	22409.852	0.00E+00	-7.82E-17	6.15E-33	1.447	102	-153529.609	1.95E+09	3.39E-17	3.08E-33 -0.793	
6	26932.748	0.00E+00	-8.15E-17	6.16E-33	1.441	103	-153818.406	5.27E+08	1.52E-17	1.26E-33 -0.290	
7	31368.449	0.00E+00	-7.92E-17	6.19E-33	1.448	104	-154233.094	6.12E+08	1.39E-17	1.26E-33 -0.312	
8	37227.324	0.00E+00	-8.21E-17	6.19E-33	1.408	105	-154269.313	1.32E+09	3.65E-17	2.86E-33 -0.639	
9	49100.977	1.14E+02	-7.77E-17	6.19E-33	1.451	106	-154405.109	6.91E+08	2.46E-17	1.87E-33 -0.407	
10	54063.461	1.08E+01	-8.18E-17	6.19E-33	1.441	107	-154874.109	7.17E+08	2.47E-17	1.87E-33 -0.412	
11	57578.484	1.55E+04	-9.50E-17	8.67E-33	2.257	108	-155372.734	1.69E+09	3.54E-17	2.95E-33 -0.714	
12	60384.371	1.22E+05	-9.77E-17	8.68E-33	2.273	109	-155615.781	1.26E+09	4.05E-17	2.94E-33 -0.621	
13	78843.992	3.92E+08	-1.57E-15	2.99E-32	1.031	110	-156255.969	5.28E+08	1.44E-17	1.26E-33 -0.298	
14	80346.016	3.09E+08	-1.42E-15	2.99E-32	1.007	111	-157119.063	5.35E+08	1.50E-17	1.26E-33 -0.292	
15	83558.539	6.67E+08	-1.13E-15	2.50E-32	1.064	112	-157851.359	4.05E+08	1.61E-15	2.12E-32 -1.039	
16	84131.563	6.62E+08	-1.17E-15	2.50E-32	1.015	113	-157936.016	1.75E+09	3.26E-17	2.97E-33 -0.762	
17	85172.813	4.73E+08	-1.15E-15	2.50E-32	1.019	114	-157950.328	3.88E+08	1.62E-15	2.12E-32 -1.026	
18	-86875.039	2.67E+05	-8.73E-17	8.68E-33	2.274	115	-158445.016	4.24E+08	1.52E-15	2.12E-32 -1.081	
19	88189.031	5.55E+08	-2.02E-15	2.50E-32	0.718	116	-158771.156	5.48E+08	1.41E-17	1.26E-33 -0.302	
20	-97245.461	1.57E+05	-7.90E-17	6.20E-33	1.408	117	-159077.797	4.44E+08	1.38E-15	2.12E-32 -1.153	
21	-99196.602	3.79E+08	-1.35E-15	2.99E-32	1.014	118	-159345.375	1.86E+09	3.16E-17	2.92E-33 -0.756	
22	-100082.125	3.39E+08	-1.42E-15	2.99E-32	1.011	119	-159541.578	1.05E+09	2.06E-17	1.87E-33 -0.474	
23	102666.695	2.20E+08	6.27E-16	1.34E-32	-0.815	120	-159633.938	4.38E+08	1.39E-15	2.12E-32 -1.142	
24	-102696.469	6.26E+08	-1.19E-15	2.50E-32	1.034	121	-160062.844	4.90E+08	1.29E-15	2.12E-32 -1.214	
25	103265.695	1.93E+08	6.24E-16	1.34E-32	-0.785	122	-160622.391	1.85E+09	2.94E-17	2.78E-33 -0.727	
26	-103563.633	5.72E+08	-1.19E-15	2.50E-32	1.040	123	-160893.672	1.10E+09	1.99E-17	1.87E-33 -0.486	
27	-104438.484	2.78E+08	1.05E-14	2.12E-32	-0.548	124	-161108.406	1.34E+09	3.46E-17	2.84E-33 -0.648	
28	-104548.914	4.99E+08	-1.06E-15	2.50E-32	1.044	125	-161272.188	2.04E+09	3.01E-17	2.81E-33 -0.748	
29	104757.109	2.80E+08	8.11E-15	2.12E-32	-0.569	126	-161286.922	1.18E+09	1.90E-17	1.87E-33 -0.505	
30	105230.289	2.24E+08	5.70E-15	2.12E-32	-0.569	127	-161554.750	1.44E+09	3.51E-17	2.84E-33 -0.657	
31	-105516.406	6.04E+08	-1.27E-15	2.50E-32	0.999	128	-161647.938	1.09E+09	1.99E-17	1.87E-33 -0.485	
32	-106576.117	6.30E+08	-1.51E-15	2.50E-32	0.896	129	-162359.422	1.57E+09	3.38E-17	2.88E-33 -0.699	
33	-107027.703	2.59E+08	2.79E-15	2.12E-32	-0.734	130	-162489.078	1.10E+09	1.90E-17	1.87E-33 -0.497	
34	-108222.922	6.00E+08	-1.82E-15	2.50E-32	0.779	131	-163195.109	1.18E+09	1.88E-17	1.87E-33 -0.507	
35	-108705.898	3.95E+08	-1.42E-15	2.99E-32	0.953	132	-163225.875	2.33E+09	3.23E-17	3.10E-33 -0.838	
36	-109681.500	6.15E+08	-1.58E-15	2.50E-32	0.892	133	-164036.563	1.09E+09	2.01E-17	1.87E-33 -0.483	
37	-111718.992	3.60E+08	-1.81E-15	2.99E-32	0.989	134	-164517.906	1.18E+09	1.87E-17	1.87E-33 -0.508	
38	-113932.875	5.78E+08	2.64E-17	1.87E-33	-0.382	135	-164610.953	2.12E+09	3.19E-17	2.97E-33 -0.790	
39	-116294.813	6.96E+08	-1.84E-15	2.50E-32	0.720	136	-164675.094	1.08E+09	2.03E-17	1.87E-33 -0.483	
40	-117053.281	6.26E+08	-1.85E-15	2.50E-32	0.736	137	-164918.109	1.20E+09	1.88E-17	1.87E-33 -0.509	
41	-117122.328	6.28E+08	-1.94E-15	2.50E-32	0.692	138	-165173.625	1.15E+09	1.90E-17	1.87E-33 -0.503	
42	-117550.859	1.57E+06	-1.07E-16	8.68E-33	2.267	139	-165698.703	9.24E+08	2.22E-17	1.87E-33 -0.450	
43	-117734.922	7.47E+08	9.84E-15	2.50E-32	0.544	140	-165876.828	1.01E+09	2.06E-17	1.87E-33 -0.475	
44	-118728.211	7.67E+08	4.24E-17	2.85E-33	-0.546	141	-166259.906	1.10E+09	1.99E-17	1.87E-33 -0.486	
45	-120960.430	6.61E+08	-1.35E-15	2.50E-32	0.877	142	-167329.641	8.13E+08	2.30E-17	1.87E-33 -0.433	
46	-121830.008	1.67E+09	3.58E-17	3.09E-33	-0.780	143	-167507.578	8.69E+08	2.25E-17	1.87E-33 -0.443	
47	-122726.789	2.13E+08	6.41E-16	1.34E-32	-0.805	144	-167661.047	1.90E+09	4.03E-17	3.07E-33 -0.696	
48	-123250.867	2.06E+08	6.39E-16	1.34E-32	-0.796	145	-167856.641	1.85E+09	3.88E-17	3.06E-33 -0.711	
49	-123318.008	2.75E+08	8.21E-15	2.12E-32	-0.562	146	-168028.016	2.07E+09	3.35E-17	3.04E-33 -0.786	
50	-123450.617	7.26E+08	-2.54E-15	2.50E-32	0.573	147	-168210.875	9.95E+08	3.09E-16	2.50E-32 -0.056	
51	-123940.766	2.46E+08	8.34E-15	2.12E-32	-0.561	148	-168253.250	7.53E+08	2.33E-17	1.87E-33 -0.421	
52	-124737.125	2.37E+08	1.02E-14	2.12E-32	-0.552	149	-168862.047	9.45E+08	3.23E-16	2.50E-32 -0.097	
53	-125973.305	2.69E+08	6.05E-15	2.12E-32	-0.588	150	-169628.422	1.19E+09	1.92E-17	1.87E-33 -0.504	
54	-126579.438	2.79E+08	4.39E-15	2.12E-32	-0.638	151	-169900.266	2.11E+09	4.02E-17	3.15E-33 -0.738	
55	-127535.469	2.70E+08	2.87E-15	2.12E-32	-0.718	152	-170368.172	1.73E+09	4.12E-17	3.01E-33 -0.653	
56	-128040.625	4.28E+08	-1.59E-15	2.99E-32	0.839	153	-170960.172	2.07E+09	3.09E-17	2.93E-33 -0.780	
57	-129165.141	3.70E+08	-1.59E-15	2.99E-32	0.837	154	-171481.969	9.47E+08	2.03E-17	1.87E-33 -0.463	
58	-129774.250	1.25E+09	1.89E-17	1.87E-33	-0.510	155	-171593.891	7.38E+08	2.17E-17	1.87E-33 -0.420	
59	-129941.453	8.28E+08	-1.37E-15	2.50E-32	0.494	156	-172681.047	1.39E+09	3.70E-17	2.88E-33 -0.646	
60	-129989.984	2.81E+08	3.87E-15	2.12E-32	-0.670	157	-173198.219	9.33E+08	2.13E-17	1.87E-33 -0.458	
61	-130223.055	1.32E+09	1.80E-17	1.87E-33	-0.528	158	-173910.375	1.33E+09	1.84E-17	1.87E-33 -0.527	
62	-132358.125	2.33E+08	6.12E-16	1.34E-32	-0.843	159	-174920.125	2.12E+09	3.14E-17	2.98E-33 -0.792	
63	-135179.625	2.19E+08	6.37E-16	1.34E-32	-0.818	160	-175720.172	2.84E+08	2.04E-17	1.26E-33 -0.227	
64	-136703.875	3.26E+08	2.48E-15	2.12E-32	-0.819	161	-176016.031	1.17E+09	1.88E-17	1.87E-33 -0.506	
65	-136989.063	8.44E+08	-4.89E-15	2.50E-32	0.500	162	-176255.438	1.16E+09	1.89E-17	1.87E-33 -0.504	
66	-137137.844	1.69E+08	-3.70E-15	2.50E-32	0.537	163	-176336.969	1.00E+09	2.21E-17	1.87E-33 -0.465	
67	-137166.203	3.03E+08	2.21E-15	2.12E-32	-0.839	164	-176568.406	4.71E+08	-1.81E-15	2.99E-32 0.619	
68	-137244.828	3.07E+08	2.06E-15	2.12E-32	-0.832	165	-176927.547	1.03E+09	2.06E-17	1.87E-33 -0.473	
69	-137441.281	3.47E+08	2.09E-15	2.12E-32	-0.890	166	-177681.031	9.79E+08	2.15E-17	1.87E-33 -0.465	
70	-137945.719	8.51E+08	-8.07E-16	2.50E-32	0.427	167	-178182.094	1.97E+09	3.94E-17	3.03E-33 -0.721	
71	-139001.531	8.57E+08	6.21E-16	2.50E-32	0.297	168	-178478.375	1.25E+09	1.91E-17	1.87E-33 -0.507	
72	-139627.813	8.71E+08	7.20E-14	2.50E-32	0.290	169	-178858.672	1.16E+09	1.97E-17	1.87E-33 -0.492	
73	-140261.047	1.72E+09	2.96E-17	2.79E-33	-0.724	170	-179158.375	2.09E+09	3.64E-17	3.08E-33 -0.771	
74	-140610.172	1.08E+09	2.45E-15	2.50E-32	0.097	171	-180387.516	5.54E+08	1.42E-17	1.26E-33 -0.303	
75	-141534.141	2.94E+08	3.50E-15	2.12E-32	-0.697	172	-180591.375	1.22E+09	1.84E-17	1.87E-33 -0.514	
76	-142759.875	3.24E+08	2.34E-15	2.12E-32	-0.826	173	-180670.234	4.95E+08	1.58E-17	1.26E-33 -0.282	
77	-143015.328	2.85E+08	2.05E-17	1.26E-33	-0.227	174	-183046.078	1.81E+09	4.16E-17	3.11E-33 -0.681	
78	-143197.172	1.48E+09	2.91E-17	2.72E-33	-0.693	175	-183566.734	2.20E+09	3.00E-17	2.92E-33 -0.791	
79	-143905.313	4.96E+08	1.50E-17	1.26E-33	-0.290	176	-184046.141	9.17E+08	2.23E-17	1.87E-33 -0.447	
80	-143952.500	1.06E+09	1.92E-17	1.87E-33	-0.492	177	-184767.828	2.15E+09	2.91E-17	2.85E-33 -0.777	
81	-145459.703	1.07E+09	1.92E-17	1.87E-33	-0.492	178	-187242.734	1.17E+09	1.87E-17	1.87E-33 -0.507	
82	-145693.047	1.69E+09	3.00E-17	2.81E-33	-0.721	179	-187974.625	1.20E+09	1.85E-17	1.87E-33 -0.511	
83	-145944.578	1.49E+09	2.99E-17	2.75E-33	-0.629	180	-188215.641	5.82E+08	9.89E-16	2.12E-32 -1.454	
84	-146271.766	2.61E+08	2.11E-17	1.26E-33	-0.219	181	-188469.813	2.09E+09	3.56E-17	2.95E-33 -0.739	
85	-146643.422										

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
195	-206155.156	2.94E+08	2.01E-17	1.26E-33	-0.227	75	-119604.305	6.79E+08	-7.75E-15	2.50E-32	0.552
196	-210268.859	1.23E+09	1.85E-17	1.87E-33	-0.514	76	-121563.492	2.06E+08	6.19E-16	1.34E-32	-0.795
197	-210821.719	2.65E+09	4.16E-17	3.24E-33	-0.787	77	-121667.781	1.67E+09	3.60E-17	3.09E-33	-0.779
198	-210891.234	5.07E+08	1.55E-17	1.26E-33	-0.285	78	-122255.938	6.87E+08	-1.67E-13	2.50E-32	0.696
199	-211370.031	1.23E+09	1.84E-17	1.87E-33	-0.514	79	-122626.273	2.14E+08	6.37E-16	1.34E-32	-0.807
200	-211692.250	5.50E+08	1.45E-17	1.26E-33	-0.299	80	-123257.578	7.11E+08	-2.35E-15	2.50E-32	0.596
201	-212720.875	8.83E+08	2.20E-17	1.87E-33	-0.446	81	-123330.453	2.72E+08	8.19E-15	1.12E-32	-0.560
202	-214016.109	2.73E+09	3.23E-17	3.17E-33	-0.886	82	-123468.836	6.34E+08	1.41E-17	1.26E-33	-0.317
203	-214393.203	2.34E+09	2.89E-17	2.81E-33	-0.768	83	-123575.438	2.20E+08	6.35E-16	1.34E-32	-0.817
204	-215908.906	1.53E+09	3.69E-17	2.83E-33	-0.627	84	-123930.063	2.47E+08	7.86E-15	1.26E-32	-0.560
205	-217708.094	2.59E+09	2.81E-17	2.83E-33	-0.800	85	-124634.984	2.54E+08	1.06E-14	1.26E-32	-0.541
206	-217803.719	1.11E+09	1.90E-17	1.87E-33	-0.497	86	-124721.352	2.44E+08	9.60E-15	1.26E-32	-0.553
207	-218917.625	1.16E+09	1.91E-17	1.87E-33	-0.499	87	-125208.383	2.00E+06	-9.06E-17	8.67E-33	2.250
208	-219210.016	1.01E+09	2.08E-17	1.87E-33	-0.468	88	-125232.023	2.44E+08	6.20E-15	1.26E-32	-0.578
209	-220302.938	7.46E+08	2.38E-17	1.87E-33	-0.416	89	-125472.078	2.55E+08	6.43E-15	1.26E-32	-0.578
210	-221160.422	2.52E+09	3.35E-17	2.99E-33	-0.789	90	-125898.180	2.69E+08	5.98E-15	1.26E-32	-0.591
211	-221746.656	2.03E+09	3.88E-17	2.99E-33	-0.692	91	-126460.273	2.79E+08	4.41E-15	1.26E-32	-0.639
212	-224550.609	6.00E+08	2.50E-17	1.87E-33	-0.387	92	-126523.188	2.83E+08	3.71E-15	1.26E-32	-0.662
213	-226689.141	9.14E+08	2.18E-17	1.87E-33	-0.449	93	-127092.648	2.55E+08	3.25E-15	1.26E-32	-0.672
214	-228045.672	1.35E+09	1.82E-17	1.87E-33	-0.526	94	-127614.305	2.74E+08	2.16E-15	1.26E-32	-0.736
215	-229322.828	1.34E+09	3.36E-17	2.77E-33	-0.635	95	-128435.500	4.30E+08	-1.61E-15	2.99E-32	0.838
						96	-128563.836	4.25E+08	-1.75E-15	2.99E-32	0.845
J= 1.5						97	-129777.836	1.25E+09	1.89E-17	1.87E-33	-0.510
1	862.613	0.00E+00	-7.79E-17	6.19E-33	1.470	98	-129917.898	2.83E+08	3.85E-15	1.26E-32	-0.672
2	3117.461	0.00E+00	-2.00E-17	2.14E-33	0.688	99	-130001.031	8.56E+08	-2.99E-15	2.50E-32	0.480
3	8680.454	0.00E+00	-8.35E-17	6.19E-33	1.456	100	-130051.766	3.70E+08	-1.63E-15	2.99E-32	0.836
4	13673.185	0.00E+00	-2.25E-17	2.19E-33	0.685	101	-130223.367	1.32E+09	1.80E-17	1.87E-33	-0.528
5	18360.646	0.00E+00	-2.13E-17	2.18E-33	0.667	102	-130788.313	8.08E+08	-3.83E-15	2.50E-32	0.429
6	21308.039	0.00E+00	-2.12E-17	2.16E-33	0.660	103	-130877.492	2.75E+08	2.60E-15	1.26E-32	-0.729
7	21812.055	0.00E+00	-7.82E-17	6.15E-33	1.446	104	-130965.227	3.19E+08	2.71E-15	1.26E-32	-0.793
8	23031.301	0.00E+00	-7.88E-17	6.19E-33	1.454	105	-132366.953	2.33E+08	6.12E-16	1.34E-32	-0.843
9	25787.598	0.00E+00	-8.14E-17	6.14E-33	1.438	106	-132728.906	2.11E+08	7.46E-16	1.34E-32	-0.818
10	31364.439	0.00E+00	-7.90E-17	6.19E-33	1.450	107	-134612.031	2.50E+08	4.74E-15	1.26E-32	-0.614
11	36126.387	0.00E+00	-8.16E-17	6.18E-33	1.440	108	-136603.594	3.22E+08	2.57E-15	1.26E-32	-0.803
12	38214.508	0.00E+00	-7.87E-17	6.16E-33	1.448	109	-136717.000	3.26E+08	2.49E-15	1.26E-32	-0.818
13	47674.723	3.00E-01	-2.43E-17	2.20E-33	0.638	110	-136836.172	3.36E+08	2.41E-15	1.26E-32	-0.838
14	49506.934	1.74E+02	-7.81E-17	6.19E-33	1.449	111	-136998.828	8.75E+08	-9.89E-15	2.50E-32	0.476
15	50075.910	2.44E+02	-7.94E-17	6.19E-33	1.441	112	-137100.703	7.41E+08	-2.87E-15	2.50E-32	0.541
16	54902.316	1.17E+01	-8.18E-17	6.19E-33	1.442	113	-137143.469	3.05E+08	2.14E-15	1.26E-32	-0.824
17	57493.320	1.76E+04	-9.45E-17	8.67E-33	2.257	114	-137272.922	9.38E+08	-7.21E-13	2.50E-32	0.418
18	60441.031	1.21E+05	-9.50E-17	8.68E-33	2.273	115	-137275.703	2.88E+08	4.81E-15	1.26E-32	-0.684
19	-71832.578	5.23E+04	-9.17E-17	8.65E-33	2.256	116	-137494.094	3.50E+08	2.10E-15	1.26E-32	-0.893
20	73637.344	3.52E+05	-8.86E-17	8.68E-33	2.254	117	-137683.375	5.25E+08	1.43E-17	1.26E-33	-0.299
21	-76694.039	9.67E+03	-7.87E-17	6.20E-33	1.433	118	-137867.469	8.43E+08	3.34E-14	2.50E-32	0.430
22	78725.789	3.92E+08	-1.51E-15	2.99E-32	1.033	119	-138504.141	2.24E+08	6.16E-16	1.34E-32	-0.828
23	80177.977	3.09E+08	-1.41E-15	2.99E-32	1.015	120	-138603.016	3.18E+08	2.01E-15	1.26E-32	-0.876
24	83459.672	6.67E+08	-1.13E-15	2.50E-32	1.060	121	-138914.125	8.77E+08	-1.51E-14	2.50E-32	0.283
25	83990.063	6.51E+08	-1.16E-15	2.50E-32	1.019	122	-139227.844	8.32E+08	-1.79E-14	2.50E-32	0.300
26	84424.367	6.00E+08	-1.14E-15	2.50E-32	1.021	123	-139455.047	8.33E+08	-7.64E-15	2.50E-32	0.279
27	84938.180	6.21E+08	-1.31E-15	2.50E-32	0.972	124	-140004.984	7.84E+08	5.76E-15	2.50E-32	0.290
28	85048.602	4.75E+08	-1.17E-15	2.50E-32	1.012	125	-140216.641	1.71E+09	2.96E-17	2.79E-33	-0.723
29	85728.805	4.47E+08	-1.28E-15	2.50E-32	0.955	126	-140528.422	1.07E+09	2.81E-15	2.50E-32	0.107
30	86710.836	5.63E+08	-1.44E-15	2.50E-32	0.890	127	-140642.219	5.24E+08	1.43E-17	1.26E-33	-0.299
31	88157.117	5.54E+08	-2.04E-15	2.50E-32	0.722	128	-141250.750	8.47E+08	1.12E-15	2.50E-32	0.245
32	-93809.109	6.64E+05	-9.95E-17	8.68E-33	2.262	129	-141332.875	1.55E+09	2.99E-17	2.77E-33	-0.703
33	-98229.656	3.58E+08	-1.38E-15	2.99E-32	1.020	130	-141966.641	1.78E+09	2.95E-17	2.84E-33	-0.748
34	-99208.313	3.58E+08	-1.34E-15	2.99E-32	1.011	131	-142178.313	3.02E+08	2.97E-15	1.26E-32	-0.752
35	99918.570	3.81E+08	-1.39E-15	2.99E-32	1.011	132	-142675.891	3.20E+08	2.42E-15	1.26E-32	-0.817
36	102543.648	2.20E+08	6.28E-16	1.34E-32	-0.814	133	-142987.922	2.73E+08	2.07E-17	1.26E-33	-0.224
37	-102717.570	6.20E+08	-1.18E-15	2.50E-32	1.037	134	-143270.172	1.51E+09	2.91E-17	2.73E-33	-0.697
38	103118.398	1.93E+08	6.26E-16	1.34E-32	-0.782	135	-143917.922	5.08E+08	1.47E-17	1.26E-33	-0.293
39	-103536.477	5.69E+08	-1.16E-15	2.50E-32	1.044	136	-143953.734	1.06E+09	1.92E-17	1.87E-33	-0.492
40	-104194.305	5.86E+08	-1.14E-15	2.50E-32	1.050	137	-144014.531	1.13E+09	1.88E-17	1.87E-33	-0.503
41	-104327.539	2.79E+08	9.99E-15	2.12E-32	-0.554	138	-144877.047	1.21E+09	3.67E-17	2.86E-33	-0.640
42	-104504.461	5.27E+08	-1.11E-15	2.50E-32	1.037	139	-145441.344	1.07E+09	1.92E-17	1.87E-33	-0.492
43	104588.711	2.76E+08	8.57E-15	2.12E-32	-0.564	140	-145760.328	1.68E+09	3.00E-17	2.80E-33	-0.719
44	104630.430	2.61E+08	1.03E-14	2.12E-32	-0.538	141	-146064.781	1.49E+09	2.99E-17	2.74E-33	-0.692
45	-105078.227	5.38E+08	-1.18E-15	2.50E-32	1.009	142	-146323.813	2.60E+08	2.11E-17	1.26E-33	-0.219
46	-105141.563	2.27E+08	5.55E-15	2.12E-32	-0.581	143	-146653.250	1.16E+09	1.86E-17	1.87E-33	-0.508
47	105288.531	2.67E+08	6.70E-15	2.12E-32	-0.590	144	-146852.188	1.13E+09	1.87E-17	1.87E-33	-0.503
48	-105294.539	5.80E+08	-1.22E-15	2.50E-32	0.999	145	-146912.719	9.24E+08	4.75E-15	2.50E-32	0.095
49	-105452.789	5.93E+08	-1.26E-15	2.50E-32	1.001	146	-147053.891	7.07E+08	2.46E-17	1.87E-33	-0.410
50	-105476.805	2.26E+08	4.84E-15	2.12E-32	-0.604	147	-147272.172	1.31E+09	3.46E-17	2.83E-33	-0.659
51	-106335.039	2.54E+08	3.47E-15	2.12E-32	-0.658	148	-147580.453	1.10E+09	1.89E-17	1.87E-33	-0.499
52	-106422.742	6.31E+08	-1.51E-15	2.50E-32	0.897	149	-147643.547	1.36E+09	3.43E-17	2.85E-33	-0.672
53	-106661.313	6.25E+08	-1.66E-15	2.50E-32	0.861	150	-148054.516	6.71E+08	2.49E-17	1.87E-33	-0.401
54	-107025.898	2.59E+08	2.90E-15	2.12E-32	-0.729	151	-148998.766	1.89E+09	3.01E-17	2.88E-33	-0.757
55	-107522.492	5.43E+08	-1.54E-15	2.50E-32	0.873	152	-149782.266	1.24E+09	4.17E-17	2.94E-33	-0.607
56	-108545.313	6.10E+08	-2.14E-15	2.50E-32	0.741	153	-149868.922	9.60E+08	4.15E-17	2.85E-33	-0.562
57	-108714.680	3.92E+08	-1.37E-15	2.99E-32	0.954	154	-149875.500	1.10E+09	1.91E-17	1.87E-33	-0.497
58	109449.531	1.08E+09	1.89E-17	1.87E-33	-0.497	155	-149935.250	9.82E+08	2.05E-17	1.87E-33	-0.472
59	-109610.172	6.18E+08	-1.54E-15	2.50E-32	0.888	156	-149951.141	3.74E+08	1.94E-15	1.26E-32	-0.928
60	-109621.656	3.35E+08	-1.49E-15	2.99E-32	0.953</						

PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
172	-153173.391	2.37E+08	5.94E-16	1.34E-32	-0.871	269	-172338.734	2.06E+09	3.10E-17	2.94E-33	-0.780
173	-153420.484	1.89E+09	3.34E-17	3.05E-33	-0.787	270	-172709.438	1.05E+09	2.09E-17	1.87E-33	-0.478
174	-153694.984	1.88E+09	3.46E-17	3.09E-33	-0.787	271	-172805.453	1.48E+09	1.73E-17	2.91E-33	-0.663
175	-153735.438	5.28E+08	1.52E-17	1.26E-33	-0.291	272	-172886.891	1.04E+09	2.10E-17	1.87E-33	-0.475
176	-153769.891	7.04E+08	2.42E-17	1.87E-33	-0.411	273	-173474.906	9.79E+08	1.88E-17	1.87E-33	-0.467
177	-154107.922	6.10E+08	1.40E-17	1.26E-33	-0.312	274	-173596.469	1.83E+09	4.11E-17	3.11E-33	-0.724
178	-154302.609	1.54E+09	3.47E-17	2.88E-33	-0.681	275	-173800.109	5.54E+08	1.42E-17	1.26E-33	-0.303
179	-154491.203	6.92E+08	2.45E-17	1.87E-33	-0.407	276	-174215.719	8.76E+08	2.21E-17	1.87E-33	-0.445
180	-154805.719	7.07E+08	2.48E-17	1.87E-33	-0.409	277	-174907.563	1.79E+09	3.64E-17	3.03E-33	-0.736
181	-155380.953	1.53E+09	3.76E-17	2.97E-33	-0.685	278	-175072.703	8.84E+08	2.31E-17	1.87E-33	-0.444
182	-155400.938	4.38E+08	-1.73E-15	2.99E-32	0.735	279	-175203.078	2.14E+09	3.14E-17	2.98E-33	-0.795
183	-155665.484	1.30E+09	4.01E-17	2.94E-33	-0.628	280	-175384.531	1.18E+09	1.87E-17	1.87E-33	-0.508
184	-155886.906	1.29E+09	3.91E-17	2.87E-33	-0.609	281	-175846.672	1.15E+09	1.95E-17	1.87E-33	-0.500
185	-156291.203	5.28E+08	1.44E-17	1.26E-33	-0.298	282	-175992.859	1.11E+09	1.99E-17	1.87E-33	-0.489
186	-156489.422	1.61E+09	3.52E-17	3.00E-33	-0.736	283	-176091.547	2.28E+09	4.18E-17	3.22E-33	-0.769
187	-156955.000	1.45E+09	4.07E-17	3.01E-33	-0.653	284	-176140.703	1.14E+09	1.95E-17	1.87E-33	-0.497
188	-157116.047	5.33E+08	1.51E-17	1.26E-33	-0.292	285	-176293.625	1.17E+09	1.91E-17	1.87E-33	-0.504
189	-157119.000	1.30E+09	1.81E-17	1.87E-33	-0.524	286	-176759.047	1.10E+09	2.00E-17	1.87E-33	-0.485
190	-157443.953	6.05E+08	1.40E-17	1.26E-33	-0.310	287	-176897.313	1.04E+09	2.05E-17	1.87E-33	-0.474
191	-157516.109	1.72E+09	3.34E-17	2.97E-33	-0.750	288	-177195.859	1.35E+09	3.49E-17	2.89E-33	-0.663
192	-157851.875	4.18E+08	1.58E-15	2.12E-32	-1.056	289	-177503.109	9.12E+08	2.24E-17	1.87E-33	-0.451
193	-157916.938	3.82E+08	1.61E-15	2.12E-32	-1.026	290	-178146.297	1.11E+09	2.07E-17	1.87E-33	-0.483
194	-158052.750	4.43E+08	1.53E-15	2.12E-32	-1.088	291	-178346.047	1.91E+09	4.01E-17	3.01E-33	-0.700
195	-158063.188	1.05E+09	2.04E-17	1.87E-33	-0.476	292	-178449.172	8.90E+08	2.27E-17	1.87E-33	-0.442
196	-158397.672	4.20E+08	1.52E-15	2.12E-32	-1.080	293	-178792.531	1.16E+09	1.97E-17	1.87E-33	-0.492
197	-158473.328	5.43E+08	1.43E-17	1.26E-33	-0.301	294	-178867.828	2.77E+08	5.44E-16	1.34E-32	-0.932
198	-158476.797	1.40E+09	2.89E-17	2.69E-33	-0.677	295	-179381.469	2.17E+09	3.56E-17	3.09E-33	-0.785
199	-158776.766	2.87E+08	2.04E-17	1.26E-33	-0.226	296	-179610.516	1.03E+09	2.07E-17	1.87E-33	-0.473
200	-158956.641	4.45E+08	1.36E-15	2.12E-32	-1.157	297	-180397.031	5.54E+08	1.42E-17	1.26E-33	-0.303
201	-159207.766	4.31E+08	1.41E-15	2.12E-32	-1.147	298	-180479.906	1.98E+09	4.04E-17	3.09E-33	-0.714
202	-159294.047	4.38E+08	1.39E-15	2.12E-32	-1.156	299	-180596.406	1.22E+09	1.84E-17	1.87E-33	-0.513
203	-159321.297	1.86E+09	3.17E-17	2.92E-33	-0.756	300	-180624.844	2.32E+09	3.80E-17	3.17E-33	-0.788
204	-159513.109	1.06E+09	2.05E-17	1.87E-33	-0.475	301	-182320.453	2.83E+08	2.40E-17	1.26E-33	-0.226
205	-159620.438	5.02E+08	1.48E-17	1.26E-33	-0.289	302	-182488.078	1.90E+09	2.94E-17	2.79E-33	-0.737
206	-159797.984	4.21E+08	1.37E-15	2.12E-32	-1.150	303	-183633.609	2.19E+09	2.99E-17	2.92E-33	-0.790
207	-160009.297	4.84E+08	1.30E-15	2.12E-32	-1.207	304	-183813.500	9.05E+08	2.11E-17	1.87E-33	-0.447
208	-160156.344	1.31E+09	1.82E-17	1.87E-33	-0.526	305	-184029.891	9.28E+08	2.23E-17	1.87E-33	-0.448
209	-160536.531	1.78E+09	2.99E-17	2.82E-33	-0.735	306	-184239.594	9.32E+08	2.19E-17	1.87E-33	-0.453
210	-160565.719	4.55E+08	1.45E-15	2.12E-32	-1.225	307	-184685.656	2.14E+09	2.92E-17	2.85E-33	-0.777
211	-160695.891	1.75E+09	3.03E-17	2.80E-33	-0.719	308	-185887.125	2.06E+09	3.20E-17	2.94E-33	-0.768
212	-160775.438	1.12E+09	1.97E-17	1.87E-33	-0.490	309	-186510.359	1.11E+09	1.91E-17	1.87E-33	-0.497
213	-160796.078	1.11E+09	1.98E-17	1.87E-33	-0.488	310	-186948.594	1.19E+09	1.85E-17	1.87E-33	-0.510
214	-160914.094	3.07E+08	1.93E-17	1.26E-33	-0.235	311	-187251.078	1.16E+09	1.87E-17	1.87E-33	-0.506
215	-161095.125	1.53E+09	3.34E-17	2.84E-33	-0.676	312	-187277.813	4.95E+08	1.58E-17	1.26E-33	-0.282
216	-161238.125	1.97E+09	3.01E-17	2.82E-33	-0.740	313	-188024.250	1.20E+09	1.86E-17	1.87E-33	-0.510
217	-161354.859	1.21E+09	1.89E-17	1.87E-33	-0.508	314	-188216.922	5.78E+08	9.89E-16	2.12E-32	-1.453
218	-161649.094	1.43E+09	3.54E-17	2.84E-33	-0.656	315	-188295.750	6.31E+08	9.62E-16	2.12E-32	-1.494
219	-161728.516	1.08E+09	2.00E-17	1.87E-33	-0.483	316	-188393.484	9.82E+08	2.12E-17	1.87E-33	-0.463
220	-161878.125	1.42E+09	3.48E-17	2.86E-33	-0.673	317	-188772.094	2.23E+09	3.36E-17	2.85E-33	-0.771
221	-162422.125	2.13E+09	3.17E-17	2.99E-33	-0.797	318	-189113.328	8.24E+08	2.31E-17	1.87E-33	-0.434
222	-162490.781	1.10E+09	1.90E-17	1.87E-33	-0.497	319	-190421.984	1.74E+09	3.95E-17	3.01E-33	-0.684
223	-162590.297	1.04E+09	1.93E-17	1.87E-33	-0.488	320	-190453.484	1.24E+09	-2.46E-16	2.50E-32	-0.330
224	-162725.656	1.12E+09	1.88E-17	1.87E-33	-0.501	321	-191073.344	8.47E+08	2.27E-17	1.87E-33	-0.437
225	-163026.188	2.27E+09	3.24E-17	3.09E-33	-0.828	322	-191542.078	2.10E+09	3.39E-17	2.95E-33	-0.748
226	-164089.297	1.08E+09	2.01E-17	1.87E-33	-0.483	323	-191613.547	1.82E+09	3.58E-17	2.93E-33	-0.699
227	-164194.984	2.03E+09	3.27E-17	2.97E-33	-0.772	324	-195038.750	9.34E+08	2.16E-17	1.87E-33	-0.454
228	-164226.672	1.13E+09	1.93E-17	1.87E-33	-0.500	325	-195105.438	1.15E+09	1.91E-17	1.87E-33	-0.500
229	-164381.719	1.86E+09	3.37E-17	2.94E-33	-0.738	326	-195829.953	9.11E+08	2.18E-17	1.87E-33	-0.449
230	-164457.844	1.11E+09	1.99E-17	1.87E-33	-0.487	327	-196360.094	1.21E+09	1.85E-17	1.87E-33	-0.512
231	-164486.594	1.14E+09	1.95E-17	1.87E-33	-0.495	328	-197457.484	1.47E+09	3.56E-17	2.86E-33	-0.652
232	-164522.203	1.13E+09	1.93E-17	1.87E-33	-0.497	329	-198831.875	2.03E+09	4.16E-17	3.10E-33	-0.710
233	-164578.344	1.20E+09	1.90E-17	1.87E-33	-0.506	330	-199540.484	8.20E+08	2.34E-17	1.87E-33	-0.428
234	-164710.125	1.16E+09	1.92E-17	1.87E-33	-0.501	331	-202942.641	9.60E+08	2.17E-17	1.87E-33	-0.456
235	-164791.000	1.22E+09	1.87E-17	1.87E-33	-0.511	332	-203745.438	1.70E+09	3.60E-17	2.85E-33	-0.661
236	-165091.203	1.09E+09	1.97E-17	1.87E-33	-0.490	333	-204231.891	5.61E+08	1.42E-17	1.26E-33	-0.303
237	-165100.734	1.75E+09	3.28E-17	2.91E-33	-0.740	334	-205001.844	2.40E+09	3.14E-17	2.94E-33	-0.783
238	-165311.953	1.12E+09	1.91E-17	1.87E-33	-0.500	335	-205336.781	2.14E+09	3.03E-17	2.84E-33	-0.749
239	-165537.547	4.98E+08	1.55E-17	1.26E-33	-0.285	336	-205508.203	2.26E+09	3.03E-17	2.86E-33	-0.764
240	-165740.891	8.75E+08	2.29E-17	1.87E-33	-0.440	337	-206135.266	2.91E+08	2.01E-17	1.26E-33	-0.227
241	-166054.172	1.04E+09	2.01E-17	1.87E-33	-0.481	338	-209056.453	2.00E+09	3.72E-17	2.92E-33	-0.688
242	-166066.313	4.36E+08	1.40E-15	2.12E-32	-1.149	339	-210293.484	1.23E+09	1.85E-17	1.87E-33	-0.513
243	-166160.063	1.12E+09	1.96E-17	1.87E-33	-0.490	340	-210583.313	7.68E+08	8.27E-16	2.12E-32	-1.681
244	-166536.484	1.08E+09	1.97E-17	1.87E-33	-0.489	341	-210854.813	1.20E+09	1.85E-17	1.87E-33	-0.511
245	-166633.797	1.75E+09	3.26E-17	2.92E-33	-0.738	342	-210948.563	5.05E+08	1.56E-17	1.26E-33	-0.284
246	-167171.531	8.34E+08	2.26E-17	1.87E-33	-0.437	343	-211323.422	2.58E+09	4.11E-17	3.21E-33	-0.778
247	-167387.625	1.53E+09	3.99E-17	2.98E-33	-0.653	344	-211409.938	1.21E+09	1.85E-17	1.87E-33	-0.511
248	-167397.313	8.78E+08	2.25E-17	1.87E-33	-0.444	345	-211591.359	5.52E+08	1.44E-17	1.26E-33	-0.300
249	-167563.359	8.12E+08	2.27E-17	1.87E-33	-0.434	346	-211761.609	2.24E+09	3.78E-17	3.07E-33	-0.751
250	-167841.828	2.15E+09	3.20E-17	3.03E-33	-0.806	347	-212749.563	8.96E+08	2.19E-17	1.87E-33	-0.449
251	-167915.453	1.91E+09	3.89E-17	3.12E-33	-0.735	348	-213419.891	2.94E+08	1.99E-17	1.26E-33	-0.228
252	-168217.563	9.83E+08	2.98E-16	2.50E-32	-0.052	349	-214062.063	2.15E+09	2.90E-17	2.80E-33	-0.751
253	-168245.078	9.									

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
366	-225626.688	9.42E+08	2.15E-17	1.87E-33	-0.454	93	-121325.805	1.64E+09	3.65E-17	3.09E-33	-0.775
367	-226672.875	9.25E+08	2.16E-17	1.87E-33	-0.451	94	-121570.086	3.89E+08	-1.43E-15	2.99E-32	0.926
368	-229088.469	1.36E+09	3.35E-17	2.77E-33	-0.639	95	-122194.273	6.67E+08	-2.57E-15	2.50E-32	0.725
369	-230783.781	1.41E+09	3.29E-17	2.78E-33	-0.647	96	-122285.664	6.75E+08	-1.44E-15	2.50E-32	0.740
						97	-122424.430	5.93E+08	1.49E-17	1.26E-33	-0.304
J = 2.5						98	-123359.898	2.67E+08	8.06E-15	2.12E-32	-0.558
1	667.683	0.00E+00	-7.79E-17	6.19E-33	1.470	99	-123463.555	2.19E+08	6.34E-16	1.34E-32	-0.817
2	2837.950	0.00E+00	-2.00E-17	2.14E-33	0.688	100	-123815.805	2.50E+08	7.39E-15	2.12E-32	-0.562
3	8391.938	0.00E+00	-8.35E-17	6.19E-33	1.456	101	-123877.969	2.01E+08	6.22E-16	1.34E-32	-0.794
4	13474.411	0.00E+00	-2.27E-17	2.20E-33	0.687	102	-124498.969	2.53E+08	9.12E-15	2.12E-32	-0.540
5	20516.961	0.00E+00	-2.13E-17	2.17E-33	0.659	103	-124600.727	2.59E+08	9.13E-15	2.12E-32	-0.557
6	20830.582	0.00E+00	-7.78E-17	6.13E-33	1.442	104	-124657.391	2.62E+08	8.19E-15	2.12E-32	-0.568
7	22939.357	0.00E+00	-7.88E-17	6.19E-33	1.453	105	-124855.398	2.47E+08	6.16E-15	2.12E-32	-0.569
8	23317.633	0.00E+00	-9.17E-17	8.68E-33	2.263	106	-125168.563	2.01E+06	-9.04E-17	8.67E-33	2.250
9	26055.424	0.00E+00	-7.89E-17	6.19E-33	1.452	107	-125200.516	2.52E+08	6.17E-15	2.12E-32	-0.577
10	27620.412	0.00E+00	-7.99E-17	6.05E-33	1.416	108	-125215.000	9.01E+08	3.59E-17	2.84E-33	-0.608
11	31387.947	0.00E+00	-7.90E-17	6.19E-33	1.450	109	-125294.000	2.66E+08	6.53E-15	2.12E-32	-0.593
12	31811.822	0.00E+00	-2.42E-17	2.31E-33	0.687	110	-125782.758	2.71E+08	5.94E-15	2.12E-32	-0.595
13	36252.918	0.00E+00	-8.17E-17	6.18E-33	1.440	111	-125888.375	2.71E+08	6.17E-15	2.12E-32	-0.592
14	38164.195	0.00E+00	-7.88E-17	6.16E-33	1.444	112	-126267.594	2.81E+08	4.44E-15	2.12E-32	-0.640
15	44929.551	2.20E-02	-7.95E-17	6.18E-33	1.442	113	-126350.281	2.47E+08	4.27E-15	2.12E-32	-0.604
16	48039.090	4.21E-01	-2.43E-17	2.20E-33	0.638	114	-126526.984	2.84E+08	3.51E-15	2.12E-32	-0.663
17	50142.785	2.83E+02	-7.95E-17	6.19E-33	1.441	115	-126759.250	2.22E+08	6.17E-16	1.34E-32	-0.823
18	50212.824	3.51E+02	-7.83E-17	6.19E-33	1.451	116	-127050.438	2.57E+08	2.14E-15	2.12E-32	-0.682
19	54275.637	2.94E+04	-9.16E-17	8.68E-33	2.265	117	-128613.672	4.24E+08	-1.38E-15	2.99E-32	0.846
20	54870.527	1.25E+01	-8.33E-17	6.20E-33	1.431	118	-129218.352	4.31E+08	-1.61E-15	2.99E-32	0.838
21	57411.066	1.86E+04	-9.40E-17	8.67E-33	2.258	119	-129515.852	3.69E+08	-1.59E-15	2.99E-32	0.843
22	60445.273	1.23E+05	-7.92E-17	8.68E-33	2.273	120	-129767.516	2.84E+08	3.83E-15	2.12E-32	-0.676
23	-71367.367	2.17E+04	-8.94E-17	8.66E-33	2.256	121	-129769.563	2.88E+08	4.08E-15	2.12E-32	-0.671
24	73395.930	3.63E+05	-8.81E-17	8.68E-33	2.255	122	-129784.672	1.24E+09	1.89E-17	1.87E-33	-0.509
25	-74017.906	5.46E+04	-8.92E-17	8.66E-33	2.255	123	-130223.688	1.33E+09	1.80E-17	1.87E-33	-0.529
26	-76693.695	1.03E+04	-7.88E-17	6.20E-33	1.433	124	-130382.766	7.23E+08	-1.22E-15	2.50E-32	0.553
27	78525.400	3.92E+08	-1.47E-15	2.99E-32	1.034	125	-130504.203	2.73E+08	2.69E-15	2.12E-32	-0.728
28	79885.492	3.09E+08	-1.40E-15	2.99E-32	1.023	126	-130606.680	8.12E+08	2.14E-16	2.50E-32	0.445
29	81639.258	3.18E+05	-8.97E-17	8.68E-33	2.276	127	-130821.023	3.16E+08	2.73E-15	2.12E-32	-0.790
30	83308.195	6.66E+08	-1.14E-15	2.50E-32	1.056	128	-130977.227	2.72E+08	2.48E-15	2.12E-32	-0.746
31	83812.313	6.43E+08	-1.16E-15	2.50E-32	1.022	129	-132398.219	2.32E+08	6.12E-16	1.34E-32	-0.842
32	84326.916	6.06E+08	-1.16E-15	2.50E-32	1.015	130	-132844.938	2.11E+08	9.37E-16	1.34E-32	-0.819
33	84844.834	6.19E+08	-1.30E-15	2.50E-32	0.974	131	-133978.969	2.47E+08	7.18E-15	2.12E-32	-0.559
34	84870.859	4.79E+08	-1.18E-15	2.50E-32	1.008	132	-134554.922	2.55E+08	4.94E-15	2.12E-32	-0.614
35	85679.695	5.24E+08	-1.25E-15	2.50E-32	0.961	133	-136632.297	3.32E+08	2.51E-15	2.12E-32	-0.823
36	85495.305	5.82E+08	-1.30E-15	2.50E-32	0.920	134	-136735.625	3.24E+08	2.49E-15	2.12E-32	-0.818
37	86599.734	5.64E+08	-1.47E-15	2.50E-32	0.885	135	-136863.188	3.35E+08	2.41E-15	2.12E-32	-0.836
38	87985.625	5.58E+08	-2.04E-15	2.50E-32	0.715	136	-137037.359	8.74E+08	-2.99E-15	2.50E-32	0.478
39	-93860.453	6.68E+05	-1.01E-16	8.68E-33	2.262	137	-137294.172	2.82E+08	5.04E-15	2.12E-32	-0.664
40	-97609.109	3.82E+08	-1.37E-15	2.99E-32	1.011	138	-137427.922	9.36E+08	-9.95E-15	2.50E-32	0.416
41	99824.047	3.81E+08	-1.38E-15	2.99E-32	1.008	139	-137483.125	3.13E+08	2.08E-15	2.12E-32	-0.871
42	100749.813	3.29E+08	-1.28E-15	2.99E-32	1.008	140	-137541.656	3.46E+08	2.09E-15	2.12E-32	-0.891
43	102334.109	2.18E+08	6.28E-16	1.34E-32	-0.812	141	-137692.625	5.24E+08	1.43E-17	1.26E-33	-0.299
44	-102769.992	6.09E+08	-1.17E-15	2.50E-32	1.040	142	-137720.547	8.35E+08	-6.68E-15	2.50E-32	0.435
45	102802.313	1.92E+08	6.32E-16	1.34E-32	-0.777	143	-138470.031	8.33E+08	-3.28E-14	2.50E-32	0.374
46	-103130.617	3.81E+08	-1.42E-15	2.99E-32	0.994	144	-138503.406	2.25E+08	6.34E-16	1.34E-32	-0.828
47	-103397.258	5.66E+08	-1.12E-15	2.50E-32	1.045	145	-138649.516	3.25E+08	2.01E-15	2.12E-32	-0.900
48	-104082.398	5.74E+08	-1.13E-15	2.50E-32	1.054	146	-138967.625	7.50E+08	-1.18E-14	2.50E-32	0.381
49	-104140.016	5.91E+08	-1.21E-15	2.50E-32	1.025	147	-139092.094	1.25E+09	2.89E-17	2.66E-33	-0.657
50	104120.273	2.79E+08	1.03E-14	2.12E-32	-0.557	148	-139172.500	8.26E+08	-2.78E-14	2.50E-32	0.301
51	-104220.172	5.91E+08	-1.17E-15	2.50E-32	1.041	149	-139564.688	8.18E+08	1.08E-14	2.50E-32	0.283
52	104426.461	2.75E+08	8.70E-15	2.12E-32	-0.566	150	-139604.922	7.95E+08	3.01E-15	2.50E-32	0.271
53	-104515.938	5.47E+08	-1.14E-15	2.50E-32	1.033	151	-140122.781	2.56E+08	1.88E-17	1.26E-33	-0.219
54	104828.156	2.67E+08	7.54E-15	2.12E-32	-0.575	152	-140148.406	1.71E+09	2.96E-17	2.79E-33	-0.723
55	105127.773	2.36E+08	5.26E-15	2.12E-32	-0.597	153	-140196.703	8.99E+08	3.08E-15	2.50E-32	0.209
56	-105035.766	5.84E+08	-1.23E-15	2.50E-32	0.989	154	-140403.297	9.26E+08	-2.17E-18	2.50E-32	0.190
57	-105102.672	5.85E+08	-1.21E-15	2.50E-32	0.995	155	-140586.109	5.24E+08	1.43E-17	1.26E-33	-0.299
58	105205.789	2.67E+08	6.64E-15	2.12E-32	-0.590	156	-141223.719	8.43E+08	1.25E-15	2.50E-32	0.260
59	-105301.813	6.05E+08	-1.26E-15	2.50E-32	0.996	157	-141476.219	1.54E+09	2.99E-17	2.77E-33	-0.702
60	105414.180	6.15E+08	-1.27E-15	2.50E-32	0.987	158	-142002.969	1.78E+09	2.95E-17	2.84E-33	-0.748
61	105711.727	2.71E+08	4.83E-15	2.12E-32	-0.632	159	-142167.469	2.97E+08	2.99E-15	2.12E-32	-0.745
62	105630.750	2.41E+08	5.12E-15	2.12E-32	-0.597	160	-142277.469	3.02E+08	2.93E-15	2.12E-32	-0.755
63	-106139.383	2.20E+08	2.31E-17	1.26E-33	-0.206	161	-142966.531	2.62E+08	2.10E-17	1.26E-33	-0.220
64	-106177.391	6.29E+08	-1.54E-15	2.50E-32	0.903	162	-143388.297	1.55E+09	2.91E-17	2.74E-33	-0.703
65	-106201.117	5.32E+08	-1.25E-15	2.50E-32	0.983	163	-143734.391	1.15E+09	1.85E-17	1.87E-33	-0.507
66	-106250.039	2.56E+08	3.51E-15	2.12E-32	-0.662	164	-143929.219	5.19E+08	1.45E-17	1.26E-33	-0.296
67	-106524.500	1.30E+09	2.84E-17	2.65E-33	-0.667	165	-143955.234	1.06E+09	1.92E-17	1.87E-33	-0.492
68	-106689.773	6.34E+08	-1.71E-15	2.50E-32	0.850	166	-144021.922	1.13E+09	1.88E-17	1.87E-33	-0.503
69	-106860.031	2.61E+08	2.79E-15	2.12E-32	-0.737	167	-144859.563	1.26E+09	3.57E-17	2.86E-33	-0.654
70	-107564.656	5.45E+08	-1.57E-15	2.50E-32	0.852	168	-145039.141	2.33E+08	6.04E-16	1.34E-32	-0.845
71	-108749.930	3.92E+08	-1.38E-15	2.99E-32	0.954	169	-145355.266	1.43E+09	3.34E-17	2.86E-33	-0.692
72	-109314.117	6.47E+08	-1.45E-15	2.50E-32	0.895	170	-145409.984	1.07E+09	1.92E-17	1.87E-33	-0.492
73	-109430.117	6.20E+08	-1.62E-15	2.50E-32	0.891	171	-145838.359	1.70E+09	3.00E-17	2.81E-33	-0.723
74	109455.250	1.08E+09	1.89E-17	1.87E-33	-0.496	172	-146014.578	1.96E+09	2.97E-17	2.89E-33	-0.774
75	-109738.195	3.35E+08	-1.47E-15	2.99E-32	0.952	173	-146247.500	1.49E+09	2.97E-17	2.74E-33	-0.693
76	-110674.461	5.64E+08	-8.45E-16	2.50E-32	0.828	174	-146343.672	2.60E+08	2.11E-17	1.26E-33	-0.219
77	-111374.359	5.48E+08	-1.11E-15	2.50E-32	0.796	175	-146670.766	1.15E+0			

PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
190	-150008.844	1.03E+09	1.98E-17	1.87E-33	-0.483	287	-165600.219	4.90E+08	1.57E-17	1.26E-33	-0.283
191	-150021.391	1.17E+09	4.05E-17	2.91E-33	-0.606	288	-165771.438	8.53E+08	2.31E-17	1.87E-33	-0.437
192	-150298.016	3.52E+08	1.88E-15	2.12E-32	-0.931	289	-166042.031	1.12E+09	1.97E-17	1.87E-33	-0.490
193	-150318.453	3.61E+08	1.88E-15	2.12E-32	-0.938	290	-166108.938	4.47E+08	1.40E-15	2.12E-32	-1.154
194	-150371.969	1.11E+09	1.89E-17	1.87E-33	-0.499	291	-166224.141	4.40E+08	1.39E-15	2.12E-32	-1.152
195	-150400.422	1.05E+09	1.95E-17	1.87E-33	-0.488	292	-166378.859	1.06E+09	1.99E-17	1.87E-33	-0.485
196	-150821.875	5.28E+08	1.52E-17	1.26E-33	-0.291	293	-166517.250	1.07E+09	1.98E-17	1.87E-33	-0.487
197	-150832.391	1.71E+09	2.65E-17	2.98E-33	-0.747	294	-166538.750	1.72E+09	3.39E-17	2.92E-33	-0.721
198	-151011.031	7.06E+08	2.39E-17	1.87E-33	-0.413	295	-166725.719	1.59E+09	3.65E-17	2.92E-33	-0.679
199	-151333.313	1.76E+09	3.70E-17	3.01E-33	-0.741	296	-166745.078	4.72E+08	1.60E-17	1.26E-33	-0.278
200	-151387.609	6.90E+08	2.43E-17	1.87E-33	-0.407	297	-166861.750	9.73E+08	2.08E-17	1.87E-33	-0.468
201	-151635.016	1.74E+09	3.86E-17	2.98E-33	-0.687	298	-167127.094	1.72E+09	3.89E-17	3.01E-33	-0.690
202	-151715.563	1.85E+09	3.60E-17	3.05E-33	-0.755	299	-167214.266	1.12E+09	6.71E-16	2.50E-32	-0.027
203	-151952.109	1.96E+09	3.70E-17	3.09E-33	-0.756	300	-167234.813	8.89E+08	2.47E-17	1.87E-33	-0.446
204	-151969.625	1.19E+09	1.85E-17	1.87E-33	-0.510	301	-167563.516	8.08E+08	2.27E-17	1.87E-33	-0.433
205	-152257.875	2.55E+08	5.45E-16	1.34E-32	-0.890	302	-167603.797	2.14E+09	3.19E-17	3.02E-33	-0.804
206	-152620.453	2.34E+08	5.78E-16	1.34E-32	-0.867	303	-167696.578	8.94E+08	2.19E-17	1.87E-33	-0.450
207	-152722.984	1.65E+09	3.72E-17	2.98E-33	-0.700	304	-167945.891	8.16E+08	2.27E-17	1.87E-33	-0.434
208	-152854.313	2.58E+08	7.89E-16	1.34E-32	-0.893	305	-168260.656	1.75E+09	3.73E-17	3.00E-33	-0.705
209	-152931.516	9.28E+08	4.10E-17	2.83E-33	-0.561	306	-168518.297	1.13E+09	4.87E-17	2.50E-32	-0.165
210	-153652.547	5.26E+08	1.52E-17	1.26E-33	-0.290	307	-168553.906	5.51E+08	1.42E-17	1.26E-33	-0.302
211	-153660.203	1.91E+09	3.23E-17	3.01E-33	-0.786	308	-168563.469	2.08E+09	3.48E-17	2.98E-33	-0.747
212	-153757.406	7.07E+08	2.42E-17	1.87E-33	-0.411	309	-168777.266	1.81E+09	3.48E-17	2.98E-33	-0.733
213	-153917.000	6.92E+08	2.41E-17	1.87E-33	-0.409	310	-168791.781	7.49E+08	2.34E-17	1.87E-33	-0.420
214	-154160.594	1.58E+09	3.37E-17	2.88E-33	-0.702	311	-169047.938	1.90E+09	3.45E-17	2.98E-33	-0.741
215	-154630.141	6.95E+08	2.46E-17	1.87E-33	-0.408	312	-169195.844	1.13E+09	2.00E-17	1.87E-33	-0.491
216	-154776.438	6.89E+08	2.48E-17	1.87E-33	-0.406	313	-169324.344	1.82E+09	3.48E-17	3.01E-33	-0.744
217	-155400.906	4.38E+08	-1.75E-15	2.99E-32	0.735	314	-169579.172	1.70E+09	3.74E-17	2.98E-33	-0.697
218	-155428.016	1.32E+09	3.81E-17	2.90E-33	-0.637	315	-169642.016	5.28E+08	1.52E-17	1.26E-33	-0.290
219	-155619.594	1.24E+09	3.84E-17	2.91E-33	-0.629	316	-169954.625	5.67E+08	1.44E-17	1.26E-33	-0.300
220	-155660.672	1.49E+09	3.55E-17	2.95E-33	-0.702	317	-169969.172	1.37E+09	3.73E-17	2.89E-33	-0.642
221	-155871.359	1.33E+09	3.75E-17	2.89E-33	-0.640	318	-170448.766	1.13E+09	1.89E-17	1.87E-33	-0.501
222	-155922.828	1.28E+09	3.97E-17	2.92E-33	-0.624	319	-170524.594	1.69E+09	3.74E-17	2.97E-33	-0.686
223	-156339.172	5.28E+08	1.43E-17	1.26E-33	-0.298	320	-170599.734	1.64E+09	3.91E-17	2.99E-33	-0.667
224	-156713.281	1.58E+09	3.53E-17	2.99E-33	-0.732	321	-170637.391	3.39E+08	1.89E-17	1.26E-33	-0.241
225	-157076.234	5.33E+08	1.51E-17	1.26E-33	-0.292	322	-170784.406	2.09E+09	3.15E-17	2.96E-33	-0.784
226	-157123.281	1.30E+09	1.81E-17	1.87E-33	-0.524	323	-171022.734	8.05E+08	2.28E-17	1.87E-33	-0.431
227	-157376.453	6.09E+08	1.40E-17	1.26E-33	-0.311	324	-171436.156	1.11E+09	1.92E-17	1.87E-33	-0.497
228	-157887.094	4.21E+08	1.59E-15	2.12E-32	-1.056	325	-171689.828	2.12E+09	3.53E-17	3.10E-33	-0.774
229	-158062.234	1.07E+09	2.02E-17	1.87E-33	-0.481	326	-172199.484	2.03E+09	2.93E-17	2.85E-33	-0.769
230	-158075.516	1.15E+09	1.95E-17	1.87E-33	-0.495	327	-172326.531	1.05E+09	2.02E-17	1.87E-33	-0.481
231	-158170.281	4.41E+08	1.53E-15	2.12E-32	-1.088	328	-172364.828	9.42E+08	2.13E-17	1.87E-33	-0.459
232	-158189.625	1.19E+09	1.90E-17	1.87E-33	-0.505	329	-172462.859	1.99E+09	3.09E-17	2.91E-33	-0.766
233	-158271.594	5.38E+08	1.44E-17	1.26E-33	-0.299	330	-172651.906	9.97E+08	2.00E-17	1.87E-33	-0.468
234	-158302.047	4.16E+08	1.52E-15	2.12E-32	-1.078	331	-172784.047	1.63E+09	2.09E-17	2.95E-33	-0.696
235	-158557.344	1.40E+09	2.89E-17	2.69E-33	-0.677	332	-172804.984	1.16E+09	1.41E-17	1.87E-33	-0.500
236	-158678.938	4.19E+08	1.49E-15	2.12E-32	-1.095	333	-172928.203	1.87E+09	3.77E-17	3.02E-33	-0.736
237	-158847.844	2.79E+08	2.05E-17	1.26E-33	-0.224	334	-173032.063	9.27E+08	2.12E-17	1.87E-33	-0.457
238	-158990.047	3.97E+08	8.89E-16	2.12E-32	-1.106	335	-173206.906	1.20E+09	1.88E-17	1.87E-33	-0.508
239	-159113.594	4.32E+08	1.34E-15	2.12E-32	-1.150	336	-173420.125	2.29E+09	3.60E-17	3.08E-33	-0.784
240	-159299.797	1.82E+09	3.18E-17	2.91E-33	-0.748	337	-173842.141	1.81E+09	4.31E-17	3.07E-33	-0.719
241	-159376.516	4.43E+08	1.37E-15	2.12E-32	-1.167	338	-174033.859	9.45E+08	2.22E-17	1.87E-33	-0.459
242	-159428.203	4.28E+08	1.47E-15	2.12E-32	-1.171	339	-174113.297	1.85E+09	3.88E-17	3.07E-33	-0.739
243	-159461.922	1.08E+09	2.04E-17	1.87E-33	-0.479	340	-174440.797	8.89E+08	2.18E-17	1.87E-33	-0.447
244	-159722.391	1.54E+09	3.09E-17	2.81E-33	-0.701	341	-174834.734	1.14E+09	1.89E-17	1.87E-33	-0.501
245	-159828.797	4.65E+08	1.53E-17	1.26E-33	-0.279	342	-175109.969	8.03E+08	2.34E-17	1.87E-33	-0.429
246	-159846.719	4.59E+08	1.35E-15	2.12E-32	-1.179	343	-175189.188	1.79E+09	3.91E-17	3.08E-33	-0.722
247	-159853.406	1.31E+09	1.82E-17	1.87E-33	-0.526	344	-175238.422	9.06E+08	2.20E-17	1.87E-33	-0.452
248	-159993.000	4.31E+08	1.35E-15	2.12E-32	-1.172	345	-175423.563	1.20E+09	1.86E-17	1.87E-33	-0.511
249	-160471.281	3.30E+08	1.89E-17	1.26E-33	-0.241	346	-175463.563	4.92E+08	1.61E-17	1.26E-33	-0.282
250	-160590.578	1.75E+09	2.97E-17	2.78E-33	-0.721	347	-175588.688	2.16E+09	3.15E-17	2.99E-33	-0.797
251	-160617.688	4.50E+08	1.46E-15	2.12E-32	-1.215	348	-175958.469	1.06E+09	2.04E-17	1.87E-33	-0.482
252	-160704.266	1.10E+09	1.99E-17	1.87E-33	-0.485	349	-176148.453	1.15E+09	1.92E-17	1.87E-33	-0.498
253	-160766.391	1.13E+09	1.96E-17	1.87E-33	-0.492	350	-176184.719	1.13E+09	1.95E-17	1.87E-33	-0.496
254	-160825.000	1.65E+09	3.07E-17	2.79E-33	-0.706	351	-176204.578	2.22E+09	4.20E-17	3.19E-33	-0.753
255	-161043.969	1.83E+09	3.10E-17	2.81E-33	-0.718	352	-176728.766	1.10E+09	2.00E-17	1.87E-33	-0.485
256	-161044.672	1.27E+09	1.84E-17	1.87E-33	-0.519	353	-176878.406	1.07E+09	2.01E-17	1.87E-33	-0.481
257	-161160.578	1.70E+09	3.17E-17	2.82E-33	-0.705	354	-177026.141	1.09E+09	1.99E-17	1.87E-33	-0.485
258	-161376.469	1.59E+09	3.18E-17	2.84E-33	-0.706	355	-177153.781	1.34E+09	3.49E-17	2.89E-33	-0.662
259	-161725.266	1.47E+09	3.62E-17	2.85E-33	-0.663	356	-177235.859	1.17E+09	1.94E-17	1.87E-33	-0.499
260	-161798.922	3.30E+08	1.88E-17	1.26E-33	-0.240	357	-177861.563	2.02E+09	3.95E-17	3.15E-33	-0.746
261	-161828.094	1.07E+09	2.02E-17	1.87E-33	-0.480	358	-178307.359	7.83E+08	2.36E-17	1.87E-33	-0.424
262	-162447.781	2.13E+09	3.17E-17	3.02E-33	-0.799	359	-178710.891	1.15E+09	1.98E-17	1.87E-33	-0.490
263	-162499.859	1.09E+09	1.90E-17	1.87E-33	-0.496	360	-178867.813	2.77E+08	5.44E-16	1.34E-32	-0.932
264	-162508.156	1.10E+09	1.91E-17	1.87E-33	-0.497	361	-179554.891	1.02E+09	2.08E-17	1.87E-33	-0.470
265	-162592.734	1.11E+09	1.90E-17	1.87E-33	-0.499	362	-179797.406	6.65E+08	2.42E-17	1.87E-33	-0.402
266	-162679.828	1.05E+09	1.93E-17	1.87E-33	-0.490	363	-180157.094	2.02E+09	3.86E-17	3.09E-33	-0.736
267	-162757.875	1.12E+09	1.88E-17	1.87E-33	-0.501	364	-180275.094	2.02E+09	3.70E-17	3.09E-33	-0.751
268	-162785.313	2.09E+09	3.22E-17	3.03E-33	-0.798	365	-180417.406	5.54E+08	1.42E-17	1.26E-33	-0.303
269	-163784.375	2.03E+09	3.29E-17	2.96E-33	-0.769	366	-180603.266	1.21E+09	1.85E-17	1.87E-33	-0.512
270	-163813.172	1.31E+09	1.81E-17	1.87E-33	-0.526	367	-180739.156	1.75E+09	4.00E-17	3.00E-33	-0.667
271	-164115.328	1.									

PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
384	-187614.250	6.03E+08	1.01E-15	2.12E-32	-1.437	38	-102844.148	5.91E+08	-1.16E-15	2.50E-32	1.045
385	-188102.000	1.19E+09	1.87E-17	1.87E-33	-0.508	39	-103008.648	3.81E+08	-1.42E-15	2.99E-32	0.994
386	-188293.375	6.24E+08	9.63E-16	2.12E-32	-1.491	40	-103074.313	5.75E+08	-1.11E-15	2.50E-32	1.040
387	-188388.344	5.55E+08	1.42E-17	1.26E-33	-0.303	41	103094.727	5.00E+08	1.44E-17	1.26E-33	-0.295
388	-188432.719	9.64E+08	2.12E-17	1.87E-33	-0.461	42	-103901.281	5.71E+08	-1.12E-15	2.50E-32	1.056
389	-190445.672	8.44E+08	2.25E-17	1.87E-33	-0.437	43	103983.508	3.36E+08	-1.39E-15	2.99E-32	0.987
390	-190447.391	1.21E+09	-2.19E-16	2.50E-32	-0.317	44	-104013.273	6.00E+08	-1.23E-15	2.50E-32	1.021
391	-190468.188	1.62E+09	3.85E-17	2.92E-33	-0.649	45	104000.813	2.81E+08	9.82E-15	2.12E-32	-0.562
392	-191038.609	2.18E+09	2.99E-17	2.88E-33	-0.775	46	-104070.914	6.10E+08	-1.28E-15	2.50E-32	1.005
393	-191064.375	8.45E+08	2.28E-17	1.87E-33	-0.437	47	104380.938	2.74E+08	8.27E-15	2.12E-32	-0.568
394	-191567.594	1.93E+09	3.49E-17	2.93E-33	-0.719	48	-104415.961	5.61E+08	-1.17E-15	2.50E-32	1.012
395	-191623.406	1.90E+09	3.50E-17	2.92E-33	-0.714	49	104705.422	2.47E+08	6.69E-15	2.12E-32	-0.572
396	-194760.875	9.55E+08	2.12E-17	1.87E-33	-0.460	50	-104859.547	6.11E+08	-1.28E-15	2.50E-32	0.973
397	-194828.031	1.16E+09	1.87E-17	1.87E-33	-0.505	51	104873.227	2.50E+08	6.62E-15	2.12E-32	-0.575
398	-195055.328	9.27E+08	2.16E-17	1.87E-33	-0.453	52	105065.633	2.65E+08	6.69E-15	2.12E-32	-0.588
399	-195084.578	1.15E+09	1.91E-17	1.87E-33	-0.500	53	-105005.250	5.22E+08	-1.22E-15	2.50E-32	0.994
400	-195656.313	2.53E+09	3.28E-17	3.16E-33	-0.863	54	-105182.352	5.93E+08	-1.31E-15	2.50E-32	1.002
401	-196363.359	1.21E+09	1.85E-17	1.87E-33	-0.512	55	105291.008	6.12E+08	-1.26E-15	2.50E-32	0.988
402	-196912.594	8.09E+08	2.31E-17	1.87E-33	-0.431	56	105449.539	2.43E+08	5.06E-15	2.12E-32	-0.603
403	-197494.953	1.52E+09	3.58E-17	2.87E-33	-0.657	57	105589.422	6.20E+08	-1.30E-15	2.50E-32	0.974
404	-198264.453	1.97E+09	4.20E-17	3.05E-33	-0.682	58	-105757.813	5.22E+08	-1.21E-15	2.50E-32	0.994
405	-198649.766	2.00E+09	4.12E-17	3.09E-33	-0.708	59	-106100.938	2.56E+08	3.53E-15	2.12E-32	-0.662
406	-199530.156	8.16E+08	2.35E-17	1.87E-33	-0.427	60	-106667.195	6.39E+08	-1.72E-15	2.50E-32	0.846
407	-202915.344	9.89E+08	2.15E-17	1.87E-33	-0.460	61	106836.000	1.31E+09	2.83E-17	2.65E-33	-0.669
408	-204096.219	9.23E+08	2.18E-17	1.87E-33	-0.450	62	-107013.047	5.68E+08	-1.16E-15	2.50E-32	0.928
409	-204210.156	5.61E+08	1.42E-17	1.26E-33	-0.303	63	-108396.430	3.49E+08	-1.36E-15	2.99E-32	1.016
410	-204976.344	2.59E+09	3.13E-17	2.98E-33	-0.809	64	108804.664	3.90E+08	-1.39E-15	2.99E-32	0.961
411	-205614.781	2.14E+09	3.04E-17	2.85E-33	-0.754	65	-109161.258	6.30E+08	-1.52E-15	2.50E-32	0.887
412	-209080.047	1.96E+09	3.78E-17	2.92E-33	-0.679	66	-109236.820	6.47E+08	-1.47E-15	2.50E-32	0.888
413	-210333.594	1.21E+09	1.86E-17	1.87E-33	-0.511	67	-109377.711	6.50E+08	-1.51E-15	2.50E-32	0.890
414	-210577.234	7.55E+08	8.28E-16	2.12E-32	-1.675	68	109463.219	1.07E+09	1.90E-17	1.87E-33	-0.495
415	-210844.156	1.20E+09	1.85E-17	1.87E-33	-0.510	69	-110494.875	5.85E+08	-6.99E-16	2.50E-32	0.886
416	-211339.641	1.70E+09	4.09E-17	2.87E-33	-0.603	70	-111270.555	5.68E+08	-1.64E-15	2.50E-32	0.768
417	-211463.109	5.60E+08	1.41E-17	1.26E-33	-0.303	71	-111504.758	7.45E+08	-2.14E-15	2.50E-32	0.565
418	-211489.422	1.17E+09	1.87E-17	1.87E-33	-0.507	72	-113790.813	5.46E+08	-1.95E-15	2.50E-32	1.036
419	-212405.969	2.18E+09	3.67E-17	3.03E-33	-0.747	73	-113875.539	5.62E+08	-4.99E-16	2.50E-32	0.983
420	-213369.828	2.90E+08	2.00E-17	1.26E-33	-0.227	74	-113929.094	5.86E+08	2.62E-17	1.87E-33	-0.384
421	-213465.234	8.89E+08	2.20E-17	1.87E-33	-0.446	75	-115635.609	6.12E+08	-8.96E-16	2.50E-32	0.748
422	-214144.891	2.20E+09	2.90E-17	2.80E-33	-0.755	76	-115775.273	1.60E+09	3.16E-17	2.94E-33	-0.751
423	-214451.672	2.28E+09	2.90E-17	2.81E-33	-0.764	77	-116194.375	7.20E+08	-2.25E-15	2.50E-32	0.712
424	-215494.359	7.55E+08	2.37E-17	1.87E-33	-0.417	78	-116351.492	6.88E+08	-1.92E-15	2.50E-32	0.724
425	-217554.203	1.16E+09	1.88E-17	1.87E-33	-0.504	79	-116615.523	7.37E+08	-3.05E-15	2.50E-32	0.671
426	-217565.266	2.41E+09	3.09E-17	2.91E-33	-0.782	80	-117845.750	6.33E+08	-1.97E-15	2.50E-32	0.609
427	-217712.109	1.09E+09	1.93E-17	1.87E-33	-0.492	81	-117943.539	7.84E+08	4.15E-17	2.85E-33	-0.549
428	-217847.594	2.56E+09	2.80E-17	2.82E-33	-0.797	82	-118685.813	7.39E+08	-2.88E-15	2.50E-32	0.511
429	-218265.219	1.06E+09	2.01E-17	1.87E-33	-0.481	83	-121568.391	3.89E+08	-1.43E-15	2.99E-32	0.926
430	-218323.328	5.00E+08	1.57E-17	1.26E-33	-0.282	84	-122193.508	2.16E+08	6.33E-16	1.34E-32	-0.813
431	-218595.344	1.02E+09	2.06E-17	1.87E-33	-0.470	85	-122231.609	7.46E+08	-1.54E-15	2.50E-32	0.601
432	-218808.594	1.13E+09	1.93E-17	1.87E-33	-0.495	86	-122395.000	6.64E+08	-1.67E-15	2.50E-32	0.735
433	-218938.594	1.22E+09	1.86E-17	1.87E-33	-0.511	87	-123308.141	2.18E+08	6.32E-16	1.34E-32	-0.815
434	-219159.563	2.21E+09	3.30E-17	2.96E-33	-0.765	88	-123402.047	2.60E+08	7.89E-15	2.12E-32	-0.556
435	-220458.203	8.46E+08	2.22E-17	1.87E-33	-0.441	89	-123561.867	2.57E+08	4.94E-15	2.12E-32	-0.565
436	-222014.109	8.75E+08	2.25E-17	1.87E-33	-0.439	90	-123627.188	2.03E+08	6.64E-16	1.34E-32	-0.797
437	-222392.688	1.85E+09	3.80E-17	2.88E-33	-0.644	91	-124390.359	2.52E+08	1.25E-14	2.12E-32	-0.546
438	-223033.516	2.18E+09	3.72E-17	2.95E-33	-0.697	92	-124539.227	2.66E+08	1.32E-14	2.12E-32	-0.581
439	-225590.313	9.40E+08	2.14E-17	1.87E-33	-0.455	93	-124560.891	2.66E+08	8.86E-15	2.12E-32	-0.578
440	-226437.063	9.23E+08	2.15E-17	1.87E-33	-0.452	94	-124736.336	2.50E+08	5.47E-15	2.12E-32	-0.585
441	-230611.578	1.40E+09	3.30E-17	2.78E-33	-0.648	95	-125113.688	2.73E+08	5.98E-15	2.12E-32	-0.610
						96	-125138.258	2.39E+08	5.39E-15	2.12E-32	-0.594
						97	-125676.898	2.69E+08	5.94E-15	2.12E-32	-0.592
						98	-125785.820	2.71E+08	6.06E-15	2.12E-32	-0.595
						99	-126019.766	2.69E+08	5.97E-15	2.12E-32	-0.598
						100	-126038.141	2.47E+08	4.74E-15	2.12E-32	-0.601
						101	-126485.695	2.87E+08	3.19E-15	2.12E-32	-0.670
						102	-126633.953	2.21E+08	6.16E-16	1.34E-32	-0.822
						103	-126961.305	2.62E+08	2.83E-15	2.12E-32	-0.651
						104	-127060.117	2.05E+08	5.41E-16	1.34E-32	-0.800
						105	-128648.547	4.24E+08	-1.66E-15	2.99E-32	0.846
						106	-129539.234	3.69E+08	-1.59E-15	2.99E-32	0.843
						107	-129547.711	2.88E+08	3.76E-15	2.12E-32	-0.683
						108	-129666.289	2.90E+08	4.03E-15	2.12E-32	-0.674
						109	-129796.258	1.23E+09	1.90E-17	1.87E-33	-0.507
						110	-129816.961	2.87E+08	4.09E-15	2.12E-32	-0.671
						111	-130040.992	7.14E+08	-2.96E-15	2.50E-32	0.592
						112	-130223.648	1.34E+09	1.80E-17	1.87E-33	-0.530
						113	-130288.688	7.18E+08	-5.98E-16	2.50E-32	0.563
						114	-130520.703	2.78E+08	2.58E-15	2.12E-32	-0.724
						115	-130620.258	3.11E+08	2.96E-15	2.12E-32	-0.775
						116	-130879.508	2.72E+08	2.47E-15	2.12E-32	-0.744
						117	-131855.531	2.10E+08	6.22E-16	1.34E-32	-0.807
						118	-132504.813	2.32E+08	6.06E-16	1.34E-32	-0.843
						119	-134013.406	2.51E+08	6.97E-15	2.12E-32	-0.566
						120	-134130.500	2.49E+08	6.94E-15	2.12E-32	-0.563
						121	-135245.281	2.82E+08	3.61E-15	2.12E-32	-0.711
						122	-135996.172	4.07E+08	-1.58E-15	2.99E-32	0.852
						123	-136647.125	3.30E+08	2.51E-15	2.12E-32	-0.822
						124	-136751.266	3.22E+08	2.49E-15	2.12E-32	-0.817
						125	-136907.188	3.32E+08	2.42E-15	2.12E-32	-0.833
						126	-137141.000	8.64E+08	-3.71E-15	2.50E-32	0.487
						127	-137376.484	8.96E+08	8.06E-16	2.50E-32	0.442
						128	-137516.156	3.11E+08	2.07E-15	2.12E-32	-0.867
						129	-137623.016	9.33E+08	-1.09E-14	2.50E-32	0.414
						130	-137703.109	5.24E+08	1.43E		

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
135	-139298.750	8.04E+08	4.38E-14	2.50E-32	0.311	232	-161613.797	1.40E+09	3.44E-17	2.86E-33	-0.669
136	-139322.891	7.48E+08	-2.26E-15	2.50E-32	0.338	233	-161723.609	2.80E+08	1.98E-17	1.26E-33	-0.227
137	-139764.422	8.23E+08	-1.79E-13	2.50E-32	0.294	234	-161960.719	1.07E+09	2.02E-17	1.87E-33	-0.480
138	-140062.563	1.71E+09	2.97E-17	2.79E-33	-0.723	235	-162498.594	1.09E+09	1.92E-17	1.87E-33	-0.495
139	-140138.453	2.56E+08	2.74E-17	1.26E-33	-0.219	236	-162525.250	1.09E+09	1.90E-17	1.87E-33	-0.496
140	-140380.219	7.85E+08	-3.48E-15	2.50E-32	0.280	237	-162607.031	1.12E+09	1.89E-17	1.87E-33	-0.501
141	-140549.438	5.24E+08	1.43E-17	1.26E-33	-0.299	238	-162716.922	1.98E+09	3.25E-17	2.95E-33	-0.768
142	-141923.469	1.53E+09	2.98E-17	2.76E-33	-0.700	239	-162729.469	1.05E+09	1.92E-17	1.87E-33	-0.490
143	-142034.406	3.11E+08	3.02E-15	2.12E-32	-0.759	240	-162783.359	1.12E+09	1.88E-17	1.87E-33	-0.501
144	-142043.109	1.78E+09	2.95E-17	2.84E-33	-0.747	241	-162949.688	1.15E+09	3.48E-17	2.75E-33	-0.618
145	-142322.313	2.99E+08	2.89E-15	2.12E-32	-0.755	242	-163389.875	1.14E+09	1.91E-17	1.87E-33	-0.500
146	-143552.766	1.60E+09	2.92E-17	2.76E-33	-0.711	243	-163472.625	2.10E+09	3.21E-17	2.95E-33	-0.788
147	-143748.219	1.15E+09	1.86E-17	1.87E-33	-0.507	244	-163748.625	1.31E+09	1.82E-17	1.87E-33	-0.525
148	-143903.578	5.26E+08	1.43E-17	1.26E-33	-0.298	245	-163809.641	5.51E+08	1.41E-17	1.26E-33	-0.303
149	-143948.219	1.13E+09	1.87E-17	1.87E-33	-0.504	246	-163855.656	1.57E+09	4.08E-17	2.97E-33	-0.663
150	-143955.375	1.06E+09	1.92E-17	1.87E-33	-0.492	247	-163967.359	1.25E+09	1.87E-17	1.87E-33	-0.515
151	-144029.859	1.13E+09	1.88E-17	1.87E-33	-0.503	248	-164152.703	1.11E+09	1.97E-17	1.87E-33	-0.489
152	-144825.703	1.19E+09	3.44E-17	2.80E-33	-0.643	249	-164264.563	1.14E+09	1.90E-17	1.87E-33	-0.501
153	-144965.109	1.23E+09	3.54E-17	2.84E-33	-0.649	250	-164378.672	1.18E+09	1.86E-17	1.87E-33	-0.509
154	-145038.500	2.32E+08	6.03E-16	1.34E-32	-0.845	251	-164396.516	1.96E+09	3.19E-17	1.87E-33	-0.774
155	-145230.859	8.05E+08	-4.27E-15	2.50E-32	0.426	252	-164419.422	1.07E+09	2.01E-17	1.87E-33	-0.481
156	-145367.000	1.07E+09	1.92E-17	1.87E-33	-0.492	253	-164610.172	1.54E+09	3.32E-17	2.89E-33	-0.697
157	-145561.125	1.43E+09	3.34E-17	2.87E-33	-0.692	254	-164672.953	1.20E+09	1.85E-17	1.87E-33	-0.510
158	-145968.828	1.62E+09	2.99E-17	2.78E-33	-0.711	255	-164915.594	1.69E+09	3.08E-17	2.84E-33	-0.724
159	-146237.625	2.59E+08	2.11E-17	1.26E-33	-0.219	256	-165067.906	1.00E+09	2.09E-17	1.87E-33	-0.472
160	-146458.672	1.50E+09	2.95E-17	2.74E-33	-0.694	257	-165138.219	5.47E+08	1.43E-17	1.26E-33	-0.302
161	-146567.547	1.11E+09	1.89E-17	1.87E-33	-0.500	258	-165243.188	1.01E+09	2.08E-17	1.87E-33	-0.474
162	-146706.563	1.14E+09	1.86E-17	1.87E-33	-0.505	259	-165486.750	4.00E+08	1.56E-15	2.12E-32	-1.059
163	-146831.188	9.27E+08	7.90E-15	2.50E-32	0.165	260	-165568.172	1.85E+09	3.26E-17	2.93E-33	-0.747
164	-147048.234	7.07E+08	2.47E-17	1.87E-33	-0.410	261	-165583.578	7.04E+08	2.49E-17	1.87E-33	-0.406
165	-147484.594	1.26E+09	3.47E-17	2.82E-33	-0.650	262	-165655.656	9.38E+08	2.15E-17	1.87E-33	-0.459
166	-147706.500	6.46E+08	2.51E-17	1.87E-33	-0.397	263	-165876.953	9.58E+08	2.10E-17	1.87E-33	-0.465
167	-147768.500	1.08E+09	1.92E-17	1.87E-33	-0.494	264	-165924.906	1.14E+09	1.96E-17	1.87E-33	-0.492
168	-147839.891	1.54E+09	3.33E-17	2.92E-33	-0.721	265	-166025.844	1.27E+09	3.72E-17	2.84E-33	-0.627
169	-148085.406	6.80E+08	2.48E-17	1.87E-33	-0.403	266	-166122.047	1.38E+09	3.83E-17	2.88E-33	-0.634
170	-148669.547	6.82E+08	2.42E-17	1.87E-33	-0.408	267	-166186.906	1.12E+09	1.92E-17	1.87E-33	-0.498
171	-148902.984	1.92E+09	2.96E-17	2.81E-33	-0.746	268	-166195.563	4.43E+08	1.40E-15	2.12E-32	-1.148
172	-149648.172	7.40E+08	2.37E-17	1.87E-33	-0.419	269	-166355.469	9.14E+08	2.16E-17	1.87E-33	-0.455
173	-149663.359	1.36E+09	3.91E-17	2.97E-33	-0.656	270	-166521.547	1.05E+09	2.00E-17	1.87E-33	-0.484
174	-149722.219	1.28E+09	4.07E-17	2.94E-33	-0.623	271	-166551.234	4.58E+08	1.64E-17	1.26E-33	-0.274
175	-149914.859	1.04E+09	4.12E-17	2.87E-33	-0.576	272	-166651.594	1.86E+09	3.13E-17	2.91E-33	-0.757
176	-149974.953	1.12E+09	1.89E-17	1.87E-33	-0.500	273	-166718.578	1.33E+09	3.76E-17	2.85E-33	-0.628
177	-150072.016	1.10E+09	4.05E-17	2.88E-33	-0.591	274	-166901.281	1.00E+09	2.04E-17	1.87E-33	-0.475
178	-150137.109	3.41E+08	2.02E-15	2.12E-32	-0.906	275	-167127.125	3.23E+08	1.93E-17	1.26E-33	-0.238
179	-150228.781	1.06E+09	1.93E-17	1.87E-33	-0.491	276	-167205.828	1.10E+09	9.63E-16	2.50E-32	-0.018
180	-150262.516	3.44E+08	1.94E-15	2.12E-32	-0.918	277	-167228.016	2.11E+09	3.19E-17	3.01E-33	-0.798
181	-150331.891	1.07E+09	1.92E-17	1.87E-33	-0.493	278	-167486.422	8.82E+08	2.18E-17	1.87E-33	-0.450
182	-150838.766	5.28E+08	1.52E-17	1.26E-33	-0.290	279	-167496.875	1.55E+09	3.87E-17	2.94E-33	-0.657
183	-150941.500	7.02E+08	2.39E-17	1.87E-33	-0.412	280	-167645.031	7.79E+08	2.32E-17	1.87E-33	-0.426
184	-150957.406	1.89E+09	3.56E-17	3.05E-33	-0.762	281	-167701.172	1.42E+09	3.69E-17	2.88E-33	-0.654
185	-151267.984	6.16E+08	1.37E-17	1.26E-33	-0.314	282	-167863.484	1.04E+09	5.98E-16	2.50E-32	-0.052
186	-151320.344	1.79E+09	4.04E-17	2.97E-33	-0.660	283	-168345.219	8.33E+08	2.23E-17	1.87E-33	-0.441
187	-151856.141	1.94E+09	3.46E-17	3.10E-33	-0.796	284	-168448.828	2.14E+09	3.43E-17	2.98E-33	-0.757
188	-151904.156	1.20E+09	1.85E-17	1.87E-33	-0.511	285	-168592.063	5.53E+08	1.42E-17	1.26E-33	-0.303
189	-152294.047	2.55E+08	5.54E-16	1.34E-32	-0.890	286	-168739.984	1.69E+09	3.53E-17	2.96E-33	-0.712
190	-152641.500	2.34E+08	5.77E-16	1.34E-32	-0.866	287	-168844.313	1.97E+09	3.35E-17	2.97E-33	-0.754
191	-152772.016	1.62E+09	3.65E-17	2.97E-33	-0.699	288	-168994.875	7.48E+08	2.34E-17	1.87E-33	-0.421
192	-153101.609	9.22E+08	4.11E-17	2.83E-33	-0.559	289	-169142.219	1.69E+09	3.48E-17	2.90E-33	-0.698
193	-153732.109	7.12E+08	2.41E-17	1.87E-33	-0.412	290	-169245.516	1.90E+09	3.40E-17	2.94E-33	-0.737
194	-153831.000	1.89E+09	3.22E-17	3.00E-33	-0.782	291	-169494.578	1.66E+09	3.64E-17	2.97E-33	-0.697
195	-153962.922	6.93E+08	2.41E-17	1.87E-33	-0.410	292	-169555.188	5.25E+08	1.53E-17	1.26E-33	-0.289
196	-154821.844	6.19E+08	2.45E-17	1.87E-33	-0.408	293	-169688.328	1.84E+09	3.63E-17	3.01E-33	-0.730
197	-155237.047	1.41E+09	3.70E-17	2.91E-33	-0.656	294	-169746.359	7.79E+08	2.30E-17	1.87E-33	-0.427
198	-155455.484	1.45E+09	3.99E-17	2.94E-33	-0.690	295	-169956.125	5.82E+08	1.44E-17	1.26E-33	-0.304
199	-155760.734	1.14E+09	3.78E-17	2.84E-33	-0.603	296	-170180.438	1.51E+09	3.73E-17	2.92E-33	-0.661
200	-156011.594	1.24E+09	4.09E-17	2.96E-33	-0.621	297	-170311.828	2.18E+09	3.86E-17	3.15E-33	-0.769
201	-156389.203	5.29E+08	1.43E-17	1.26E-33	-0.298	298	-170325.656	9.31E+08	2.20E-17	1.87E-33	-0.451
202	-156956.938	5.31E+08	1.51E-17	1.26E-33	-0.291	299	-170539.859	1.11E+09	1.92E-17	1.87E-33	-0.496
203	-157750.625	1.20E+09	1.92E-17	1.87E-33	-0.509	300	-170581.766	3.12E+08	1.90E-17	1.26E-33	-0.234
204	-157860.859	1.12E+09	1.96E-17	1.87E-33	-0.492	301	-170830.797	2.15E+09	3.11E-17	2.97E-33	-0.797
205	-157968.469	4.15E+08	1.61E-15	2.12E-32	-1.045	302	-171287.719	1.13E+09	1.88E-17	1.87E-33	-0.502
206	-158045.734	4.25E+08	1.58E-15	2.12E-32	-1.064	303	-171379.344	1.13E+09	1.91E-17	1.87E-33	-0.499
207	-158064.813	1.06E+09	2.04E-17	1.87E-33	-0.478	304	-171458.063	1.50E+09	3.94E-17	2.95E-33	-0.653
208	-158069.500	2.02E+09	3.08E-17	2.94E-33	-0.784	305	-171718.188	1.22E+09	1.85E-17	1.87E-33	-0.513
209	-158117.250	1.13E+09	1.97E-17	1.87E-33	-0.492	306	-172081.078	4.99E+08	1.56E-17	1.26E-33	-0.284
210	-158152.797	5.38E+08	1.44E-17	1.26E-33	-0.300	307	-172226.094	1.99E+09	2.98E-17	2.86E-33	-0.762
211	-158188.922	1.23E+09	1.87E-17	1.87E-33	-0.512	308	-172316.844	1.08E+09	1.98E-17	1.87E-33	-0.487
212	-158320.141	4.40E+08	1.52E-15	2.12E-32	-1.089	309	-172373.906	1.05E+09	1.99E-17	1.87E-33	-0.484
213	-158675.703	1.40E+09	2.88E-17	2.68E-33	-0.677	310	-172495.547	8.85E+08	2.22E-17	1.87E-33	-0.446
214	-158705.813	4.17E+08	1.49E-15	2.12E-32	-1.094	311	-172514.359	1.93E+09	3.30E-17	2.94E-33	-0.747
215	-158898.734	2.69E+08	2.09E-17	1.26E-33	-0.221	312	-172747.813	2.03E+09	3.34E		

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F			
329	-175996.172	1.83E+09	3.24E-17	2.90E-33	-0.737	20	84527.781	6.13E+08	-1.28E-15	2.50E-32	0.978	
330	-176092.188	1.04E+09	2.04E-17	1.87E-33	-0.477	21	85184.734	5.29E+08	-1.27E-15	2.50E-32	0.955	
331	-176178.328	1.17E+09	1.89E-17	1.87E-33	-0.504	22	86124.305	5.69E+08	-1.44E-15	2.50E-32	0.887	
332	-176697.422	1.07E+09	2.03E-17	1.87E-33	-0.480	23	98445.398	3.76E+08	-1.39E-15	2.99E-32	1.019	
333	-176907.129	1.03E+09	2.06E-17	1.87E-33	-0.472	24	99332.102	3.44E+08	-1.47E-15	2.99E-32	1.016	
334	-176941.105	1.09E+09	1.99E-17	1.87E-33	-0.486	25	99573.227	3.66E+08	-1.51E-15	2.99E-32	1.012	
335	-176990.031	1.06E+09	2.03E-17	1.87E-33	-0.479	26	101698.492	2.20E+08	6.28E-16	1.34E-32	-0.815	
336	-177132.000	1.34E+09	3.48E-17	2.89E-33	-0.662	27	-101750.992	9.89E+05	-8.65E-17	6.88E-33	2.263	
337	-177227.609	1.17E+09	1.94E-17	1.87E-33	-0.499	28	102842.117	3.80E+08	-1.43E-15	2.99E-32	0.987	
338	-178116.125	2.03E+09	3.95E-17	3.15E-33	-0.746	29	-102906.914	5.71E+08	-1.09E-15	2.50E-32	1.053	
339	-178619.156	1.14E+09	1.98E-17	1.87E-33	-0.489	30	103608.906	3.39E+08	-1.36E-15	2.99E-32	0.988	
340	-178730.016	1.13E+09	1.98E-17	1.87E-33	-0.490	31	-103880.969	6.01E+08	-1.23E-15	2.50E-32	1.020	
341	-179308.094	1.70E+09	3.80E-17	3.00E-33	-0.692	32	103950.594	2.81E+08	8.99E-15	2.12E-32	-0.566	
342	-179774.625	8.20E+08	2.28E-17	1.87E-33	-0.431	33	-103965.336	6.12E+08	-1.28E-15	2.50E-32	1.003	
343	-179849.734	6.65E+08	2.43E-17	1.87E-33	-0.402	34	-104145.680	6.28E+08	-1.25E-15	2.50E-32	0.988	
344	-180124.688	1.54E+09	3.69E-17	2.92E-33	-0.658	35	104411.688	2.77E+08	8.03E-15	2.12E-32	-0.571	
345	-180455.953	5.54E+08	1.42E-17	1.26E-33	-0.303	36	-104632.133	6.08E+08	-1.30E-15	2.50E-32	0.967	
346	-180606.406	1.18E+09	1.87E-17	1.87E-33	-0.507	37	-104803.664	5.24E+08	-1.22E-15	2.50E-32	0.996	
347	-180755.656	1.08E+09	2.03E-17	1.87E-33	-0.477	38	104868.500	2.63E+08	6.63E-15	2.12E-32	-0.588	
348	-181342.156	1.11E+09	2.00E-17	1.87E-33	-0.485	39	105155.094	6.11E+08	-1.23E-15	2.50E-32	0.990	
349	-181492.625	1.54E+09	3.73E-17	2.97E-33	-0.670	40	105211.141	2.45E+08	5.04E-15	2.12E-32	-0.607	
350	-181533.125	1.12E+09	1.95E-17	1.87E-33	-0.486	41	105524.461	6.15E+08	-1.29E-15	2.50E-32	0.971	
351	-182732.172	9.96E+08	2.07E-17	1.87E-33	-0.470	42	-105843.164	2.57E+08	3.42E-15	2.12E-32	-0.666	
352	-182859.797	1.92E+09	2.93E-17	2.80E-33	-0.739	43	-106073.633	5.47E+08	-1.24E-15	2.50E-32	0.963	
353	-183416.234	1.01E+09	2.08E-17	1.87E-33	-0.469	44	-106215.125	5.65E+08	-1.42E-15	2.50E-32	0.916	
354	-183752.938	1.33E+09	3.68E-17	2.85E-33	-0.637	45	-106666.063	6.38E+08	-1.83E-15	2.50E-32	0.835	
355	-183934.250	2.12E+09	3.03E-17	2.90E-33	-0.779	46	-107101.578	5.58E+08	-1.40E-15	2.50E-32	0.904	
356	-186585.359	1.74E+09	3.30E-17	2.87E-33	-0.716	47	107219.500	1.32E+09	2.82E-17	2.65E-33	-0.671	
357	-186798.844	1.18E+09	1.85E-17	1.87E-33	-0.509	48	-108393.992	3.51E+08	-1.41E-15	2.99E-32	1.016	
358	-186974.672	1.17E+09	1.86E-17	1.87E-33	-0.508	49	-109091.688	6.51E+08	-1.33E-15	2.50E-32	0.885	
359	-187282.000	1.15E+09	1.88E-17	1.87E-33	-0.503	50	-109257.727	6.48E+08	-1.51E-15	2.50E-32	0.893	
360	-187607.938	5.95E+08	1.01E-15	2.12E-32	-1.433	51	109473.648	1.06E+09	1.90E-17	1.87E-33	-0.494	
361	-188015.406	5.92E+08	9.96E-16	2.12E-32	-1.451	52	-109533.172	6.56E+08	-1.38E-15	2.50E-32	0.869	
362	-188382.109	5.55E+08	1.42E-17	1.26E-33	-0.303	53	-110293.781	5.91E+08	-1.64E-15	2.50E-32	0.866	
363	-189075.609	9.18E+08	3.78E-17	2.72E-33	-0.550	54	-110630.445	5.92E+08	-1.73E-15	2.50E-32	0.874	
364	-189839.797	8.31E+08	2.24E-17	1.87E-33	-0.438	55	-111102.398	7.72E+08	2.93E-16	2.50E-32	0.540	
365	-189989.031	1.78E+09	2.94E-17	2.77E-33	-0.718	56	-113270.070	5.59E+08	-1.31E-15	2.50E-32	1.052	
366	-190301.734	2.87E+08	2.01E-17	1.26E-33	-0.227	57	-113764.727	5.52E+08	-1.43E-15	2.50E-32	1.031	
367	-190455.188	8.48E+08	2.24E-17	1.87E-33	-0.438	58	-113928.219	5.90E+08	2.61E-17	1.87E-33	-0.385	
368	-190636.703	1.65E+09	3.80E-17	2.92E-33	-0.657	59	-115475.344	6.15E+08	-7.68E-16	2.50E-32	0.759	
369	-190960.141	2.21E+09	3.00E-17	2.89E-33	-0.780	60	-116237.820	7.12E+08	-2.22E-15	2.50E-32	0.716	
370	-191582.172	2.39E+09	3.03E-17	2.94E-33	-0.804	61	-116653.023	7.25E+08	-3.28E-15	2.50E-32	0.678	
371	-194569.172	9.28E+08	2.13E-17	1.87E-33	-0.455	62	-117361.805	6.68E+08	-1.61E-15	2.50E-32	0.539	
372	-194768.734	9.27E+08	2.14E-17	1.87E-33	-0.456	63	-117903.008	7.62E+08	4.18E-17	2.85E-33	-0.544	
373	-194820.828	1.16E+09	1.87E-17	1.87E-33	-0.505	64	-118995.570	7.53E+08	-3.59E-15	2.50E-32	0.461	
374	-194919.016	1.18E+09	1.85E-17	1.87E-33	-0.510	65	-121914.344	7.21E+08	-1.40E-15	2.50E-32	0.664	
375	-195053.406	1.17E+09	1.89E-17	1.87E-33	-0.504	66	-122086.602	2.16E+08	6.33E-16	1.34E-32	-0.812	
376	-195186.891	2.49E+09	3.31E-17	3.15E-33	-0.854	67	-122497.234	1.99E+08	6.25E-16	1.34E-32	-0.789	
377	-195244.484	4.94E+08	1.58E-17	1.26E-33	-0.282	68	-123178.969	2.20E+08	6.34E-16	1.34E-32	-0.817	
378	-196237.063	2.46E+09	3.24E-17	3.08E-33	-0.832	69	-123464.563	2.52E+08	8.07E-15	2.12E-32	-0.555	
379	-196364.547	1.22E+09	1.85E-17	1.87E-33	-0.512	70	-124410.070	2.67E+08	7.10E-15	2.12E-32	-0.585	
380	-196906.969	8.08E+08	2.31E-17	1.87E-33	-0.430	71	-124476.117	2.67E+08	6.75E-15	2.12E-32	-0.580	
381	-197680.563	1.83E+09	4.10E-17	2.96E-33	-0.646	72	-124620.523	2.70E+08	6.63E-15	2.12E-32	-0.588	
382	-198357.984	2.01E+09	4.12E-17	3.06E-33	-0.697	73	-124878.594	2.63E+08	5.71E-15	2.12E-32	-0.612	
383	-200202.438	7.94E+08	2.31E-17	1.87E-33	-0.426	74	-124996.836	2.55E+08	5.54E-15	2.12E-32	-0.602	
384	-202777.766	1.07E+09	2.02E-17	1.87E-33	-0.479	75	-125671.992	2.71E+08	6.01E-15	2.12E-32	-0.597	
385	-203992.516	1.49E+09	3.65E-17	2.89E-33	-0.651	76	-125931.063	2.69E+08	5.77E-15	2.12E-32	-0.603	
386	-204101.984	9.28E+08	2.18E-17	1.87E-33	-0.451	77	-126072.461	2.61E+08	3.31E-15	2.12E-32	-0.656	
387	-205902.797	2.06E+09	3.00E-17	2.83E-33	-0.744	78	-126277.625	2.50E+08	4.78E-15	2.12E-32	-0.613	
388	-210387.750	1.20E+09	1.87E-17	1.87E-33	-0.508	79	-126378.594	2.18E+08	6.09E-16	1.34E-32	-0.818	
389	-210831.984	1.19E+09	1.86E-17	1.87E-33	-0.509	80	-126406.914	2.88E+08	2.83E-15	2.12E-32	-0.680	
390	-211221.344	1.69E+09	4.11E-17	2.86E-33	-0.596	81	-126757.664	2.09E+08	5.84E-16	1.34E-32	-0.806	
391	-211442.750	5.60E+08	1.41E-17	1.26E-33	-0.303	82	-126872.406	2.61E+08	1.42E-15	2.12E-32	-0.664	
392	-213442.469	8.76E+08	2.21E-17	1.87E-33	-0.444	83	-128622.313	4.24E+08	-1.66E-15	2.99E-32	0.845	
393	-214282.219	2.27E+09	2.89E-17	2.81E-33	-0.761	84	-129252.945	7.88E+08	-2.25E-15	2.50E-32	0.612	
394	-214563.172	2.21E+09	2.89E-17	2.80E-33	-0.758	85	-129529.484	2.91E+08	3.97E-15	2.12E-32	-0.679	
395	-217581.125	1.17E+09	1.87E-17	1.87E-33	-0.506	86	-129712.008	2.87E+08	4.07E-15	2.12E-32	-0.672	
396	-217716.453	1.11E+09	1.90E-17	1.87E-33	-0.497	87	-129815.289	1.21E+09	1.91E-17	1.87E-33	-0.505	
397	-218038.563	2.46E+09	3.05E-17	2.91E-33	-0.790	88	-129903.305	2.87E+08	4.02E-15	2.12E-32	-0.680	
398	-218539.531	1.01E+09	2.05E-17	1.87E-33	-0.472	89	-130041.680	6.99E+08	-2.14E-15	2.50E-32	0.599	
399	-218786.563	1.11E+09	1.95E-17	1.87E-33	-0.491	90	-130295.445	2.83E+08	2.78E-15	2.12E-32	-0.731	
400	-220425.453	8.41E+08	2.23E-17	1.87E-33	-0.439	91	-130379.203	3.13E+08	2.81E-15	2.12E-32	-0.776	
401	-221363.281	1.17E+09	3.83E-17	2.75E-33	-0.562	92	-130634.289	2.74E+08	2.58E-15	2.12E-32	-0.708	
402	-221480.625	8.17E+08	2.27E-17	1.87E-33	-0.431	93	-131854.641	2.11E+08	6.24E-16	1.34E-32	-0.807	
403	-222833.734	1.62E+09	3.78E-17	2.83E-33	-0.614	94	-133702.734	2.49E+08	8.78E-15	2.12E-32	-0.543	
404	-225423.813	9.66E+08	2.10E-17	1.87E-33	-0.462	95	-134090.422	2.50E+08	7.03E-15	2.12E-32	-0.565	
405	-226458.953	8.95E+08	2.17E-17	1.87E-33	-0.447	96	-135142.469	2.83E+08	3.83E-15	2.12E-32	-0.699	
						97	-135944.016	2.88E+08	3.03E-15	2.12E-32	-0.756	
						98	-135994.391	4.07E+08	-1.50E-15	2.99E-32	0.851	
J= 4.5	1	0.000	0.00E+00	-7.79E-17	6.19E-33	1.469	99	-136682.469	3.27E+08	2.51E-15	2.12E-32	-0.820
	2	1872.567	0.00E+00	-2.00E-17	2.14E-33	0.687	100	-136940.063	3.29E+08	2.43E-15	2.12E-32	-0.832
	3	15844.650	0.00E+00	-2.03E-17	2.14E-33	0.667	101	-137418.188	8.88E+08	2.07E-15	2.50E-32	0.445
	4	20805.770	0.00E+00	-2.09E-17								

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
117	-143951.313	1.07E+09	1.92E-17	1.87E-33	-0.492	214	-166504.797	9.37E+08	2.13E-17	1.87E-33	-0.460
118	-143963.969	1.12E+09	1.87E-17	1.87E-33	-0.503	215	-166666.859	1.61E+09	3.37E-17	2.88E-33	-0.701
119	-144037.234	1.13E+09	1.88E-17	1.87E-33	-0.502	216	-166708.469	1.62E+09	3.44E-17	2.90E-33	-0.700
120	-144808.422	1.15E+09	3.44E-17	2.79E-33	-0.634	217	-166887.266	1.02E+09	2.02E-17	1.87E-33	-0.477
121	-145118.234	1.29E+09	3.53E-17	2.86E-33	-0.660	218	-167083.875	2.96E+08	1.99E-17	1.26E-33	-0.231
122	-145231.469	8.01E+08	-4.10E-15	2.50E-32	0.428	219	-167467.453	1.47E+09	3.78E-17	2.91E-33	-0.657
123	-145314.109	1.08E+09	1.92E-17	1.87E-33	-0.493	220	-167610.797	7.48E+08	2.35E-17	1.87E-33	-0.420
124	-145710.984	1.46E+09	3.32E-17	2.87E-33	-0.696	221	-167865.266	1.02E+09	6.67E-16	2.50E-32	-0.041
125	-145797.328	8.47E+08	-4.19E-14	2.50E-32	0.336	222	-167943.344	7.37E+08	2.32E-17	1.87E-33	-0.422
126	-146084.828	1.57E+09	3.00E-17	2.77E-33	-0.702	223	-168126.531	2.34E+09	3.27E-17	3.03E-33	-0.806
127	-146641.156	1.52E+09	2.92E-17	2.73E-33	-0.697	224	-168265.172	1.37E+09	3.80E-17	2.90E-33	-0.639
128	-146752.484	1.13E+09	1.87E-17	1.87E-33	-0.503	225	-168539.891	5.49E+08	1.43E-17	1.26E-33	-0.301
129	-146826.703	6.85E+08	2.39E-17	1.87E-33	-0.411	226	-168547.422	9.09E+08	2.15E-17	1.87E-33	-0.455
130	-147564.734	6.89E+08	3.99E-17	2.74E-33	-0.522	227	-168798.234	1.95E+09	3.31E-17	2.95E-33	-0.753
131	-147726.000	6.40E+08	2.52E-17	1.87E-33	-0.396	228	-169088.719	1.38E+09	3.86E-17	2.91E-33	-0.636
132	-147775.984	1.45E+09	3.40E-17	2.90E-33	-0.701	229	-169162.844	1.64E+09	3.49E-17	2.88E-33	-0.686
133	-147882.797	1.05E+09	1.96E-17	1.87E-33	-0.487	230	-169420.922	1.90E+09	3.45E-17	2.95E-33	-0.733
134	-148115.719	7.20E+08	2.43E-17	1.87E-33	-0.412	231	-169484.109	1.23E+09	1.82E-17	1.87E-33	-0.517
135	-148684.328	6.84E+08	2.41E-17	1.87E-33	-0.408	232	-169578.797	5.35E+08	1.51E-17	1.26E-33	-0.292
136	-149672.531	3.56E+08	2.12E-15	2.12E-32	-0.893	233	-169988.797	8.30E+08	2.25E-17	1.87E-33	-0.436
137	-149737.078	1.38E+09	3.87E-17	2.97E-33	-0.664	234	-170061.453	1.32E+09	3.73E-17	2.87E-33	-0.631
138	-149943.469	1.17E+09	4.10E-17	2.92E-33	-0.602	235	-170303.719	2.12E+09	3.83E-17	3.13E-33	-0.763
139	-150026.906	1.12E+09	1.89E-17	1.87E-33	-0.501	236	-170349.656	9.46E+08	2.19E-17	1.87E-33	-0.454
140	-150135.219	3.36E+08	2.02E-15	2.12E-32	-0.903	237	-170602.844	1.09E+09	1.94E-17	1.87E-33	-0.492
141	-150225.563	1.00E+09	4.02E-17	2.83E-33	-0.569	238	-170623.516	1.53E+09	4.01E-17	2.97E-33	-0.652
142	-150241.969	1.07E+09	1.92E-17	1.87E-33	-0.494	239	-170851.328	4.89E+08	1.57E-17	1.26E-33	-0.283
143	-150638.844	1.65E+09	3.32E-17	2.98E-33	-0.751	240	-171203.672	1.08E+09	1.96E-17	1.87E-33	-0.489
144	-150850.828	6.95E+08	2.40E-17	1.87E-33	-0.411	241	-171305.172	9.61E+08	2.12E-17	1.87E-33	-0.462
145	-150852.484	5.28E+08	1.52E-17	1.26E-33	-0.290	242	-171331.969	1.49E+09	4.01E-17	2.95E-33	-0.644
146	-150943.563	1.95E+09	3.60E-17	3.07E-33	-0.759	243	-171526.906	1.15E+09	1.87E-17	1.87E-33	-0.505
147	-151287.797	6.17E+08	1.37E-17	1.26E-33	-0.314	244	-171762.219	1.19E+09	1.88E-17	1.87E-33	-0.507
148	-151814.578	1.19E+09	1.85E-17	1.87E-33	-0.511	245	-171902.125	1.91E+09	3.75E-17	3.06E-33	-0.735
149	-152271.438	2.55E+08	5.61E-16	1.34E-32	-0.891	246	-172094.000	4.85E+08	1.59E-17	1.26E-33	-0.281
150	-152977.672	1.62E+09	3.65E-17	2.96E-33	-0.702	247	-172315.891	1.16E+09	1.88E-17	1.87E-33	-0.505
151	-153233.906	8.95E+08	4.11E-17	2.82E-33	-0.554	248	-172347.266	1.99E+09	2.92E-17	2.84E-33	-0.762
152	-153704.453	7.14E+08	2.41E-17	1.87E-33	-0.413	249	-172489.938	9.60E+08	2.09E-17	1.87E-33	-0.464
153	-153985.547	6.98E+08	2.40E-17	1.87E-33	-0.411	250	-172612.313	8.60E+08	2.19E-17	1.87E-33	-0.446
154	-155024.266	1.30E+09	3.92E-17	2.86E-33	-0.605	251	-172681.172	1.18E+09	1.90E-17	1.87E-33	-0.504
155	-155452.625	5.48E+08	1.41E-17	1.26E-33	-0.303	252	-172808.344	1.99E+09	3.05E-17	2.90E-33	-0.772
156	-155636.828	1.06E+09	3.76E-17	2.83E-33	-0.595	253	-172915.266	2.15E+09	3.74E-17	3.16E-33	-0.787
157	-156437.750	5.29E+08	1.43E-17	1.26E-33	-0.299	254	-173216.859	1.17E+09	1.90E-17	1.87E-33	-0.504
158	-157803.422	1.21E+09	1.89E-17	1.87E-33	-0.510	255	-173587.750	8.76E+08	2.18E-17	1.87E-33	-0.447
159	-157851.063	1.99E+09	3.08E-17	2.94E-33	-0.781	256	-174033.953	8.66E+08	2.17E-17	1.87E-33	-0.447
160	-157875.672	1.11E+09	1.96E-17	1.87E-33	-0.491	257	-174128.344	2.16E+09	3.48E-17	3.04E-33	-0.777
161	-158040.688	1.09E+09	1.98E-17	1.87E-33	-0.486	258	-174168.875	8.15E+08	2.25E-17	1.87E-33	-0.435
162	-158064.641	1.06E+09	2.04E-17	1.87E-33	-0.477	259	-174530.313	8.90E+08	2.19E-17	1.87E-33	-0.449
163	-158079.625	4.21E+08	1.59E-15	2.12E-32	-1.062	260	-174708.281	2.09E+09	3.68E-17	3.05E-33	-0.750
164	-158143.578	1.09E+09	2.00E-17	1.87E-33	-0.484	261	-174839.109	1.14E+09	1.89E-17	1.87E-33	-0.501
165	-158515.109	4.34E+08	1.53E-15	2.12E-32	-1.083	262	-175178.719	1.17E+09	1.87E-17	1.87E-33	-0.507
166	-158698.063	1.26E+09	1.76E-17	1.87E-33	-0.519	263	-175465.734	1.18E+09	1.88E-17	1.87E-33	-0.507
167	-158705.734	1.92E+09	3.01E-17	2.91E-33	-0.772	264	-175977.547	1.06E+09	2.04E-17	1.87E-33	-0.478
168	-158727.078	4.15E+08	1.49E-15	2.12E-32	-1.094	265	-176024.953	1.70E+09	3.35E-17	2.89E-33	-0.712
169	-158824.422	1.41E+09	2.87E-17	2.68E-33	-0.678	266	-176145.844	1.21E+09	1.87E-17	1.87E-33	-0.510
170	-158852.266	2.60E+08	2.09E-17	1.26E-33	-0.219	267	-176535.531	1.16E+09	3.95E-17	2.84E-33	-0.582
171	-158984.703	4.13E+08	1.31E-15	2.12E-32	-1.122	268	-176735.891	1.07E+09	2.02E-17	1.87E-33	-0.480
172	-159166.094	3.94E+08	2.18E-15	2.12E-32	-1.115	269	-176860.688	1.08E+09	1.99E-17	1.87E-33	-0.485
173	-159460.672	2.47E+08	6.50E-16	1.34E-32	-0.879	270	-176889.188	1.07E+09	2.01E-17	1.87E-33	-0.481
174	-159654.094	4.27E+08	1.39E-15	2.12E-32	-1.140	271	-177148.844	1.35E+09	3.48E-17	2.89E-33	-0.665
175	-159711.656	5.47E+08	1.38E-17	1.26E-33	-0.302	272	-177191.516	1.06E+09	2.06E-17	1.87E-33	-0.476
176	-160439.500	1.72E+09	3.11E-17	2.84E-33	-0.728	273	-177515.547	8.51E+08	2.21E-17	1.87E-33	-0.443
177	-160639.313	1.99E+09	3.03E-17	2.82E-33	-0.744	274	-178741.453	1.05E+09	2.04E-17	1.87E-33	-0.477
178	-160711.109	1.69E+09	3.42E-17	2.88E-33	-0.714	275	-179072.984	9.10E+08	2.15E-17	1.87E-33	-0.452
179	-160863.953	1.07E+09	2.00E-17	1.87E-33	-0.483	276	-179399.156	1.86E+09	3.72E-17	3.02E-33	-0.717
180	-160887.578	1.85E+09	2.91E-17	2.78E-33	-0.734	277	-179576.281	8.78E+08	2.21E-17	1.87E-33	-0.443
181	-161372.016	1.13E+09	1.87E-17	1.87E-33	-0.504	278	-179922.938	9.40E+08	2.15E-17	1.87E-33	-0.454
182	-161541.516	1.69E+09	3.11E-17	2.85E-33	-0.726	279	-181095.047	1.04E+09	2.05E-17	1.87E-33	-0.471
183	-162477.453	1.10E+09	1.92E-17	1.87E-33	-0.495	280	-181499.172	1.39E+09	3.68E-17	2.93E-33	-0.653
184	-162522.984	2.09E+09	3.15E-17	2.96E-33	-0.788	281	-182277.719	1.17E+09	3.54E-17	2.83E-33	-0.626
185	-162558.969	1.09E+09	1.90E-17	1.87E-33	-0.496	282	-182704.031	9.68E+08	2.08E-17	1.87E-33	-0.465
186	-162632.641	1.12E+09	1.88E-17	1.87E-33	-0.501	283	-183031.516	9.38E+08	2.12E-17	1.87E-33	-0.458
187	-162796.188	1.12E+09	1.88E-17	1.87E-33	-0.501	284	-183208.422	1.91E+09	2.92E-17	2.79E-33	-0.738
188	-163229.313	1.13E+09	3.53E-17	2.75E-33	-0.610	285	-186822.984	1.17E+09	1.86E-17	1.87E-33	-0.507
189	-163417.016	1.14E+09	1.91E-17	1.87E-33	-0.501	286	-186998.406	1.16E+09	1.87E-17	1.87E-33	-0.506
190	-163817.781	5.48E+08	1.41E-17	1.26E-33	-0.302	287	-188013.297	5.82E+08	9.97E-16	2.12E-32	-1.446
191	-163865.031	1.22E+09	1.89E-17	1.87E-33	-0.510	288	-188373.953	5.55E+08	1.42E-17	1.26E-33	-0.303
192	-163938.609	1.61E+09	4.08E-17	2.98E-33	-0.670	289	-189138.594	9.00E+08	3.78E-17	2.72E-33	-0.547
193	-163961.375	8.13E+08	2.30E-17	1.87E-33	-0.434	290	-189854.422	8.36E+08	2.23E-17	1.87E-33	-0.440
194	-164177.047	1.09E+09	1.98E-17	1.87E-33	-0.487	291	-190136.719	1.81E+09	2.93E-17	2.77E-33	-0.722
195	-164219.156	1.05E+09	2.02E-17	1.87E-33	-0.479	292	-190288.500	2.86E+08	2.01E-17	1.26E-33	-0.227
196	-164328.922	1.85E+09	3.23E-17	2.94E-33	-0.752	293	-190921.813	2.23E+09	3.01E-17	2.90E-33	-0.783
197	-164358.094	1.16E+09	1.88E-17	1.87E-33	-0.505	294	-191501.188	2.34E+09	3.02E-17	2.93E-33	-0.799
198	-164579.875										

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F	
311	-214718.594	2.13E+09	2.88E-17	2.79E-33	-0.751	91	-150854.344	5.28E+08	1.52E-17	1.26E-33	-0.291	
312	-217598.969	1.17E+09	1.86E-17	1.87E-33	-0.507	92	-153251.984	8.45E+08	4.11E-17	2.80E-33	-0.545	
313	-218718.953	1.16E+09	1.87E-17	1.87E-33	-0.506	93	-153892.250	6.93E+08	2.40E-17	1.87E-33	-0.410	
314	-221287.781	1.17E+09	3.83E-17	2.75E-33	-0.562	94	-155461.500	5.49E+08	1.41E-17	1.26E-33	-0.303	
315	-221438.031	8.11E+08	2.27E-17	1.87E-33	-0.431	95	-155465.250	1.02E+09	3.74E-17	2.83E-33	-0.595	
316	-225427.234	9.45E+08	2.11E-17	1.87E-33	-0.459	96	-155908.625	1.37E+09	2.95E-17	2.72E-33	-0.681	
						97	-156420.703	5.28E+08	1.43E-17	1.26E-33	-0.299	
J= 5.5	1	20340.301	0.00E+00	-2.09E-17	2.16E-33	0.670	98	-156922.547	1.30E+09	1.79E-17	1.87E-33	-0.527
	2	21430.359	0.00E+00	-7.86E-17	6.19E-33	1.459	99	-157382.781	2.75E+08	1.45E-17	1.26E-33	-0.226
	3	25428.783	0.00E+00	-7.90E-17	6.19E-33	1.453	100	-157702.547	1.99E+09	2.74E-17	2.94E-33	-0.781
	4	26170.182	0.00E+00	-8.14E-17	6.17E-33	1.450	101	-157893.984	1.10E+09	1.97E-17	1.87E-33	-0.489
	5	32909.906	0.00E+00	-7.96E-17	6.19E-33	1.453	102	-158072.141	1.07E+09	1.99E-17	1.87E-33	-0.484
	6	54232.195	3.86E+04	-9.15E-17	8.68E-33	2.273	103	-158103.938	4.19E+08	1.59E-15	2.12E-32	-1.060
	7	-68634.391	8.37E+03	-6.86E-17	8.68E-33	2.269	104	-158149.484	1.09E+09	2.00E-17	1.87E-33	-0.484
	8	-77530.938	8.67E+04	-8.77E-17	8.67E-33	2.257	105	-158730.453	1.27E+09	1.79E-17	1.87E-33	-0.519
	9	82853.656	6.53E+08	-1.12E-15	2.50E-32	1.069	106	-158732.781	4.13E+08	1.49E-15	2.12E-32	-1.093
	10	84296.828	6.08E+08	-1.28E-15	2.50E-32	0.979	107	-158779.938	1.93E+09	3.03E-17	2.91E-33	-0.773
	11	84863.352	5.33E+08	-1.25E-15	2.50E-32	0.959	108	-158988.625	4.17E+08	5.42E-16	2.12E-32	-1.125
	12	98294.398	3.76E+08	-1.38E-15	2.50E-32	1.021	109	-159005.250	1.41E+09	2.87E-17	2.68E-33	-0.628
	13	99093.453	3.29E+08	-1.45E-15	2.99E-32	1.028	110	-159379.281	1.48E+09	3.28E-17	2.84E-33	-0.700
	14	102584.961	3.83E+08	-1.42E-15	2.99E-32	0.989	111	-160736.266	1.59E+09	3.48E-17	2.89E-33	-0.708
	15	103751.656	6.03E+08	-1.25E-15	2.50E-32	1.018	112	-160857.891	1.86E+09	2.87E-17	2.76E-33	-0.731
	16	103936.602	2.79E+08	8.44E-15	2.12E-32	-0.566	113	-161387.047	1.14E+09	1.87E-17	1.87E-33	-0.504
	17	-103847.281	6.14E+08	-1.26E-15	2.50E-32	1.003	114	-161486.313	1.68E+09	3.12E-17	2.85E-33	-0.727
	18	-103885.273	6.27E+08	-1.14E-15	2.50E-32	1.002	115	-161620.203	1.18E+09	1.84E-17	1.87E-33	-0.512
	19	104174.273	6.22E+08	-1.25E-15	2.50E-32	0.984	116	-162267.813	4.83E+08	1.59E-17	1.26E-33	-0.282
	20	104593.273	2.60E+08	6.67E-15	2.12E-32	-0.583	117	-162444.469	1.10E+09	1.92E-17	1.87E-33	-0.495
	21	-104788.273	5.35E+08	-1.24E-15	2.50E-32	0.989	118	-162603.688	1.09E+09	1.91E-17	1.87E-33	-0.496
	22	104863.430	2.45E+08	5.37E-15	2.12E-32	-0.597	119	-162659.969	1.12E+09	1.88E-17	1.87E-33	-0.501
	23	105063.547	5.85E+08	-1.23E-15	2.50E-32	0.995	120	-162796.375	1.11E+09	1.88E-17	1.87E-33	-0.500
	24	105398.852	6.09E+08	-1.28E-15	2.50E-32	0.969	121	-163458.063	1.14E+09	1.91E-17	1.87E-33	-0.500
	25	105763.273	5.59E+08	-1.27E-15	2.50E-32	0.953	122	-163894.469	5.47E+08	1.41E-17	1.26E-33	-0.302
	26	-106218.555	5.44E+08	-1.45E-15	2.50E-32	0.918	123	-163895.047	1.32E+09	4.24E-17	2.94E-33	-0.606
	27	108630.430	3.61E+08	-1.43E-15	2.99E-32	1.016	124	-163955.313	8.08E+08	2.30E-17	1.87E-33	-0.433
	28	-108898.469	6.52E+08	-1.00E-15	2.50E-32	0.885	125	-164111.313	1.08E+09	1.99E-17	1.87E-33	-0.485
	29	-109071.656	6.47E+08	-1.42E-15	2.50E-32	0.893	126	-164311.531	1.89E+09	3.26E-17	2.97E-33	-0.760
	30	-109378.320	6.53E+08	-4.40E-15	2.50E-32	0.871	127	-164413.625	1.14E+09	1.89E-17	1.87E-33	-0.503
	31	109486.148	1.05E+09	1.91E-17	1.87E-33	-0.492	128	-164816.609	1.51E+09	3.04E-17	2.77E-33	-0.694
	32	-110040.977	6.04E+08	-1.89E-15	2.50E-32	0.846	129	-165138.313	5.35E+08	1.45E-17	1.26E-33	-0.298
	33	-110410.914	6.05E+08	-1.90E-15	2.50E-32	0.843	130	-165147.297	1.48E+09	3.23E-17	2.80E-33	-0.680
	34	-113276.320	5.55E+08	-7.98E-16	2.50E-32	1.055	131	-165260.625	4.09E+08	1.59E-15	2.12E-32	-1.054
	35	-113468.953	5.65E+08	-1.17E-15	2.50E-32	1.028	132	-165570.828	1.34E+09	3.50E-17	2.81E-33	-0.644
	36	-114591.320	5.62E+08	-1.95E-15	2.50E-32	0.962	133	-165615.766	9.38E+08	2.14E-17	1.87E-33	-0.460
	37	-116319.773	7.01E+08	-2.28E-15	2.50E-32	0.721	134	-165680.078	1.84E+09	3.52E-17	3.00E-33	-0.741
	38	-117192.836	6.68E+08	-1.40E-15	2.50E-32	0.549	135	-165722.078	4.09E+08	1.50E-15	2.12E-32	-1.087
	39	-121948.641	2.15E+08	6.33E-16	1.34E-32	-0.811	136	-165839.078	1.91E+09	3.54E-17	3.02E-33	-0.751
	40	-122275.180	2.00E+08	6.23E-16	1.34E-32	-0.789	137	-165951.328	9.61E+08	2.09E-17	1.87E-33	-0.466
	41	-124291.063	2.68E+08	6.65E-15	2.12E-32	-0.585	138	-166020.047	2.98E+08	1.95E-17	1.26E-33	-0.232
	42	-124374.820	2.67E+08	-2.39E-15	2.12E-32	-0.582	139	-166544.344	9.00E+08	3.57E-17	2.69E-33	-0.565
	43	-124443.523	2.68E+08	6.99E-15	2.12E-32	-0.582	140	-166562.750	9.05E+08	2.16E-17	1.87E-33	-0.454
	44	-124570.633	2.66E+08	6.64E-15	2.12E-32	-0.586	141	-166751.813	9.90E+08	2.06E-17	1.87E-33	-0.472
	45	-124970.891	2.40E+08	5.13E-15	2.12E-32	-0.594	142	-167166.547	7.18E+08	2.36E-17	1.87E-33	-0.415
	46	-125559.234	2.66E+08	6.03E-15	2.12E-32	-0.593	143	-167826.656	1.18E+09	3.53E-17	2.77E-33	-0.619
	47	-125780.352	2.66E+08	5.15E-15	2.12E-32	-0.618	144	-168323.953	1.48E+09	3.63E-17	2.89E-33	-0.664
	48	-125889.711	2.62E+08	4.05E-15	2.12E-32	-0.642	145	-168607.094	8.32E+08	2.21E-17	1.87E-33	-0.441
	49	-126156.570	2.51E+08	4.06E-15	2.12E-32	-0.625	146	-168925.297	1.87E+09	3.42E-17	2.95E-33	-0.735
	50	-126201.328	2.22E+08	6.11E-16	1.34E-32	-0.824	147	-169043.875	1.66E+09	3.62E-17	2.93E-33	-0.691
	51	-129359.508	7.65E+08	-1.92E-15	2.50E-32	0.615	148	-169276.016	1.05E+09	2.02E-17	1.87E-33	-0.479
	52	-129372.016	2.91E+08	3.95E-15	2.12E-32	-0.679	149	-169320.016	1.57E+09	3.44E-17	2.85E-33	-0.678
	53	-129547.555	2.88E+08	4.02E-15	2.12E-32	-0.676	150	-169536.078	1.19E+09	1.85E-17	1.87E-33	-0.512
	54	-129765.531	2.87E+08	3.96E-15	2.12E-32	-0.681	151	-169965.813	1.18E+09	1.84E-17	1.87E-33	-0.511
	55	-130156.203	2.76E+08	3.57E-15	2.12E-32	-0.692	152	-169978.094	1.26E+09	3.73E-17	2.84E-33	-0.618
	56	-130338.258	2.78E+08	2.69E-15	2.12E-32	-0.722	153	-170603.391	1.09E+09	1.95E-17	1.87E-33	-0.491
	57	-132101.813	2.11E+08	5.53E-16	1.34E-32	-0.806	154	-170850.406	4.86E+08	1.57E-17	1.26E-33	-0.282
	58	-133702.781	2.47E+08	8.78E-15	2.12E-32	-0.541	155	-171079.594	1.44E+09	4.19E-17	2.94E-33	-0.612
	59	-133818.328	2.50E+08	8.23E-15	2.12E-32	-0.553	156	-171181.563	1.13E+09	1.88E-17	1.87E-33	-0.503
	60	-134737.766	2.55E+08	5.45E-15	2.12E-32	-0.600	157	-171480.859	9.95E+08	2.07E-17	1.87E-33	-0.469
	61	-135853.672	2.89E+08	3.12E-15	2.12E-32	-0.750	158	-171574.688	1.12E+09	1.91E-17	1.87E-33	-0.499
	62	-136756.516	3.24E+08	2.49E-15	2.12E-32	-0.816	159	-171821.453	1.75E+09	3.59E-17	2.99E-33	-0.722
	63	-137444.938	8.81E+08	6.18E-15	2.50E-32	0.448	160	-171845.516	1.16E+09	1.90E-17	1.87E-33	-0.503
	64	-137717.016	5.24E+08	1.43E-17	1.26E-33	-0.299	161	-172153.375	1.84E+09	3.67E-17	3.05E-33	-0.734
	65	-138532.938	8.18E+08	-9.28E-15	2.50E-32	0.378	162	-172537.109	8.81E+08	2.19E-17	1.87E-33	-0.448
	66	-139073.641	8.39E+08	3.73E-16	2.50E-32	0.309	163	-172555.063	1.90E+09	3.01E-17	2.83E-33	-0.745
	67	-139445.641	1.26E+09	2.88E-17	2.66E-33	-0.660	164	-173168.141	1.14E+09	1.92E-17	1.87E-33	-0.498
	68	-139847.500	1.70E+09	2.97E-17	2.79E-33	-0.722	165	-173816.453	8.76E+08	2.16E-17	1.87E-33	-0.449
	69	-140148.328	2.57E+08	2.25E-17	1.26E-33	-0.219	166	-173949.047	8.23E+08	2.23E-17	1.87E-33	-0.438
	70	-142096.656	1.78E+09	2.95E-17	2.84E-33	-0.748	167	-174138.594	2.18E+09	3.49E-17	3.01E-33	-0.767
	71	-143779.703	1.14E+09	1.86E-17	1.87E-33	-0.506	168	-174295.828	8.32E+08	2.21E-17	1.87E-33	-0.441
	72	-143939.750	1.07E+09	1.92E-17	1.87E-33	-0.493	169	-174819.438	1.15E+09	1.87E-17	1.87E-33	-0.506
	73	-143980.375	1.12E+09	1.87E-17	1.87E-33	-0.502	170	-175065.906	8.44E+08	3.88E-17	2.76E-33	-0.543
	74	-14										

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F		
188	-194455.766	1.19E+09	1.85E-17	1.87E-33	-0.510	86	-171155.094	1.13E+09	1.88E-17	1.87E-33	-0.503		
189	-194598.141	2.25E+09	3.05E-17	2.92E-33	-0.784	87	-171562.078	1.14E+09	1.87E-17	1.87E-33	-0.505		
190	-194805.891	1.15E+09	1.87E-17	1.87E-33	-0.504	88	-171982.391	1.18E+09	1.87E-17	1.87E-33	-0.508		
191	-194929.719	1.17E+09	1.86E-17	1.87E-33	-0.507	89	-172622.109	1.94E+09	3.63E-17	3.06E-33	-0.749		
192	-196506.453	8.94E+08	3.92E-17	2.72E-33	-0.527	90	-172733.797	8.14E+08	2.22E-17	1.87E-33	-0.439		
193	-197189.234	8.04E+08	2.25E-17	1.87E-33	-0.433	91	-174258.109	7.76E+08	2.26E-17	1.87E-33	-0.431		
194	-197243.047	1.30E+09	4.02E-17	2.84E-33	-0.578	92	-174992.719	8.15E+08	3.88E-17	2.75E-33	-0.539		
195	-197947.453	8.30E+08	2.24E-17	1.87E-33	-0.436	93	-175168.547	1.16E+09	1.86E-17	1.87E-33	-0.507		
196	-202255.563	9.51E+08	2.10E-17	1.87E-33	-0.461	94	-176030.781	7.50E+08	2.30E-17	1.87E-33	-0.422		
197	-202697.984	8.92E+08	2.16E-17	1.87E-33	-0.449	95	-176758.453	1.07E+09	1.99E-17	1.87E-33	-0.484		
198	-217586.578	1.16E+09	1.87E-17	1.87E-33	-0.505	96	-177814.453	1.15E+09	1.93E-17	1.87E-33	-0.497		
						97	-177848.797	9.15E+08	2.11E-17	1.87E-33	-0.457		
J= 6.5	1	21251.607	0.00E+00	-7.85E-17	6.19E-33	1.460	98	-179412.203	8.83E+08	2.14E-17	1.87E-33	-0.451	
	2	32875.645	0.00E+00	-7.95E-17	6.19E-33	1.455	99	-190671.672	1.79E+09	2.91E-17	2.76E-33	-0.720	
	3	-68709.898	1.00E+04	-7.91E-17	8.68E-33	2.269	100	-194447.891	1.18E+09	1.85E-17	1.87E-33	-0.509	
	4	-83912.773	5.98E+08	-1.25E-15	2.50E-32	0.996	101	-194937.125	1.16E+09	1.86E-17	1.87E-33	-0.506	
	5	98130.133	3.76E+08	-1.38E-15	2.99E-32	1.023	102	-196346.141	8.74E+08	3.95E-17	2.72E-33	-0.521	
	6	103600.438	6.06E+08	-1.22E-15	2.50E-32	1.019	103	-197928.109	8.26E+08	2.23E-17	1.87E-33	-0.436	
	7	-103767.000	6.26E+08	-1.13E-15	2.50E-32	1.003	104	-202259.500	9.30E+08	2.11E-17	1.87E-33	-0.458	
	8	104064.672	6.17E+08	-1.24E-15	2.50E-32	0.986	J= 7.5	1	-103643.250	6.28E+08	-1.09E-15	2.50E-32	1.002
	9	104315.367	5.80E+08	-1.21E-15	2.50E-32	0.985	2	103878.344	6.10E+08	-1.22E-15	2.50E-32	0.990	
	10	104366.820	2.61E+08	6.60E-15	2.12E-32	-0.585	3	104119.711	5.93E+08	-1.22E-15	2.50E-32	0.983	
	11	-104676.141	5.23E+08	-1.20E-15	2.50E-32	0.983	4	-108944.172	6.40E+08	-1.42E-15	2.50E-32	0.879	
	12	105288.844	6.04E+08	-1.28E-15	2.50E-32	0.971	5	-113645.641	6.30E+08	-1.17E-15	2.50E-32	1.002	
	13	108648.695	3.60E+08	-1.44E-15	2.99E-32	1.014	6	-114373.961	5.75E+08	-1.28E-15	2.50E-32	0.971	
	14	-108804.422	6.47E+08	-1.48E-15	2.50E-32	0.895	7	-124217.680	2.68E+08	6.73E-15	2.12E-32	-0.586	
	15	-109144.047	6.49E+08	-2.11E-15	2.50E-32	0.869	8	-124321.508	2.64E+08	6.24E-15	2.12E-32	-0.589	
	16	-109673.172	6.12E+08	-1.75E-15	2.50E-32	0.849	9	-124485.078	2.59E+08	6.08E-15	2.12E-32	-0.589	
	17	-113470.570	5.54E+08	-1.16E-15	2.50E-32	1.036	10	-129404.125	2.84E+08	3.87E-15	2.12E-32	-0.684	
	18	-114373.828	5.86E+08	-1.30E-15	2.50E-32	0.965	11	-134215.234	2.68E+08	6.93E-15	2.12E-32	-0.582	
	19	-114607.422	5.59E+08	-1.59E-15	2.50E-32	0.962	12	-134620.984	2.56E+08	5.73E-15	2.12E-32	-0.596	
	20	-121824.688	2.17E+08	6.33E-16	1.34E-32	-0.814	13	-139798.922	1.27E+09	2.87E-17	2.65E-33	-0.661	
	21	-124253.805	2.67E+08	6.85E-15	2.12E-32	-0.583	14	-143806.703	1.13E+09	1.87E-17	1.87E-33	-0.504	
	22	-124329.273	2.67E+08	6.76E-15	2.12E-32	-0.585	15	-144006.250	1.10E+09	1.88E-17	1.87E-33	-0.500	
	23	-124472.695	2.65E+08	6.45E-15	2.12E-32	-0.587	16	-146831.406	6.95E+08	2.38E-17	1.87E-33	-0.413	
	24	-124637.258	2.54E+08	5.93E-15	2.12E-32	-0.589	17	-147680.734	5.85E+08	4.08E-17	2.72E-33	-0.496	
	25	-124824.398	2.43E+08	5.18E-15	2.12E-32	-0.596	18	-155507.688	5.47E+08	1.41E-17	1.26E-33	-0.303	
	26	-125687.281	2.65E+08	5.70E-15	2.12E-32	-0.602	19	-156356.625	1.38E+09	2.94E-17	2.72E-33	-0.684	
	27	-129333.008	2.88E+08	4.01E-15	2.12E-32	-0.677	20	-158106.313	1.05E+09	2.00E-17	1.87E-33	-0.481	
	28	-129547.477	2.87E+08	3.80E-15	2.12E-32	-0.690	21	-158740.391	1.91E+09	3.04E-17	2.91E-33	-0.771	
	29	-129872.914	2.78E+08	3.64E-15	2.12E-32	-0.691	22	-159873.750	1.18E+09	3.40E-17	2.78E-33	-0.637	
	30	-132101.156	2.11E+08	5.76E-16	1.34E-32	-0.806	23	-161440.281	1.13E+09	1.87E-17	1.87E-33	-0.503	
	31	-133817.344	2.46E+08	8.26E-15	2.12E-32	-0.549	24	-161512.922	1.19E+09	1.83E-17	1.87E-33	-0.513	
	32	-134622.594	2.60E+08	5.72E-15	2.12E-32	-0.599	25	-161639.891	5.27E+08	4.04E-17	2.69E-33	-0.485	
	33	-134744.563	2.54E+08	5.43E-15	2.12E-32	-0.600	26	-161675.313	1.17E+09	1.88E-17	1.87E-33	-0.510	
	34	-137430.922	8.75E+08	6.83E-14	2.50E-32	0.450	27	-162676.969	1.10E+09	1.88E-17	1.87E-33	-0.499	
	35	-137713.172	5.24E+08	1.43E-17	1.26E-33	-0.299	28	-163916.531	1.29E+09	3.82E-17	2.90E-33	-0.632	
	36	-139611.641	1.27E+09	2.87E-17	2.66E-33	-0.661	29	-164251.750	7.74E+08	2.27E-17	1.87E-33	-0.429	
	37	-142086.016	1.78E+09	2.95E-17	2.84E-33	-0.749	30	-164260.125	8.29E+08	2.20E-17	1.87E-33	-0.442	
	38	-143794.297	1.14E+09	1.86E-17	1.87E-33	-0.505	31	-165577.875	1.54E+09	2.95E-17	2.76E-33	-0.703	
	39	-143995.375	1.11E+09	1.88E-17	1.87E-33	-0.501	32	-169165.406	9.45E+08	2.08E-17	1.87E-33	-0.464	
	40	-144045.625	1.12E+09	1.88E-17	1.87E-33	-0.501	33	-169245.000	9.28E+08	2.09E-17	1.87E-33	-0.461	
	41	-144803.813	1.07E+09	3.51E-17	2.77E-33	-0.617	34	-169960.672	1.13E+09	1.90E-17	1.87E-33	-0.500	
	42	-144831.781	8.32E+08	-4.32E-15	2.50E-32	0.445	35	-170129.719	1.14E+09	1.87E-17	1.87E-33	-0.504	
	43	-146837.781	6.91E+08	2.38E-17	1.87E-33	-0.412	36	-170725.734	6.42E+08	4.07E-17	2.72E-33	-0.501	
	44	-147699.609	5.87E+08	4.08E-17	2.72E-33	-0.497	37	-171480.625	1.12E+09	1.88E-17	1.87E-33	-0.501	
	45	-148709.797	6.87E+08	2.41E-17	1.87E-33	-0.409	38	-172868.234	8.35E+08	2.19E-17	1.87E-33	-0.443	
	46	-150002.828	1.11E+09	1.88E-17	1.87E-33	-0.501	39	-177881.188	8.89E+08	2.13E-17	1.87E-33	-0.453	
	47	-150271.531	1.44E+09	3.82E-17	2.98E-33	-0.674	40	-194438.641	1.16E+09	1.86E-17	1.87E-33	-0.507	
	48	-155478.563	5.48E+08	1.41E-17	1.26E-33	-0.303	J= 8.5	1	-103545.055	6.12E+08	-9.75E-16	2.50E-32	1.011
	49	-156114.406	1.38E+09	2.94E-17	2.73E-33	-0.683	2	-113650.773	6.12E+08	-1.16E-15	2.50E-32	1.012	
	50	-156931.547	1.32E+09	1.78E-17	1.87E-33	-0.529	3	-124137.266	2.62E+08	6.49E-15	2.12E-32	-0.580	
	51	-157406.938	2.80E+08	1.22E-17	1.26E-33	-0.227	4	-134214.922	2.62E+08	6.95E-15	2.12E-32	-0.578	
	52	-157630.234	2.00E+09	3.23E-17	2.94E-33	-0.782	5	-144009.109	1.10E+09	1.88E-17	1.87E-33	-0.499	
	53	-157917.875	1.09E+09	1.98E-17	1.87E-33	-0.488	6	-156634.047	1.39E+09	2.93E-17	2.72E-33	-0.684	
	54	-158097.250	1.06E+09	2.00E-17	1.87E-33	-0.482	7	-161543.156	1.17E+09	1.84E-17	1.87E-33	-0.510	
	55	-158098.953	4.17E+08	1.58E-15	2.12E-32	-1.060	8	-161621.563	4.79E+08	4.08E-17	2.68E-33	-0.475	
	56	-158798.703	1.92E+09	3.04E-17	2.91E-33	-0.773	9	-161716.422	1.16E+09	1.85E-17	1.87E-33	-0.509	
	57	-159236.844	1.40E+09	2.87E-17	2.68E-33	-0.677	10	-164249.297	8.45E+08	2.18E-17	1.87E-33	-0.446	
	58	-159306.688	1.41E+09	3.26E-17	2.82E-33	-0.686	11	-169188.281	9.06E+08	2.10E-17	1.87E-33	-0.458	
	59	-160213.469	1.40E+09	3.23E-17	2.82E-33	-0.686	12	-170290.797	1.13E+09	1.88E-17	1.87E-33	-0.503	
	60	-161409.531	1.13E+09	1.87E-17	1.87E-33	-0.503	J= 9.5	1	-161586.266	1.16E+09	1.85E-17	1.87E-33	-0.508
	61	-161493.781	1.20E+09	1.83E-17	1.87E-33	-0.514							
	62	-161644.438	1.18E+09	1.84E-17	1.87E-33	-0.511							
	63	-162239.203	4.81E+08	1.59E-17	1.26E-33	-0.281							
	64	-162676.422	1.11E+09	1.88E-17	1.87E-33	-0.500							
	65	-162770.500	1.11E+09	1.89E-17	1.87E-33	-0.500							
	66	-163441.563	1.22E+09	3.93E-17	2.90E-33	-0.615							
	67	-163493.875	1.14E+09	1.92E-17	1.87E-33	-0.499							
	68	-163945.094	1.36E+09	4.24E-17	2.94E-33	-0.608							
	69	-164121.188	5.47E+08	1.41E-17	1.26E-33	-0.302							
	70	-164257.875	7.57E+08	2.29E-17	1.87E-33	-0.426							
	71	-165183.828	1.52E+09	2.95E-17	2.75E-33	-0.699							
	72	-165259.734	4.02E+08	1.59E-15	2.12E-32	-1.050							
	73	-165734.000	9.91E+08	2.05E-17	1.87E-33	-0.473							

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	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F	
82	-110987.891	1.64E+08	9.91E-16	3.30E-32	0.281	179	-157198.578	1.55E+09	-3.01E-17	8.62E-33	1.299	
83	-111931.914	1.84E+08	1.12E-14	3.35E-32	0.334	180	-159154.422	2.57E+08	-5.99E-16	2.12E-32	-0.340	
84	-112144.117	4.93E+08	2.12E-16	1.11E-32	1.284	181	-159169.125	2.93E+08	-4.08E-16	2.12E-32	-0.336	
85	-112474.727	6.72E+08	7.91E-16	1.72E-32	0.950	182	-159878.969	1.70E+08	-6.29E-17	6.24E-33	1.567	
86	-112802.516	1.53E+09	-1.18E-17	1.03E-32	1.112	183	-161259.734	6.52E+08	-6.36E-17	6.39E-33	1.493	
87	-113385.469	6.34E+08	1.31E-16	1.10E-32	1.229	184	-162875.234	2.20E+08	-8.44E-17	6.64E-33	1.490	
88	-113561.039	5.37E+08	5.40E-17	9.99E-33	1.299	185	-163324.000	2.44E+08	-6.96E-16	2.00E-32	1.459	
89	-113791.008	1.65E+09	-1.05E-16	1.14E-32	0.979	186	-164889.266	2.59E+08	-1.79E-15	3.39E-32	1.178	
90	-113817.719	1.32E+09	-7.34E-17	1.04E-32	1.101	187	-165036.703	3.02E+08	-1.49E-15	2.31E-32	1.269	
91	-114390.102	3.98E+08	1.17E-15	2.77E-32	0.560	188	-168610.094	3.98E+08	2.49E-16	7.00E-33	1.412	
92	-115131.313	1.80E+09	-2.35E-16	1.40E-32	0.768	189	-172809.719	2.96E+09	-4.96E-17	1.32E-32	0.702	
93	-115429.250	6.95E+08	-3.13E-17	8.36E-33	1.281	190	-173826.719	2.74E+09	-1.02E-16	1.20E-32	0.790	
94	-115558.727	2.37E+09	-1.79E-16	1.41E-32	0.576	191	-177826.328	1.73E+08	4.40E-17	2.12E-32	0.031	
95	-116590.688	5.14E+08	4.41E-15	1.01E-32	1.352	192	-178004.906	5.65E+07	4.84E-17	2.11E-32	0.047	
96	-117584.758	2.25E+09	1.61E-17	1.34E-32	0.813	193	-182250.469	2.81E+09	-1.04E-16	1.20E-32	0.769	
97	-117690.234	1.63E+09	-4.97E-15	1.40E-32	0.930	194	-183692.109	1.51E+09	-3.79E-16	2.24E-32	1.130	
98	-117887.938	4.80E+08	-1.80E-16	7.92E-33	1.431	195	-186162.797	1.31E+09	-9.27E-16	2.58E-32	1.011	
99	-118546.914	1.52E+09	4.65E-16	1.49E-32	0.890							
100	-118593.086	7.64E+08	7.69E-16	1.38E-32	1.145	J= 2.5	1	38858.957	2.91E+08	-5.09E-17	7.92E-33	1.166
101	-119077.531	6.45E+08	-2.11E-18	8.20E-33	1.189	2	42334.820	3.69E+08	-5.76E-17	7.91E-33	1.077	
102	-119500.852	2.33E+08	1.54E-15	2.21E-32	0.992	3	43238.586	3.37E+08	-5.84E-17	7.47E-33	1.056	
103	-119613.664	3.29E+08	1.16E-15	1.32E-32	1.330	4	44784.762	3.44E+08	-5.04E-17	8.59E-33	1.152	
104	-119879.953	5.45E+08	1.47E-15	3.03E-32	0.454	5	45079.879	2.82E+08	-5.53E-17	8.09E-33	1.131	
105	-120071.695	1.76E+08	3.93E-15	3.32E-32	0.549	6	46967.445	3.03E+08	-5.72E-17	8.04E-33	1.080	
106	-120253.922	2.03E+08	3.09E-15	3.30E-32	0.517	7	52299.391	1.43E+05	-6.44E-17	6.19E-33	1.600	
107	-120321.867	2.10E+08	2.47E-15	3.28E-32	0.517	8	60402.344	3.15E+08	-4.25E-17	7.81E-33	1.100	
108	-122245.594	2.44E+08	-5.34E-15	2.11E-32	-0.895	9	61041.746	3.78E+08	-5.13E-17	8.10E-33	1.138	
109	-122256.063	2.35E+08	1.69E-13	3.14E-32	0.478	10	61093.414	2.82E+08	-5.16E-17	7.97E-33	1.145	
110	-122288.023	3.46E+08	-2.91E-15	2.12E-32	-0.768	11	62151.563	3.30E+08	-5.23E-17	7.89E-33	1.128	
111	-122880.719	1.57E+09	3.44E-17	1.37E-32	0.889	12	62049.023	2.07E+08	-6.59E-17	6.66E-33	1.572	
112	-123046.406	3.58E+08	-2.96E-15	2.12E-32	-0.783	13	62689.879	4.60E+08	-5.61E-17	8.16E-33	1.068	
113	-123196.063	3.65E+08	-3.13E-15	2.12E-32	-0.786	14	63272.977	4.33E+08	-5.25E-17	8.09E-33	1.103	
114	-123227.180	3.74E+08	-3.37E-15	2.12E-32	-0.812	15	64087.418	4.13E+08	-5.42E-17	8.03E-33	1.092	
115	-123570.125	2.73E+08	-6.89E-15	2.12E-32	-0.875	16	64425.406	3.22E+08	-5.33E-17	7.90E-33	1.112	
116	-124160.086	2.81E+08	-3.11E-15	2.12E-32	-0.801	17	66078.266	3.95E+08	-5.36E-17	7.98E-33	1.108	
117	-124181.656	3.17E+08	-2.49E-15	2.12E-32	-0.749	18	66522.305	5.43E+08	-5.28E-17	8.21E-33	1.100	
118	-124393.953	3.06E+08	-3.30E-15	2.12E-32	-0.785	19	67000.516	4.35E+08	-5.69E-17	8.28E-33	1.072	
119	-124411.336	2.87E+08	-3.05E-15	2.12E-32	-0.778	20	69102.383	3.02E+08	-6.65E-17	6.92E-33	1.549	
120	-124555.289	2.92E+08	-3.87E-15	2.12E-32	-0.800	21	69650.484	4.29E+08	-5.07E-17	8.51E-33	1.132	
121	-124582.898	3.16E+08	-3.74E-15	2.12E-32	-0.766	22	71964.711	5.32E+08	-5.30E-17	8.23E-33	1.125	
122	-125011.219	3.56E+08	1.65E-15	2.51E-32	0.796	23	72238.516	3.50E+08	-5.57E-17	7.70E-33	1.087	
123	-125780.586	2.32E+08	1.88E-15	3.47E-32	0.390	24	72619.492	4.23E+08	-5.60E-17	7.82E-33	1.088	
124	-126148.391	2.97E+08	7.38E-16	2.16E-32	0.793	25	73054.883	3.86E+08	-5.66E-17	7.96E-33	1.067	
125	-127091.313	2.97E+08	-1.21E-15	2.12E-32	-0.664	26	74606.844	3.84E+08	-5.13E-17	8.14E-33	1.134	
126	-127456.563	2.84E+08	-1.72E-15	2.12E-32	-0.712	27	75915.219	5.96E+08	-5.75E-17	8.45E-33	1.044	
127	-127458.563	3.25E+08	-1.56E-15	2.12E-32	-0.700	28	77742.727	4.62E+08	-5.47E-17	8.22E-33	1.117	
128	-127639.672	3.05E+08	-1.77E-15	2.12E-32	-0.729	29	79285.109	1.69E+09	1.98E-17	1.23E-32	0.922	
129	-127658.383	2.83E+08	-1.36E-15	2.12E-32	-0.672	30	78690.844	4.64E+08	-5.06E-17	8.15E-33	1.121	
130	-128610.398	5.54E+08	-3.47E-16	7.32E-33	1.448	31	83868.453	4.67E+08	-4.85E-17	8.00E-33	1.151	
131	-128777.633	4.85E+08	-3.98E-17	7.12E-33	1.470	32	-85044.672	7.93E+05	-6.22E-17	6.20E-33	1.639	
132	-128971.172	2.51E+09	-1.32E-16	1.26E-32	0.756	33	-86033.008	1.90E+05	-6.40E-17	6.19E-33	1.611	
133	-129751.625	2.35E+09	-8.81E-16	1.45E-32	0.676	34	86547.492	4.61E+08	-5.20E-17	7.96E-33	1.115	
134	-130731.617	2.20E+09	-2.75E-16	1.23E-32	0.850	35	86767.578	4.92E+08	-4.33E-17	8.14E-33	1.252	
135	-131104.438	1.55E+09	1.48E-15	1.32E-32	1.001	36	87572.430	3.48E+08	2.68E-16	1.00E-32	1.427	
136	-131233.500	1.00E+09	8.23E-16	1.09E-32	1.189	37	88059.383	1.49E+08	9.15E-17	8.31E-33	1.526	
137	-131707.047	2.14E+09	3.55E-16	1.41E-32	0.858	38	-88239.031	3.89E+06	-6.14E-17	6.23E-33	1.626	
138	-132600.688	1.13E+09	1.73E-15	2.69E-32	0.526	39	89119.453	1.01E+08	1.05E-15	3.09E-32	0.446	
139	-132791.172	3.02E+08	-3.53E-15	2.12E-32	-0.830	40	89444.461	3.79E+08	7.09E-16	2.17E-32	0.846	
140	-132810.406	3.45E+08	-2.94E-15	2.12E-32	-0.811	41	89727.344	3.14E+08	-4.98E-16	7.74E-33	1.194	
141	-132904.797	2.30E+08	-1.04E-15	2.12E-32	-0.568	42	90487.813	1.22E+08	1.01E-15	3.29E-32	0.264	
142	-132933.125	1.86E+08	-1.19E-15	2.12E-32	-0.612	43	90638.820	9.96E+07	1.39E-15	3.56E-32	0.225	
143	-132934.766	2.59E+08	-1.04E-15	2.12E-32	-0.570	44	91070.547	9.31E+07	1.28E-15	3.53E-32	0.188	
144	-133048.359	2.60E+08	-1.11E-15	2.12E-32	-0.592	45	90901.125	9.45E+07	1.59E-15	3.60E-32	0.244	
145	-133061.359	2.44E+08	-1.02E-15	2.12E-32	-0.562	46	91575.141	6.31E+08	3.46E-16	2.34E-32	0.503	
146	-134124.969	5.39E+08	-3.81E-17	7.58E-33	1.441	47	92018.727	1.05E+08	-6.24E-17	6.31E-33	1.586	
147	-134462.938	6.29E+08	3.44E-18	8.60E-33	1.384	48	92274.117	4.44E+08	-4.96E-17	7.64E-33	1.158	
148	-137273.016	6.68E+08	6.97E-13	1.30E-32	1.367	49	92329.891	4.17E+08	-5.09E-17	7.62E-33	1.263	
149	-137631.531	8.48E+07	1.63E-14	3.62E-32	0.849	50	92695.375	5.98E+08	-4.55E-17	8.83E-33	1.206	
150	-138380.391	7.01E+08	-2.98E-15	2.84E-32	0.878	51	92899.203	4.53E+08	-5.06E-17	7.67E-33	1.161	
151	-138493.219	5.71E+08	-4.08E-16	1.08E-32	1.167	52	93395.359	4.10E+08	-5.35E-17	7.75E-33	1.290	
152	-138617.766	5.53E+08	-2.10E-15	3.25E-32	0.798	53	93830.977	4.11E+08	-6.30E-17	7.70E-33	1.422	
153	-138926.406	3.08E+08	-1.32E-15	2.12E-32	-0.697	54	93988.172	3.17E+08	-6.96E-17	6.79E-33	1.558	
154	-139017.578	3.55E+08	-1.22E-15	2.12E-32	-0.663	55	94211.742	2.76E+08	-7.47E-17	6.81E-33	1.541	
155	-139199.922	1.90E+08	3.07E-14	3.56E-32	0.789	56	94685.094	3.40E+08	-7.35E-17	7.04E-33	1.486	
156	-139252.656	1.79E+08	1.78E-14	3.58E-32	0.780	57	94700.656	4.17E+08	-5.06E-17	7.80E-33	1.148	
157	-139534.031	2.06E+08	-2.61E-14	3.53E-32	0.714	58	95046.102	3.52E+08	-5.73E-17	7.42E-33	1.222	
158	-139769.906	4.35E+08	-2.06E-15	3.33E-32	0.794	59	95995.688	2.27E+08	-7.42E-17	6.64E-33	1.586	
159	-139876.891	4.14E+08	4.89E-15	2.96E-32	0.722	60	96279.492	3.70E+08	-6.97E-17	7.31E-33	1.503	
160	-140500.172	1.76E+09	7.96E-15	2.30E-32	0.653	61	98354.656	2.60E+08	-6.67E-17	6.75E-33	1.594	
161	-142953.484	2.62E+09	3.71E-17	1.30E-32	0.723	62	98505.102	2.21E+08	-6.99E-17	6.65E-33	1.597	
162	-145123.125	3.44E+08	-8.05E-16	2.12E-32	-0.529	63	-99406.008	5.68E+08	-5.11E-17	8.14E-33	1.136	
163	-145233.594	3.04E+08	-8.00E-16	2.12E-32	-0.513	64	100400.359	2.26E+08	-3.40E-16	6.75E-33	1.593	
164	-149140.594	7.48E+08	-7.21E-17	6.80E-33	1.580	65	-101729.125</					

	LEVEL	SUM A	CSTARK	CWAALS	SUM F
80	-106181.398	3.59E+08	1.22E-16	8.01E-33	1.496
81	-106755.250	2.72E+08	2.28E-17	6.88E-33	1.542
82	-107024.406	2.86E+08	-2.63E-17	6.72E-33	1.544
83	107196.203	4.23E+08	1.56E-17	7.57E-33	1.473
84	-107758.688	3.43E+08	-1.58E-17	7.26E-33	1.525
85	108130.232	2.92E+08	2.30E-16	1.13E-32	1.373
86	-108737.320	2.21E+08	3.73E-16	1.99E-32	0.944
87	108629.250	8.31E+08	8.64E-16	2.11E-32	0.851
88	-108870.688	1.85E+08	1.04E-15	3.18E-32	0.336
89	-109182.984	2.55E+08	7.60E-16	2.42E-32	0.728
90	-109688.555	2.27E+08	1.35E-15	2.84E-32	0.607
91	-110084.391	4.35E+08	1.22E-15	3.03E-32	0.453
92	-110179.984	1.52E+08	-3.28E-18	7.64E-33	1.553
93	-110354.172	4.39E+08	1.09E-15	2.98E-32	0.449
94	-110619.531	2.73E+08	7.75E-16	3.09E-32	0.380
95	-111027.602	3.00E+08	2.25E-16	1.26E-32	1.287
96	-111569.234	1.17E+08	1.34E-15	3.39E-32	0.345
97	-111745.148	1.27E+08	3.31E-16	3.54E-32	0.241
98	-111929.000	3.78E+08	8.40E-16	2.10E-32	0.806
99	-112370.016	6.70E+08	1.61E-15	2.07E-32	0.812
100	-112427.711	8.30E+08	9.50E-16	1.92E-32	0.825
101	-112686.875	1.18E+09	-1.06E-17	9.83E-33	1.203
102	-113194.242	6.53E+08	3.01E-17	9.70E-33	1.303
103	-113203.055	7.73E+08	2.26E-17	9.77E-33	1.330
104	-113356.930	6.41E+08	-3.59E-17	8.72E-33	1.348
105	-113570.172	2.42E+09	-7.12E-17	1.34E-32	0.719
106	-113671.617	4.61E+08	3.42E-17	9.53E-33	1.325
107	-114277.094	4.40E+08	1.17E-15	2.80E-32	0.530
108	-115110.820	1.42E+09	1.84E-16	1.90E-32	0.664
109	-115187.383	6.59E+08	8.64E-16	2.89E-32	0.411
110	-115236.609	7.45E+08	6.51E-16	2.74E-32	0.410
111	-115524.609	6.89E+08	-4.03E-17	8.28E-33	1.275
112	-115918.281	8.83E+08	-3.08E-17	8.54E-33	1.310
113	-116608.594	5.34E+08	2.95E-15	1.01E-32	1.347
114	-117246.109	5.10E+08	-4.74E-17	7.43E-33	1.352
115	-117387.273	2.25E+09	3.07E-16	1.31E-32	0.822
116	-117783.016	1.19E+09	-6.67E-15	1.29E-32	1.062
117	-117817.250	7.01E+08	-1.65E-13	9.68E-33	1.264
118	-118044.148	3.95E+08	1.60E-16	7.77E-33	1.431
119	-118304.297	3.09E+08	-1.91E-17	7.57E-33	1.430
120	-118534.438	1.38E+09	3.85E-16	1.37E-32	0.979
121	-118630.758	8.11E+08	7.09E-16	1.37E-32	1.136
122	-119193.359	5.75E+08	1.03E-16	1.38E-32	1.175
123	-119521.547	2.63E+08	7.09E-16	2.01E-32	1.031
124	-119687.211	2.42E+08	3.58E-15	2.84E-32	0.603
125	-119796.641	3.34E+08	2.09E-15	1.91E-32	1.058
126	-119931.563	4.76E+08	1.35E-15	2.89E-32	0.529
127	-120289.891	3.45E+08	1.50E-15	2.88E-32	0.570
128	-120351.328	2.09E+08	2.34E-15	3.32E-32	0.454
129	-120375.031	1.25E+08	3.63E-15	3.54E-32	0.463
130	-122253.672	2.48E+08	-5.32E-15	2.11E-32	-0.892
131	-122293.586	3.35E+08	-2.79E-15	2.12E-32	-0.777
132	-122807.961	3.11E+08	-2.98E-15	2.12E-32	-0.784
133	-123048.047	4.09E+08	-3.28E-15	2.12E-32	-0.795
134	-123074.883	3.42E+08	-3.13E-15	2.12E-32	-0.796
135	-123212.969	1.62E+09	-1.66E-17	1.29E-32	0.921
136	-123228.391	3.16E+08	-3.20E-15	2.12E-32	-0.793
137	-123241.070	2.85E+08	-3.83E-15	2.12E-32	-0.837
138	-123343.195	5.67E+08	-1.20E-17	7.40E-33	1.423
139	-123569.258	2.86E+08	-6.57E-15	2.12E-32	-0.872
140	-123590.781	3.30E+08	-4.05E-15	2.12E-32	-0.809
141	-124102.664	3.19E+08	-5.69E-15	2.12E-32	-0.848
142	-124136.523	2.73E+08	-3.24E-15	2.12E-32	-0.806
143	-124159.453	2.87E+08	-2.71E-15	2.12E-32	-0.772
144	-124366.367	2.86E+08	-3.56E-15	2.12E-32	-0.794
145	-124388.750	2.74E+08	-7.28E-15	2.12E-32	-0.792
146	-124532.281	2.84E+08	-3.99E-15	2.12E-32	-0.816
147	-124555.039	2.77E+08	-3.39E-15	2.12E-32	-0.789
148	-125654.258	1.53E+08	1.88E-15	3.50E-32	0.393
149	-125838.281	2.50E+08	1.88E-15	3.45E-32	0.386
150	-127064.086	2.63E+08	-1.82E-15	2.12E-32	-0.739
151	-127078.898	2.98E+08	-1.03E-15	2.12E-32	-0.662
152	-127450.141	2.82E+08	-1.64E-15	2.12E-32	-0.712
153	-127450.555	3.21E+08	-1.58E-15	2.12E-32	-0.704
154	-127626.914	3.10E+08	-1.76E-15	2.12E-32	-0.728
155	-127644.211	2.94E+08	-1.34E-15	2.12E-32	-0.682
156	-128062.180	2.33E+09	-1.11E-16	1.34E-32	0.704
157	-128494.922	2.20E+09	-1.17E-16	1.18E-32	0.849
158	-128734.625	8.00E+08	-6.93E-17	7.77E-33	1.373
159	-128913.078	4.42E+08	-4.32E-17	7.10E-33	1.472
160	-129492.867	2.03E+09	-2.21E-16	1.22E-32	0.830
161	-130348.461	2.37E+09	-8.42E-16	1.33E-32	0.752
162	-130595.398	2.09E+09	-2.86E-15	1.26E-32	0.871
163	-131025.820	1.57E+09	3.84E-15	1.99E-32	0.778
164	-131139.625	5.97E+08	-3.14E-17	7.53E-33	1.395
165	-131723.016	2.09E+09	3.36E-16	1.41E-32	0.874
166	-132134.703	3.73E+08	2.91E-15	2.89E-32	0.734
167	-132379.250	4.87E+08	5.54E-16	1.26E-32	1.281
168	-132608.500	1.33E+09	1.26E-15	2.35E-32	0.595
169	-132753.572	3.30E+08	-3.58E-15	2.12E-32	-0.836
170	-132788.047	2.93E+08	-3.66E-15	2.12E-32	-0.837
171	-132886.109	3.40E+08	-3.33E-15	2.12E-32	-0.821
172	-132909.422	2.57E+08	-1.13E-15	2.12E-32	-0.596
173	-132918.453	2.09E+08	-1.16E-15	2.12E-32	-0.605
174	-132933.453	2.22E+08	-1.14E-15	2.12E-32	-0.600
175	-132957.094	2.70E+08	-9.32E-16	2.12E-32	-0.535
176	-133060.141	2.42E+08	-1.15E-15	2.12E-32	-0.601

	LEVEL	SUM A	CSTARK	CWAALS	SUM F
177	-133086.641	2.66E+08	-9.48E-16	2.12E-32	-0.534
178	-134433.469	7.14E+08	8.06E-19	8.85E-33	1.367
179	-135870.531	2.87E+08	-3.14E-15	2.12E-32	-0.809
180	-136340.547	2.79E+09	-1.82E-16	1.49E-32	0.622
181	-137011.547	6.09E+08	-1.71E-16	1.06E-32	1.425
182	-137283.453	6.17E+08	4.13E-15	1.24E-32	1.379
183	-137851.266	8.86E+07	-6.05E-15	3.62E-32	0.846
184	-138509.953	1.07E+08	6.31E-14	3.22E-32	0.835
185	-138917.891	1.35E+09	5.91E-15	2.56E-32	0.826
186	-139017.500	3.38E+08	-1.29E-15	2.12E-32	-0.686
187	-139091.063	1.31E+09	-8.28E-15	2.39E-32	0.763
188	-139118.672	1.99E+08	-1.54E-15	2.12E-32	-0.686
189	-139261.438	4.28E+08	-5.98E-14	3.32E-32	0.743
190	-139428.813	2.38E+08	8.92E-15	3.53E-32	0.792
191	-139773.234	2.17E+08	2.24E-13	3.48E-32	0.686
192	-139866.719	4.02E+08	8.74E-15	3.03E-32	0.724
193	-140125.328	9.10E+08	3.41E-15	2.33E-32	0.815
194	-140817.266	1.53E+09	7.62E-15	2.48E-32	0.665
195	-142363.594	1.08E+09	-5.26E-17	1.08E-32	1.246
196	-145233.563	3.00E+08	-8.03E-16	2.12E-32	-0.517
197	-145356.453	2.45E+08	-8.19E-16	2.12E-32	-0.503
198	-146322.469	2.93E+08	-6.96E-15	3.39E-32	0.725
199	-149456.703	7.48E+08	-7.24E-17	6.81E-33	1.577
200	-150900.375	2.53E+09	-7.84E-17	1.21E-32	0.763
201	-151065.125	2.29E+09	-8.46E-17	1.26E-32	0.782
202	-151292.234	1.38E+08	-4.14E-16	2.12E-32	-0.315
203	-151662.938	1.65E+08	-4.21E-16	2.12E-32	-0.319
204	-151731.672	2.78E+08	-3.48E-16	2.12E-32	-0.278
205	-151876.813	3.93E+08	-4.64E-16	2.12E-32	-0.358
206	-151962.844	1.99E+08	-5.13E-16	2.12E-32	-0.369
207	-152023.500	2.93E+08	-2.76E-16	2.12E-32	-0.230
208	-152082.109	1.85E+08	-4.53E-16	2.12E-32	-0.329
209	-152136.422	2.45E+08	-3.28E-16	2.12E-32	-0.261
210	-152227.859	1.63E+08	-4.42E-16	2.12E-32	-0.315
211	-152595.484	6.55E+08	-4.48E-17	6.50E-33	1.512
212	-152636.438	1.85E+08	-3.90E-16	2.12E-32	-0.287
213	-152693.656	1.21E+08	-3.86E-16	2.12E-32	-0.280
214	-155443.266	6.19E+08	-4.92E-17	6.51E-33	1.570
215	-155917.047	3.00E+08	-1.12E-16	2.12E-32	-0.332
216	-159190.875	2.84E+08	-3.46E-16	2.12E-32	-0.338
217	-159265.047	3.07E+09	1.19E-16	1.34E-32	0.715
218	-159957.266	1.87E+08	-6.43E-17	6.27E-33	1.561
219	-161441.453	6.24E+08	-6.40E-17	6.37E-33	1.493
220	-162488.453	2.26E+08	-8.02E-17	6.58E-33	1.493
221	-163405.219	2.42E+08	-7.47E-16	2.06E-32	1.446
222	-164691.234	6.04E+08	-1.49E-16	7.49E-33	1.494
223	-164844.453	2.31E+08	-2.26E-15	3.46E-32	1.113
224	-165164.188	3.26E+08	-1.44E-15	2.14E-32	1.276
225	-173651.266	2.75E+09	-9.53E-17	1.20E-32	0.793
226	-177638.313	3.08E+08	4.76E-17	2.12E-32	0.016
227	-177828.453	1.68E+08	4.30E-17	2.12E-32	0.030
228	-181686.688	2.33E+09	-1.01E-16	1.19E-32	0.821
229	-182534.906	2.78E+09	-9.77E-17	1.19E-32	0.770
230	-198086.609	1.86E+08	3.01E-16	2.12E-32	0.228

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1	38660.043	2.92E+08	-5.10E-17	7.92E-33	1.164
2	42237.031	3.70E+08	-5.78E-17	7.91E-33	1.074
3	42658.223	3.34E+08	-5.79E-17	7.48E-33	1.064
4	44446.879	3.47E+08	-5.05E-17	8.59E-33	1.151
5	44753.801	2.84E+08	-5.52E-17	8.10E-33	1.13

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
43	92089.258	1.13E+08	-6.66E-17	6.42E-33	1.616	140	-124366.430	2.84E+08	-3.95E-15	2.12E-32	-0.804
44	92154.164	9.54E+07	-6.35E-17	6.28E-33	1.592	141	-124513.617	2.48E+08	-4.18E-15	2.12E-32	-0.841
45	92602.703	4.76E+08	-5.22E-17	7.81E-33	1.221	142	-124536.813	2.79E+08	-6.99E-15	2.12E-32	-0.798
46	92282.461	4.45E+08	-5.20E-17	7.70E-33	1.303	143	-125750.625	1.55E+08	1.71E-15	3.48E-32	0.374
47	93129.898	4.33E+08	-5.26E-17	7.64E-33	1.203	144	-127056.320	3.22E+08	-1.38E-15	2.12E-32	-0.728
48	93487.648	4.31E+08	-5.47E-17	7.67E-33	1.214	145	-127069.383	2.93E+08	-9.19E-16	2.12E-32	-0.670
49	93987.453	4.21E+08	-6.56E-17	7.71E-33	1.405	146	-127445.109	2.73E+08	-1.77E-15	2.12E-32	-0.721
50	94073.242	3.25E+08	-7.03E-17	6.80E-33	1.554	147	-127447.398	2.88E+08	-1.58E-15	2.12E-32	-0.716
51	94763.219	1.73E+08	-6.84E-17	6.58E-33	1.503	148	-127607.555	2.38E+08	-2.14E-15	2.12E-32	-0.757
52	95079.641	3.65E+08	-5.65E-17	7.44E-33	1.222	149	-127631.828	2.97E+08	-1.46E-15	2.12E-32	-0.692
53	96217.422	2.22E+08	-7.67E-17	6.63E-33	1.576	150	-127757.313	2.15E+08	-1.05E-16	1.25E-32	0.785
54	96356.961	3.83E+08	-7.06E-17	7.34E-33	1.505	151	-128843.523	5.56E+08	-6.95E-17	7.15E-33	1.460
55	98391.328	3.13E+08	-6.78E-17	6.82E-33	1.577	152	-129060.258	4.88E+08	-4.82E-17	7.39E-33	1.441
56	98535.852	1.99E+08	-7.14E-17	6.62E-33	1.606	153	-129284.469	1.92E+09	-1.10E-16	1.18E-32	0.877
57	98898.711	5.54E+08	-5.21E-17	8.07E-33	1.152	154	-129902.430	2.14E+09	-1.36E-15	1.33E-32	0.766
58	99635.523	5.73E+08	1.10E-16	7.62E-33	1.282	155	-130263.727	2.25E+09	-2.62E-15	1.29E-32	0.777
59	99808.398	6.33E+08	-1.86E-17	7.74E-33	1.292	156	-130600.727	2.08E+09	-1.07E-15	1.20E-32	0.893
60	102887.117	2.67E+08	-3.93E-15	2.12E-32	-0.828	157	-131684.469	2.37E+09	1.14E-16	1.36E-32	0.827
61	102942.203	2.66E+08	-3.74E-15	2.12E-32	-0.820	158	-131698.828	1.73E+08	3.30E-15	3.52E-32	0.571
62	103183.703	3.50E+08	-1.62E-16	6.90E-33	1.568	159	-132189.891	6.06E+08	2.85E-15	3.04E-32	0.613
63	103340.641	2.51E+08	-5.20E-15	2.12E-32	-0.870	160	-132619.250	1.24E+09	-6.42E-17	8.91E-33	1.240
64	103385.727	3.18E+08	-2.87E-15	2.12E-32	-0.748	161	-132710.563	3.68E+08	-3.44E-15	2.12E-32	-0.838
65	103676.781	2.59E+08	-5.29E-15	2.12E-32	-0.864	162	-132751.266	3.19E+08	-3.67E-15	2.12E-32	-0.842
66	103711.570	2.69E+08	-3.00E-15	2.12E-32	-0.759	163	-132838.078	1.92E+09	-9.13E-17	1.23E-32	0.949
67	103882.680	2.48E+08	-4.05E-15	2.12E-32	-0.829	164	-132884.734	3.47E+08	-3.25E-15	2.12E-32	-0.818
68	103969.758	2.16E+08	-3.95E-15	2.11E-32	-0.825	165	-132897.344	1.56E+08	-1.27E-15	2.11E-32	-0.634
69	104022.891	2.35E+08	-4.63E-15	2.11E-32	-0.847	166	-132919.453	2.13E+08	-1.17E-15	2.12E-32	-0.607
70	-104736.641	4.07E+07	-7.62E-17	6.33E-33	1.630	167	-132937.266	2.29E+08	-1.13E-15	2.12E-32	-0.595
71	105028.602	5.62E+08	6.40E-17	7.48E-33	1.468	168	-132950.281	2.30E+08	-1.11E-15	2.12E-32	-0.566
72	-105190.664	3.55E+07	1.42E-17	6.28E-33	1.608	169	-132964.578	3.93E+08	-2.41E-15	2.12E-32	-0.758
73	-105895.617	1.91E+08	-6.11E-17	6.30E-33	1.549	170	-133069.719	2.03E+08	-1.20E-15	2.12E-32	-0.615
74	-106786.750	4.11E+08	5.72E-17	7.36E-33	1.491	171	-133101.656	2.68E+08	-9.26E-16	2.12E-32	-0.522
75	106863.203	3.48E+08	-5.29E-17	6.52E-33	1.527	172	-135871.250	2.76E+08	-3.29E-15	2.12E-32	-0.816
76	107165.602	3.14E+08	2.48E-17	7.72E-33	1.504	173	-136095.250	5.41E+08	-7.44E-17	7.70E-33	1.433
77	107886.602	3.94E+08	5.29E-17	8.93E-33	1.428	174	-136132.375	2.08E+09	-1.15E-16	1.26E-32	0.871
78	108239.203	2.56E+08	3.64E-16	1.47E-32	1.197	175	-136594.219	2.59E+09	-2.70E-16	1.45E-32	0.707
79	108631.094	7.44E+08	9.20E-16	2.30E-32	0.781	176	-136931.234	6.84E+08	-1.69E-15	1.08E-32	1.416
80	108906.641	7.06E+08	8.39E-16	2.61E-32	0.575	177	-137320.578	5.63E+08	-7.67E-15	1.17E-32	1.393
81	108373.797	3.20E+08	-1.50E-17	9.31E-33	1.471	178	-138065.422	9.97E+07	2.05E-14	3.62E-32	0.845
82	-109466.453	3.10E+08	7.03E-16	2.58E-32	0.565	179	-138593.609	1.98E+08	1.85E-14	3.09E-32	0.836
83	-109602.539	2.18E+08	1.19E-15	2.59E-32	0.721	180	-138733.750	1.07E+09	-4.82E-15	1.94E-32	0.933
84	-109808.133	1.55E+08	1.72E-16	1.12E-32	1.418	181	-139122.047	2.00E+08	-1.62E-15	2.12E-32	-0.684
85	-110039.797	3.71E+08	1.09E-15	2.96E-32	0.508	182	-139129.594	2.04E+08	-1.56E-15	2.12E-32	-0.684
86	-110317.938	3.69E+08	8.91E-16	3.12E-32	0.425	183	-139178.453	1.63E+09	2.44E-14	2.06E-32	0.734
87	-110387.086	2.19E+08	4.06E-16	3.30E-32	0.362	184	-139459.828	5.22E+08	2.02E-14	2.71E-32	0.881
88	-110583.422	1.25E+08	2.93E-17	7.37E-33	1.574	185	-139889.625	3.35E+08	1.57E-14	3.17E-32	0.726
89	-111022.281	3.21E+08	1.99E-16	1.26E-32	1.279	186	-139971.844	4.86E+08	1.63E-14	3.04E-32	0.735
90	-111298.930	1.28E+08	9.46E-16	3.36E-32	0.343	187	-140045.234	6.13E+08	7.67E-15	2.83E-32	0.718
91	-111477.477	1.43E+08	1.02E-15	3.40E-32	0.305	188	-141896.031	1.22E+09	-7.85E-17	1.08E-32	1.215
92	-111732.352	7.89E+08	2.88E-16	2.03E-32	0.685	189	-142277.734	1.04E+09	-4.56E-17	1.07E-32	1.263
93	-111839.625	6.20E+08	4.36E-16	2.03E-32	0.763	190	-145354.828	2.31E+08	-8.35E-16	2.12E-32	-0.510
94	-112293.711	8.26E+08	1.42E-15	2.26E-32	0.680	191	-145435.594	1.66E+08	-8.74E-16	2.12E-32	-0.512
95	-112362.531	7.23E+08	9.52E-16	1.74E-32	0.961	192	-146181.906	2.75E+08	-4.03E-15	3.41E-32	0.747
96	-112568.391	9.43E+08	5.87E-17	1.02E-32	1.233	193	-146507.516	2.65E+08	2.03E-15	3.44E-32	0.677
97	-113099.336	9.96E+08	2.37E-17	1.05E-32	1.193	194	-151064.313	2.27E+09	-8.41E-17	1.26E-32	0.788
98	-113239.383	5.83E+08	-1.03E-16	8.34E-33	1.433	195	-151306.578	2.19E+08	-3.63E-16	2.12E-32	-0.290
99	-113513.125	4.07E+08	1.97E-16	1.09E-32	1.306	196	-151678.375	2.61E+08	-3.98E-16	2.12E-32	-0.308
100	-113842.711	4.56E+08	2.56E-15	1.21E-32	1.337	197	-151708.547	2.50E+08	-3.16E-16	2.12E-32	-0.266
101	-114136.414	4.48E+08	1.05E-15	2.73E-32	0.546	198	-151983.859	1.99E+08	-5.20E-16	2.12E-32	-0.373
102	-114142.633	1.36E+08	1.33E-15	3.18E-32	0.441	199	-152069.875	1.47E+08	-5.16E-16	2.11E-32	-0.363
103	-114614.945	2.11E+08	4.06E-16	1.68E-32	1.078	200	-152115.984	2.65E+08	-3.08E-16	2.12E-32	-0.249
104	-114729.383	2.30E+08	6.25E-16	2.49E-32	0.756	201	-152123.844	1.27E+08	-4.77E-16	2.12E-32	-0.339
105	-115036.016	7.34E+08	-1.23E-16	2.53E-32	0.586	202	-152226.813	1.23E+08	-4.35E-16	2.11E-32	-0.309
106	-115156.148	1.26E+08	2.03E-16	2.04E-32	0.646	203	-152262.969	1.29E+08	-4.31E-16	2.11E-32	-0.307
107	-115197.977	8.54E+08	5.42E-16	2.55E-32	0.428	204	-152695.641	1.29E+08	-4.15E-16	2.11E-32	-0.299
108	-115472.289	3.58E+08	-2.24E-16	1.19E-32	1.305	205	-152720.922	1.44E+08	-3.42E-16	2.12E-32	-0.252
109	-116002.453	7.71E+08	-5.19E-17	8.79E-33	1.328	206	-152838.813	6.67E+08	-2.14E-16	6.50E-33	1.504
110	-116670.789	5.72E+08	2.66E-15	1.00E-32	1.341	207	-158855.672	2.70E+09	-3.12E-16	1.22E-32	0.743
111	-117113.359	2.41E+09	6.45E-16	1.33E-32	0.794	208	-159140.266	3.08E+09	1.32E-14	1.34E-32	0.708
112	-117446.039	4.54E+08	-8.31E-17	7.50E-33	1.394	209	-159191.594	2.83E+08	-1.07E-16	2.12E-32	-0.338
113	-118004.242	4.86E+08	2.30E-18	7.66E-33	1.349	210	-159214.172	2.13E+08	-4.12E-16	2.12E-32	-0.354
114	-118287.016	5.44E+08	4.92E-17	8.58E-33	1.355	211	-160108.078	1.84E+08	-6.08E-17	6.27E-33	1.558
115	-118495.547	1.24E+09	2.75E-16	1.20E-32	1.072	212	-161660.875	6.06E+08	-6.51E-17	6.36E-33	1.490
116	-118615.273	4.51E+08	1.34E-16	8.43E-33	1.443	213	-164994.125	2.17E+08	-2.45E-15	3.52E-32	1.082
117	-118641.742	7.21E+08	4.57E-16	1.15E-32	1.233	214	-165107.141	6.29E+08	-7.51E-17	6.46E-33	1.497
118	-118959.664	6.13E+08	4.24E-17	1.27E-32	1.176	215	-177589.844	1.97E+08	-1.91E-17	2.12E-32	-0.018
119	-119650.703	1.93E+08	-1.24E-15	3.18E-32	0.371	216	-177640.938	3.03E+08	4.76E-17	2.12E-32	0.016
120	-119734.219	1.85E+08	-1.46E-15	3.27E-32	0.269	217	-181619.953	2.30E+09	-9.79E-17	1.19E-32	0.825
121	-119984.297	4.44E+08	1.50E-15	3.19E-32	0.405	218	-198089.750	1.81E+08	3.00E-16	2.12E-32	0.227
122	-120323.336	2.19E+08	2.47E-15	3.32E-32	0.467						
123	-120418.961	2.79E+08	1.86E-15	3.13E-32	0.502						
124	-122261.875	2.58E+08	-5.13E-15	2.11E-32	-0.887						
125	-122272.961	2.13E+08	-4.73E-17	6.95E-33	1.474						
126	-12										

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F			
18	72130.391	3.78E+08	-5.66E-17	8.13E-33	1.076	115	-127446.750	2.73E+08	-1.68E-15	2.12E-32	-0.724	
19	72650.656	3.73E+08	-5.68E-17	7.78E-33	1.077	116	-127538.445	3.25E+09	-6.11E-18	1.27E-32	0.571	
20	73091.594	5.08E+08	-7.21E-17	8.32E-33	1.041	117	-127594.469	2.04E+08	-2.36E-15	2.11E-32	-0.774	
21	73751.281	5.80E+08	-5.55E-17	8.53E-33	1.049	118	-127620.445	2.74E+08	-1.61E-15	2.12E-32	-0.703	
22	83871.188	4.02E+08	-4.91E-17	8.08E-33	1.163	119	-129085.141	2.07E+09	-1.60E-16	1.21E-32	0.828	
23	-85096.297	1.43E+06	-6.20E-17	6.20E-33	1.638	120	-129208.391	8.78E+08	-5.73E-17	8.77E-33	1.270	
24	-86259.453	6.16E+05	-6.39E-17	6.20E-33	1.607	121	-129327.172	1.45E+09	-3.77E-16	1.04E-32	1.055	
25	87471.766	4.46E+08	3.53E-16	1.15E-32	1.341	122	-130591.531	2.02E+09	-1.91E-17	1.17E-32	0.918	
26	88614.523	7.10E+07	6.91E-16	2.26E-32	0.861	123	-131930.406	1.58E+08	3.02E-15	3.53E-32	0.535	
27	88723.398	2.52E+07	4.73E-16	1.85E-32	1.038	124	-132511.203	2.66E+09	-4.26E-17	1.24E-32	0.739	
28	90042.781	3.20E+08	-4.95E-17	7.75E-33	1.188	125	-132681.063	3.49E+08	-3.87E-15	2.12E-32	-0.850	
29	90386.531	1.03E+08	1.10E-15	3.45E-32	0.202	126	-132708.203	3.52E+08	-3.59E-15	2.12E-32	-0.847	
30	90067.344	1.25E+08	1.03E-15	3.28E-32	0.280	127	-132867.313	2.53E+09	-8.29E-17	1.25E-32	0.758	
31	92171.719	4.64E+08	-5.07E-17	7.87E-33	1.241	128	-132907.953	1.73E+08	-1.25E-15	2.11E-32	-0.622	
32	92116.781	1.48E+08	-6.55E-17	6.57E-33	1.581	129	-132930.594	2.32E+08	-1.11E-15	2.12E-32	-0.563	
33	92300.273	8.67E+07	-6.35E-17	6.26E-33	1.591	130	-132937.313	1.87E+08	-1.21E-15	2.11E-32	-0.614	
34	92426.977	4.01E+08	-5.76E-17	7.37E-33	1.375	131	-132961.813	3.93E+08	-2.55E-15	2.12E-32	-0.783	
35	93484.578	4.28E+08	-5.66E-17	7.68E-33	1.255	132	-133038.250	3.75E+08	-2.37E-15	2.12E-32	-0.773	
36	94057.773	5.23E+08	-6.96E-17	7.89E-33	1.378	133	-133073.422	1.82E+08	-1.21E-15	2.11E-32	-0.616	
37	94148.508	3.31E+08	-7.09E-17	6.81E-33	1.551	134	-133082.906	1.93E+08	-1.06E-15	2.12E-32	-0.568	
38	96239.203	1.81E+08	-7.32E-17	6.58E-33	1.618	135	-135714.688	2.16E+09	-1.14E-16	1.23E-32	0.806	
39	97851.352	3.52E+08	-5.03E-17	7.81E-33	1.183	136	-136203.813	1.27E+08	-7.80E-17	6.41E-33	1.582	
40	98596.648	1.92E+08	-7.63E-17	6.60E-33	1.604	137	-136439.422	2.26E+09	-1.68E-16	1.31E-32	0.805	
41	99653.219	5.65E+08	-3.76E-17	7.70E-33	1.209	138	-136787.781	7.44E+08	-9.55E-16	1.10E-32	1.406	
42	99757.117	6.42E+08	-3.80E-17	7.60E-33	1.365	139	-137371.422	5.07E+08	-1.15E-14	1.14E-32	1.406	
43	102851.359	2.66E+08	-4.42E-15	2.12E-32	-0.863	140	-138674.016	1.15E+08	1.24E-14	3.18E-32	0.834	
44	102882.367	2.98E+08	-3.24E-15	2.12E-32	-0.794	141	-138750.797	9.87E+08	-7.35E-15	2.15E-32	0.914	
45	102951.500	1.80E+08	-1.41E-16	6.61E-33	1.591	142	-138987.203	2.47E+08	-1.55E-15	2.12E-32	-0.708	
46	103326.406	2.49E+08	-5.19E-15	2.11E-32	-0.882	143	-139133.828	2.08E+08	-1.76E-15	2.12E-32	-0.681	
47	103352.680	2.99E+08	-3.09E-15	2.12E-32	-0.778	144	-139522.672	6.88E+08	1.04E-14	2.31E-32	0.932	
48	103680.641	2.31E+08	-5.00E-15	2.11E-32	-0.871	145	-139885.188	3.63E+08	1.80E-14	3.12E-32	0.684	
49	103701.719	2.56E+08	-3.87E-15	2.12E-32	-0.823	146	-140610.531	6.43E+08	-3.26E-17	6.97E-33	1.497	
50	103873.992	2.34E+08	-4.66E-15	2.11E-32	-0.840	147	-142000.000	1.19E+09	-1.33E-16	1.16E-32	1.233	
51	104937.797	5.64E+08	6.65E-17	7.50E-33	1.468	148	-145406.297	1.36E+08	-9.32E-16	2.11E-32	-0.530	
52	-105119.016	2.50E+07	-6.32E-17	6.27E-33	1.603	149	-145436.016	1.57E+08	-8.83E-16	2.12E-32	-0.516	
53	-105386.328	4.16E+07	-6.12E-17	6.33E-33	1.629	150	-145842.906	6.62E+07	4.33E-14	3.61E-32	0.725	
54	-105943.180	1.88E+08	-6.19E-17	6.27E-33	1.559	151	-146509.766	2.69E+08	2.42E-15	3.43E-32	0.674	
55	-107044.367	4.20E+08	-6.32E-17	6.34E-33	1.505	152	-151693.469	1.37E+08	-4.51E-16	2.12E-32	-0.336	
56	107006.352	3.65E+08	-3.42E-16	7.12E-33	1.572	153	-151886.141	1.03E+08	-5.78E-16	2.11E-32	-0.405	
57	-107386.570	2.68E+08	-4.81E-17	6.92E-33	1.533	154	-152073.188	1.50E+08	-5.24E-16	2.11E-32	-0.370	
58	107964.703	2.97E+08	-5.94E-17	7.19E-33	1.512	155	-152128.594	1.10E+08	-4.58E-16	2.11E-32	-0.324	
59	108570.563	6.69E+08	1.00E-15	2.52E-32	0.695	156	-152134.188	2.09E+08	-3.99E-16	2.12E-32	-0.304	
60	108868.977	6.88E+08	7.73E-16	2.59E-32	0.590	157	-152188.328	1.12E+08	-4.70E-16	2.11E-32	-0.333	
61	-109382.672	3.41E+08	3.64E-15	9.19E-33	1.431	158	-152264.750	1.32E+08	-4.43E-16	2.11E-32	-0.313	
62	-109515.625	2.02E+08	1.05E-15	2.87E-32	0.583	159	-152660.594	1.58E+08	-3.58E-16	2.12E-32	-0.265	
63	-109675.461	8.34E+07	1.25E-15	3.46E-32	0.239	160	-152715.219	9.96E+07	-4.15E-16	2.11E-32	-0.297	
64	-110018.000	4.36E+08	1.15E-15	3.06E-32	0.452	161	-157703.609	1.96E+09	-9.28E-17	1.18E-32	0.873	
65	-110059.445	1.35E+08	7.54E-16	3.21E-32	0.425	162	-159011.063	2.67E+09	6.14E-16	1.12E-32	0.746	
66	-110342.328	1.81E+08	2.37E-16	9.90E-33	1.472	163	-159214.750	2.09E+08	-3.23E-16	2.12E-32	-0.356	
67	-110890.930	1.49E+08	1.57E-15	3.52E-32	0.214	164	-159227.000	1.59E+08	-4.64E-16	2.12E-32	-0.370	
68	-111019.047	3.67E+08	5.20E-17	1.22E-32	1.290	165	-160371.625	1.58E+08	-6.49E-17	6.24E-33	1.557	
69	-111178.750	1.18E+08	1.24E-15	3.39E-32	0.318	166	-177592.453	1.92E+08	-2.02E-17	2.12E-32	-0.019	
70	-111297.813	1.68E+08	-1.03E-19	8.51E-33	1.463	167	-177852.891	7.01E+07	1.51E-18	2.11E-32	0.011	
71	-111699.648	4.49E+08	5.01E-16	2.20E-32	0.725							
72	-111844.547	9.17E+08	1.46E-16	1.60E-32	0.864	J= 5.5	1	41968.047	3.82E+08	-5.88E-17	7.91E-33	1.060
73	-112141.578	9.32E+08	1.18E-15	2.22E-32	0.678	2	60625.449	4.29E+08	-5.12E-17	8.16E-33	1.133	
74	-112263.844	5.68E+08	1.11E-15	1.85E-32	0.969	3	60887.598	3.10E+08	-5.37E-17	7.90E-33	1.118	
75	-112634.070	1.30E+09	2.13E-17	1.02E-32	1.175	4	61587.215	3.21E+08	-5.50E-17	7.90E-33	1.102	
76	-113267.750	3.52E+08	-2.78E-16	1.21E-32	1.277	5	62662.242	2.72E+08	-5.46E-17	8.04E-33	1.137	
77	-113818.734	6.07E+08	4.12E-16	2.13E-32	0.837	6	63876.316	4.45E+08	-5.71E-17	7.97E-33	1.051	
78	-113991.359	1.20E+08	1.42E-15	3.39E-32	0.349	7	65580.039	3.66E+08	-5.48E-17	8.01E-33	1.097	
79	-114152.719	4.58E+08	9.20E-16	1.86E-32	0.986	8	65363.594	3.39E+08	-5.15E-17	8.12E-33	1.141	
80	-114330.430	1.05E+08	1.44E-15	3.16E-32	0.499	9	66463.531	3.62E+08	-5.85E-17	7.92E-33	1.071	
81	-114624.547	1.90E+08	6.28E-16	2.35E-32	0.801	10	67516.328	3.17E+08	-7.00E-17	7.90E-33	1.087	
82	-114709.250	2.76E+08	2.95E-16	1.65E-32	1.095	11	72261.727	4.01E+08	-5.65E-17	8.17E-33	1.075	
83	-115118.000	8.75E+08	5.21E-16	2.54E-32	0.423	12	73603.500	5.33E+08	-5.58E-17	8.39E-33	1.047	
84	-115368.578	4.18E+08	-6.79E-17	9.80E-33	1.387	13	73969.766	4.13E+08	-5.77E-17	7.95E-33	1.041	
85	-115955.445	7.74E+08	-6.87E-17	8.52E-33	1.341	14	-85145.195	1.44E+06	-6.23E-17	6.20E-33	1.637	
86	-116662.219	5.96E+08	-2.23E-17	1.03E-32	1.362	15	-86389.094	7.95E+05	-6.39E-17	6.20E-33	1.605	
87	-116756.320	6.23E+08	2.16E-15	1.02E-32	1.325	16	87340.984	4.77E+08	3.49E-16	1.17E-32	1.326	
88	-118161.570	6.59E+08	-2.80E-18	8.31E-33	1.394	17	90211.703	2.81E+08	1.33E-16	1.32E-32	0.961	
89	-118225.648	2.43E+08	-3.48E-17	7.17E-33	1.508	18	89924.172	1.99E+08	5.97E-16	2.58E-32	0.489	
90	-118391.664	1.32E+09	1.13E-16	1.11E-32	1.093	19	92166.602	1.17E+08	-6.74E-17	6.43E-33	1.615	
91	-118638.656	3.33E+08	-6.88E-17	7.06E-33	1.446	20	92432.133	8.24E+07	-6.38E-17	6.25E-33	1.589	
92	-119421.461	9.59E+07	1.15E-15	3.51E-32	0.173	21	94189.883	3.31E+08	-7.12E-17	6.81E-33	1.551	
93	-119691.750	1.44E+08	1.48E-15	3.41E-32	0.204	22	96062.063	1.86E+08	-7.35E-17	6.59E-33	1.621	
94	-120097.180	3.66E+08	1.55E-15	3.27E-32	0.390	23	98278.773	3.53E+08	-5.13E-17	7.80E-33	1.170	
95	-120133.734	1.77E+08	1.54E-15	3.44E-32	0.238	24	102340.297	2.40E+07	-6.89E-17	6.25E-33	1.632	
96	-122250.570	2.45E+08	-4.24E-15	2.11E-32	-0.854	25	102831.320	2.50E+08	-4.97E-15	2.11E-32	-0.903	
97	-122266.891	2.73E+08	-4.92E-15	2.12E-32	-0.880	26	102893.383	3.58E+08	-2.43E-15	2.12E-32	-0.732	
98	-122339.609	1.97E+08	-6.21E-17	6.92E-33	1.481	27	102980.297	1.60E+08	-1.43E-16	6.57E-33	1.595	
99	-122853.047	3.60E+08	-3.52E-15	2.12E-32	-0.820	28	103325.953	2.48E+08	-5.15E-15	2.11E-32	-0.884	
100	-122902.438	3.22E+08	-2.92E-15	2.12E-32	-0.772	29	103420.156	2.38E+08	-3.31E-15	2.12E-32	-0.804	
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LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F			
44	-111027.227	4.89E+08	-1.63E-15	1.34E-32	1.222	31	-122927.875	2.87E+08	-3.10E-15	2.12E-32	-0.777	
45	-111423.391	3.40E+08	4.56E-17	1.09E-32	1.281	32	-123087.883	2.27E+08	-3.93E-15	2.11E-32	-0.848	
46	-111642.945	3.38E+08	4.26E-16	2.10E-32	0.779	33	-123116.195	2.62E+08	-3.61E-15	2.12E-32	-0.813	
47	-111909.680	8.69E+08	7.73E-17	1.46E-32	0.942	34	-123210.586	2.26E+08	-4.22E-15	2.11E-32	-0.861	
48	-112145.313	5.03E+08	1.05E-15	1.93E-32	0.952	35	-123252.422	2.23E+08	-3.67E-15	2.11E-32	-0.831	
49	-113668.359	6.52E+07	1.43E-15	3.54E-32	0.340	36	-123832.281	1.55E+09	-9.64E-17	1.20E-32	0.915	
50	-114126.664	7.73E+07	1.44E-15	3.36E-32	0.380	37	-124099.117	2.25E+08	-4.07E-15	2.11E-32	-0.853	
51	-114606.469	2.21E+08	6.86E-16	8.88E-33	1.429	38	-124136.055	2.14E+08	-3.29E-15	2.11E-32	-0.815	
52	-114904.383	9.13E+08	4.82E-16	2.46E-32	0.444	39	-124377.516	2.19E+08	4.08E-15	2.11E-32	-0.836	
53	-115052.727	-2.61E+08	2.14E-17	7.60E-33	1.505	40	-126227.719	2.38E+09	-5.94E-17	1.33E-32	0.646	
54	-115702.914	8.63E+08	-4.45E-17	8.09E-33	1.337	41	-127032.664	2.00E+08	-2.27E-15	2.11E-32	-0.771	
55	-116710.352	6.45E+08	-1.74E-16	1.03E-32	1.349	42	-127042.844	2.41E+08	-1.62E-15	2.12E-32	-0.713	
56	-118415.094	1.13E+08	-5.80E-17	6.60E-33	1.541	43	-127425.891	2.17E+08	-2.15E-15	2.12E-32	-0.755	
57	-118738.383	1.80E+08	-7.02E-17	6.45E-33	1.513	44	-127436.352	1.91E+08	-2.18E-15	2.11E-32	-0.758	
58	-119544.383	9.99E+07	1.12E-15	3.52E-32	0.146	45	-127629.328	1.85E+08	-2.14E-15	2.11E-32	-0.748	
59	-119813.672	1.72E+08	1.43E-15	3.48E-32	0.234	46	-132693.219	2.38E+08	-5.61E-15	2.11E-32	-0.891	
60	-120027.742	1.82E+08	1.65E-15	3.41E-32	0.263	47	-132748.453	2.33E+08	-5.40E-15	2.11E-32	-0.885	
61	-122263.180	3.17E+08	-4.50E-15	2.12E-32	-0.865	48	-132758.266	1.71E+09	-9.18E-17	1.18E-32	0.899	
62	-122876.133	2.62E+08	-3.92E-15	2.12E-32	-0.850	49	-133043.500	1.55E+08	-1.29E-15	2.11E-32	-0.637	
63	-122930.453	3.19E+08	-2.93E-15	2.12E-32	-0.763	50	-133088.734	2.87E+08	-2.88E-15	2.12E-32	-0.802	
64	-123117.727	2.59E+08	-3.78E-15	2.12E-32	-0.827	51	-133094.484	2.11E+08	-3.61E-15	2.11E-32	-0.831	
65	-123120.727	3.03E+08	-3.34E-15	2.12E-32	-0.789	52	-133608.094	6.58E+07	-6.48E-17	6.21E-33	1.590	
66	-123248.422	2.28E+08	-4.21E-15	2.11E-32	-0.863	53	-145190.375	2.13E+08	-9.62E-16	2.12E-32	-0.559	
67	-123283.461	3.26E+08	-2.85E-15	2.12E-32	-0.746	54	-151942.438	1.82E+08	-5.08E-16	2.12E-32	-0.367	
68	-124099.438	2.79E+08	-3.88E-15	2.12E-32	-0.833	55	-151979.078	2.23E+08	-4.54E-16	2.12E-32	-0.348	
69	-124122.867	3.15E+08	-3.07E-15	2.12E-32	-0.774	56	-152170.109	9.12E+07	-5.18E-16	2.11E-32	-0.361	
70	-124344.344	2.62E+08	-4.01E-15	2.12E-32	-0.821	57	-159146.031	1.01E+08	-5.81E-16	2.11E-32	-0.400	
71	-124377.672	2.32E+08	-3.42E-15	2.11E-32	-0.820	58	-159213.031	1.96E+08	-4.05E-16	2.12E-32	-0.369	
72	-124546.023	2.24E+08	-3.25E-15	2.11E-32	-0.819							
73	-126122.508	2.39E+09	4.75E-18	1.33E-32	0.644	J= 7.5	1	61347.613	3.42E+08	-5.63E-17	8.00E-33	1.090
74	-127040.875	2.46E+08	-1.86E-15	2.12E-32	-0.753	2	71432.680	3.05E+08	-5.43E-17	8.02E-33	1.111	
75	-127056.680	2.78E+08	-1.04E-15	2.12E-32	-0.696	3	-86637.156	9.95E+03	-6.45E-17	6.19E-33	1.599	
76	-127429.742	2.35E+08	-2.02E-15	2.12E-32	-0.740	4	102851.203	4.67E+07	-9.25E-17	6.30E-33	1.616	
77	-127437.305	2.30E+08	-1.96E-15	2.12E-32	-0.747	5	103040.320	2.28E+08	-4.32E-15	2.11E-32	-0.868	
78	-127582.563	3.24E+09	-5.35E-17	1.28E-32	0.571	6	103232.102	1.41E+08	-2.77E-16	6.55E-33	1.592	
79	-127609.023	2.45E+08	-1.84E-15	2.12E-32	-0.722	7	106524.398	7.86E+07	-7.32E-17	6.36E-33	1.624	
80	-127626.156	1.95E+08	-2.34E-15	2.11E-32	-0.772	8	-109443.672	5.05E+07	1.16E-15	3.60E-32	0.138	
81	-129225.547	1.95E+09	-1.64E-16	1.19E-32	0.863	9	-111973.570	7.44E+07	-6.34E-17	6.33E-33	1.592	
82	-132451.984	1.85E+09	-6.83E-17	1.19E-32	0.870	10	-119510.945	5.48E+07	1.20E-15	3.61E-32	0.167	
83	-132678.969	3.33E+08	-4.11E-15	2.12E-32	-0.861	11	-122878.641	2.15E+08	-3.65E-15	2.11E-32	-0.837	
84	-132691.172	2.42E+08	-5.54E-15	2.11E-32	-0.889	12	-122901.953	2.28E+08	-4.12E-15	2.11E-32	-0.864	
85	-132926.453	1.83E+08	-1.23E-15	2.11E-32	-0.616	13	-123053.609	2.22E+08	-3.98E-15	2.11E-32	-0.852	
86	-133034.797	3.48E+08	-2.40E-15	2.12E-32	-0.776	14	-123087.922	2.22E+08	-4.00E-15	2.11E-32	-0.853	
87	-133057.219	2.46E+08	-1.17E-15	2.12E-32	-0.581	15	-123213.523	2.20E+08	-3.97E-15	2.11E-32	-0.850	
88	-133074.844	2.03E+08	-1.21E-15	2.12E-32	-0.609	16	-123916.242	1.54E+09	-9.63E-17	1.20E-32	0.918	
89	-133089.453	2.92E+08	-2.85E-15	2.12E-32	-0.798	17	-124137.508	2.19E+08	-3.54E-15	2.11E-32	-0.844	
90	-133144.391	2.16E+09	-1.22E-16	1.22E-32	0.815	18	-127027.734	1.97E+08	-2.30E-15	2.11E-32	-0.774	
91	-135876.516	2.08E+09	-1.23E-16	1.19E-32	0.823	19	-127049.648	1.83E+08	-2.03E-15	2.11E-32	-0.740	
92	-136367.766	9.81E+07	-7.76E-17	6.31E-33	1.588	20	-127439.211	1.91E+08	-2.25E-15	2.11E-32	-0.764	
93	-137420.922	4.66E+08	-8.53E-14	1.11E-32	1.416	21	-132751.609	2.33E+08	-5.42E-15	2.11E-32	-0.885	
94	-138719.641	1.13E+08	1.09E-14	3.16E-32	0.830	22	-133025.438	2.18E+08	-3.86E-15	2.11E-32	-0.845	
95	-138987.141	2.27E+08	-1.65E-15	2.12E-32	-0.716	23	-133096.156	2.11E+08	-3.61E-15	2.11E-32	-0.831	
96	-140997.547	5.88E+08	-6.77E-17	6.62E-33	1.517	24	-151929.891	1.02E+08	-5.78E-16	2.11E-32	-0.404	
97	-145184.031	1.93E+08	-9.84E-16	2.12E-32	-0.566	25	-159149.203	1.00E+08	-5.82E-16	2.11E-32	-0.400	
98	-145409.688	1.40E+08	-9.30E-16	2.11E-32	-0.529							
99	-145989.188	6.40E+07	1.20E-14	3.61E-32	0.700	J= 8.5	1	-103179.859	0.00E+00	-6.37E-17	6.19E-33	1.619
100	-151903.156	1.83E+08	-5.01E-16	2.12E-32	-0.365	2	-122815.602	2.22E+08	-3.84E-15	2.11E-32	-0.852	
101	-151979.547	2.32E+08	-4.70E-16	2.12E-32	-0.347	3	-122881.242	2.28E+08	-4.17E-15	2.11E-32	-0.865	
102	-152121.484	1.46E+08	-5.13E-16	2.11E-32	-0.365	4	-123056.797	2.26E+08	-4.19E-15	2.11E-32	-0.862	
103	-152171.719	1.15E+08	-4.51E-16	2.11E-32	-0.319	5	-127052.797	1.95E+08	-2.26E-15	2.11E-32	-0.770	
104	-152189.828	1.05E+08	-4.76E-16	2.11E-32	-0.336	6	-132899.984	2.32E+08	-4.36E-15	2.11E-32	-0.875	
105	-152652.047	9.76E+07	-4.47E-16	2.11E-32	-0.316	7	-133027.953	2.18E+08	-3.87E-15	2.11E-32	-0.846	
106	-157626.578	1.96E+09	-9.55E-17	1.18E-32	0.875							
107	-159211.594	2.06E+08	-3.94E-16	2.12E-32	-0.366	J= 9.5	1	-122818.789	2.33E+08	-4.35E-15	2.11E-32	-0.875
108	-159228.281	1.53E+08	-4.65E-16	2.12E-32	-0.371	2	-132903.172	2.32E+08	-4.37E-15	2.11E-32	-0.875	
109	-177856.063	6.84E+07	1.12E-18	2.11E-32	0.010							
J= 6.5	1	60837.570	3.09E+08	-5.40E-17	7.90E-33	1.117						
	2	61527.617	3.22E+08	-5.53E-17	7.90E-33	1.099						
	3	62293.164	2.72E+08	-5.44E-17	8.04E-33	1.138						
	4	66411.688	3.65E+08	-5.80E-17	7.90E-33	1.066						
	5	70986.680	2.95E+08	-5.31E-17	8.02E-33	1.126						
	6	73966.828	4.04E+08	-5.79E-17	7.92E-33	1.040						
	7	-85217.414	5.79E+04	-6.31E-17	6.19E-33	1.636						
	8	-86519.289	1.22E+05	-6.44E-17	6.19E-33	1.602						
	9	92250.211	1.22E+08	-6.80E-17	6.45E-33	1.611						
	10	102489.898	3.85E+07	-7.58E-17	6.28E-33	1.626						
	11	102840.250	2.50E+08	-4.92E-15	2.11E-32	-0.902						
	12	103019.672	2.00E+08	-3.26E-15	2.11E-32	-0.808						
	13	103120.898	1.50E+08	-1.79E-16	6.56E-33	1.593						
	14	103421.180	2.25E+08	-4.75E-15	2.11E-32	-0.867						
	15	104659.258	6.03E+08	1.15E-16	7.62E-33	1.464						
	16	-105471.836	5.06E+06	-6.38E-17	6.21E-33	1.589						
	17	106183.102	7.69E+07	-7.31E-17	6.36E-33	1.635						
	18	108729.156	5.14E+08	7.98E-16	2.83E-32	0.504						
	19	109149.680	3.73E+08	9.51E-16	1.38E-32	1.203						
	20	-109459.273	1.62E+08	1.02E-15	3.13E-32	0.368						
	21	-109730.258	1.32E+08	1.15E-15	2.85E-32	0.530						
	22	-110066.742	4.05E+08	2.69E-16	1.56E-32	1.072						
	23	-111577.180	5.42E+08	-8.79E-19	1.10E-32	1.213						
	24	-111959.750	6.14E+08	-1.91E-17	1.07E-32	1.217						
	25	-113701.781	5.03E+07	1.37E-15	3.51E-32	0.286						
	26	-114642.086	2.36E+08	3.65E-16	7.58E-33	1.481						
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Table 7. Selected lines sorted by wavelength.

The complete transition array has been sorted by wavelength and edited down to 431,933 lines, which are available on magnetic tape from the author. An unedited output listing of the complete transition array is also available from the author. Lines with the following properties have been omitted: a) $\log gf$ less than -9.99 ; b) $\log gf$ less than -5.00 when the lower energy is greater than $30,000 \text{ cm}^{-1}$; c) lower energy level greater than the ionization energy; and d) wavelength greater than 9999.9999 nm . The 22,547 lines between observed energy levels are listed here. Vacuum wavelengths are given below 200 nm , air above.

WL(NM)	LOGGF	EVEN	J	LABEL	ODD	E	J	LABEL	WL(NM)	LOGGF	EVEN	E	J	LABEL	ODD	E	J	LABEL
89.5706	-5.981	384.790	3.5	D6S	(5D)6D	111929.000	2.5	290DD	93.6693	-4.276	1872.567	4.5	D7	(5D)4F	108631.090	3.5	4SP(3G)4G	
89.8785	-6.002	667.683	2.5	D6S	(5D)6D	111929.000	2.5	290DD	93.7225	-2.813	1872.567	4.5	D7	(5D)4F	108570.560	4.5	4SP(3G)4G	
90.0362	-6.974	862.613	1.5	D6S	(5D)6D	111929.000	2.5	290DD	93.7293	-4.332	0.000	4.5	D6S	(5D)6D	106690.170	5.5	4SP(3I)2H	
91.3251	-4.660	2430.097	3.5	D7	(5D)4F	111929.000	2.5	290DD	93.7536	-3.696	3117.461	1.5	D7	(5D)4F	109780.350	1.5	280DD	
91.5150	-5.090	0.000	4.5	D6S	(5D)6D	109271.710	5.5	4SP(3I)2I	93.7897	-4.777	384.790	3.5	D6S	(5D)6D	107006.350	4.5	4SP(3I)2H	
91.6487	-4.971	667.683	2.5	D6S	(5D)6D	109780.000	1.5	280DD	93.7987	-1.549	1872.567	4.5	D7	(5D)4F	108483.870	5.5	4SP(3G)4G	
91.6665	-3.803	2837.950	2.5	D7	(5D)4F	111929.000	2.5	290DD	93.8716	-1.228	667.683	2.5	D6S	(5D)6D	107196.200	2.5	180DD	
91.8127	-5.112	862.613	1.5	D6S	(5D)6D	109780.000	1.5	280DD	93.8956	-5.314	1872.567	4.5	D7	(5D)4F	108373.800	3.5	260DD	
91.8218	-6.557	0.000	4.5	D6S	(5D)6D	108906.640	3.5	4SP(3G)4H	93.8986	-1.953	667.683	2.5	D6S	(5D)6D	107165.600	3.5	160DD	
91.8535	-5.232	0.000	4.5	D6S	(5D)6D	108868.980	4.5	4SP(3G)4H	93.9158	-0.741	384.790	3.5	D6S	(5D)6D	106863.200	3.5	160DD	
91.9020	-3.028	3117.461	1.5	D7	(5D)4F	111929.000	2.5	290DD	93.9174	-3.452	2430.097	3.5	D7	(5D)4F	108906.640	3.5	4SP(3G)4H	
91.9039	-4.795	0.000	4.5	D6S	(5D)6D	108809.310	5.5	4SP(3G)4H	93.9506	-2.416	2430.097	3.5	D7	(5D)4F	108868.980	4.5	4SP(3G)4H	
91.9093	-4.997	977.053	0.5	D6S	(5D)6D	109780.000	1.5	280DD	94.0144	-2.192	1872.567	4.5	D7	(5D)4F	108239.200	3.5	240DD	
92.0547	-6.032	0.000	4.5	D6S	(5D)6D	108631.090	3.5	4SP(3G)4G	94.0437	-1.297	862.613	1.5	D6S	(5D)6D	107196.200	2.5	180DD	
92.1060	-4.945	0.000	4.5	D6S	(5D)6D	108570.560	4.5	4SP(3G)4G	94.1611	-2.818	2430.097	3.5	D7	(5D)4F	108631.090	3.5	4SP(3G)4G	
92.1473	-5.877	384.790	3.5	D6S	(5D)6D	108906.640	3.5	4SP(3G)4H	94.1627	-5.033	2430.097	3.5	D7	(5D)4F	108629.250	2.5	4SP(3G)4G	
92.1793	-5.750	384.790	3.5	D6S	(5D)6D	108868.980	4.5	4SP(3G)4H	94.1659	-1.291	667.683	2.5	D6S	(5D)6D	106863.200	3.5	160DD	
92.1796	-5.335	0.000	4.5	D6S	(5D)6D	108483.870	5.5	4SP(3G)4G	94.2148	-1.816	2430.097	3.5	D7	(5D)4F	108570.560	4.5	4SP(3G)4G	
92.2732	-9.789	0.000	4.5	D6S	(5D)6D	108373.800	3.5	260DD	94.2577	-3.346	1872.567	4.5	D7	(5D)4F	107964.700	4.5	210DD	
92.3819	-5.935	384.790	3.5	D6S	(5D)6D	108631.090	3.5	4SP(3G)4G	94.2785	-2.925	2837.950	2.5	D7	(5D)4F	108906.640	3.5	4SP(3G)4H	
92.3835	-5.995	384.790	3.5	D6S	(5D)6D	108629.250	2.5	4SP(3G)4G	94.3271	-2.898	1872.567	4.5	D7	(5D)4F	107886.600	3.5	200DD	
92.3880	-2.770	0.000	4.5	D6S	(5D)6D	108239.200	3.5	240DD	94.3898	-3.725	2430.097	3.5	D7	(5D)4F	108373.800	3.5	260DD	
92.3882	-7.551	667.683	2.5	D6S	(5D)6D	108906.640	3.5	4SP(3G)4H	94.3912	-2.949	2837.950	2.5	D7	(5D)4F	108780.000	1.5	270DD	
92.4336	-5.383	384.790	3.5	D6S	(5D)6D	108570.560	4.5	4SP(3G)4G	94.5098	-2.883	2430.097	3.5	D7	(5D)4F	108239.200	3.5	240DD	
92.4964	-2.749	667.683	2.5	D6S	(5D)6D	108780.000	1.5	270DD	94.5241	-2.104	2837.950	2.5	D7	(5D)4F	108631.090	3.5	4SP(3G)4G	
92.6020	-5.930	384.790	3.5	D6S	(5D)6D	108373.800	3.5	260DD	94.5257	-2.878	2837.950	2.5	D7	(5D)4F	108629.250	2.5	4SP(3G)4G	
92.6229	-5.717	0.000	4.5	D6S	(5D)6D	107964.700	4.5	210DD	94.6069	-2.708	2430.097	3.5	D7	(5D)4F	108130.600	2.5	220DD	
92.6240	-4.994	667.683	2.5	D6S	(5D)6D	108631.090	3.5	4SP(3G)4G	94.6409	-3.212	3117.461	1.5	D7	(5D)4F	108780.000	1.5	270DD	
92.6256	-5.675	667.683	2.5	D6S	(5D)6D	108629.250	2.5	4SP(3G)4G	94.7545	-3.302	2837.950	2.5	D7	(5D)4F	108373.800	3.5	260DD	
92.6635	-3.968	862.613	1.5	D6S	(5D)6D	108780.000	1.5	270DD	94.7557	-5.851	2430.097	3.5	D7	(5D)4F	107964.700	4.5	210DD	
92.6899	-3.612	0.000	4.5	D6S	(5D)6D	107886.600	3.5	200DD	94.7564	-3.297	2837.950	2.5	D7	(5D)4F	108371.700	1.5	250DD	
92.7176	-2.347	384.790	3.5	D6S	(5D)6D	108239.200	3.5	240DD	94.7761	-2.165	3117.461	1.5	D7	(5D)4F	108629.250	2.5	4SP(3G)4G	
92.7618	-2.915	977.053	0.5	D6S	(5D)6D	108780.000	1.5	270DD	94.8258	-4.100	2430.097	3.5	D7	(5D)4F	107886.600	3.5	200DD	
92.7931	-6.937	862.613	1.5	D6S	(5D)6D	108629.250	2.5	4SP(3G)4G	94.8755	-4.037	2837.950	2.5	D7	(5D)4F	108239.200	3.5	240DD	
92.8110	-2.774	384.790	3.5	D6S	(5D)6D	108130.600	2.5	220DD	94.9184	-3.831	2837.950	2.5	D7	(5D)4F	108191.600	1.5	230DD	
92.8452	-5.137	667.683	2.5	D6S	(5D)6D	108373.800	3.5	260DD	94.9730	-3.942	1872.567	4.5	D7	(5D)4F	107165.600	3.5	170DD	
92.8470	-3.294	667.683	2.5	D6S	(5D)6D	108371.700	1.5	250DD	94.9734	-4.139	2837.950	2.5	D7	(5D)4F	108130.600	2.5	220DD	
92.9542	-4.218	384.790	3.5	D6S	(5D)6D	107964.700	4.5	210DD	95.0080	-5.125	3117.461	1.5	D7	(5D)4F	108371.700	1.5	250DD	
92.9614	-2.739	667.683	2.5	D6S	(5D)6D	108239.200	3.5	240DD	95.1169	-5.796	1872.567	4.5	D7	(5D)4F	107006.350	4.5	4SP(3I)2H	
93.0026	-2.859	667.683	2.5	D6S	(5D)6D	108191.600	1.5	230DD	95.1709	-4.588	3117.461	1.5	D7	(5D)4F	108191.600	1.5	230DD	
93.0154	-4.092	862.613	1.5	D6S	(5D)6D	108371.700	1.5	250DD	95.1940	-5.377	2837.950	2.5	D7	(5D)4F	107886.600	3.5	200DD	
93.0217	-2.924	384.790	3.5	D6S	(5D)6D	107886.600	3.5	200DD	95.2122	-7.391	0.000	4.5	D6S	(5D)6D	105028.600	3.5	4SP(3I)4H	
93.0354	-2.836	667.683	2.5	D6S	(5D)6D	108130.600	2.5	220DD	95.2262	-6.443	3117.461	1.5	D7	(5D)4F	108130.600	2.5	220DD	
93.1106	-3.682	1872.567	4.5	D7	(5D)4F	109271.710	5.5	4SP(3I)2I	95.2466	-6.256	1872.567	4.5	D7	(5D)4F	106863.200	3.5	160DD	
93.1145	-3.705	977.053	0.5	D6S	(5D)6D	108371.700	1.5	250DD	95.2945	-5.850	0.000	4.5	D6S	(5D)6D	104937.800	4.5	4SP(3I)4H	
93.1715	-4.145	862.613	1.5	D6S	(5D)6D	108191.600	1.5	230DD	95.4038	-4.554	1872.567	4.5	D7	(5D)4F	106690.170	5.5	4SP(3I)2H	
93.2245	-3.089	667.683	2.5	D6S	(5D)6D	108130.600	2.5	220DD	95.4046	-4.504	0.000	4.5	D6S	(5D)6D	104816.800	5.5	4SP(3I)4H	
93.2671	-4.352	667.683	2.5	D6S	(5D)6D	107886.600	3.5	200DD	95.4507	-5.193	2430.097	3.5	D7	(5D)4F	107196.200	2.5	180DD	
93.2709	-3.146	977.053	0.5	D6S	(5D)6D	108191.600	1.5	230DD	95.4786	-4.955	2430.097	3.5	D7	(5D)4F	107165.600	3.5	170DD	
93.3135	-1.776	0.000	4.5	D6S	(5D)6D	107165.600	3.5	170DD	95.5623	-5.397	384.790	3.5	D6S	(5D)6D	105028.600	3.5	4SP(3I)4H	
93.4282	-4.458	1872.567	4.5	D7	(5D)4F	108906.640	3.5	4SP(3G)4H	95.6240	-5.220	2430.097	3.5	D7	(5D)4F	107006.350	4.5	4SP(3I)2H	
93.4524	-4.458	0.000	4.5	D6S	(5D)6D	107006.350	4.5	4SP(3I)2H	95.6453	-4.345	384.790	3.5	D6S	(5D)6D	104937.800	4.5	4SP(3I)4H	
93.4611	-3.193	2837.950	2.5	D7	(5D)4F	108906.640	3.5	4SP(3G)4H	95.7551	-4.592	2430.097	3.5	D7	(5D)4F	106863.200	3.5	160DD	
93.5086	-2.824	1872.567	4.5	D7	(5D)4F	108868.980	4.5	4SP(3G)4H	95.8213	-4.585	667.683	2.5	D6S	(5D)6D	105028.600	3.5	4SP(3I)4H	
93.5132	-2.142	0.000	4.5	D6S	(5D)6D	108809.310	5.5	4SP(3G)4H	95.8238	-4.253	2837.950	2.5	D7	(5D)4F	107196.200	2.5	180DD	
93.5776	-1.171	0.000	4.5	D6S	(5D)6D	106863.200	3.5	160DD	95.8519	-5.235	3117.461	1.5	D7	(5D)4F	107165.600	3.5	170DD	
93.6230	-1.054	384.790	3.5	D6S	(5D)6D	107196.200	2.5	180DD	96.0811	-5.333	2837.950	2.5	D7	(5D)4F	107196.200	2.5	180DD	
93.6498	-1.390	384.790	3.5	D6S	(5D)6D	107165.600	3.5	170DD	96.1305	-4.916	2837.950	2.5	D7	(5D)4F	106863.200	3.5	160DD	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
96.1327	-8.276	7955.299	3.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.1352	-5.769	384.790	3.5	D6S (5D)6D	103334.100	2.5	4SP(3D)2F
96.1782	-4.078	0.000	4.5	D6S (5D)4D	111929.000	2.5	290DD	97.1400	-6.011	1872.567	4.5	D7 (5D)4F	104816.867	5.5	4SP(3D)4H
96.1818	-9.232	0.000	4.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.1419	-5.997	0.000	4.5	D6S (5D)6D	102942.200	3.5	4F(5D)4[3]
96.2624	-8.853	0.000	4.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.1424	-7.496	384.790	3.5	D6S (5D)6D	103326.410	4.5	4F(5D)3[4]
96.2705	-8.072	0.000	4.5	D6S (5D)6D	103873.990	4.5	4F(5D)1[4]	97.1880	-4.474	0.000	4.5	D6S (5D)6D	102893.380	5.5	4F(5D)4[6]
96.4213	-7.579	0.000	4.5	D6S (5D)6D	103711.570	3.5	4F(5D)2[14]	97.1893	-6.612	977.033	0.5	D6S (5D)6D	103869.020	1.5	4F(5D)1[2]
96.4304	-7.315	0.000	4.5	D6S (5D)6D	103701.720	4.5	4F(5D)2[15]	97.1939	-6.030	0.000	4.5	D6S (5D)6D	102887.120	3.5	4F(5D)4[4]
96.4403	-5.772	0.000	4.5	D6S (5D)6D	103691.050	5.5	4F(5D)2[15]	97.1984	-5.040	0.000	4.5	D6S (5D)6D	102882.370	4.5	4F(5D)4[4]
96.4500	-6.611	0.000	4.5	D6S (5D)6D	103680.640	4.5	4F(5D)2[14]	97.2277	-5.473	0.000	4.5	D6S (5D)6D	102851.360	4.5	4F(5D)4[5]
96.4536	-7.237	0.000	4.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[13]	97.2424	-6.536	862.613	1.5	D6S (5D)6D	103698.440	2.5	4F(5D)2[3]
96.4678	-7.836	384.790	3.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.2466	-7.261	0.000	4.5	D6S (5D)6D	102831.320	5.5	4F(5D)4[5]
96.4896	-7.820	384.790	3.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.2634	-8.215	862.613	1.5	D6S (5D)6D	102876.220	0.5	4F(5D)2[1]
96.5222	-8.541	384.790	3.5	D6S (5D)6D	103987.930	2.5	4F(5D)1[3]	97.2705	-7.182	862.613	1.5	D6S (5D)6D	103668.690	1.5	4F(5D)2[1]
96.5391	-7.251	384.790	3.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.2773	-5.085	384.790	3.5	D6S (5D)6D	103183.700	3.5	4SP(3D)2F
96.5838	-2.640	8391.938	2.5	D6S (5D)4D	111929.000	2.5	290DD	97.2778	-7.392	862.613	1.5	D6S (5D)6D	103660.980	2.5	4F(5D)2[2]
96.6203	-8.179	384.790	3.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.2927	-7.725	862.613	1.5	D6S (5D)6D	103645.220	1.5	4F(5D)2[1]
96.6284	-6.001	384.790	3.5	D6S (5D)6D	103873.990	4.5	4F(5D)1[4]	97.3234	-7.000	667.683	2.5	D6S (5D)6D	103417.910	1.5	4F(5D)3[1]
96.6436	-9.083	384.790	3.5	D6S (5D)6D	103857.740	2.5	4F(5D)1[2]	97.3344	-6.123	667.683	2.5	D6S (5D)6D	103406.250	2.5	4F(5D)3[2]
96.6929	-5.161	0.000	4.5	D6S (5D)6D	103420.160	5.5	4F(5D)3[6]	97.3386	-7.714	667.683	2.5	D6S (5D)6D	103391.290	1.5	4F(5D)3[2]
96.7251	-7.029	0.000	4.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[6]	97.3539	-5.763	667.683	2.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[3]
96.7318	-9.302	667.683	2.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.3539	-5.763	667.683	2.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[3]
96.7537	-7.264	667.683	2.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.3737	-7.037	97.3737	-7.037	97.3737	-7.037	97.3737	-7.037
96.7561	-6.256	0.000	4.5	D6S (5D)6D	103352.680	4.5	4F(5D)3[5]	97.3789	-7.161	977.033	0.5	D6S (5D)6D	103364.840	2.5	4F(5D)3[3]
96.7674	-6.492	0.000	4.5	D6S (5D)6D	103340.640	3.5	4F(5D)3[4]	97.3789	-7.161	977.033	0.5	D6S (5D)6D	103364.840	2.5	4F(5D)3[3]
96.7803	-6.275	384.790	3.5	D6S (5D)6D	103711.570	3.5	4F(5D)2[14]	97.3966	-6.754	667.683	2.5	D6S (5D)6D	103340.640	3.5	4F(5D)3[4]
96.7807	-5.746	0.000	4.5	D6S (5D)6D	103326.410	4.5	4F(5D)3[4]	97.4012	-6.388	977.033	0.5	D6S (5D)6D	103645.220	1.5	4F(5D)2[2]
96.7811	-5.726	0.000	4.5	D6S (5D)6D	103325.950	5.5	4F(5D)3[5]	97.4284	-6.484	384.790	3.5	D6S (5D)6D	103024.290	2.5	4F(5D)4[2]
96.7896	-5.602	384.790	3.5	D6S (5D)6D	103701.720	4.5	4F(5D)2[15]	97.4673	-8.867	2430.097	3.5	D7 (5D)4F	105028.600	3.5	4SP(3D)4H
96.7926	-7.619	384.790	3.5	D6S (5D)6D	103698.440	2.5	4F(5D)2[13]	97.4969	-6.509	384.790	3.5	D6S (5D)6D	102952.120	2.5	4F(5D)4[3]
96.8035	-6.974	667.683	2.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.4975	-7.205	384.790	3.5	D6S (5D)6D	102951.500	4.5	4SP(3D)4H
96.8093	-8.395	384.790	3.5	D6S (5D)6D	103680.640	4.5	4F(5D)2[14]	97.5064	-5.896	384.790	3.5	D6S (5D)6D	102942.200	3.5	4F(5D)4[3]
96.8129	-7.280	384.790	3.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[13]	97.5082	-7.373	862.613	1.5	D6S (5D)6D	103418.080	0.5	4F(5D)3[1]
96.8277	-8.364	384.790	3.5	D6S (5D)6D	103660.980	2.5	4F(5D)2[12]	97.5084	-7.628	862.613	1.5	D6S (5D)6D	103417.910	1.5	4F(5D)3[1]
96.8537	-2.144	8680.454	1.5	D6S (5D)4D	111929.000	2.5	290DD	97.5195	-7.138	862.613	1.5	D6S (5D)6D	103406.250	2.5	4F(5D)3[2]
96.8851	-6.620	667.683	2.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.5337	-7.178	862.613	1.5	D6S (5D)6D	103391.290	1.5	4F(5D)3[2]
96.8980	-7.883	667.683	2.5	D6S (5D)6D	103869.020	1.5	4F(5D)1[2]	97.5457	-4.932	977.033	0.5	D6S (5D)6D	103183.700	3.5	4SP(3D)2F
96.9086	-7.608	667.683	2.5	D6S (5D)6D	103857.740	2.5	4F(5D)1[2]	97.5536	-6.000	977.033	0.5	D6S (5D)6D	102837.280	0.5	4F(5D)3[1]
96.9145	-6.563	862.613	1.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.5588	-5.932	384.790	3.5	D6S (5D)6D	102887.120	3.5	4SP(3D)4H
96.9145	-5.911	1872.567	4.5	D7 (5D)4F	105028.600	3.5	4SP(3D)4H	97.5588	-5.932	384.790	3.5	D6S (5D)6D	102887.120	3.5	4SP(3D)4H
96.9405	-9.793	862.613	1.5	D6S (5D)6D	103987.930	2.5	4F(5D)1[3]	97.5928	-6.147	384.790	3.5	D6S (5D)6D	103364.840	2.5	4F(5D)3[3]
96.9694	-7.192	862.613	1.5	D6S (5D)6D	103967.490	0.5	4SP(3P)2S	97.5928	-6.147	384.790	3.5	D6S (5D)6D	103364.840	2.5	4F(5D)3[3]
96.9886	-4.572	1872.567	4.5	D7 (5D)4F	104937.800	4.5	4SP(3D)4H	97.5988	-6.905	977.033	0.5	D6S (5D)6D	102437.280	0.5	4F(5D)3[1]
97.0259	-7.152	667.683	2.5	D6S (5D)6D	103711.570	3.5	4F(5D)2[14]	97.6152	-8.718	667.683	2.5	D6S (5D)6D	103110.790	1.5	4F(5D)4[1]
97.0460	-7.264	667.683	2.5	D6S (5D)6D	103698.440	2.5	4F(5D)2[13]	97.6171	-8.259	977.033	0.5	D6S (5D)6D	103418.080	0.5	4F(5D)3[0]
97.0584	-7.815	384.790	3.5	D6S (5D)6D	103406.250	2.5	4F(5D)2[13]	97.6173	-7.390	977.033	0.5	D6S (5D)6D	103417.910	1.5	4F(5D)3[1]
97.0672	-7.122	384.790	3.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[12]	97.6427	-8.202	977.033	0.5	D6S (5D)6D	103391.290	1.5	4F(5D)3[2]
97.0788	-6.358	667.683	2.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[12]	97.6877	-8.910	667.683	2.5	D6S (5D)6D	103034.760	1.5	4F(5D)4[2]
97.0813	-7.163	862.613	1.5	D6S (5D)6D	103869.020	1.5	4F(5D)1[2]	97.6977	-7.831	667.683	2.5	D6S (5D)6D	103024.290	2.5	4F(5D)4[2]
97.0864	-9.475	667.683	2.5	D6S (5D)6D	103668.690	1.5	4F(5D)2[11]	97.7132	-7.731	0.000	4.5	D6S (5D)6D	102340.300	5.5	4SP(3D)4K
97.0865	-6.021	384.790	3.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[3]	97.7666	-8.077	667.683	2.5	D6S (5D)6D	102952.120	2.5	4F(5D)4[3]
97.0937	-6.643	667.683	2.5	D6S (5D)6D	103660.980	2.5	4F(5D)2[12]	97.7761	-8.372	667.683	2.5	D6S (5D)6D	102942.200	3.5	4F(5D)4[3]
97.0964	-4.821	977.033	0.5	D6S (5D)6D	103967.490	0.5	4SP(3P)2S	97.7870	-6.978	862.613	1.5	D6S (5D)6D	103125.650	0.5	4F(5D)4[1]
97.1060	-6.636	0.000	4.5	D6S (5D)6D	102980.300	5.5	4SP(3D)4I	97.8013	-7.269	862.613	1.5	D6S (5D)6D	103110.790	1.5	4F(5D)4[1]
97.1062	-7.407	384.790	3.5	D6S (5D)6D	103364.840	2.5	4F(5D)3[3]	97.8288	-9.050	667.683	2.5	D6S (5D)6D	102887.120	3.5	4F(5D)4[4]
97.1086	-7.281	667.683	2.5	D6S (5D)6D	103645.220	1.5	4F(5D)2[2]	97.8563	-6.201	2837.950	2.5	D7 (5D)4F	105028.600	3.5	4SP(3D)4H
97.1177	-5.263	384.790	3.5	D6S (5D)6D	103352.680	4.5	4F(5D)3[5]	97.8740	-7.155	862.613	1.5	D6S (5D)6D	103034.760	1.5	4F(5D)4[2]
97.1290	-7.433	384.790	3.5	D6S (5D)6D	103340.640	3.5	4F(5D)3[4]	97.8841	-7.474	862.613	1.5	D6S (5D)6D	103024.290	2.5	4F(5D)4[2]
97.1331	-7.857	0.000	4.5	D6S (5D)6D	102951.500	4.5	4SP(3D)4I								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
97.8949	-4.288	1872.567	4.5	D7	104022.890	3.5	4F(5D)0[3]	99.0576	-7.165	7955.299	3.5	D6S	108906.640	3.5	4SP(3G)4H
97.8966	-8.246	977.053	0.5	D6S	103125.650	0.5	4F(5D)4[1]	99.0739	-2.955	2430.097	3.5	D7	103364.840	2.5	4F(5D)3[3]
97.9108	-8.270	977.053	0.5	D6S	103110.790	1.5	4F(5D)4[1]	99.0754	-3.844	8846.768	0.5	D6S	109780.000	1.5	280DD
97.9459	-5.244	1872.567	4.5	D7	103969.760	3.5	4F(5D)1[3]	99.0797	-2.209	3117.461	1.5	D7	104046.350	2.5	4F(5D)0[3]
97.9533	-7.392	862.613	1.5	D6S	102952.120	2.5	4F(5D)4[3]	99.0859	-0.811	2430.097	3.5	D7	103352.680	4.5	4F(5D)3[5]
97.9734	-4.840	384.790	3.5	D6S	102449.100	2.5	4SP(3D)2D	99.0946	-4.228	7955.299	3.5	D6S	108868.980	3.5	4SP(3G)4H
97.9838	-8.321	977.053	0.5	D6S	103034.760	1.5	4F(5D)4[2]	99.0977	-2.981	2430.097	3.5	D7	103340.640	3.5	4F(5D)3[4]
98.0295	-4.865	1872.567	4.5	D7	103882.680	3.5	4F(5D)1[4]	99.1019	-3.370	667.683	2.5	D6S	101573.900	1.5	4SP(5D)4P
98.0378	-4.084	1872.567	4.5	D7	103873.990	4.5	4F(5D)1[4]	99.1041	-9.365	2430.097	3.5	D7	103334.100	2.5	4SP(3D)2F
98.1942	-3.591	1872.567	4.5	D7	103711.570	3.5	4F(5D)2[4]	99.1116	-3.044	2430.097	3.5	D7	103326.410	4.5	4F(5D)3[4]
98.1970	-5.988	667.683	2.5	D6S	102503.810	1.5	4SP(3D)2D	99.1339	-1.404	3117.461	1.5	D7	103711.570	3.5	4F(5D)2[4]
98.2037	-3.327	1872.567	4.5	D7	103701.720	4.5	4F(5D)2[5]	99.1370	-2.304	2837.950	2.5	D7	103698.930	2.5	4F(5D)1[3]
98.2140	-1.784	1872.567	4.5	D7	103691.050	5.5	4F(5D)2[5]	99.1469	-3.591	2837.950	2.5	D7	103698.930	2.5	4F(5D)1[3]
98.2240	-2.623	1872.567	4.5	D7	103680.640	4.5	4F(5D)2[4]	99.1571	-6.365	3117.461	1.5	D7	103698.930	2.5	4F(5D)2[5]
98.2278	-3.309	1872.567	4.5	D7	103676.780	3.5	4F(5D)2[3]	99.1681	-1.499	2837.950	2.5	D7	103676.780	3.5	4F(5D)2[3]
98.2498	-7.740	667.683	2.5	D6S	102449.100	2.5	4SP(3D)2D	99.1761	-3.973	2837.950	2.5	D7	103668.690	1.5	4F(5D)2[1]
98.3853	-5.795	862.613	1.5	D6S	102503.810	1.5	4SP(3D)2D	99.1837	-1.962	2837.950	2.5	D7	103660.980	2.5	4F(5D)2[2]
98.4095	-3.383	2430.097	3.5	D7	104046.350	2.5	4F(5D)0[3]	99.1992	-2.761	2837.950	2.5	D7	103645.220	1.5	4F(5D)2[2]
98.4322	-3.368	2430.097	3.5	D7	104022.890	3.5	4F(5D)0[3]	99.2340	-8.823	2430.097	3.5	D7	103637.950	2.5	4F(5D)2[2]
98.4383	-4.855	862.613	1.5	D6S	102449.100	2.5	4SP(3D)2D	99.2520	-2.136	3117.461	1.5	D7	103637.950	2.5	4F(5D)2[2]
98.4661	-4.088	2430.097	3.5	D7	103987.930	2.5	4F(5D)1[3]	99.2652	-1.568	3117.461	1.5	D7	103637.950	2.5	4F(5D)2[2]
98.4760	-1.173	1872.567	4.5	D7	103420.160	5.5	4F(5D)3[6]	99.2937	-5.792	862.613	1.5	D6S	101573.900	1.5	4SP(5D)4P
98.4837	-2.799	2430.097	3.5	D7	103969.760	3.5	4F(5D)1[3]	99.3287	-3.157	7955.299	3.5	D6S	108631.090	3.5	4SP(3G)4G
98.4962	-5.579	977.053	0.5	D6S	102803.810	1.5	4SP(3D)2D	99.3306	-3.853	7955.299	3.5	D6S	108629.250	2.5	4SP(3G)4G
98.5094	-3.041	1872.567	4.5	D7	103355.730	3.5	4F(5D)3[3]	99.3885	-2.436	7955.299	3.5	D6S	108570.560	4.5	4SP(3G)4G
98.5415	-2.268	1872.567	4.5	D7	103352.680	4.5	4F(5D)3[5]	99.4067	-4.062	977.053	0.5	D6S	101573.900	1.5	4SP(5D)4P
98.5532	-2.504	1872.567	4.5	D7	103340.640	3.5	4F(5D)3[4]	99.4093	-2.032	2430.097	3.5	D7	103024.290	2.5	4F(5D)4[2]
98.5670	-1.758	1872.567	4.5	D7	103326.410	4.5	4F(5D)3[4]	99.4234	-2.225	3117.461	1.5	D7	103698.440	2.5	4F(5D)2[3]
98.5682	-3.727	2430.097	3.5	D7	103325.950	5.5	4F(5D)3[5]	99.4349	-1.368	2837.950	2.5	D7	103417.910	1.5	4F(5D)3[1]
98.5767	-1.549	2430.097	3.5	D7	103882.680	3.5	4F(5D)1[4]	99.4443	-2.926	3117.461	1.5	D7	103676.220	0.5	4F(5D)2[1]
98.5925	-4.630	2430.097	3.5	D7	103873.990	4.5	4F(5D)1[4]	99.4497	-5.230	2837.950	2.5	D7	103391.290	1.5	4F(5D)3[2]
98.6309	-1.940	8391.938	2.5	D6S	109780.000	1.5	280DD	99.4518	-2.089	3117.461	1.5	D7	103668.690	1.5	4F(5D)2[1]
98.7058	-7.319	1872.567	4.5	D7	103183.700	3.5	4SP(3D)2F	99.4552	-0.984	2837.950	2.5	D7	103385.730	3.5	4F(5D)3[3]
98.7347	-1.823	2430.097	3.5	D7	103711.570	3.5	4F(5D)2[4]	99.4594	-1.902	3117.461	1.5	D7	103660.980	2.5	4F(5D)2[2]
98.7443	-1.150	2430.097	3.5	D7	103701.720	4.5	4F(5D)2[5]	99.4631	-3.544	862.613	1.5	D6S	101602.380	0.5	4SP(5D)4P
98.7475	-3.167	2430.097	3.5	D7	103698.440	2.5	4F(5D)2[3]	99.4750	-2.294	3117.461	1.5	D7	103664.840	2.5	4F(5D)3[3]
98.7649	-3.943	2430.097	3.5	D7	103680.640	4.5	4F(5D)2[4]	99.4759	-3.108	2837.950	2.5	D7	102952.120	2.5	4F(5D)4[3]
98.7687	-2.828	2430.097	3.5	D7	103676.780	3.5	4F(5D)2[3]	99.4807	-2.057	2430.097	3.5	D7	102951.500	4.5	4SP(3I)4I
98.7841	-3.912	2430.097	3.5	D7	103660.980	2.5	4F(5D)2[2]	99.4813	-7.986	2430.097	3.5	D7	102887.120	3.5	4F(5D)4[4]
98.8060	-2.471	2837.950	2.5	D7	104046.350	2.5	4F(5D)0[3]	99.4879	-5.307	8391.938	2.5	D6S	108906.640	3.5	4SP(3G)4H
98.8289	-1.894	2837.950	2.5	D7	104022.890	3.5	4F(5D)0[3]	99.4905	-1.444	2430.097	3.5	D7	102942.200	3.5	4F(5D)4[3]
98.8631	-3.260	2837.950	2.5	D7	103987.930	2.5	4F(5D)1[3]	99.4998	-2.348	2837.950	2.5	D7	103340.640	3.5	4F(5D)3[4]
98.8809	-2.083	2837.950	2.5	D7	103969.760	3.5	4F(5D)1[3]	99.5063	-7.236	2837.950	2.5	D7	103334.100	2.5	4SP(3D)2F
98.9044	-7.510	1872.567	4.5	D7	102980.300	5.5	4SP(3I)4I	99.5344	-8.595	1872.567	4.5	D7	102340.300	5.5	4SP(3I)4K
98.9126	-2.700	8680.454	1.5	D6S	102980.300	5.5	4SP(3I)4I	99.5451	-1.480	2430.097	3.5	D7	102887.120	3.5	4F(5D)4[4]
98.9324	-8.111	1872.567	4.5	D7	102951.500	4.5	4SP(3I)4I	99.5498	-1.233	2430.097	3.5	D7	102887.120	3.5	4F(5D)4[4]
98.9417	-2.009	1872.567	4.5	D7	102942.200	3.5	4F(5D)4[3]	99.5765	-4.130	977.053	0.5	D6S	101402.380	0.5	4SP(5D)4P
98.9661	-1.407	2837.950	2.5	D7	103882.680	3.5	4F(5D)1[4]	99.5805	-1.695	2430.097	3.5	D7	102851.360	4.5	4F(5D)4[5]
98.9795	-4.079	2837.950	2.5	D7	103869.020	1.5	4F(5D)1[2]	99.5832	-4.818	7955.299	3.5	D6S	10873.800	3.5	260DD
98.9895	-0.486	1872.567	4.5	D7	102893.380	5.5	4F(5D)4[6]	99.6134	-2.435	8391.938	2.5	D6S	108780.000	1.5	270DD
98.9905	-2.947	2837.950	2.5	D7	103857.740	2.5	4F(5D)1[2]	99.6354	-6.724	2837.950	2.5	D7	103183.700	3.5	4SP(3D)2F
98.9956	-2.042	1872.567	4.5	D7	102887.120	3.5	4F(5D)4[4]	99.6812	-2.850	3117.461	1.5	D7	103437.280	0.5	4F(5D)3[1]
99.0003	-1.052	1872.567	4.5	D7	102882.370	4.5	4F(5D)4[4]	99.7003	-4.660	3117.461	1.5	D7	103418.080	0.5	4F(5D)3[0]
99.0307	-1.485	1872.567	4.5	D7	102851.360	4.5	4F(5D)4[5]	99.7005	-1.799	3117.461	1.5	D7	103417.910	1.5	4F(5D)3[1]
99.0333	-2.670	2430.097	3.5	D7	103406.250	2.5	4F(5D)3[2]	99.7120	-1.589	3117.461	1.5	D7	103406.250	2.5	4F(5D)3[2]
99.0504	-3.273	1872.567	4.5	D7	102831.320	5.5	4F(5D)4[5]	99.7169	-4.461	7955.299	3.5	D6S	108239.200	3.5	240DD
99.0534	-1.569	2430.097	3.5	D7	103385.730	3.5	4F(5D)3[3]	99.7269	-2.775	3117.461	1.5	D7	103391.290	1.5	4F(5D)3[2]

WL(NM)	LOGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGF	EVEN E	J	LABEL	ODD E	J	LABEL
99.7279	-2.440	2837.950	2.5	D7 (5D)4F	103110.790	1.5	4F(5D)4[1]	101.4233	-2.655	0.000	4.5	D6S (5D)6D	98596.650	4.5	4SF(5D)4F
99.7532	-2.605	3117.461	1.5	D7 (5D)4F	103364.840	2.5	4F(5D)3[3]	101.4859	-3.469	0.000	4.5	D6S (5D)6D	98535.850	3.5	4SF(5D)4F
99.7614	-2.465	8391.938	2.5	D6S (5D)4D	108631.090	3.5	4SF(3G)4G	101.5066	-2.414	8680.454	1.5	D6S (5D)4D	107196.200	2.5	180DD
99.7632	-3.363	8391.938	2.5	D6S (5D)4D	108629.250	2.5	4SF(3G)4G	101.5085	-2.563	384.790	3.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F
99.7838	-6.849	3117.461	1.5	D7 (5D)4F	103334.100	2.5	4SF(3D)2F	101.5525	-2.210	8391.938	2.5	D6S (5D)4D	106863.200	3.5	160DD
99.8036	-2.438	2837.950	2.5	D7 (5D)4F	103034.760	1.5	4F(5D)4[2]	101.5678	-6.119	3117.461	1.5	D7 (5D)4F	101573.900	1.5	4SF(5D)4F
99.8140	-1.947	2837.950	2.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]	101.5697	-5.612	13474.411	2.5	D7 (5D)4F	111929.000	2.5	290DD
99.8500	-3.539	7955.299	3.5	D6S (5D)4D	108130.600	2.5	220DD	101.6350	-3.807	0.000	4.5	D6S (5D)6D	98391.330	3.5	4SF(5D)4D
99.8860	-1.990	2837.950	2.5	D7 (5D)4F	102952.120	2.5	4F(5D)4[3]	101.7450	-6.186	3117.461	1.5	D7 (5D)4F	101402.380	0.5	4SF(5D)4F
99.8959	-2.134	2837.950	2.5	D7 (5D)4F	102942.200	3.5	4F(5D)4[3]	101.7514	-7.404	0.000	4.5	D6S (5D)6D	98278.770	5.5	4P (1G)2H
99.9006	-3.713	8680.454	1.5	D6S (5D)4D	108780.000	1.5	270DD	101.7751	-4.942	13673.185	1.5	D7 (5D)4F	111929.000	2.5	290DD
99.9509	-2.216	2837.950	2.5	D7 (5D)4F	102887.120	3.5	4F(5D)4[4]	101.8008	-7.145	667.683	2.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F
99.9810	-6.193	2430.097	3.5	D7 (5D)4F	102449.100	2.5	4SF(3D)2D	101.8207	-3.172	384.790	3.5	D6S (5D)6D	98596.650	4.5	4SF(5D)4F
99.9844	-6.038	384.790	3.5	D6S (5D)6D	100400.360	2.5	4SF(3P)2D	101.8838	-3.415	384.790	3.5	D6S (5D)6D	98535.850	3.5	4SF(5D)4F
99.9906	-1.081	7955.299	3.5	D6S (5D)4D	107964.700	4.5	210DD	101.8900	-5.049	862.613	1.5	D6S (5D)6D	99007.700	0.5	4SF(5D)4D
99.9918	-3.192	3117.461	1.5	D7 (5D)4F	103125.650	0.5	4F(5D)4[1]	101.9157	-4.297	384.790	3.5	D6S (5D)6D	98505.100	2.5	4SF(5D)4D
100.0067	-2.865	3117.461	1.5	D7 (5D)4F	103110.790	1.5	4F(5D)4[1]	101.9342	-6.802	667.683	2.5	D6S (5D)6D	98770.140	1.5	4SF(5D)4D
100.0181	-3.885	8391.938	2.5	D6S (5D)4D	108373.800	3.5	260DD	102.0089	-3.523	977.053	0.5	D6S (5D)6D	99007.700	0.5	4SF(5D)4D
100.0202	-3.405	8391.938	2.5	D6S (5D)4D	108629.250	2.5	4SF(3G)4G	102.0340	-3.287	384.790	3.5	D6S (5D)6D	98391.330	3.5	4SF(5D)4D
100.0512	-3.240	8680.454	1.5	D6S (5D)4D	108780.000	1.5	270DD	102.0772	-4.015	1872.567	4.5	D7 (5D)4F	100400.360	2.5	4SF(3P)2D
100.0668	-1.846	8846.768	0.5	D6S (5D)4D	108780.000	1.5	270DD	102.1077	-5.847	2430.097	3.5	D7 (5D)4F	98808.400	3.5	4P (1G)2G
100.0687	-1.760	7955.299	3.5	D6S (5D)4D	107886.600	3.5	200DD	102.1172	-4.066	862.613	1.5	D6S (5D)6D	98770.140	1.5	4SF(5D)4D
100.0828	-2.905	3117.461	1.5	D7 (5D)4F	103034.760	1.5	4F(5D)4[2]	102.1372	-4.066	862.613	1.5	D6S (5D)6D	98505.100	2.5	4SF(5D)4D
100.0933	-3.214	3117.461	1.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]	102.1612	-4.159	1872.567	4.5	D7 (5D)4F	99757.120	4.5	4P (1G)2G
100.1530	-1.615	8391.938	2.5	D6S (5D)4D	108239.200	3.5	240DD	102.1783	-3.642	667.683	2.5	D6S (5D)6D	98335.850	3.5	4SF(5D)4F
100.1656	-3.360	3117.461	1.5	D7 (5D)4F	102952.120	2.5	4F(5D)4[3]	102.1958	-7.765	0.000	4.5	D6S (5D)6D	97851.350	4.5	4P (1G)2H
100.1920	-6.383	0.000	4.5	D6S (5D)6D	99808.400	3.5	4P (1G)2G	102.2104	-4.144	667.683	2.5	D6S (5D)6D	98505.100	2.5	4SF(5D)4D
100.2007	-1.945	8391.938	2.5	D6S (5D)4D	108191.600	1.5	230DD	102.2567	-3.193	977.053	0.5	D6S (5D)6D	98770.140	1.5	4SF(5D)4D
100.2435	-4.646	0.000	4.5	D6S (5D)6D	99757.120	4.5	4P (1G)2G	102.2677	-4.271	1872.567	4.5	D7 (5D)4F	99635.520	3.5	4SF(3G)2G
100.2620	-1.803	8391.938	2.5	D6S (5D)4D	108130.600	2.5	220DD	102.2882	-5.597	1872.567	4.5	D7 (5D)4F	98335.850	3.5	4SF(5D)4F
100.2680	-6.569	667.683	2.5	D6S (5D)6D	100400.360	2.5	4SF(3P)2D	102.3294	-2.995	667.683	2.5	D6S (5D)6D	98391.330	3.5	4SF(5D)4D
100.3097	-1.869	8680.454	1.5	D6S (5D)4D	108371.700	1.5	250DD	102.3678	-4.947	667.683	2.5	D6S (5D)6D	98335.850	3.5	4SF(5D)4F
100.3353	-6.259	2837.950	2.5	D7 (5D)4F	102503.810	1.5	4SF(3D)2D	102.3850	-3.841	667.683	2.5	D6S (5D)6D	98338.280	1.5	4SF(5P)4S
100.3480	-4.704	0.000	4.5	D6S (5D)6D	99653.220	4.5	4SF(3G)2G	102.4144	-2.993	862.613	1.5	D6S (5D)6D	98505.100	2.5	4SF(5D)4D
100.3658	-6.179	0.000	4.5	D6S (5D)6D	99635.520	3.5	4SF(3G)2G	102.4985	-5.470	2837.950	2.5	D7 (5D)4F	100400.360	2.5	4SF(3P)2D
100.3904	-6.213	2837.950	2.5	D7 (5D)4F	102449.100	2.5	4SF(3D)2D	102.5343	-4.375	667.683	2.5	D6S (5D)6D	98196.000	1.5	4SF(5D)4F
100.4644	-4.762	862.613	1.5	D6S (5D)6D	100400.360	2.5	4SF(3P)2D	102.5725	-3.706	862.613	1.5	D6S (5D)6D	98335.850	3.5	4SF(5D)4F
100.4773	-1.863	8846.768	0.5	D6S (5D)4D	108371.700	1.5	250DD	102.5897	-3.400	862.613	1.5	D6S (5D)6D	98338.280	1.5	4SF(5P)4S
100.4913	-2.262	8680.454	1.5	D6S (5D)4D	108191.600	1.5	230DD	102.6923	-5.838	2430.097	3.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G
100.5079	-1.192	8391.938	2.5	D6S (5D)4D	107886.600	3.5	200DD	102.7103	-3.998	102.7103	-3.998	98196.000	1.5	4SF(5D)4F	
100.5529	-2.021	8680.454	1.5	D6S (5D)4D	108130.600	2.5	220DD	102.7397	-7.680	862.613	1.5	D6S (5D)6D	98196.000	1.5	4SF(5D)4F
100.5797	-6.356	3117.461	1.5	D7 (5D)4F	99757.120	4.5	4P (1G)2G	102.7464	-5.108	2430.097	3.5	D7 (5D)4F	99757.120	4.5	4P (1G)2G
100.6174	-6.428	3117.461	1.5	D7 (5D)4F	102503.810	1.5	4SF(3D)2D	102.7930	-6.339	3117.461	1.5	D7 (5D)4F	100400.360	2.5	4SF(3P)2D
100.6316	-5.356	384.790	3.5	D6S (5D)4D	108191.600	1.5	230DD	102.8562	-5.369	2430.097	3.5	D7 (5D)4F	99653.220	4.5	4SF(3G)2G
100.6595	-3.655	8846.768	0.5	D6S (5D)4D	102449.100	2.5	4SF(3D)2D	102.8606	-5.476	977.053	0.5	D6S (5D)6D	98196.000	1.5	4SF(5D)4F
100.6729	-6.558	3117.461	1.5	D7 (5D)4F	99635.520	3.5	4SF(3G)2G	102.8606	-5.476	977.053	0.5	D6S (5D)6D	99635.520	3.5	4SF(3G)2G
100.7370	-5.337	384.790	3.5	D6S (5D)6D	99635.520	3.5	4SF(3G)2G	102.8749	-5.331	2430.097	3.5	D7 (5D)4F	98196.000	1.5	4SF(5D)4F
100.7549	-5.786	384.790	3.5	D6S (5D)6D	99635.520	3.5	4SF(3G)2G	103.0149	-5.097	7955.299	3.5	D6S (5D)4D	105028.600	3.5	4SF(31)4H
100.7649	-3.442	7955.299	3.5	D6S (5D)4D	107196.200	2.5	180DD	103.0650	-9.390	1872.567	4.5	D7 (5D)4F	98898.710	3.5	4P (1G)2F
100.7960	-3.784	7955.299	3.5	D6S (5D)4D	107165.600	3.5	170DD	103.1114	-5.833	7955.299	3.5	D6S (5D)4F	104937.800	4.5	4SF(31)4H
100.8667	-6.496	667.683	2.5	D6S (5D)6D	99808.400	3.5	4P (1G)2G	103.1242	-6.836	2837.950	2.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G
100.9580	-5.718	7955.299	3.5	D6S (5D)4D	107006.350	4.5	4SF(31)2H	103.3084	-5.565	2837.950	2.5	D7 (5D)4F	99635.520	3.5	4SF(3G)2G
101.0429	-5.869	667.683	2.5	D6S (5D)6D	99635.520	3.5	4SF(3G)2G	103.3869	-4.275	1872.567	4.5	D7 (5D)4F	98596.650	4.5	4SF(5D)4F
101.1042	-3.342	7955.299	3.5	D6S (5D)4D	106863.200	3.5	160DD	103.4519	-4.520	1872.567	4.5	D7 (5D)4F	98535.850	3.5	4SF(5D)4F
101.1136	-6.033	0.000	4.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F	103.4569	-3.861	667.683	2.5	D6S (5D)6D	97326.270	1.5	4SF(3P)2P
101.2102	-2.579	8391.938	2.5	D6S (5D)4D	107196.200	2.5	180DD	103.4804	-6.400	8391.938	2.5	D6S (5D)4D	105028.600	3.5	4SF(31)4H
101.2416	-2.742	8391.938	2.5	D6S (5D)4D	107165.600	3.5	170DD	103.6068	-2.951	1872.567	4.5	D7 (5D)4F	98391.330	3.5	4SF(5D)4D
101.2802	-5.512	2837.950	2.5	D7 (5D)4F	101573.900	1.5	4SF(5D)4F	103.6607	-3.969	2430.097	3.5	D7 (5D)4F	98898.710	3.5	4P (1G)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
103.6660	-4.136	862.613	1.5	D6S (5D)6D	97326.270	1.5	48P(3P)2P	104.8113	-8.604	7955.299	3.5	D6S (5D)4D	103364.840	2.5	4F(5D)3[3]
103.7278	-4.808	1872.567	4.5	D7 (5D)4F	98278.770	5.5	4P (1G)2H	104.8247	-6.452	7955.299	3.5	D6S (5D)4D	103354.680	4.5	4F(5D)3[5]
103.7880	-5.050	0.000	4.5	D6S (5D)6D	96356.960	3.5	48P(3G)2F	104.8354	-6.089	3117.461	1.5	D7 (5D)4F	98505.100	2.5	48P(5D)4D
103.7891	-3.788	977.053	0.5	D6S (5D)6D	97326.270	1.5	48P(3P)2P	104.8379	-8.637	7955.299	3.5	D6S (5D)4D	103340.640	3.5	4F(5D)3[4]
103.8078	-3.877	13474.411	2.5	D7 (5D)4F	109780.000	1.5	280DD	104.8451	-5.921	7955.299	3.5	D6S (5D)4D	103334.100	2.5	48P(3D)2F
103.9078	-5.894	0.000	4.5	D6S (5D)6D	96239.200	4.5	48P(3G)2H	104.8536	-8.666	7955.299	3.5	D6S (5D)4D	103326.410	4.5	4F(5D)3[4]
103.9313	-2.883	0.000	4.5	D6S (5D)6D	96217.420	3.5	48P(5P)4D	104.8593	-6.740	8680.454	1.5	D6S (5D)4D	104046.350	2.5	4F(5D)0[3]
103.9863	-5.441	2430.097	3.5	D7 (5D)4F	98596.650	4.5	48P(5D)4F	104.8679	-7.448	2837.950	2.5	D7 (5D)4F	98199.000	1.5	48P(5D)4F
104.0509	-3.054	13673.185	1.5	D7 (5D)4F	109780.000	1.5	280DD	104.9010	-2.928	667.683	2.5	D6S (5D)6D	95965.693	2.5	48P(5P)4D
104.0520	-4.205	2430.097	3.5	D7 (5D)4F	98535.850	3.5	48P(5D)4F	104.9102	-6.567	8391.938	2.5	D6S (5D)4D	103711.570	3.5	4F(5D)2[4]
104.0680	-9.020	7955.299	3.5	D6S (5D)4D	104046.350	2.5	4F(5D)0[3]	104.9236	-7.307	8680.454	1.5	D6S (5D)4D	103987.930	2.5	4F(5D)1[3]
104.0853	-3.322	2430.097	3.5	D7 (5D)4F	98505.100	2.5	48P(5D)4D	104.9246	-6.906	8391.938	2.5	D6S (5D)4D	103698.440	2.5	4F(5D)2[3]
104.0934	-9.007	7955.299	3.5	D6S (5D)4D	104022.890	3.5	4F(5D)0[3]	104.9256	-6.426	13474.411	2.5	D7 (5D)4F	108780.000	1.5	270DD
104.0994	-6.305	0.000	4.5	D6S (5D)6D	96062.060	5.5	48P(3G)2H	104.9461	-3.303	8680.454	1.5	D6S (5D)4D	103967.490	0.5	48P(3P)2S
104.1008	-4.402	2837.950	2.5	D7 (5D)4F	98898.710	3.5	4P (1G)2F	104.9485	-6.571	8391.938	2.5	D6S (5D)4D	103676.780	3.5	4F(5D)2[1]
104.1313	-9.724	7955.299	3.5	D6S (5D)4D	103987.930	2.5	4F(5D)1[3]	104.9574	-9.726	8391.938	2.5	D6S (5D)4D	103668.690	1.5	4F(5D)2[1]
104.1510	-8.434	7955.299	3.5	D6S (5D)4D	103969.760	3.5	4F(5D)1[3]	104.9659	-6.609	8391.938	2.5	D6S (5D)4D	103660.980	2.5	4F(5D)2[2]
104.1897	-7.588	1872.567	4.5	D7 (5D)4F	97851.350	4.5	4P (1G)2H	104.9833	-7.097	8391.938	2.5	D6S (5D)4D	103645.220	1.5	4F(5D)2[2]
104.1969	-5.501	384.790	3.5	D6S (5D)6D	96356.960	3.5	48P(3G)2F	105.0010	-5.050	3117.461	1.5	D7 (5D)4F	98354.660	2.5	48P(5D)4F
104.2087	-4.053	2430.097	3.5	D7 (5D)4F	98391.330	3.5	48P(5D)4D	105.0107	-4.204	7955.299	3.5	D6S (5D)4D	103183.700	3.5	48P(3D)2F
104.2403	-3.319	2837.950	2.5	D7 (5D)4F	98770.140	1.5	48P(5D)4D	105.0191	-4.862	3117.461	1.5	D7 (5D)4F	98338.280	1.5	48P(5P)4S
104.2455	-9.363	7955.299	3.5	D6S (5D)4D	103882.680	3.5	4F(5D)1[4]	105.0326	-2.542	667.683	2.5	D6S (5D)6D	95858.050	1.5	48P(5P)4D
104.2486	-3.414	2430.097	3.5	D7 (5D)4F	98354.660	2.5	48P(5D)4F	105.0546	-7.268	8680.454	1.5	D6S (5D)4D	103869.020	1.5	4F(5D)1[2]
104.2550	-7.185	7955.299	3.5	D6S (5D)4D	103873.990	4.5	4F(5D)1[4]	105.0671	-8.994	8680.454	1.5	D6S (5D)4D	103857.740	2.5	4F(5D)1[2]
104.2810	-5.557	384.790	3.5	D6S (5D)6D	96279.490	2.5	48P(3G)2F	105.0898	-4.302	13474.411	2.5	D7 (5D)4F	108631.090	3.5	48P(3G)4G
104.2859	-3.604	3117.461	1.5	D7 (5D)4F	99007.700	0.5	48P(5D)4D	105.0919	-5.042	13474.411	2.5	D7 (5D)4F	108629.250	2.5	48P(3G)4G
104.3023	-4.047	13904.824	0.5	D7 (5D)4F	109780.000	1.5	280DD	105.1159	-2.692	862.613	1.5	D6S (5D)6D	95995.690	2.5	48P(5P)4D
104.3249	-6.014	384.790	3.5	D6S (5D)6D	96239.200	4.5	48P(3G)2H	105.1296	-3.775	8846.768	0.5	D6S (5D)4F	103967.490	0.5	48P(3P)2S
104.3486	-2.495	384.790	3.5	D6S (5D)6D	96217.420	3.5	48P(5P)4D	105.1449	-3.493	13673.185	1.5	D7 (5D)4F	108780.000	1.5	270DD
104.4318	-7.460	7955.299	3.5	D6S (5D)4D	103711.570	3.5	4F(5D)2[4]	105.1750	-5.439	0.000	4.5	D6S (5D)6D	95079.640	3.5	4P (3F)2F
104.4425	-6.788	7955.299	3.5	D6S (5D)4D	103701.720	4.5	4F(5D)2[5]	105.1762	-5.004	3117.461	1.5	D7 (5D)4F	98196.000	1.5	48P(5D)4F
104.4461	-8.803	7955.299	3.5	D6S (5D)4D	103698.440	2.5	4F(5D)2[3]	105.1868	-7.679	7955.299	3.5	D6S (5D)4D	103024.290	2.5	4F(5D)4[2]
104.4655	-9.530	7955.299	3.5	D6S (5D)4D	103680.640	4.5	4F(5D)2[4]	105.2344	-7.079	8391.938	2.5	D6S (5D)4D	103417.910	1.5	4F(5D)3[1]
104.4698	-8.469	7955.299	3.5	D6S (5D)4D	103676.780	3.5	4F(5D)2[3]	105.2385	-7.707	8846.768	0.5	D6S (5D)4D	103869.020	1.5	4F(5D)1[2]
104.4870	-9.547	7955.299	3.5	D6S (5D)4D	103660.980	2.5	4F(5D)2[2]	105.2432	-6.608	8680.454	1.5	D6S (5D)4D	103698.440	2.5	4F(5D)2[3]
104.4955	-5.157	2837.950	2.5	D7 (5D)4F	98535.850	3.5	48P(5D)4F	105.2473	-6.176	8391.938	2.5	D6S (5D)4D	103406.250	2.5	4F(5D)3[2]
104.5049	-5.108	667.683	2.5	D6S (5D)6D	96356.960	3.5	48P(3G)2F	105.2639	-7.004	8391.938	2.5	D6S (5D)4D	10391.938	2.5	4F(5D)3[2]
104.5291	-4.421	2837.950	2.5	D7 (5D)4F	98505.100	2.5	48P(5D)4D	105.2667	-7.704	7955.299	3.5	D6S (5D)4D	102952.120	2.5	4F(5D)4[3]
104.5430	-7.197	8391.938	2.5	D6S (5D)4F	104046.350	2.5	4F(5D)0[3]	105.2674	-7.146	7955.299	3.5	D6S (5D)4D	102951.500	4.5	48P(31)4I
104.5449	-4.006	3117.461	1.5	D7 (5D)4F	98770.140	1.5	48P(5D)4D	105.2678	-8.318	8680.454	1.5	D6S (5D)4D	103676.220	0.5	4F(5D)2[1]
104.5687	-8.238	8391.938	2.5	D6S (5D)4D	104022.890	3.5	4F(5D)0[3]	105.2682	-4.056	862.613	1.5	D6S (5D)6D	95858.050	1.5	48P(5P)4D
104.5896	-5.446	667.683	2.5	D6S (5D)6D	96279.490	2.5	48P(3G)2F	105.2700	-5.848	8391.938	2.5	D6S (5D)4D	103385.730	3.5	4F(5D)3[3]
104.5906	-2.458	95995.690	2.5	D6S (5D)6D	98505.100	2.5	48P(5P)4D	105.2762	-7.289	8680.454	1.5	D6S (5D)4D	103668.690	1.5	4F(5D)2[1]
104.6069	-7.908	8391.938	2.5	D6S (5D)4D	103987.930	2.5	4F(5D)1[3]	105.2777	-7.090	7955.299	3.5	D6S (5D)4D	102942.200	3.5	4F(5D)4[3]
104.6268	-7.238	8391.938	2.5	D6S (5D)4D	103969.760	3.5	4F(5D)1[3]	105.2847	-7.477	8680.454	1.5	D6S (5D)4D	103660.980	2.5	4F(5D)2[2]
104.6467	-4.166	16369.360	3.5	D7 (5D)2G	111929.000	2.5	290DD	105.2932	-6.577	8391.938	2.5	D6S (5D)4D	103364.840	2.5	4F(5D)3[2]
104.6535	-5.470	2837.950	2.5	D7 (5D)4F	98391.330	3.5	48P(5D)4D	105.3022	-7.817	8680.454	1.5	D6S (5D)4D	103645.220	1.5	4F(5D)2[2]
104.6575	-2.740	667.683	2.5	D6S (5D)6D	96217.420	3.5	48P(5P)4D	105.3119	-5.060	13673.185	1.5	D7 (5D)4F	108629.250	2.5	48P(3G)4G
104.6937	-3.875	2837.950	2.5	D7 (5D)4F	98354.660	2.5	48P(5D)4F	105.3200	-6.493	8391.938	2.5	D6S (5D)4D	103340.640	3.5	4F(5D)3[4]
104.7117	-4.292	2837.950	2.5	D7 (5D)4F	103882.680	3.5	4F(5D)1[4]	105.3273	-4.592	8391.938	2.5	D6S (5D)4D	103340.640	3.5	48P(3D)2F
104.7222	-8.734	8391.938	2.5	D6S (5D)4D	103869.020	1.5	4F(5D)1[2]	105.3388	-7.127	7955.299	3.5	D6S (5D)4D	102887.120	3.5	4F(5D)4[4]
104.7372	-7.390	8391.938	2.5	D6S (5D)4D	103857.740	2.5	4F(5D)1[2]	105.3440	-6.881	7955.299	3.5	D6S (5D)4D	102882.370	4.5	4F(5D)4[4]
104.7496	-8.311	8391.938	2.5	D6S (5D)4D	103806.640	3.5	48P(3G)4H	105.3684	-3.053	862.613	1.5	D6S (5D)6D	95767.700	0.5	48P(5P)4D
104.7658	-6.140	13474.411	2.5	D7 (5D)4F	103406.250	2.5	4F(5D)3[2]	105.3771	-4.428	13474.411	2.5	D7 (5D)4F	108373.800	3.5	260DD
104.7864	-7.211	7955.299	3.5	D6S (5D)4D	103385.730	3.5	4F(5D)3[3]	105.3771	-4.428	13474.411	2.5	D7 (5D)4F	108373.800	3.5	260DD
104.7884	-7.211	7955.299	3.5	D6S (5D)4D	103385.730	3.5	4F(5D)3[3]	105.3952	-2.978	977.053	0.5	D6S (5D)6D	95858.050	1.5	48P(5P)4D
104.7985	-5.427	2430.097	3.5	D7 (5D)4F	97851.350	4.5	4P (1G)2H	105.4016	-3.136	13904.824	0.5	D7 (5D)4F	108780.000	1.5	270DD
104.8033	-5.048	862.613	1.5	D6S (5D)6D	96279.490	2.5	48P(3G)2F								

WL(NM)	LOGGF	EVEN	E	J	LABEL	ODD	E	J	LABEL	LOGGF	WL(NM)	EVEN	E	J	LABEL	ODD	E	J	LABEL
105.4525	-7.948	8846.768	0.5	D6S	(5D)4D	103676.220	0.5	4F	(5D)2[11]	106.2555	106.2555	8391.938	2.5	D6S	(5D)4D	102503.810	1.5	4SP	(3D)2D
105.4608	-8.286	8846.768	0.5	D6S	(5D)4D	103668.690	1.5	4F	(5D)2[11]	106.2750	106.2750	667.683	2.5	D6S	(5D)6D	94763.219	3.5	4SP	(5D)6P
105.4870	-8.429	8846.768	0.5	D6S	(5D)4D	103645.220	1.5	4F	(5D)2[12]	106.3002	106.3002	0.000	4.5	D6S	(3D)6D	94073.240	3.5	4SP	(5G)4G
105.4944	-4.874	8391.938	2.5	D6S	(5D)4D	103183.700	3.5	4SP	(3D)2F	106.3302	106.3302	667.683	2.5	D6S	(5D)6D	94739.170	1.5	4SP	(5P)4P
105.4956	-4.198	97567.700	0.5	D6S	(5D)6D	95767.700	0.5	4SP	(5P)4D	106.3127	106.3127	977.053	0.5	D6S	(5D)6D	95039.200	1.5	4P	(3P)2P
105.5244	-3.172	13474.411	2.5	D7	(5D)4F	108239.200	3.5	240DD		106.3176	106.3176	0.000	4.5	D6S	(5D)6D	94057.773	4.5	4SP	(5D)6D
105.5262	-0.839	0.000	4.5	D6S	(5D)6D	94763.219	3.5	4SP	(5D)6P	106.3183	106.3183	8391.938	2.5	D6S	(5D)4D	102449.100	2.5	4SP	(3D)2D
105.5347	-7.524	8680.454	1.5	D6S	(5D)4D	103418.080	0.5	4F	(5D)3[10]	106.3457	106.3457	667.683	2.5	D6S	(5D)6D	94700.660	2.5	4P	(3F)2D
105.5549	-7.689	8680.454	1.5	D6S	(5D)4D	103417.910	1.5	4F	(5D)3[11]	106.3625	106.3625	862.613	1.5	D6S	(5D)6D	94880.740	0.5	4SP	(5P)4P
105.5679	-7.222	8680.454	1.5	D6S	(5D)4D	103406.230	2.5	4F	(5D)3[12]	106.3633	106.3633	667.683	2.5	D6S	(5D)6D	94685.090	2.5	4SP	(5D)6P
105.5756	-7.330	8391.938	2.5	D6S	(5D)4D	103110.790	1.5	4F	(5D)4[11]	106.3972	106.3972	0.000	4.5	D6S	(5D)6D	93987.457	3.5	4SP	(3G)2F
105.5775	-2.566	13474.411	2.5	D7	(5D)4F	108191.600	1.5	230DD		106.4658	106.4658	2430.097	3.5	D7	(5D)4F	96356.960	3.5	4SP	(3G)2F
105.5845	-7.308	8680.454	1.5	D6S	(5D)4D	103391.290	1.5	4F	(5D)3[12]	106.4921	106.4921	977.053	0.5	D6S	(5D)6D	94880.740	0.5	4SP	(5P)4P
105.5983	-3.755	13673.185	1.5	D7	(5D)4F	108371.700	1.5	250DD		106.5229	106.5229	862.613	1.5	D6S	(5D)6D	94739.170	1.5	4SP	(5P)4P
105.6024	-4.547	384.790	3.5	D6S	(5D)6D	95079.640	3.5	4P	(3F)2F	106.5537	106.5537	2430.097	3.5	D7	(5D)4F	96279.490	2.5	4SP	(3G)2F
105.6140	-7.489	8680.454	1.5	D6S	(5D)4D	103364.840	2.5	4F	(5D)3[13]	106.5666	106.5666	862.613	1.5	D6S	(5D)6D	94700.660	2.5	4P	(3F)2D
105.6398	-4.937	384.790	3.5	D6S	(5D)6D	95046.100	2.5	4P	(3F)2F	106.5792	106.5792	384.790	3.5	D6S	(5D)6D	94211.739	2.5	4SP	(5P)4P
105.6455	-4.016	13474.411	2.5	D7	(5D)4F	108130.600	2.5	220DD		106.5833	106.5833	8680.454	1.5	D6S	(5D)4D	102503.810	1.5	4SP	(3D)2D
105.6483	-4.841	8680.454	1.5	D6S	(5D)4D	103334.100	2.5	4SP	(3D)2F	106.5843	106.5843	862.613	1.5	D6S	(5D)6D	94685.090	2.5	4SP	(5D)6P
105.6604	-7.255	8391.938	2.5	D6S	(5D)4D	103034.760	1.5	4F	(5D)4[12]	106.5995	106.5995	2430.097	3.5	D7	(5D)4F	96239.200	4.5	4SP	(3G)2F
105.6721	-7.089	8391.938	2.5	D6S	(5D)4D	103024.290	2.5	4F	(5D)4[2]	106.6242	106.6242	8680.454	1.5	D6S	(5D)4D	102449.100	2.5	4SP	(3D)2D
105.7188	-7.953	8846.768	0.5	D6S	(5D)4D	103437.280	0.5	4F	(5D)3[11]	106.6455	106.6455	8680.454	1.5	D6S	(5D)4D	102449.100	2.5	4SP	(3D)2D
105.7403	-9.308	8846.768	0.5	D6S	(5D)4D	103418.080	0.5	4F	(5D)3[10]	106.6511	106.6511	384.790	3.5	D6S	(5D)6D	94148.510	4.5	4SP	(5G)4G
105.7405	-8.397	8846.768	0.5	D6S	(5D)4D	103417.910	1.5	4F	(5D)3[11]	106.6529	106.6529	13474.411	2.5	D7	(5D)4F	94739.170	1.5	4SP	(5P)4P
105.7528	-6.979	8391.938	2.5	D6S	(5D)4D	102952.120	2.5	4F	(5D)4[13]	106.6988	106.6988	13474.411	2.5	D7	(5D)4F	107196.200	2.5	180DD	
105.7639	-7.042	8846.768	0.5	D6S	(5D)4D	102942.200	3.5	4F	(5D)4[3]	106.7336	106.7336	13474.411	2.5	D7	(5D)4F	107165.600	3.5	170DD	
105.7703	-9.205	8846.768	0.5	D6S	(5D)4D	103391.290	1.5	4F	(5D)3[12]	106.7367	106.7367	384.790	3.5	D6S	(5D)6D	94073.240	3.5	4SP	(5G)4G
105.7995	-3.360	13673.185	1.5	D7	(5D)4F	108191.600	1.5	230DD		106.7544	106.7544	384.790	3.5	D6S	(5D)6D	94073.240	3.5	4SP	(5D)6D
105.8255	-6.942	8391.938	2.5	D6S	(5D)4D	102887.120	3.5	4F	(5D)4[14]	106.7725	106.7725	8846.768	0.5	D6S	(5D)6D	942503.810	1.5	4SP	(3D)2D
105.8270	-2.929	7955.299	3.5	D6S	(5D)4D	102449.100	2.5	4SP	(3D)2D	106.8337	106.8337	384.790	3.5	D6S	(5D)6D	93988.170	2.5	4SP	(5G)4G
105.8332	-4.183	2837.950	2.5	D7	(5D)4F	97326.270	1.5	4SP	(3P)2P	106.8346	106.8346	384.790	3.5	D6S	(5D)6D	93987.457	3.5	4SP	(5D)6D
105.8376	-6.978	1872.567	4.5	D7	(5D)4F	96336.960	3.5	4SP	(3G)2F	106.8737	106.8737	18360.646	1.5	D7	(5D)2F	111929.100	2.5	290DD	
105.8678	-3.270	13673.185	1.5	D7	(5D)4F	108130.600	2.5	220DD		106.9015	106.9015	667.683	2.5	D6S	(5D)6D	94211.739	2.5	4SP	(5P)4P
105.8815	-7.136	13904.824	0.5	D7	(5D)4F	108371.700	1.5	250DD		106.9256	106.9256	13673.185	1.5	D7	(5D)4F	107196.200	2.5	180DD	
105.8982	-7.436	8680.454	1.5	D6S	(5D)4D	103125.650	0.5	4F	(5D)4[11]	106.9301	106.9301	2837.950	2.5	D7	(5D)4F	96356.960	3.5	4SP	(3G)2F
105.9185	-3.011	8680.454	1.5	D6S	(5D)4D	103110.790	1.5	4F	(5D)4[11]	106.9660	106.9660	0.000	4.5	D6S	(5D)6D	93484.580	4.5	4P	(3F)4F
105.9188	-4.594	13474.411	2.5	D7	(5D)4F	107886.600	3.5	200DD		106.9695	106.9695	0.000	4.5	D6S	(5D)6D	93484.580	4.5	4P	(3F)4F
105.9564	-1.567	384.790	3.5	D6S	(5D)6D	95079.640	3.5	4P	(3F)2F	107.0135	107.0135	384.790	3.5	D6S	(5D)6D	94211.739	2.5	4SP	(5P)4P
105.9564	-6.330	667.683	2.5	D6S	(5D)6D	95046.100	2.5	4P	(3F)2F	107.0188	107.0188	667.683	2.5	D7	(5D)4F	96356.960	3.5	4SP	(3G)2F
105.9642	-3.432	667.683	2.5	D6S	(5D)6D	95039.200	1.5	4P	(3P)2P	107.0354	107.0354	15844.650	4.5	D7	(5D)2G	109271.710	5.5	4SP	(31)21
105.9697	-6.569	1872.567	4.5	D7	(5D)4F	96239.200	4.5	4SP	(3G)2H	107.0600	107.0600	15844.650	4.5	D7	(5D)2G	109271.710	5.5	4SP	(31)21
105.9835	-7.319	8680.454	1.5	D6S	(5D)4D	103034.760	1.5	4F	(5D)4[12]	107.0792	107.0792	667.683	2.5	D6S	(5D)6D	94073.240	3.5	4SP	(5G)4G
105.9941	-3.860	1872.567	4.5	D7	(5D)4F	96217.420	3.5	4SP	(5P)4D	107.0899	107.0899	13474.411	2.5	D7	(5D)4F	106863.200	3.5	160DD	
105.9953	-7.637	8680.454	1.5	D6S	(5D)4D	103024.290	2.5	4F	(5D)4[12]	107.1247	107.1247	862.613	1.5	D6S	(5D)6D	94211.739	2.5	4SP	(5P)4P
106.0267	-3.262	384.790	3.5	D6S	(5D)6D	94700.660	2.5	4P	(3F)2D	107.1576	107.1576	667.683	2.5	D6S	(5D)6D	93987.457	3.5	4SP	(5D)6D
106.0394	-3.750	13904.824	0.5	D7	(5D)4F	94685.090	2.5	4SP	(5D)6P	107.1584	107.1584	384.790	3.5	D6S	(5D)6D	93987.457	3.5	4SP	(5D)6D
106.0683	-9.292	8846.768	0.5	D6S	(5D)4D	103125.650	0.5	4F	(5D)4[11]	107.2880	107.2880	1872.567	4.5	D7	(5D)4F	95079.640	3.5	4P	(3F)2F
106.0764	-7.552	8680.454	1.5	D6S	(5D)4D	102952.120	2.5	4F	(5D)4[13]	107.3169	107.3169	8391.938	2.5	D6S	(5D)4D	101573.900	1.5	4SP	(5D)4P
106.0850	-9.312	8846.768	0.5	D6S	(5D)4D	103110.790	1.5	4F	(5D)4[11]	107.3276	107.3276	667.683	2.5	D6S	(5D)6D	93840.340	1.5	4SP	(5D)6D
106.1472	-4.791	3117.461	1.5	D7	(5D)4F	97326.270	1.5	4SP	(3P)2P	107.3321	107.3321	862.613	1.5	D6S	(5D)6D	94031.378	0.5	4SP	(3D)6D
106.1685	-3.463	0.000	4.5	D6S	(5D)6D	94189.880	5.5	4SP	(5G)4G	107.3384	107.3384	667.683	2.5	D6S	(5D)6D	93830.979	2.5	4SP	(5D)6D
106.1690	-5.004	1872.567	4.5	D7	(5D)4F	96062.060	5.5	4SP	(3G)2H	107.3399	107.3399	3117.461	1.5	D7	(5D)4F	96279.490	2.5	4SP	(3G)2F
106.1706	-9.366	8846.768	0.5	D6S	(5D)4D	103034.760	1.5	4F	(5D)4[12]	107.3769	107.3769	0.000	4.5	D6S	(5D)6D	93129.900	3.5		

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
107.4553	-4.919	15844.650	4.5	(5D)2G	108906.640	3.5	4SP(3G)4H	108.5540	-5.012	15844.650	4.5	D7	(5D)2G	107964.700	4.5	210DD	
107.4641	-1.552	977.053	0.5	D6S	94031.378	0.5	4SP(5D)6D	108.5579	-3.244	0.000	4.5	D6S	(5D)6D	92116.780	4.5	4SP(5G)4H	
107.4988	-4.025	15844.650	4.5	D7	108868.980	4.5	4SP(3G)4H	108.5601	-4.750	1872.567	4.5	D7	(5D)4F	93987.457	3.5	4SP(5D)6D	
107.5036	-4.692	2837.950	2.5	D7	95858.050	1.5	4SP(5P)4D	108.5903	-4.437	0.000	4.5	D6S	(5D)6D	92089.260	3.5	4SP(5G)4H	
107.5147	-4.137	384.790	3.5	D6S	93395.360	2.5	4P	(3F)4F	108.6438	-2.526	384.790	3.5	D6S	(5D)6D	92426.980	4.5	4SP(5G)4F
107.5226	-1.348	862.613	1.5	D6S	93840.340	1.5	4SP(5D)6D	108.6524	-3.577	15844.650	4.5	D7	(5D)2G	107886.600	3.5	200DD	
107.5635	-0.710	862.613	1.5	D6S	93830.979	2.5	4SP(5D)6D	108.6529	-4.055	862.613	1.5	D6S	(5D)6D	92899.200	2.5	4P	
107.5678	-4.210	15844.650	4.5	D7	108809.310	5.5	4SP(3G)4H	108.6629	-4.055	667.683	2.5	D6S	(5D)6D	92899.200	2.5	4P	
107.6502	-2.422	8680.454	1.5	D6S	101573.900	1.5	4SP(5D)4H	108.6857	-4.755	8391.938	2.5	D6S	(5D)6D	92899.200	2.5	4P	
107.6535	-4.408	1872.567	4.5	D7	94763.219	3.5	4SP(5D)6P	108.6904	-3.595	16369.360	3.5	D7	(5D)2G	108373.800	3.5	260DD	
107.6679	-6.303	3117.461	1.5	D7	95995.690	2.5	4SP(5P)4D	108.7195	-5.100	667.683	2.5	D6S	(5D)6D	92647.510	1.5	4P	
107.6852	-0.794	977.053	0.5	D6S	93840.340	1.5	4SP(5D)6D	108.7606	-5.718	384.790	3.5	D6S	(5D)6D	92329.890	2.5	4SP(5G)4F	
107.7354	-5.369	667.683	2.5	D6S	93487.650	3.5	4P	(3F)4F	108.7725	-3.639	667.683	2.5	D6S	(5D)6D	92602.703	3.5	4P
107.7744	-4.950	15844.650	4.5	D7	108631.090	3.5	4SP(3G)4G	108.7800	-6.526	3117.461	1.5	D7	(5D)4F	95046.100	2.5	4P	
107.8224	-3.451	384.790	3.5	D6S	93129.900	3.5	4P	(3F)4D	108.7840	-7.267	2837.950	2.5	D7	(5D)4F	94763.219	3.5	4SP(5D)6P
107.8277	-6.775	3117.461	1.5	D7	95858.050	1.5	4SP(5P)4D	108.7882	-3.692	3117.461	1.5	D7	(5D)4F	95039.200	1.5	4P	
107.8427	-3.065	667.683	2.5	D6S	93395.360	2.5	4P	(3F)4F	108.7956	-0.940	384.790	3.5	D6S	(5D)6D	92300.277	4.5	4SP(5D)6F
107.8433	-3.526	8846.768	0.5	D6S	101573.900	1.5	4SP(5D)4P	108.8125	-5.248	2837.950	2.5	D7	(5D)4F	94739.170	1.5	4SP(5P)4P	
107.8447	-5.116	15844.650	4.5	D7	108570.560	4.5	4SP(3G)4G	108.8167	-4.520	384.790	3.5	D6S	(5D)6D	92282.460	3.5	4SP(5G)4F	
107.8494	-2.276	8680.454	1.5	D6S	101402.380	0.5	4SP(5D)4H	108.8266	-4.484	384.790	3.5	D6S	(5D)6D	92274.120	2.5	4P	
107.9205	-4.300	667.683	2.5	D6S	93328.480	1.5	4P	(3F)4F	108.8497	-5.961	16369.360	3.5	D7	(5D)2G	108239.200	3.5	240DD
107.9328	-5.499	3117.461	1.5	D7	95767.700	0.5	4SP(5P)4D	108.8581	-3.787	2837.950	2.5	D7	(5D)4F	94700.660	2.5	4P	
107.9336	-3.920	2430.097	3.5	D7	95079.640	3.5	4P	(3F)2F	108.8695	-4.679	7955.299	3.5	D6S	(5D)4F	99808.400	3.5	4P
107.9456	-4.689	15844.650	4.5	D7	108483.870	5.5	4SP(3G)4G	108.8766	-6.877	2837.950	2.5	D7	(5D)4F	94685.090	2.5	4SP(5D)6F	
107.9727	-4.514	2430.097	3.5	D7	95046.100	2.5	4P	(3F)2F	108.8936	-4.940	862.613	1.5	D6S	(5D)6D	92995.374	2.5	4P
108.0098	-3.912	862.613	1.5	D6S	93395.360	2.5	4P	(3F)4F	108.9303	-3.307	7955.299	3.5	D6S	(5D)4D	92757.120	4.5	4P
108.0464	-4.147	8846.768	0.5	D6S	101402.380	0.5	4SP(5D)4P	108.9480	-5.092	384.790	3.5	D6S	(5D)6D	92171.716	4.5	4P	
108.0698	-3.596	15844.650	4.5	D7	108906.640	3.5	4SP(3G)4H	108.9504	-6.301	2430.097	3.5	D7	(5D)4F	94211.739	2.5	4SP(5P)4P	
108.0741	-5.896	862.613	1.5	D6S	93395.360	2.5	4P	(3F)4F	108.9543	-4.546	384.790	3.5	D6S	(5D)6D	92154.165	3.5	4SP(5D)6F
108.0913	-9.016	15844.650	4.5	D7	108373.800	3.5	260DD	108.9688	-1.280	108.9688	-1.280			94880.740	0.5	4SP(5P)4P	
108.1086	-4.739	384.790	3.5	D6S	92899.200	2.5	4P	(3F)4D	108.9785	-5.447	16369.360	3.5	D7	(5D)2G	108130.600	2.5	220DD
108.1480	-3.888	862.613	1.5	D6S	93328.480	1.5	4SP(3G)4H	108.9832	-2.515	384.790	3.5	D6S	(5D)6D	92116.780	4.5	4SP(5G)4H	
108.1523	-6.112	667.683	2.5	D6S	93129.900	3.5	4P	(3F)4D	109.0276	-3.057	8680.454	1.5	D6S	(5D)4D	100400.360	2.5	4SP(3P)2D
108.1724	-8.167	7955.299	3.5	D6S	100400.360	2.5	4SP(3P)2D	109.0294	-3.887	2430.097	3.5	D7	(5D)4F	94148.510	4.5	4SP(5G)4G	
108.1875	-0.776	0.000	4.5	D6S	92432.136	5.5	4SP(5D)6F	109.0459	-2.389	384.790	3.5	D6S	(5D)6D	92089.260	3.5	4SP(5G)4H	
108.1935	-3.167	0.000	4.5	D6S	92426.980	4.5	4SP(5G)4F	109.0537	-3.966	7955.299	3.5	D6S	(5D)4D	99653.220	4.5	4SP(3G)2G	
108.2315	-5.588	15844.650	4.5	D7	108239.200	3.5	240DD	109.0620	-5.033	109.0620	-5.033			92358.610	1.5	4SP(5G)4F	
108.2820	-4.869	977.053	0.5	D6S	93328.480	1.5	4P	(3F)4F	109.0748	-6.495	109.0748	-6.495			99635.520	3.5	4SP(3G)2G
108.3035	-6.896	2430.097	3.5	D7	94763.219	3.5	4SP(5D)6P	109.0864	-4.237	977.053	0.5	D6S	(5D)6D	92647.510	1.5	4P	
108.3220	-3.722	1872.567	4.5	D7	94189.880	5.5	4SP(5G)4G	109.0962	-3.364	667.683	2.5	D6S	(5D)6D	92329.890	2.5	4SP(5G)4F	
108.3420	-6.463	0.000	4.5	D6S	92282.460	3.5	4SP(5G)4F	109.1189	-3.985	2430.097	3.5	D7	(5D)4F	94073.240	3.5	4SP(5G)4G	
108.3630	-6.463	0.000	4.5	D6S	92282.460	3.5	4SP(5G)4F	109.1373	-4.854	2430.097	3.5	D7	(5D)4F	94057.773	4.5	4SP(5D)6D	
108.3706	-4.211	1872.567	4.5	D7	94148.510	4.5	4SP(5G)4G	109.1444	-4.897	3117.461	1.5	D7	(5D)4F	94739.170	1.5	4SP(3P)4P	
108.3873	-5.096	16369.360	3.5	D7	108631.090	3.5	4SP(3G)4G	109.1523	-1.559	1872.567	4.5	D7	(5D)4F	93487.650	3.5	4P	
108.3895	-4.735	16369.360	3.5	D7	108629.250	2.5	4SP(3G)4G	109.1527	-3.298	109.1527	-3.298			92282.460	3.5	4SP(5G)4F	
108.3952	-5.206	2430.097	3.5	D7	94685.090	2.5	4SP(5D)6P	109.1560	-1.298	1872.567	4.5	D7	(5D)4F	93484.580	4.5	4P	
108.4108	-5.106	2837.950	2.5	D7	95079.640	3.5	4P	(3F)2F	109.1626	-3.672	667.683	2.5	D6S	(5D)6D	92744.120	2.5	4P
108.4228	-4.194	667.683	2.5	D6S	92899.200	2.5	4P	(3F)4D	109.1759	-6.662	16369.360	3.5	D7	(5D)2G	107964.700	4.5	210DD
108.4388	-5.875	384.790	3.5	D6S	92602.703	3.5	4P	(3F)2G	109.1812	-5.327	862.613	1.5	D6S	(5D)6D	92453.460	0.5	4P
108.4503	-4.598	2837.950	2.5	D7	95046.100	2.5	4P	(3F)2F	109.1903	-4.599	3117.461	1.5	D7	(5D)4F	94700.660	2.5	4P
108.4584	-3.780	2837.950	2.5	D7	95039.200	1.5	4P	(3P)2P	109.2089	-7.930	3117.461	1.5	D7	(5D)4F	94685.090	2.5	4SP(5D)6P
108.4585	-5.019	16369.360	3.5	D7	108570.560	4.5	4SP(3G)4G	109.2203	-0.051	109.2203	-0.051			93988.170	2.5	4SP(5G)4G	
108.4591	-5.095	1872.567	4.5	D7	94073.240	3.5	4SP(5G)4G	109.2206	-5.346	667.683	2.5	D6S	(5D)6D	92225.538	1.5	5P	
108.4773	-3.733	1872.567	4.5	D7	94057.773	4.5	4SP(5D)6D	109.2211	-4.001	2430.097	3.5	D7	(5D)4F	93987.457	3.5	4SP(5D)6D	
108.4932	-3.675	0.000	4.5	D6S	92171.716	4.5	4P	(3F)2G	109.2249	-5.888	13474.411	2.5	D7	(5D)4F	105028.600	3.5	4SP(3I)4H
108.4992	-2.372	0.000	4.5	D6S	92166.600	5.5	4SP(5G)4H	109.2316	-5.679	667.683	2.5	D6S	(5D)6D	92216.320	1.5	4P	
108.5138	-3.306	0.000	4.5	D6S	92154.165	3.5	4SP(5D)6F										

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
109.2690	-5.114	16369.360	3.5	D7 (5D)2G	107886.600	3.5	200DD	110.2372	-5.416	3117.461	1.5	D7 (5D)4F	93830.979	2.5	4SP(5D)6D
109.2944	-4.164	862.613	1.5	D6S (5D)6D	92358.610	1.5	4SP(5G)4F	110.2384	-1.354	862.613	1.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P
109.3058	-1.154	667.683	2.5	D6S (5D)6D	92154.165	3.0	4SP(5D)6F	110.2338	-1.843	2430.097	3.5	D7 (5D)4F	91329.900	3.5	4P (3F)4D
109.3178	-6.066	977.053	0.5	D6S (5D)6D	92453.460	0.5	4P (3F)4D	110.2709	-2.510	384.790	2.5	D7 (5D)4F	91070.547	2.5	5P (5D)4F
109.3287	-5.844	862.613	1.5	D6S (5D)6D	92329.890	2.5	4SP(5G)4F	110.3148	-2.446	2837.950	2.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F
109.3468	-3.712	862.613	1.5	D6S (5D)6D	92314.758	0.5	5P (5D)4P	110.3249	-4.196	7955.299	3.5	D6S (5D)4D	98596.650	4.5	4SP(5D)4F
109.3834	-2.271	667.683	2.5	D6S (5D)6D	92089.260	3.5	4SP(5G)4H	110.3302	-5.078	16369.360	3.5	D7 (5D)2G	107006.350	4.5	4SP(3I)2H
109.3860	-2.537	18360.646	1.5	D7 (5D)2P	109780.000	1.5	280DD	110.3497	-4.419	21308.040	1.5	D7 (5D)2D	111929.000	2.5	290DD
109.3895	-4.305	8391.938	2.5	D6S (5D)4D	99808.400	3.5	4P (1G)2G	110.3990	-2.272	7955.299	3.5	D6S (5D)4D	98535.850	3.5	4SP(5D)4F
109.3948	-4.980	20516.960	2.5	D7 (5D)2D	111929.000	2.5	290DD	13474.411	2.5	13474.411	2.5	D7 (5D)4P	104046.350	2.5	4F(5D)0[3]
109.3954	-3.279	862.613	1.5	D6S (5D)6D	92274.120	2.5	4P (3P)4P	110.4246	-4.551	1872.567	4.5	D7 (5D)4F	92432.136	5.5	4SP(5D)6F
109.4081	-4.231	2430.097	3.5	D7 (5D)4F	93830.979	2.5	4SP(5D)6D	110.4272	-1.918	2837.950	2.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F
109.4313	-6.193	977.053	0.5	D6S (5D)6D	92358.610	1.5	4SP(5G)4F	110.4308	-1.281	1872.567	4.5	D7 (5D)4F	92426.980	4.5	4SP(5G)4F
109.4406	-5.513	2837.950	2.5	D7 (5D)4F	94211.739	2.5	4SP(5P)4F	110.4365	-2.306	7955.299	3.5	D6S (5D)4D	98505.100	2.5	4SP(5D)4D
109.4536	-3.620	862.613	1.5	D6S (5D)6D	92225.538	1.5	5P (5D)4P	110.4381	-2.269	13474.411	2.5	D7 (5D)4P	104022.890	3.5	4F(5D)0[3]
109.4646	-5.646	862.613	1.5	D6S (5D)6D	92216.320	1.5	4P (3P)2D	110.4470	-3.825	667.683	2.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
109.4678	-1.170	667.683	2.5	D6S (5D)6D	92018.729	2.5	4SP(5D)6F	110.4773	-4.345	384.790	3.5	D6S (5D)6D	90901.124	2.5	5P (5D)4P
109.4838	-4.956	977.053	0.5	D6S (5D)6D	92314.758	0.5	5P (5D)4P	110.4807	-2.736	13474.411	2.5	D7 (5D)4P	103987.930	2.5	4F(5D)1[13]
109.5039	-7.302	15844.650	4.5	D7 (5D)2G	107165.600	3.5	170DD	110.4890	-4.948	8391.938	2.5	D6S (5D)4D	98898.710	3.5	4P (1G)2F
109.5802	-1.640	1872.567	4.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D	110.4969	-1.721	667.683	2.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P
109.5909	-3.217	977.053	0.5	D6S (5D)6D	92225.538	1.5	5P (5D)4P	110.5029	-3.095	13474.411	2.5	D7 (5D)2G	106863.200	3.5	160DD
109.5911	-2.900	667.683	2.5	D6S (5D)6D	91915.950	1.5	4SP(5D)6F	110.5048	-7.922	110.5048	-7.922				
109.5967	-4.327	8391.938	2.5	D6S (5D)4D	99635.520	3.5	4SP(3G)2G	110.5088	-2.369	2837.950	2.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
109.6019	-5.335	977.053	0.5	D6S (5D)6D	92216.320	1.5	4P (3P)2D	110.5350	-1.578	2430.097	3.5	D7 (5D)4F	92899.200	2.5	4P (3F)4D
109.6067	-4.093	2837.950	2.5	D7 (5D)4F	94073.240	3.5	4SP(5G)4G	110.5754	-0.853	7955.299	3.5	D6S (5D)4D	98391.330	3.5	4SP(5D)4D
109.6607	-0.505	384.790	3.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P	110.5856	-4.639	1872.567	4.5	D7 (5D)4F	92300.277	4.5	4SP(5D)6F
109.6782	-0.955	667.683	2.5	D6S (5D)6D	91843.470	1.5	5P (5D)6P	110.5958	-3.458	18360.646	1.5	D7 (5D)2P	108780.000	1.5	270DD
109.6877	-0.189	0.000	4.5	D6S (5D)6D	92018.729	2.5	4SP(5D)6F	110.6074	-2.950	1872.567	4.5	D7 (5D)4F	92282.460	3.5	4SP(5G)4F
109.6952	-4.680	15844.650	4.5	D7 (5D)2G	107006.350	4.5	4SP(3I)2H	110.6094	-2.224	13474.411	2.5	D7 (5D)4P	103882.680	3.5	4F(5D)1[4]
109.7019	-1.381	862.613	1.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P	110.6160	-2.453	13474.411	2.5	D7 (5D)4P	91070.547	2.5	5P (5D)4F
109.7090	-4.146	2837.950	2.5	D7 (5D)4F	93987.457	3.5	4SP(5D)6D	110.6203	-2.410	7955.299	3.5	D6S (5D)6D	98354.660	2.5	4SP(5D)4F
109.7714	-6.263	20830.582	2.5	D6S (3F)4P	111929.000	2.5	290DD	110.6221	-5.409	0.000	4.5	D6S (5D)6D	90397.868	3.5	5P (5D)4D
109.8207	-1.829	2430.097	3.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F	110.6246	-1.854	384.790	3.5	D6S (5D)6D	98354.660	2.5	4SP(5D)4F
109.8244	-2.313	2430.097	3.5	D7 (5D)4F	93484.580	4.5	4P (3F)4F	110.6399	-2.948	13474.411	2.5	D7 (5D)4P	90780.621	3.5	5P (5D)4F
109.8257	-1.098	862.613	1.5	D6S (5D)6D	91915.950	1.5	4SP(5D)6F	110.6432	-3.154	667.683	2.5	D6S (5D)6D	91048.256	1.5	5P (5D)4D
109.8677	-5.962	15844.650	4.5	D7 (5D)2G	106863.200	3.5	160DD	110.6466	-1.806	8391.938	2.5	D6S (5D)4D	98770.140	1.5	4SP(5D)4D
109.8872	-5.449	2837.950	2.5	D7 (5D)4F	93840.340	1.5	4SP(5D)6D	110.6523	-1.117	13673.185	1.5	D7 (5D)4P	104046.350	2.5	4F(5D)0[3]
109.8985	-4.893	2837.950	2.5	D7 (5D)4F	93830.979	2.5	4SP(5D)6D	110.6853	-2.774	862.613	1.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
109.9045	-1.990	862.613	1.5	D6S (5D)6D	91850.722	0.5	4SP(5D)6F	110.6965	-4.424	862.613	1.5	D6S (5D)6D	91199.746	0.5	5P (5D)4D
109.9132	-1.100	862.613	1.5	D6S (5D)6D	91843.470	1.5	5P (5D)6P	110.7086	-1.856	8680.454	1.5	D6S (5D)4D	99007.700	0.5	4SP(5D)4D
109.9321	-1.902	2430.097	3.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F	110.7239	-2.255	13673.185	1.5	D7 (5D)4P	103987.930	2.5	4F(5D)1[3]
109.9585	-4.174	7955.299	3.5	D6S (5D)4D	98998.170	3.5	4P (1G)2F	110.7412	-2.929	0.000	4.5	D6S (5D)6D	90300.625	3.5	5P (5D)6F
109.9639	-2.071	977.053	0.5	D6S (5D)6D	91915.950	1.5	4SP(5D)6F	110.7430	-1.807	1872.567	4.5	D7 (5D)4F	92171.716	4.5	4P (3F)2G
109.9942	-6.949	3117.461	1.5	D7 (5D)4F	94031.378	0.5	4SP(5D)6D	110.7490	-4.061	13673.185	1.5	D7 (5D)4P	103967.490	0.5	4SP(3P)2S
110.0020	-0.853	667.683	2.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P	110.7493	-5.916	1872.567	4.5	D7 (5D)4F	92166.600	5.5	4SP(5G)4H
110.0192	-3.115	18886.780	0.5	D7 (5D)2P	109780.000	1.5	280DD	110.7518	-2.815	2837.950	2.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D
110.0429	-1.486	977.053	0.5	D6S (5D)6D	91850.722	0.5	4SP(5D)6F	110.7645	-7.237	1872.567	4.5	D7 (5D)4F	92154.165	3.5	4SP(5D)6F
110.0465	-4.180	3117.461	1.5	D7 (5D)4F	93988.170	2.5	4SP(5G)4G	110.7691	-2.542	3117.461	1.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F
110.0517	-1.097	977.053	0.5	D6S (5D)6D	91843.470	1.5	5P (5D)6P	110.7805	-4.805	18360.646	1.5	D7 (5D)2P	108629.250	2.5	4SP(3G)4G
110.0770	-5.823	15844.650	4.5	D7 (5D)2G	106690.170	5.5	4SP(3I)2H	110.7846	-2.760	2430.097	3.5	D7 (5D)4F	92695.374	2.5	4P (3F)2D
110.0996	-7.240	16369.360	3.5	D7 (5D)2G	107196.200	2.5	180DD	110.7984	-5.656	384.790	3.5	D6S (5D)6D	90638.822	2.5	5P (5D)4D
110.1367	-6.188	16369.360	3.5	D7 (5D)2G	107165.600	3.5	170DD	110.8104	-2.748	1872.567	4.5	D7 (5D)4F	92116.780	4.5	4SP(5G)4H
110.1526	-0.922	384.790	3.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P	110.8191	-1.237	13474.411	2.5	D7 (5D)4P	103711.570	3.5	4F(5D)2[4]
110.1557	-2.585	0.000	4.5	D6S (5D)6D	90780.621	3.5	5P (5D)4F	110.8237	-2.660	667.683	2.5	D6S (5D)6D	90901.124	2.5	5P (5D)4P
110.2170	-2.785	1872.567	4.5	D7 (5D)4F	92602.703	3.5	4P (3F)2G	110.8256	-3.172	977.053	0.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
110.2258	-8.079	3117.461	1.5	D7 (5D)4F	93840.340	1.5	4SP(5D)6D	110.8264	-3.769	667.683	2.5	D6S (5D)6D	90898.873	1.5	4P (3P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
110.8352	-1.921	13474.411	2.5	D7	103698.440	2.5	4F(5D)2[3]	111.2716	-6.085	0.000	4.5	D6S	89890.373	3.5	4P (3F)4G
110.8369	-5.012	977.053	0.5	D6S	91199.746	0.5	5P (5D)4D	111.2716	-4.639	2430.097	3.5	D7	92300.277	4.5	4SP(5D)6F
110.8438	-1.631	21711.917	3.5	D6S	111929.000	2.5	290DD	111.2765	-1.743	13474.411	2.5	D7	103340.640	3.5	4F(5D)3[4]
110.8442	-5.611	1872.567	4.5	D7	92089.260	3.5	4SP(5G)4H	111.2812	-4.938	977.053	0.5	D6S	90839.480	0.5	4P (3F)4P
110.8504	-1.300	0.000	4.5	D6S	90211.700	5.5	4P (3F)4G	111.2846	-5.911	13474.411	2.5	D7	103334.100	2.5	4SP(3D)2F
110.8512	-2.044	3117.461	1.5	D7	93328.480	1.5	4P (3F)4F	111.2874	-3.199	2837.950	2.5	D7	92695.374	2.5	4P (3F)2D
110.8550	-2.296	862.613	1.5	D6S	91070.547	2.5	5P (5D)4F	111.2937	-1.541	2430.097	3.5	D7	92282.460	3.5	4SP(5G)4F
110.8618	-2.307	13474.411	2.5	D7	103676.780	3.5	4F(5D)2[3]	111.3040	-2.766	2430.097	3.5	D7	92274.120	2.5	4P (3F)4P
110.8699	-2.308	13673.185	1.5	D7	103869.020	1.5	4F(5D)2[1]	111.3202	-4.126	18360.646	1.5	D7	108191.600	1.5	230DD
110.8718	-4.129	13474.411	2.5	D7	103668.690	1.5	4F(5D)2[1]	111.3280	-1.633	8680.454	1.5	D6S	98505.100	2.5	4SP(5D)4D
110.8813	-2.026	13474.411	2.5	D7	103660.980	2.5	4F(5D)2[2]	111.3336	-1.367	667.683	2.5	D6S	90487.810	2.5	5P (5D)6F
110.8824	-3.429	862.613	1.5	D6S	91048.256	1.5	5P (5D)4D	111.3467	-1.518	2837.950	2.5	D7	92647.510	1.5	4P (3F)4D
110.8837	-2.134	13673.185	1.5	D7	103857.740	2.5	4F(5D)1[2]	111.3535	-6.066	8391.938	2.5	D6S	98196.000	1.5	4SP(5D)4F
110.8984	-1.515	2430.097	3.5	D7	92602.703	3.5	4P (3F)2G	111.3764	-2.139	862.613	1.5	D6S	90648.217	0.5	5P (5D)6F
110.9006	-2.396	13474.411	2.5	D7	103645.220	1.5	4F(5D)2[2]	111.3812	-3.667	3117.461	1.5	D7	92899.200	2.5	4P (3F)4D
110.9128	-1.692	8846.768	0.5	D6S	99007.700	0.5	4SP(5D)4D	111.3881	-2.331	862.613	1.5	D6S	90638.822	2.5	5P (5D)4D
110.9337	-2.809	8391.938	2.5	D6S	98535.850	3.5	4SP(5D)4F	111.3941	-1.718	13904.824	0.5	D7	103676.220	0.5	4F(5D)2[1]
110.9669	-4.631	21812.055	1.5	D6S	111929.000	2.5	290DD	111.3958	-4.742	18360.646	1.5	D7	108130.600	2.5	220DD
110.9716	-1.333	8391.938	2.5	D6S	98505.100	2.5	4SP(5D)4D	111.3992	-4.701	862.613	1.5	D6S	90629.902	1.5	4P (3F)4S
110.9719	-1.822	667.683	2.5	D6S	90780.621	3.5	5P (5D)4F	111.4023	-2.326	2837.950	2.5	D7	92602.703	3.5	4P (3F)2G
110.9841	-2.275	384.790	3.5	D6S	90487.810	2.5	5P (5D)6F	111.4031	-3.361	13673.185	1.5	D7	103437.280	1.5	4F(5D)3[1]
111.0005	-1.416	8680.454	1.5	D6S	98770.140	1.5	4SP(5D)4D	111.4031	-1.977	13904.824	0.5	D7	103668.690	1.5	4F(5D)2[1]
111.0233	-3.446	977.053	0.5	D6S	91048.256	1.5	5P (5D)4D	111.4270	-2.050	13673.185	1.5	D7	103418.080	0.5	4F(5D)3[0]
111.0280	-1.429	0.000	4.5	D6S	90667.347	4.5	5P (5D)6F	111.4272	-6.611	13673.185	1.5	D7	103417.910	1.5	4F(5D)3[1]
111.0338	-5.059	13904.824	0.5	D7	103967.490	0.5	4SP(3F)2S	111.4310	-3.053	2430.097	3.5	D7	92171.716	4.5	4P (3F)2G
111.0355	-2.332	2837.950	2.5	D7	92899.200	2.5	4P (3F)4D	111.4325	-2.204	13904.824	0.5	D7	103645.220	1.5	4F(5D)2[2]
111.0583	-6.644	0.000	4.5	D6S	90042.779	4.5	4P (3F)4G	111.4416	-2.972	13673.185	1.5	D7	103406.250	2.5	4F(5D)3[2]
111.0636	-5.770	862.613	1.5	D6S	90901.124	2.5	5P (5D)4P	111.4443	-1.463	667.683	2.5	D6S	90597.868	3.5	5P (5D)6F
111.0664	-3.215	862.613	1.5	D6S	90898.873	1.5	5P (5D)4P	111.4452	-1.543	667.683	2.5	D6S	90593.497	1.5	5P (5D)6F
111.0799	-2.420	13673.185	1.5	D7	103698.440	2.5	4F(5D)2[3]	111.4528	-4.835	2430.097	3.5	D7	92154.165	3.5	4SP(5D)6F
111.0950	-1.654	384.790	3.5	D6S	90397.868	3.5	5P (5D)4D	111.4602	-2.068	13673.185	1.5	D7	103391.290	1.5	4F(5D)3[2]
111.1074	-3.592	18360.646	1.5	D7	108371.700	1.5	250DD	111.4712	-7.715	13474.411	2.5	D7	103183.700	3.5	4SP(3D)2F
111.1090	-1.387	384.790	3.5	D6S	90386.528	4.5	5P (5D)4F	111.4931	-2.372	13673.185	1.5	D7	103391.290	1.5	4F(5D)3[2]
111.1119	-1.464	8391.938	2.5	D6S	98391.330	3.5	4SP(5D)4D	111.4993	-4.032	2430.097	3.5	D7	103364.840	2.5	4F(5D)3[3]
111.1150	-2.284	2430.097	3.5	D7	92426.980	4.5	4SP(5G)4F	111.5044	-1.004	384.790	3.5	D6S	92116.780	4.5	4SP(5G)4H
111.1167	-2.375	13673.185	1.5	D7	103668.690	1.5	4F(5D)2[1]	111.5148	-1.684	8680.454	1.5	D6S	90067.347	4.5	5P (5D)6F
111.1262	-3.086	13673.185	1.5	D7	103660.980	2.5	4F(5D)2[2]	111.5186	-1.683	977.053	0.5	D6S	98354.660	2.5	4SP(5D)4F
111.1397	-5.397	862.613	1.5	D6S	90839.480	0.5	4P (3F)4P	111.5313	-5.946	13673.185	1.5	D7	103334.100	2.5	4SP(3D)2F
111.1456	-3.306	13673.185	1.5	D7	103645.220	1.5	4F(5D)2[2]	111.5335	-4.570	2430.097	3.5	D7	92089.260	3.5	4SP(5G)4H
111.1468	-2.074	667.683	2.5	D6S	90638.822	2.5	5P (5D)4D	111.5350	-5.221	384.790	3.5	D6S	90042.779	4.5	4P (3F)4G
111.1553	-1.427	13904.824	0.5	D7	103869.020	1.5	4F(5D)1[2]	111.5414	-3.684	977.053	0.5	D6S	90629.902	1.5	4P (3F)4S
111.1572	-1.373	8391.938	2.5	D6S	98534.660	2.5	4SP(5D)4F	111.5618	-2.091	13474.411	2.5	D7	103110.790	1.5	4F(5D)4[1]
111.1578	-4.044	667.683	2.5	D6S	90629.902	1.5	4P (3F)4S	111.5661	-1.541	667.683	2.5	D6S	90300.625	3.5	5P (5D)6F
111.1774	-2.698	8391.938	2.5	D6S	98338.280	1.5	4SP(5F)4S	111.5758	-1.591	862.613	1.5	D6S	90487.810	2.5	5P (5D)6F
111.1809	-2.617	13474.411	2.5	D7	103447.910	1.5	4F(5D)3[1]	111.5867	-1.884	977.053	0.5	D6S	90593.497	1.5	5P (5D)6F
111.1953	-1.684	13474.411	2.5	D7	103406.250	2.5	4F(5D)3[2]	111.6213	-5.991	2430.097	3.5	D7	92089.260	3.5	4SP(5G)4H
111.2028	-2.074	667.683	2.5	D6S	90593.497	1.5	5P (5D)6F	111.6347	-3.780	3117.461	1.5	D7	92695.374	2.5	4P (3F)2D
111.2048	-0.701	0.000	4.5	D6S	89924.175	5.5	5P (5D)6F	111.6566	-2.037	13474.411	2.5	D7	103024.290	2.5	4F(5D)4[2]
111.2058	-1.587	8846.768	0.5	D6S	98770.140	1.5	4SP(5D)4D	111.6696	-1.765	13904.824	0.5	D7	103437.280	0.5	4F(5D)3[1]
111.2077	-3.257	977.053	0.5	D6S	90898.873	1.5	4P (3F)4P	111.6943	-3.213	3117.461	1.5	D7	92647.510	1.5	4P (3F)4D
111.2138	-2.067	13474.411	2.5	D7	103391.290	1.5	4F(5D)3[2]	111.7061	-2.782	2837.950	2.5	D7	92358.610	1.5	4SP(5G)4F
111.2211	-1.497	384.790	3.5	D6S	90300.625	3.5	5P (5D)6F	111.7124	-4.362	8680.454	1.5	D6S	98196.000	1.5	4SP(5D)4F
111.2250	-1.394	13474.411	2.5	D7	103385.730	3.5	4F(5D)3[3]	111.7153	-3.075	13904.824	0.5	D7	103418.080	0.5	4F(5D)3[0]
111.2350	-2.105	2430.097	3.5	D7	92329.890	2.5	4SP(5G)4F	111.7155	-2.206	13904.824	0.5	D7	103417.910	1.5	4F(5D)3[1]
111.2396	-7.349	7955.299	3.5	D6S	97851.350	4.5	4P (1G)2H	111.7249	-5.271	384.790	3.5	D6S	90890.373	3.5	4P (3F)4G
111.2431	-3.320	18886.780	0.5	D7	108780.000	1.5	270DD	111.7419	-1.524	2837.950	2.5	D7	92329.890	2.5	4SP(5G)4F
111.2465	-1.727	13474.411	2.5	D7	103364.840	2.5	4F(5D)3[3]								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
111.7424	-2.667	8846.768	0.5	D6S (5D)4D	98338.280	1.5	4SP(5P)4S	112.6007	-3.350	20340.300	5.5	D7 (5D)2H	109149.680	6.5	J	4SP(31)2I
111.7487	-3.019	13904.824	0.5	D7 (5D)4P	103331.290	1.5	4F(5D)3[2]	112.6145	-5.373	3117.461	1.5	D7 (5D)4F	91915.950	1.5	D4SP(5P)6F	
111.7507	-6.758	18886.780	0.5	D7 (5D)2P	108371.700	1.5	2500D	112.6421	-0.864	667.683	2.5	D6S (5D)6D	89444.458	2.5	4SP(5P)6P	
111.7597	-1.709	13474.411	2.5	D7 (5D)4P	102952.120	2.5	4F(5D)4[3]	112.6432	-4.742	13673.185	1.5	D7 (5D)4P	102449.100	2.5	4SP(3D)2D	
111.7721	-1.798	13474.411	2.5	D7 (5D)4P	102942.200	3.0	5 4F(5D)4[3]	112.6591	-0.932	862.613	1.5	D6S (5D)6D	89625.940	1.5	4SP(5P)6P	
111.7912	-1.600	13673.185	1.5	D7 (5D)4P	103125.650	0.5	4F(5D)4[1]	112.6840	-1.007	384.790	3.5	D6S (5D)6D	89128.561	3.5	4SP(5P)6P	
111.8012	-2.276	2837.950	2.5	D7 (5D)4F	92282.460	3.5	4SP(5G)4F	112.6915	-4.405	2430.097	3.5	D7 (5D)4F	91167.937	3.5	5P (5D)6P	
111.8098	-1.816	13673.185	1.5	D7 (5D)4P	103110.790	1.5	4F(5D)4[1]	112.6923	-4.965	2837.950	2.5	D7 (5D)4F	91575.139	2.5	5P (5D)6P	
111.8116	-1.711	2837.950	2.5	D7 (5D)4F	92274.120	2.5	4P (3F)4G	112.6955	-1.186	384.790	3.5	D6S (5D)6D	89119.457	2.5	5P (5D)6D	
111.8409	-1.750	13474.411	2.5	D7 (5D)4P	102887.120	3.5	4F(5D)4[4]	112.6973	-4.719	3117.461	1.5	D7 (5D)4F	91850.722	0.5	4SP(5D)6F	
111.8479	-2.789	2837.950	2.5	D7 (5D)4F	92225.538	1.5	5P (5D)4P	112.7065	-6.286	3117.461	1.5	D7 (5D)4F	91843.470	1.5	5P (5D)6P	
111.8839	-4.289	2837.950	2.5	D7 (5D)4F	92216.320	1.5	4P (3F)2D	112.7098	-1.845	0.000	4.5	D6S (5D)6D	88723.400	4.5	5P (5D)6P	
111.9049	-1.725	13673.185	1.5	D7 (5D)4P	103034.760	1.5	4F(5D)4[2]	112.7860	-1.489	667.683	2.5	D6S (5D)6D	89331.195	1.5	5P (5D)6D	
111.9180	-2.043	13673.185	1.5	D7 (5D)4P	103024.290	2.5	4F(5D)4[2]	112.7914	-5.345	16369.360	3.5	D7 (5D)2G	105028.600	3.5	4SP(31)4H	
111.9204	-5.617	8846.768	0.5	D6S (5D)4D	98196.000	1.5	4SP(5D)4F	112.8046	-0.969	977.053	0.5	D6S (5D)6D	89625.940	1.5	4SP(5P)6P	
111.9287	-5.434	384.790	3.5	D6S (5D)6D	89727.342	2.5	4P (3F)4G	112.8085	-2.202	8680.454	1.5	D6S (5D)4D	97326.270	1.5	4SP(3P)2P	
111.9370	-1.739	3117.461	1.5	D7 (5D)4F	92453.460	0.5	4P (3F)4D	112.8153	-2.011	2430.097	3.5	D7 (5D)4F	91070.547	2.5	5P (5D)4F	
111.9618	-6.847	2837.950	2.5	D7 (5D)4F	92154.165	3.5	4SP(5D)6F	112.8483	-2.432	0.000	4.5	D6S (5D)6D	88614.520	4.5	4SP(5P)6D	
111.9760	-4.752	18886.780	0.5	D7 (5D)2P	108191.600	1.5	2300D	112.8523	-9.450	23317.633	2.5	D5S2(7S)6S	111929.000	2.5	2900D	
111.9879	-3.265	1872.567	4.5	D7 (5D)4F	91167.937	3.5	5P (5D)6P	112.8557	-2.165	862.613	1.5	D6S (5D)6D	89471.365	0.5	5P (5D)6D	
112.0085	-1.990	13673.185	1.5	D7 (5D)4P	102952.120	2.5	4F(5D)4[3]	112.8681	-5.302	13904.824	0.5	D7 (5D)4F	102503.810	1.5	4SP(3D)2D	
112.0284	-2.272	20516.960	2.5	D7 (5D)2D	109780.000	1.5	2800D	112.8899	-1.105	862.613	1.5	D6S (5D)6D	89444.458	2.5	4SP(5P)6P	
112.0432	-5.255	2837.950	2.5	D7 (5D)4F	92089.260	3.5	4SP(5G)4H	112.9070	-5.745	16369.360	3.5	D7 (5D)2G	104937.800	4.5	4SP(31)4H	
112.0559	-1.448	3117.461	1.5	D7 (5D)4F	92358.610	1.5	4SP(5G)4F	112.9577	-4.800	20340.300	5.5	D7 (5D)2H	108809.310	5.5	4SP(3G)4H	
112.0791	-4.729	667.683	2.5	D6S (5D)6D	89890.373	3.5	4P (3F)4G	112.9621	-1.407	1872.567	4.5	D7 (5D)4F	90397.868	3.5	5P (5D)4D	
112.0815	-3.062	13904.824	0.5	D7 (5D)4P	103125.650	0.5	4F(5D)4[1]	112.9765	-1.591	1872.567	4.5	D7 (5D)4F	90386.528	4.5	5P (5D)4F	
112.0920	-2.229	3117.461	1.5	D7 (5D)4F	92329.890	2.5	4SP(5G)4F	113.0016	-2.513	977.053	0.5	D6S (5D)6D	89471.365	0.5	5P (5D)6D	
112.1001	-3.087	13904.824	0.5	D7 (5D)4P	103110.790	1.5	4F(5D)4[1]	113.0205	-2.453	8846.768	0.5	D6S (5D)4D	97326.270	1.5	4SP(3P)2P	
112.1110	-5.101	3117.461	1.5	D7 (5D)4F	92314.758	0.5	5P (5D)4P	113.0302	-3.258	21308.040	1.5	D7 (5D)2D	109780.000	1.5	2800D	
112.1278	-7.297	15844.650	4.5	D7 (5D)2G	105028.600	3.5	4SP(31)4H	113.0314	-1.577	2430.097	3.5	D7 (5D)4F	90901.124	2.5	5P (5D)4P	
112.1318	-5.207	2837.950	2.5	D7 (5D)4F	92018.729	2.5	4SP(5D)6F	113.0339	-3.289	20340.300	5.5	D7 (5D)2H	108809.310	5.5	4SP(3G)4H	
112.1621	-2.552	3117.461	1.5	D7 (5D)4F	92274.120	2.5	4P (3F)4P	113.0343	-2.993	384.790	3.5	D6S (5D)6D	88853.533	3.5	5P (5D)6D	
112.1767	-4.158	2430.097	3.5	D7 (5D)4F	91575.139	2.5	5P (5D)6P	113.0345	-1.938	862.613	1.5	D6S (5D)6D	89331.195	1.5	5P (5D)6D	
112.1957	-3.138	13904.824	0.5	D7 (5D)4P	103034.760	1.5	4F(5D)4[2]	113.0379	-2.928	20805.770	4.5	D7 (5D)2H	109271.710	5.5	4SP(31)2I	
112.1975	-0.544	0.000	4.5	D6S (5D)6D	89128.561	3.5	4SP(5P)6P	113.0443	-1.265	667.683	2.5	D6S (5D)6D	89128.561	3.5	4SP(5P)6P	
112.2100	-2.241	22810.357	3.5	D6S (3F)4F	111929.000	2.5	2900D	113.0484	-6.250	3117.461	1.5	D7 (5D)4F	91575.139	2.5	5P (5D)6P	
112.2233	-2.926	3117.461	1.5	D7 (5D)4F	92225.538	1.5	5P (5D)4P	113.0560	-2.027	667.683	2.5	D6S (5D)6D	89119.457	2.5	5P (5D)6D	
112.2349	-2.165	3117.461	1.5	D7 (5D)4F	92216.320	1.5	4P (3F)2D	113.0863	-2.815	1872.567	4.5	D7 (5D)4F	90300.625	3.5	5P (5D)6F	
112.2421	-5.768	15844.650	4.5	D7 (5D)2G	104937.800	4.5	4SP(31)4H	113.1200	-2.739	7955.299	3.5	D6S (5D)4D	96356.960	3.5	4SP(3G)2F	
112.2612	-5.048	2837.950	2.5	D7 (5D)4F	91915.950	1.5	4SP(5D)6F	113.1354	-4.569	20516.960	2.5	D7 (5D)2D	108906.640	3.5	4SP(3G)4H	
112.2843	-0.741	384.790	3.5	D6S (5D)6D	89444.458	2.5	4SP(5P)6P	113.1364	-4.737	20340.300	5.5	D7 (5D)2H	108729.160	6.5	4SP(3G)4H	
112.2843	-6.724	667.683	2.5	D6S (5D)6D	89727.342	2.5	4P (3F)4G	113.1594	-2.654	2837.950	2.5	D7 (5D)4F	91208.887	1.5	5P (5D)4F	
112.3224	-5.318	13474.411	2.5	D7 (5D)4P	102503.810	1.5	4SP(3D)2D	113.1809	-4.303	977.053	0.5	D6S (5D)6D	89331.195	1.5	5P (5D)6D	
112.3526	-5.653	2837.950	2.5	D7 (5D)4F	91843.470	1.5	5P (5D)6P	113.1855	-2.656	2430.097	3.5	D7 (5D)4F	90780.621	3.5	5P (5D)4F	
112.3726	-1.390	22939.358	2.5	D6S (3F)4F	111929.000	2.5	2900D	113.2001	-1.871	1872.567	4.5	D7 (5D)4F	90211.700	5.5	4P (3F)4G	
112.3947	-5.977	13474.411	2.5	D7 (5D)4P	102449.100	2.5	4SP(3D)2D	113.2008	-5.209	384.790	3.5	D6S (5D)6D	88723.400	4.5	5P (5D)6D	
112.4123	-1.138	667.683	2.5	D6S (5D)6D	89625.940	1.5	4SP(5P)6P	113.2193	-5.884	7955.299	3.5	D6S (5D)4D	96229.490	2.5	4SP(3G)2F	
112.4425	-3.369	20830.582	2.5	D6S (3F)4P	109780.000	1.5	2800D	113.2188	-5.781	7955.299	3.5	D6S (5D)4D	91167.937	3.5	5P (5D)6P	
112.4462	-4.010	20340.300	5.5	D7 (5D)2H	109271.710	5.5	4SP(31)2I	113.2709	-5.298	20516.960	2.5	D6S (5D)4D	96239.200	4.5	4SP(3G)2H	
112.4757	-1.449	1872.567	4.5	D7 (5D)4F	90780.621	3.5	5P (5D)4F	113.2989	-2.236	113.2977	-3.742	20516.960	2.5	D7 (5D)2D		
112.4843	-7.705	3117.461	1.5	D7 (5D)4F	92018.729	2.5	4SP(5D)6F	113.3368	-2.497	2837.950	2.5	D7 (5D)4F	91070.547	2.5	5P (5D)4F	
112.4888	-0.815	23031.300	1.5	D6S (3F)4F	111929.000	2.5	2900D	113.3398	-4.781	20340.300	5.5	D7 (5D)2H	108570.560	4.5	4SP(3G)4G	
112.5306	-5.082	862.613	1.5	D6S (5D)6D	89727.342	2.5	4P (3F)4G	113.3405	-1.046	384.790	3.5	D6S (5D)6D	88614.520	4.5	4SP(5P)6D	
112.5448	-1.052	0.000	4.5	D6S (5D)6D	88853.533	3.5	5P (5D)6D	113.3654	-1.609	2837.950	2.5	D7 (5D)4F	91048.256	1.5	5P (5D)4D	
112.5675	-4.833	18360.646	1.5	D7 (5D)2P	107196.200	2.5	1800D	113.3665	-1.210	0.000	4.5	D6S (5D)6D	88209.450	3.5	4SP(5P)6D	
112.5738	-5.369	13673.185	1.5	D7 (5D)4P	102503.810	1.5	4SP(3D)2D	113.3675	-1.804	2430.097	3.5	D7 (5D)4F	90638.822	2.5	5P (5D)4D	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
113.3854	-2.091	1872.567	4.5	D7 (5D)4F	90067.347	4.5	5P (5D)6F	113.9962	-3.085	20516.960	1.5	D7 (5D)2D	108239.200	3.5	240DD
113.3969	-2.885	667.683	4.5	D6S (5D)6D	88853.533	3.5	5P (5D)6D	113.9965	-2.972	3117.461	1.5	D7 (5D)4F	90839.480	0.5	4P (3P)4P
113.4067	-6.011	15844.650	4.5	D7 (5D)2G	104022.890	3.5	4F(5D)0[3]	114.0000	-2.722	21430.359	5.5	D6S (3H)4H	109149.680	6.5	4SP(3I)2I
113.4170	-3.447	1872.567	4.5	D7 (5D)4F	90042.779	4.5	4P (3P)4G	114.0380	-2.552	21581.638	4.5	D6S (3H)4H	109271.710	5.5	4SP(3I)2I
113.4513	-4.274	20340.300	5.5	D7 (5D)2H	108483.870	5.5	4SP(3G)4G	114.0536	-5.728	20805.770	4.5	D7 (5D)2H	108483.870	5.5	4SP(3G)4G
113.4548	-5.671	862.613	1.5	D6S (5D)6D	89003.460	0.5	4P (3P)2S	114.0550	-7.789	16369.360	3.5	D7 (5D)2G	104046.350	2.5	4F(5D)0[3]
113.4750	-9.437	15844.650	4.5	D7 (5D)2G	103969.760	3.5	4F(5D)1[3]	114.0581	-4.158	20516.960	2.5	D7 (5D)2D	108191.600	1.5	230DD
113.4892	-4.943	20516.960	2.5	D7 (5D)2D	108631.090	3.5	4SP(3G)4G	114.0583	-2.512	384.790	3.5	D6S (5P)6D	88059.380	2.5	4SP(5P)6D
113.4915	-4.776	20516.960	2.5	D7 (5D)2D	108629.250	2.5	4SP(3G)4G	114.0653	-4.318	13904.824	0.5	D7 (5D)4P	101573.900	1.5	4SP(5P)4P
113.5063	-4.630	20805.770	4.5	D7 (5D)2H	108906.640	3.5	4SP(3G)4H	114.0855	-8.022	16369.360	3.5	D7 (5D)2G	104022.890	3.5	4F(5D)0[3]
113.5080	-3.648	13474.411	2.5	D7 (5D)4P	101573.900	1.5	4SP(5D)4P	114.0903	-2.290	2837.997	3.5	D7 (5D)4F	90487.810	2.5	5P (5D)6F
113.5184	-1.781	3117.461	1.5	D7 (5D)4F	91208.887	1.5	5P (5D)4F	114.1067	-3.070	2430.097	3.5	D7 (5D)4F	90667.347	4.5	5P (5D)6F
113.5302	-1.765	3117.461	1.5	D7 (5D)4F	91199.746	0.5	5P (5D)4F	114.1235	-5.073	20340.300	5.5	D7 (5D)2H	107964.700	4.5	210DD
113.5382	-6.572	20830.582	2.5	D6S (3P)4P	108906.640	3.5	4SP(3G)4H	114.1311	-8.340	16369.360	3.5	D7 (5D)2G	103987.930	2.5	4F(5D)1[3]
113.5548	-3.537	20805.770	4.5	D7 (5D)2H	108868.980	4.5	4SP(3G)4H	114.1375	-3.698	20516.960	2.5	D7 (5D)2D	108130.600	2.5	220DD
113.5548	-2.933	2837.950	2.5	D7 (5D)4F	90901.124	2.5	5P (5D)4F	114.1387	-1.856	2430.097	3.5	D7 (5D)4F	90042.779	4.5	4P (3P)4G
113.5548	-2.232	2837.950	2.5	D7 (5D)4F	90898.873	1.5	4P (3P)4P	114.1504	-3.843	8391.938	2.5	D6S (5D)4D	95995.690	2.5	4SP(5P)4D
113.5619	-4.067	2430.097	3.5	D7 (5D)4F	90487.810	2.5	5P (5D)6F	114.1565	-4.002	8680.454	1.5	D6S (5D)4D	96279.490	2.5	4SP(3G)2F
113.5698	-2.538	1872.567	4.5	D7 (5D)4F	89924.175	5.5	5P (5D)6F	114.1547	-6.822	16369.360	3.5	D7 (5D)2G	103420.160	5.5	4F(5D)3[6]
113.5842	-2.288	7955.299	3.5	D6S (5D)4D	95995.690	2.5	4SP(5P)4D	114.1872	-4.741	15844.650	4.5	D7 (5D)2G	103420.160	5.5	260DD
113.5873	-8.670	15844.650	4.5	D7 (5D)2G	103882.680	3.5	4F(5D)1[4]	114.1969	-4.320	20805.770	4.5	D7 (5D)2H	108373.800	3.5	5P (5D)4D
113.5985	-7.375	15844.650	4.5	D7 (5D)2G	103873.990	4.5	4F(5D)1[4]	114.2075	-3.405	2837.950	2.5	D7 (5D)4F	90397.868	3.5	5P (5D)4D
113.6023	-6.329	977.053	0.5	D6S (5D)6D	89003.460	0.5	4P (3P)2S	114.2104	-1.821	21251.608	6.5	D6S (3H)4H	108809.310	5.5	4SP(3G)4H
113.6104	-2.460	21251.608	6.5	D6S (3H)4H	109271.710	5.5	4SP(3I)2I	114.2293	-4.817	20830.582	2.5	D6S (3P)4P	108373.800	3.5	5P (5D)4D
113.6134	-5.291	1872.567	4.5	D7 (5D)4F	89890.373	3.5	4P (3P)4G	114.2312	-1.137	667.683	2.5	D6S (5D)6D	88209.450	3.5	4SP(5P)6D
113.6318	-4.055	20805.770	4.5	D7 (5D)2H	108809.310	5.5	4SP(3G)4H	114.2320	-3.476	20830.582	2.5	D6S (3P)4P	108373.800	3.5	4SP(5P)6D
113.6778	-1.962	21812.055	1.5	D6S (3P)4P	109780.000	1.5	280DD	114.2321	-6.659	15844.650	4.5	D7 (5D)2G	103385.730	3.5	4F(5D)3[3]
113.6780	-2.014	2430.097	3.5	D7 (5D)4F	90397.868	3.5	5P (5D)4D	114.2366	-1.405	0.000	4.5	D6S (5D)6D	87537.652	3.5	4SP(5G)6F
113.6815	-3.551	8391.938	2.5	D7 (5D)4F	96356.528	3.5	4SP(3G)2F	114.2456	-4.236	3117.461	1.5	D7 (5D)4F	90648.217	0.5	5P (5D)6F
113.6927	-2.649	2430.097	3.5	D7 (5D)4F	90386.928	4.5	5P (5D)4F	114.2578	-2.814	3117.461	1.5	D7 (5D)4F	90638.822	2.5	5P (5D)4D
113.6970	-3.040	3117.461	1.5	D7 (5D)4F	91070.547	2.5	5P (5D)4F	114.2683	-7.852	16369.360	3.5	D7 (5D)2G	103882.680	3.5	4F(5D)1[4]
113.7104	-3.044	20830.582	2.5	D6S (3P)4P	108780.000	1.5	270DD	114.2695	-6.221	3117.461	1.5	D7 (5D)4F	90629.902	1.5	4P (3P)4S
113.7258	-3.921	3117.461	1.5	D7 (5D)4F	90780.621	3.5	5P (5D)4F	114.2752	-5.715	15844.650	4.5	D7 (5D)2G	103352.680	4.5	4F(5D)3[5]
113.7647	-6.234	13673.185	1.5	D7 (5D)4P	91048.256	1.5	5P (5D)4D	114.2797	-5.499	16369.360	3.5	D7 (5D)2G	103873.990	4.5	4F(5D)1[4]
113.7681	-2.050	21251.608	6.5	D6S (3H)4H	101573.900	1.5	4SP(5D)4P	114.2889	-4.519	13904.824	0.5	D7 (5D)4P	101402.380	0.5	4SP(5D)4P
113.7818	-3.669	8391.938	2.5	D6S (3H)4H	109149.680	6.5	4SP(3I)2I	114.2910	-6.368	15844.650	4.5	D7 (5D)2G	103402.640	3.5	4F(5D)3[4]
113.8038	-1.752	2430.097	3.5	D7 (5D)4F	96279.490	2.5	4SP(3G)2F	114.3009	-9.180	16369.360	3.5	D7 (5D)2G	103857.740	2.5	4F(5D)1[2]
113.8085	-7.364	15844.650	4.5	D7 (5D)2G	90300.625	3.5	5P (5D)6F	114.3095	-5.600	15844.650	4.5	D7 (5D)2G	103326.410	4.5	4F(5D)3[4]
113.8212	-6.963	15844.650	4.5	D7 (5D)2G	103711.570	3.5	4F(5D)2[4]	114.3101	-5.917	15844.650	4.5	D7 (5D)2G	103325.930	5.5	4F(5D)3[5]
113.8215	-4.995	20516.960	2.5	D7 (5D)2D	103701.720	4.5	4F(5D)2[5]	114.3150	-0.735	21251.608	6.5	D6S (3H)4H	108729.160	6.5	4SP(3G)4H
113.8243	-4.804	20516.960	2.5	D7 (5D)2D	108373.800	3.5	260DD	114.3170	-3.146	3117.461	1.5	D7 (5D)4F	90593.497	1.5	5P (5D)6F
113.8351	-5.287	15844.650	4.5	D7 (5D)2D	108371.700	1.5	250DD	114.3223	-3.856	21308.040	1.5	D7 (5D)2D	108780.000	1.5	270DD
113.8416	-2.359	21430.359	5.5	D6S (3H)4H	103691.050	5.5	4F(5D)2[5]	114.3226	-0.693	0.000	4.5	D6S (5D)6D	87471.765	4.5	4SP(5G)6F
113.8485	-6.228	15844.650	4.5	D7 (5D)2G	109271.710	5.5	4SP(3I)2I	114.3260	-2.385	8391.938	2.5	D6S (5D)4D	95858.050	1.5	4SP(5P)4D
113.8536	-7.023	15844.650	4.5	D7 (5D)2G	103680.640	4.5	4F(5D)2[4]	114.3345	-2.621	2837.950	2.5	D7 (5D)4F	90300.625	3.5	5P (5D)6F
113.8622	-2.596	15844.650	4.5	D7 (5D)2G	103676.780	3.5	4F(5D)2[3]	114.3376	-3.071	2430.097	3.5	D7 (5D)4F	89890.373	3.5	4P (3P)4G
113.8624	-4.165	8391.938	2.5	D7 (5D)4H	96217.420	3.5	4SP(5P)4D	114.3659	-2.298	21430.359	5.5	D6S (3H)4H	108868.980	4.5	4SP(3G)4H
113.8632	-1.141	384.790	3.5	D6S (5D)6D	108631.090	3.5	4SP(3G)4G	114.3727	-5.792	20805.770	4.5	D7 (5D)2H	108239.200	3.5	240DD
113.8941	-1.832	2837.950	2.5	D7 (5D)4F	88209.450	3.5	4SP(5P)6D	114.4052	-0.679	20830.582	2.5	D6S (3P)4P	108239.200	3.5	240DD
113.8946	-5.706	20830.582	2.5	D6S (3P)4P	90638.822	2.5	5P (5D)4D	114.4273	-0.974	667.683	2.5	D6S (5P)6D	88059.380	2.5	4SP(5P)6D
113.8969	-4.405	20830.582	2.5	D6S (3P)4P	108629.250	2.5	4SP(3G)4G	114.4440	-0.762	21430.359	5.5	D6S (3H)4H	108809.310	5.5	4SP(3G)4H
113.9057	-5.410	2837.950	2.5	D7 (5D)4F	90629.902	1.5	4P (3P)4S	114.4553	-3.091	3117.461	1.5	D7 (5D)4F	90487.810	2.5	5P (5D)6F
113.9164	-6.003	3117.461	1.5	D7 (5D)4F	90901.124	2.5	5P (5D)4F	114.4556	-1.481	22409.852	0.5	D6S (3P)4P	109780.000	1.5	280DD
113.9193	-3.081	3117.461	1.5	D7 (5D)4F	90898.873	1.5	4P (3P)4P	114.4562	-3.483	20516.960	2.5	D7 (5D)2D	107886.600	3.5	200DD
113.9409	-4.763	20805.770	4.5	D7 (5D)2H	108570.560	4.5	4SP(3G)4G	114.4675	-2.360	20830.582	2.5	D6S (3P)4P	108191.600	1.5	230DD
113.9529	-3.501	2837.950	2.5	D7 (5D)4F	90593.497	1.5	5P (5D)6F	114.4922	-6.052	16369.360	3.5	D7 (5D)2G	103711.570	3.5	4F(5D)2[4]
113.9871	-3.821	13673.185	1.5	D7 (5D)4P	101402.380	0.5	4SP(5D)4P	114.4938	-0.046	0.000	4.5	D6S (5D)6D	87340.983	5.5	4SP(5G)6F
										15844.650	4.5	D7 (5D)2G	103183.700	3.5	4SP(3D)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
114.5051	-5.356	16369.360	3.5 D7	(5D)2G	103701.720	4.5 4F(5D)2[5]	115.0469	-1.110	977.053	0.5 D6S	(5D)6D	87898.120	0.5	4SP(5G)6F	
114.5094	-7.521	21369.360	3.5 D7	(5D)2G	103906.440	2.5 4F(5D)2[3]	115.0471	-3.896	8846.768	0.5 D6S	(5D)4D	95767.700	0.5	4SP(5P)4D	
114.5147	-4.025	11591.638	4.5 D6S	(3H)4H	103998.640	3.5 4SP(3G)4H	115.0494	-2.648	21711.917	3.5 D6S	(3H)4H	108631.090	3.5	4SP(3G)4G	
114.5197	-4.487	21308.040	1.5 D7	(5D)2D	108629.250	2.5 4SP(3G)4G	115.0519	-0.934	21711.917	3.5 D6S	(3H)4H	108629.250	2.5	4SP(3G)4G	
114.5275	-3.129	8680.454	1.5 D6S	(5D)4D	95955.690	2.5 4SP(3P)4D	115.0685	-0.768	667.683	2.5 D6S	(5D)6D	87572.431	2.5	4SP(5G)6F	
114.5327	-6.216	16369.360	3.5 D7	(5D)2G	103680.640	4.5 4F(5D)2[4]	115.0718	-6.169	21581.638	4.5 D6S	(3H)4H	108483.870	4.5	4SP(3G)4G	
114.5475	-1.685	20830.582	2.5 D6S	(3P)4P	108130.600	2.5 220DD	115.0888	-3.048	2837.950	2.5 D7	(5D)4F	89727.342	2.5	4P(3F)4G	
114.5491	-1.991	21430.359	5.5 D6S	(3H)4H	108729.160	6.5 4SP(3G)4H	115.0966	-4.676	21308.040	1.5 D7	(5D)2D	108191.600	1.5	230DD	
114.5512	-4.690	2430.097	3.5 D7	(5D)4F	89727.342	2.5 4P(3F)4G	115.1146	-0.427	667.683	2.5 D6S	(5D)6D	87537.652	2.5	4SP(5G)6F	
114.5515	-2.428	667.683	2.5 D6S	(5D)6D	87964.650	1.5 4SP(3P)6D	115.1296	-4.294	21711.917	3.5 D6S	(3H)4H	108570.560	4.5	4SP(3G)4G	
114.5641	-0.811	21581.638	4.5 D6S	(3H)4H	108868.980	4.5 4SP(3G)4H	115.1399	-4.876	1872.567	4.5 D7	(5D)4F	88723.400	4.5	5P(5D)6D	
114.6053	-4.056	1872.567	4.5 D7	(5D)4F	89128.561	3.5 4SP(3P)6P	115.1535	-3.871	22939.358	2.5 D6S	(3F)4F	109780.000	1.5	280DD	
114.6365	-0.612	21251.608	6.5 D6S	(3H)4H	108483.870	5.5 4SP(3G)4G	115.1774	-5.363	21308.040	1.5 D7	(5D)2D	108130.600	2.5	220DD	
114.6425	-1.747	21581.638	4.5 D6S	(3H)4H	108809.310	5.5 4SP(3G)4H	115.1846	-4.797	21812.055	1.5 D6S	(3P)4P	108629.250	2.5	4SP(3G)4G	
114.6832	-1.201	862.613	1.5 D6S	(5D)6D	88059.380	2.5 4SP(5P)6D	115.1883	-4.548	16369.360	3.5 D7	(5D)2G	103163.700	3.5	4SP(3D)2F	
114.6858	-0.825	21711.917	3.5 D6S	(3H)4H	108906.640	3.5 4SP(3G)4H	115.1969	-4.599	7955.299	3.5 D6S	(5D)4D	94763.219	3.5	4SP(5D)6P	
114.6952	-1.249	384.790	3.5 D6S	(5D)6D	87572.431	2.5 4SP(5G)6F	115.2233	-5.232	2837.950	2.5 D7	(5D)4F	89625.940	1.5	4SP(5P)6P	
114.7084	-3.751	8680.454	1.5 D6S	(5D)4D	95858.050	1.5 4SP(5P)4D	115.2428	-1.543	862.613	1.5 D6S	(5D)6D	87635.920	0.5	4SP(5P)6D	
114.7329	-8.171	20805.770	4.5 D7	(5D)2H	107964.700	4.5 210DD	115.2755	-3.339	23031.300	1.5 D6S	(3F)4F	109780.000	1.5	280DD	
114.7354	-1.886	21711.917	3.5 D6S	(3H)4H	108868.980	4.5 4SP(3G)4H	115.2799	-3.062	7955.299	3.5 D6S	(5D)4D	94700.660	2.5	4P(3F)2D	
114.7409	-0.662	384.790	3.5 D6S	(5D)6D	87537.652	3.5 4SP(5G)6F	115.2845	-4.792	1872.567	4.5 D7	(5D)4F	88614.520	4.5	4SP(5P)6D	
114.7576	-0.699	21430.359	5.5 D6S	(3H)4H	108570.560	4.5 4SP(3G)4G	115.2875	-0.952	862.613	1.5 D6S	(5D)6D	87602.250	1.5	4SP(5G)6F	
114.7636	-5.046	15844.650	4.5 D7	(5D)2G	102980.300	5.5 4SP(31)4I	115.3006	-1.359	7955.299	3.5 D6S	(5D)4D	94685.090	2.5	4SP(5D)6P	
114.7785	-3.547	7955.299	3.5 D6S	(5D)4D	95079.640	3.5 4P(3F)2F	115.3041	-5.037	13673.185	1.5 D7	(5D)4F	100400.360	2.5	4SP(3D)2F	
114.8015	-8.798	15844.650	4.5 D7	(5D)2G	102951.500	4.5 4SP(31)4I	115.3272	-0.735	862.613	1.5 D6S	(5D)6D	87572.431	2.5	4SP(5G)6F	
114.8079	-0.986	862.613	1.5 D6S	(5D)6D	87964.650	1.5 4SP(3P)6D	115.3423	-4.622	2430.097	3.5 D7	(5D)4F	89128.561	3.5	4SP(5P)6P	
114.8138	-6.044	15844.650	4.5 D7	(5D)2G	102942.200	3.5 4F(5D)4[3]	115.3544	-3.657	2430.097	3.5 D7	(5D)4F	89119.457	2.5	5P(5D)6D	
114.8227	-4.167	7955.299	3.5 D6S	(5D)4D	95046.100	2.5 4P(3F)2F	115.3679	-3.660	8391.938	2.5 D6S	(5D)7D	95079.640	3.5	4P(3F)2F	
114.8274	-2.934	8680.454	1.5 D6S	(5D)4D	95767.700	0.5 4SP(5P)4D	115.3710	-1.340	20340.300	5.5 D7	(5D)2H	107006.350	4.5	4SP(31)2H	
114.8358	-5.459	384.790	3.5 D6S	(5D)6D	87471.765	4.5 4SP(5G)6F	115.3910	-1.340	21711.917	3.5 D6S	(3H)4H	108373.800	3.5	260DD	
114.8585	-5.948	20805.770	4.5 D7	(5D)2H	107886.600	3.5 200DD	115.3950	-1.201	977.053	0.5 D6S	(5D)6D	87635.920	0.5	4SP(5P)6D	
114.8686	-0.967	21308.040	1.5 D7	(5D)2D	108371.700	1.5 250DD	115.3967	-5.237	21581.638	4.5 D6S	(3H)4H	108239.200	3.5	240DD	
114.8719	-2.380	20830.582	2.5 D6S	(3P)4P	107886.600	3.5 200DD	115.4002	-6.633	16369.360	3.5 D7	(5D)2G	103024.290	2.5	4F(5D)4[2]	
114.8733	-1.961	2837.950	2.5 D7	(5D)4F	89890.373	3.5 4P(3F)4G	115.4013	-4.299	8391.938	2.5 D6S	(5D)4D	95046.100	2.5	4P(3F)2F	
114.8772	-0.794	21581.638	4.5 D6S	(3H)4H	108631.090	3.5 4SP(3G)4G	115.4086	-3.378	20516.960	2.5 D7	(5D)2D	107165.600	3.5	170DD	
114.8782	-4.416	15844.650	4.5 D7	(5D)2G	102893.380	5.5 4F(5D)4[6]	115.4105	-3.063	8391.938	2.5 D6S	(5D)4D	95039.200	1.5	4P(3P)2P	
114.8864	-5.948	15844.650	4.5 D7	(5D)2G	102887.120	3.5 4F(5D)4[4]	115.4275	-3.194	22637.205	4.5 D6S	(3F)4F	109271.710	5.5	4SP(31)2I	
114.8927	-5.034	15844.650	4.5 D7	(5D)2G	102882.370	4.5 4F(5D)4[4]	115.4399	-1.163	977.053	0.5 D6S	(5D)6D	87602.250	1.5	4SP(5G)6F	
114.8938	-7.759	16369.360	3.5 D7	(5D)2G	103406.250	2.5 4F(5D)3[2]	115.4603	-2.093	3117.461	1.5 D7	(5D)4F	89727.342	2.5	4P(3F)4G	
114.8956	-1.846	862.613	1.5 D6S	(5D)6D	87898.120	0.5 4SP(5G)6F	115.4648	-4.887	2837.950	2.5 D7	(5D)4F	89444.458	2.5	4SP(5P)6P	
114.9209	-6.550	16369.360	3.5 D7	(5D)2G	103385.730	3.5 4F(5D)3[3]	115.4964	-6.562	16369.360	3.5 D7	(5D)2G	102952.120	2.5	4F(5D)4[3]	
114.9236	-4.576	2430.097	3.5 D7	(5D)4F	89444.458	2.5 4SP(3P)6P	115.4973	-4.596	16369.360	3.5 D7	(5D)2G	102951.500	4.5	4SP(31)4I	
114.9276	-4.285	8846.768	0.5 D6S	(5D)4D	95858.050	1.5 4SP(5P)4D	115.5097	-6.016	16369.360	3.5 D7	(5D)2G	102942.200	3.5	4F(5D)4[3]	
114.9337	-5.369	15844.650	4.5 D7	(5D)2G	102851.360	4.5 4F(5D)4[5]	115.5273	-1.445	21812.055	1.5 D6S	(3P)4P	108371.700	1.5	250DD	
114.9485	-7.384	16369.360	3.5 D7	(5D)2G	103364.840	2.5 4F(5D)3[3]	115.5470	-4.783	384.790	3.5 D6S	(5D)6D	86929.649	3.5	4P(3P)4D	
114.9572	-2.325	21581.638	4.5 D6S	(3H)4H	108570.560	4.5 4SP(3G)4G	115.5611	-2.696	21430.359	5.5 D6S	(3H)4H	107964.700	4.5	210DD	
114.9589	-1.414	977.053	0.5 D6S	(5D)6D	87964.650	1.5 4SP(3P)6D	115.5705	-3.834	21711.917	3.5 D6S	(3H)4H	108239.200	3.5	240DD	
114.9601	-9.224	15844.650	4.5 D7	(5D)2G	102831.320	5.5 4F(5D)4[5]	115.5832	-5.983	16369.360	3.5 D7	(5D)2G	102887.120	3.5	4F(5D)4[4]	
114.9646	-5.517	16369.360	3.5 D7	(5D)2G	103352.680	4.5 4F(5D)3[5]	115.5896	-5.755	16369.360	3.5 D7	(5D)2G	102882.370	4.5	4F(5D)4[4]	
114.9677	-3.404	1872.567	4.5 D7	(5D)4F	88853.533	3.5 5P(5D)6D	115.5956	-5.613	3117.461	1.5 D7	(5D)4F	89625.940	1.5	4SP(5P)6P	
114.9805	-7.234	16369.360	3.5 D7	(5D)2G	103340.640	3.5 4F(5D)3[4]	115.6128	-5.663	15844.650	4.5 D7	(5D)2G	102340.300	5.5	4SP(31)4K	
114.9849	-1.269	21812.055	1.5 D6S	(3P)4P	108780.000	1.5 270DD	115.6160	-4.142	2837.950	2.5 D7	(5D)4F	89331.195	1.5	5P(5D)6P	
114.9891	-3.487	16369.360	3.5 D7	(5D)2G	103334.100	2.5 4SP(3D)2F	115.6300	-6.239	0.000	4.5 D6S	(5D)6D	86482.750	3.5	4P(1F)2F	
114.9993	-7.726	16369.360	3.5 D7	(5D)2G	103326.410	4.5 4F(5D)3[4]	115.6310	-6.153	16369.360	3.5 D7	(5D)2G	102851.360	4.5	4F(5D)4[5]	
115.0290	-1.303	667.683	2.5 D6S	(5D)6D	87602.250	1.5 4SP(5G)6F	115.6573	-5.848	23317.633	2.5 D5S2(7S)6S		109780.000	1.5	280DD	
115.0356	-8.546	0.000	4.5 D6S	(5D)6D	86929.649	3.5 4P(3P)4D	115.7094	-4.102	2430.097	3.5 D7	(5D)4F	88853.533	3.5	5P(5D)6D	
115.0404	-4.182	13474.411	2.5 D7	(5D)4P	100400.360	2.5 4SP(3P)2D									

WL(NM)	LOGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGF	EVEN E	J	LABEL	ODD E	J	LABEL
115.1757	-4.264	11571.917	3.5	D6S (3H)4H	108130.600	2.5	220DD	116.2873	-3.414	22637.205	4.5	D6S (3F)4F	108631.090	3.5	4SP(3G)4G
115.7634	-2.352	21581.638	4.5	D6S (3H)4H	107964.700	4.5	210DD	116.3233	-1.615	22939.358	2.5	D6S (3F)4F	108906.640	3.5	4SP(3G)4H
115.7638	-5.680	384.790	3.5	D6S (5D)6D	86767.577	2.5	4F (3P)4D	116.3307	-1.365	22409.852	0.5	D6S (3P)4P	108371.700	1.5	250DD
115.7681	-1.576	21812.055	1.5	D6S (3P)4P	108191.600	1.5	230DD	116.3503	-2.853	25981.629	3.5	D6S (3G)4G	111929.000	2.5	290DD
115.7792	-6.908	8391.938	2.5	D6S (5D)4D	94763.219	3.5	4SP(5D)6P	116.3692	-1.508	22637.205	4.5	D6S (3F)4F	108670.560	4.5	4SP(3G)4G
115.7807	-0.965	22409.852	0.5	D6S (3P)4P	108780.200	1.5	270DD	116.4077	-4.358	862.613	1.5	D6S (5D)6D	86767.577	2.5	4P (3P)4D
115.7868	-4.217	8680.454	1.5	D6S (5D)4D	95046.100	2.5	4P (3F)2F	116.4247	-2.521	8846.768	0.5	D6S (5D)4D	94739.170	1.5	4SP(5P)4P
115.7868	-1.195	20830.582	2.5	D6S (3P)4P	107196.200	2.5	180DD	116.4304	-5.346	21308.040	1.5	D7 (5D)2D	107196.200	2.5	180DD
115.7946	-5.723	20805.770	4.5	D7 (5D)2H	107165.600	3.5	170DD	116.4334	-5.218	3117.461	1.5	D7 (5D)4F	89003.460	0.5	4P (3P)2S
115.7960	-3.258	8680.454	1.5	D6S (5D)4D	95039.200	1.5	4P (3P)2P	116.4356	-3.506	20805.770	4.5	D7 (5D)2H	106690.170	5.5	4SP(3I)2H
115.8025	-4.887	3117.461	1.5	D7 (5D)4F	89471.365	0.5	5P (5D)6D	116.4418	-4.942	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8079	-2.963	20340.300	5.5	D7 (5D)2H	106690.170	5.5	4SP(3I)2H	116.4466	-4.882	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (3P)4D
115.8115	-1.253	8391.938	2.5	D6S (5D)4D	94739.170	1.5	4SP(5P)4P	116.4474	-1.926	7955.299	3.5	D6S (5D)4D	93830.979	2.5	4SP(5D)6D
115.8128	-4.549	20516.960	2.5	D7 (5D)2D	106863.200	3.5	160DD	116.4503	-1.115	26035.423	2.5	D6S (3G)4G	111929.000	2.5	290DD
115.8254	-5.140	1872.567	4.5	D7 (5D)4F	88209.450	3.5	4SP(5P)6D	116.4868	-0.732	22637.205	4.5	D6S (3F)4F	108483.870	5.5	4SP(3G)4G
115.8279	-0.819	20830.582	2.5	D6S (3P)4P	107165.600	3.5	170DD	116.4920	-4.170	20340.300	5.5	D7 (5D)2H	106183.100	6.5	4SP(3I)2K
115.8292	-4.667	13474.411	2.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G	116.4949	-3.104	22939.358	2.5	D6S (3F)4F	108780.000	1.5	270DD
115.8386	-6.510	3117.461	1.5	D7 (5D)4F	89444.458	2.5	4SP(5P)6P	116.5220	-1.750	8391.938	2.5	D6S (5D)4D	108631.090	3.5	4SP(3G)4G
115.8500	-0.940	21812.055	1.5	D6S (3P)4P	108130.600	2.5	220DD	116.5232	-1.750	8391.938	2.5	D6S (5D)4D	94211.739	2.5	4SP(5P)4P
115.8536	-3.589	8391.938	2.5	D6S (5D)4D	94739.170	1.5	4SP(3G)4H	116.5245	-2.996	22810.357	3.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G
115.8631	-4.763	21581.638	4.5	D6S (3H)4H	107886.600	2.5	4P (3F)2D	116.5245	-2.996	22810.357	3.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G
115.8682	-4.763	21581.638	4.5	D6S (3H)4H	107886.600	2.5	4P (3F)2D	116.5245	-2.996	22810.357	3.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5	D7 (5D)4F	88723.400	4.5	5P (5D)6D	116.5297	-5.089	667.683	2.5	D6S (5D)6D	86547.974	1.5	4P (1F)2F
115.8838	-5.978	2430.097	3.5</												

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
117.0432	-7.035	21251.608	6.5	D6S (3H)4H	106690.170	5.5	4SP(3I)2H	117.6046	-3.362	13474.411	2.5	D7 (5D)4P	98505.100	2.5	4SP(5D)4D
117.0488	-2.586	22939.358	2.5	D6S (3F)4F	108373.800	3.5	260DD	117.6047	-4.076	18360.646	1.5	D7 (5D)2P	103360.290	1.5	4F(5D)3[2]
117.0517	-2.407	22939.358	2.5	D6S (3F)4F	108371.700	1.5	250DD	117.6413	-4.387	18360.646	1.5	D7 (5D)2P	103364.840	2.5	4F(5D)3[3]
117.0565	-1.923	22810.357	3.5	D6S (3F)4F	108239.200	3.5	240DD	117.6423	-1.781	8391.938	2.5	D6S (5D)4D	93395.360	2.5	4P (3F)4F
117.0621	-2.978	21581.638	4.5	D6S (3H)4H	107006.350	4.5	4SP(3I)2H	117.6560	-3.698	8846.768	0.5	D6S (5D)4D	93840.340	1.5	4SP(5D)6D
117.0627	-3.768	13474.411	2.5	D7 (5D)4P	98898.710	3.5	4P (1G)2F	117.6716	-3.930	18886.780	0.5	D7 (5D)2P	103869.020	1.5	4F(5D)1[2]
117.0799	-4.289	977.053	0.5	D6S (5D)6D	86388.820	0.5	4P (3P)4D	117.6838	-6.429	18360.646	1.5	D7 (5D)2P	103334.100	2.5	4SP(3D)2F
117.1178	-1.511	21812.055	1.5	D6S (3P)4P	107196.200	2.5	180DD	117.7201	-1.445	22939.358	2.5	D6S (3F)4F	107886.600	3.5	200DD
117.1351	-5.157	2837.950	2.5	D7 (5D)4F	88209.450	3.5	4SP(5P)6D	117.7248	-2.715	7955.299	3.5	D6S (5D)4D	92899.200	2.5	4P (3F)4D
117.1633	-2.113	8680.450	1.5	D6S (5D)4D	94031.378	0.5	4SP(5D)6D	117.7275	-5.461	3117.461	1.5	D7 (5D)4F	88059.380	2.5	4SP(5P)6D
117.1778	-1.525	20311.300	1.5	D6S (3F)4F	108371.700	1.5	250DD	117.7350	-2.778	8391.938	2.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F
117.1814	-4.290	18360.646	1.5	D7 (5D)2P	103698.440	2.5	4F(5D)2[3]	117.7420	-5.171	21251.608	6.5	D6S (3H)4H	106183.100	6.5	4SP(3I)2K
117.1859	-3.895	13673.185	1.5	D7 (5D)4P	99007.700	0.5	4SP(5D)4D	117.7557	-5.351	23317.633	2.5	D5S2 (7S)6S	108239.200	3.5	240DD
117.1955	-1.240	22637.205	4.5	D6S (3F)4F	107964.700	4.5	210DD	117.7622	-2.604	13474.411	2.5	D7 (5D)4P	98391.330	3.5	4SP(5D)4D
117.2055	-2.039	22810.357	3.5	D6S (3F)4F	108130.600	2.5	220DD	117.8130	-3.384	13474.411	2.5	D7 (5D)4P	98354.660	2.5	4SP(5D)4F
117.2119	-5.673	18360.646	1.5	D7 (5D)2P	103676.220	0.5	4F(5D)2[1]	117.8218	-8.018	23317.633	2.5	D5S2 (7S)6S	108191.600	1.5	230DD
117.2148	-9.538	23317.633	2.5	D5S2 (7S)6S	108631.090	3.5	4SP(3G)4G	117.8338	-3.645	13904.824	0.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D
117.2173	-7.568	23317.633	2.5	D5S2 (7S)6S	108629.250	2.5	4SP(3G)4G	117.8358	-2.742	13474.411	2.5	D7 (5D)4P	98338.280	1.5	4SP(5P)4S
117.2222	-4.373	18360.646	1.5	D7 (5D)2P	103668.690	1.5	4F(5D)2[1]	117.8589	-5.423	3117.461	1.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D
117.2227	-3.219	8680.454	1.5	D6S (5D)4D	93988.170	2.5	4SP(5G)4G	117.8802	-3.235	13673.185	1.5	D7 (5D)4F	98505.100	2.5	4SP(5D)4D
117.2328	-5.100	18360.646	1.5	D7 (5D)2P	103660.980	2.5	4F(5D)2[2]	117.9065	-5.628	23317.633	2.5	D5S2 (7S)6S	108130.600	2.5	220DD
117.2335	-2.408	22939.358	2.5	D6S (3F)4F	108239.200	3.5	240DD	117.9392	-4.082	18886.780	0.5	D7 (5D)2P	103676.220	0.5	4F(5D)2[1]
117.2392	-4.600	13474.411	2.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D	117.9497	-4.567	18886.780	0.5	D7 (5D)2P	103668.690	1.5	4F(5D)2[1]
117.2409	-3.377	21711.917	3.5	D6S (3H)4H	107006.350	4.5	4SP(3I)2H	117.9514	-5.764	3117.461	1.5	D7 (5D)4F	87898.120	0.5	4SP(5G)6F
117.2545	-5.368	18360.646	1.5	D7 (5D)2P	103645.220	1.5	4F(5D)2[2]	117.9732	-3.603	18360.646	1.5	D7 (5D)2P	103125.650	0.5	4F(5D)4[1]
117.2586	-2.032	21581.638	4.5	D6S (3H)4H	106863.200	3.5	160DD	117.9742	-6.288	2837.950	2.5	D7 (5D)4F	87604.250	1.5	4SP(5G)6F
117.2707	-2.358	21251.608	6.5	D6S (3H)4H	106524.400	7.5	4SP(3I)2K	117.9824	-4.555	18886.780	0.5	D7 (5D)2P	103645.220	1.5	4F(5D)2[2]
117.2886	-2.450	21430.359	5.5	D6S (3H)4H	106690.170	5.5	4SP(3I)2H	117.9903	-2.816	21430.359	5.5	D6S (3H)4H	106183.100	6.5	4SP(3I)2K
117.2990	-3.136	22939.358	2.5	D6S (3F)4F	108191.600	1.5	230DD	117.9939	-3.814	18360.646	1.5	D7 (5D)2P	1031170.190	1.5	4F(5D)4[1]
117.3029	-3.108	22637.205	4.5	D6S (3F)4F	107886.600	3.5	200DD	118.0079	-2.952	7955.299	3.5	D6S (5D)4D	92695.374	2.5	4P (3F)2D
117.3414	-5.257	2837.950	2.5	D7 (5D)4F	88059.380	2.5	4SP(5P)6D	118.0109	-1.416	18.0109	-1.416	118.0109	2.5	D6S (5D)4D	
117.3830	-1.722	22939.358	2.5	D6S (3F)4F	108130.600	2.5	220DD	118.0157	-5.478	2837.950	2.5	D7 (5D)4F	87572.431	2.5	4SP(5G)6F
117.3921	-2.195	8846.768	0.5	D6S (5D)4D	94031.378	0.5	4SP(5D)6D	118.0337	-4.988	13474.411	2.5	D7 (5D)4P	98196.000	1.5	4SP(5D)4F
117.4059	-2.126	7955.299	3.5	D6S (5D)4D	108129.900	3.5	4P (3F)4D	118.0430	-1.301	8680.454	1.5	D6S (5D)4D	93395.360	2.5	4P (3F)4F
117.4256	-5.007	23031.300	1.5	D6S (3F)4F	108191.600	1.5	230DD	118.0642	-4.567	2837.950	2.5	D7 (5D)4F	87537.650	3.5	4SP(5G)6F
117.4262	-2.382	8680.454	1.5	D6S (5D)4D	93840.340	1.5	4SP(5D)6D	118.0896	-3.246	13673.185	1.5	D7 (5D)4P	98354.660	2.5	4SP(5D)4F
117.4338	-1.686	22810.357	3.5	D6S (3F)4F	107964.700	4.5	210DD	118.0998	-3.725	18360.646	1.5	D7 (5D)2P	103034.760	1.5	4F(5D)4[2]
117.4380	-3.005	21711.917	3.5	D6S (3H)4H	106863.200	3.5	160DD	118.1124	-2.948	18360.646	1.5	D7 (5D)2P	103024.290	2.5	4F(5D)4[2]
117.4391	-4.202	8680.454	1.5	D6S (5D)4D	93830.979	2.5	4SP(5D)6D	118.1145	-4.037	18360.646	1.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F
117.4504	-6.055	2430.097	3.5	D7 (5D)4F	87572.431	2.5	4SP(5G)6F	118.1362	-1.805	8680.454	1.5	D6S (5D)4D	92602.703	3.5	4P (3F)2G
117.4720	-5.780	2837.950	2.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D	118.1371	-2.196	7955.299	3.5	D6S (5D)4D	111929.000	2.5	290DD
117.4970	-3.443	21581.638	4.5	D6S (3H)4H	106690.170	5.5	4SP(3I)2H	118.1836	-3.489	27314.922	3.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F
117.4984	-5.527	2430.097	3.5	D7 (5D)4F	87537.652	3.5	4SP(5G)6F	118.1891	-2.075	1872.567	4.5	D7 (5D)4F	86482.750	3.5	4P (1F)2F
117.5048	-3.375	13904.824	0.5	D7 (5D)4P	99007.700	0.5	4SP(3I)2H	118.2068	-4.810	20340.300	5.5	D7 (5D)2H	104937.120	4.5	4SP(3I)4H
117.5098	-2.070	23031.300	1.5	D6S (3F)4F	108130.600	2.5	220DD	118.2152	-3.987	18360.646	1.5	D7 (5D)2P	102952.120	2.5	4F(5D)4[3]
117.5130	-2.967	13673.185	1.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D	118.2467	-5.749	23317.633	2.5	D5S2 (7S)6S	107886.600	3.5	200DD
117.5147	-1.340	8391.938	2.5	D6S (5D)4D	93487.650	3.5	4P (3F)4F	118.2725	-4.090	18886.780	0.5	D7 (5D)2P	103437.280	0.5	4F(5D)3[1]
117.5355	-2.839	18886.780	0.5	D7 (5D)2P	103967.400	0.5	4SP(3P)2S	118.2994	-5.448	18886.780	0.5	D7 (5D)2P	103418.080	0.5	4F(5D)3[0]
117.5411	-5.310	18360.646	1.5	D7 (5D)2P	103437.280	0.5	4F(5D)3[1]	118.2996	-4.472	18886.780	0.5	D7 (5D)2P	103417.910	1.5	4F(5D)3[0]
117.5416	-1.089	22810.357	3.5	D6S (3F)4F	107886.600	3.5	200DD	118.3034	-1.126	22637.205	4.5	D6S (3F)4F	107165.600	3.5	170DD
117.5621	-3.993	13474.411	2.5	D7 (5D)4P	98535.850	3.5	4SP(5D)4F	118.3113	-4.576	13673.185	1.5	D7 (5D)4P	98196.000	1.5	4SP(5D)4F
117.5676	-4.053	18360.646	1.5	D7 (5D)2P	103418.080	0.5	4F(5D)3[0]	118.3173	-6.089	3117.461	1.5	D7 (5D)4F	87635.920	0.5	4SP(5P)6D
117.5679	-7.041	18360.646	1.5	D7 (5D)2P	103417.910	1.5	4F(5D)3[1]	118.3269	-8.425	20516.960	2.5	D7 (5D)2D	105028.600	3.5	4SP(3I)4H
117.5681	-1.362	1872.567	4.5	D7 (5D)4F	86929.649	3.5	4P (3P)4D	118.3330	-2.113	8391.938	2.5	D6S (5D)4D	92899.200	2.5	4P (3F)4D
117.5694	-9.547	23317.633	2.5	D5S2 (7S)6S	108373.800	3.5	260DD	118.3369	-5.276	18886.780	0.5	D7 (5D)2P	103391.290	1.5	4F(5D)3[2]
117.5723	-6.447	18360.646	1.5	D7 (5D)2P	103406.250	2.5	4F(5D)3[2]	118.3438	-2.053	2430.097	3.5	D7 (5D)4F	86929.649	3.5	4P (3F)4D
117.5840	-5.082	2430.097	3.5	D7 (5D)4F	87471.765	4.5	4SP(5G)6F	118.3645	-5.621	3117.461	1.5	D7 (5D)4F	87602.250	1.5	4SP(5G)6F
117.5894	-4.084	87471.765	4.5	4SP(5G)6F	87471.765	4.5	4SP(5G)6F	118.3688	-1.415	8846.768	0.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	EVEN E	J	LABEL	ODD E	J	LABEL
118.3761	-4.324	20340.300	5.5	D7	(5D)2H	104816.800	5.5	4SP(3I)4H	119.2635	-5.894	119.4856	-7.060	119.4856	2.5	D6S
118.3829	-0.725	7955.299	3.5	D6S	(5D)4D	92426.980	4.5	4SP(5G)4F	119.2706	-2.457	23428.784	5.5	D6S	(3G)4G	
118.4063	-5.226	3117.461	1.5	D7	(5D)4F	87572.431	2.5	4SP(5G)6F	119.2839	-2.309	8391.938	2.5	D6S	(5D)4D	
118.4365	-2.860	13904.824	0.5	D7	(5D)4F	98338.280	1.5	4SP(5P)4S	119.2970	-4.322	8391.938	2.5	D6S	(5D)4D	
118.5033	-1.244	22810.357	3.5	D6S	(3F)4F	107196.200	2.5	180DD	119.3195	-1.924	15844.650	4.5	D7	(5D)2G	
118.5191	-2.213	7955.299	3.5	D6S	(5D)4D	92329.890	2.5	4SP(5G)4F	119.3307	-2.328	8846.768	0.5	D6S	(5D)4D	
118.5267	-3.482	22637.205	4.5	D6S	(3F)4F	107006.350	4.5	4SP(3I)2H	119.3447	-3.002	15844.650	4.5	D7	(5D)2G	
118.5463	-1.342	22810.357	3.5	D6S	(3F)4F	107165.600	3.5	170DD	119.3702	-4.648	8680.454	1.5	D6S	(5D)4D	
118.5607	-2.816	7955.299	3.5	D6S	(5D)4D	92300.277	4.5	4SP(5D)6F	119.3856	-3.511	8391.938	2.5	D6S	(5D)4D	
118.5712	-1.583	2430.097	3.5	D7	(5D)4F	86767.577	2.5	4P	(3P)4D	119.4392	-3.526	26055.423	2.5	D6S	(3G)4G
118.5858	-1.853	7955.299	3.5	D6S	(5D)4D	92282.460	3.5	4SP(5G)4F	119.4445	-1.579	25428.784	5.5	D6S	(3G)4G	
118.5973	-5.252	20340.300	5.5	D7	(5D)2H	104659.260	6.5	4SP(3I)4H	119.4607	-3.299	8846.768	0.5	D6S	(5D)4D	
118.5975	-2.270	7955.299	3.5	D6S	(5D)4D	92274.120	2.5	4P	(3P)4F	119.4657	-1.697	2837.950	2.5	D7	(5D)4F
118.6119	-2.221	27620.412	2.5	D6S	(3F)2F	111929.000	2.5	290DD	119.4781	-4.143	8391.938	2.5	D6S	(5D)4D	
118.6191	-2.784	8391.938	2.5	D6S	(5D)4D	92695.374	2.5	4P	(3P)2D	119.4856	-7.060	667.683	2.5	D6S	(5D)6D
118.6364	-5.448	13904.824	0.5	D7	(5D)4F	98196.000	1.5	4SP(5D)4F	119.5055	-2.044	8680.454	1.5	D6S	(5D)4D	
118.6847	-2.812	22939.358	2.5	D6S	(3F)4F	107196.200	2.5	180DD	119.5413	-3.139	13673.185	1.5	D7	(5D)4F	
118.6865	-4.480	8391.938	2.5	D6S	(5D)4D	92647.510	1.5	4P	(3F)4D	119.5456	-3.107	3117.461	1.5	D7	(5D)4F
118.7100	-5.428	18886.780	0.5	D7	(5D)2P	103125.650	0.5	4F(5D)4[1]	119.5465	-1.353	8680.454	1.5	D6S	(5D)4D	
118.7278	-4.066	22939.358	2.5	D6S	(3F)4F	107165.600	3.5	160DD	119.5682	-2.631	8680.454	1.5	D6S	(5D)4D	
118.7282	-2.375	22637.205	4.5	D6S	(3F)4F	106863.200	3.5	160DD	119.5789	-8.421	8391.938	2.5	D6S	(5D)4D	
118.7310	-5.440	18886.780	0.5	D7	(5D)2P	103110.790	1.5	4F(5D)4[1]	119.5888	-3.513	7955.299	3.5	D6S	(5D)4D	
118.7327	-4.412	20805.770	4.5	D7	(5D)2H	105028.600	3.5	4P	(3F)4D	119.5929	-2.956	18886.780	0.5	D7	(5D)2P
118.7384	-2.046	8680.454	1.5	D6S	(5D)4D	92899.200	2.5	4P	(3F)2G	119.6263	-2.242	8680.454	1.5	D6S	(5D)4D
118.7417	-2.025	7955.299	3.5	D6S	(5D)4D	92171.716	4.5	4P	(3F)2G	119.6670	-1.237	21231.608	6.5	D6S	(3H)4H
118.7497	-1.485	8391.938	2.5	D6S	(5D)4D	92602.703	3.5	4P	(3F)2G	119.6952	-4.528	23317.633	2.5	D5S2	
118.7664	-5.130	7955.299	3.5	D6S	(5D)4D	92154.165	3.5	4SP(5D)6F	119.6959	-2.518	8680.454	1.5	D6S	(5D)4D	
118.7676	-5.059	20830.582	2.5	D6S	(3P)4F	105028.600	3.5	4SP(3I)4H	119.7091	-3.249	8680.454	1.5	D6S	(5D)4D	
118.7705	-1.901	22810.357	3.5	D6S	(3F)4F	107006.350	4.5	4SP(3I)2H	119.7122	-9.495	20340.300	5.5	D7	(5D)2H	
118.8144	-2.854	23031.300	1.5	D6S	(3F)4F	107196.200	2.5	180DD	119.7183	-5.651	20516.960	2.5	D7	(5D)2D	
118.8192	-3.012	7955.299	3.5	D6S	(5D)4D	92116.780	4.5	4SP(5G)4H	119.7260	-6.952	8391.938	2.5	D6S	(5D)4D	
118.8383	-5.499	18886.780	0.5	D7	(5D)2P	103034.760	1.5	4F(5D)4[2]	119.7435	-1.587	8846.768	0.5	D6S	(5D)4D	
118.8451	-3.780	18360.646	1.5	D7	(5D)2P	102503.810	1.5	4SP(3D)2D	119.7498	-1.182	21430.359	5.5	D6S	(3H)4H	
118.8581	-5.323	7955.299	3.5	D6S	(5D)4D	92089.260	3.5	4SP(5G)4H	119.7520	-5.692	20516.960	2.5	D7	(5D)2P	
118.8608	-4.000	20805.770	4.5	D7	(5D)2H	104937.800	4.5	4SP(3I)4H	119.7645	-6.829	862.613	1.5	D6S	(5D)6D	
118.8815	-2.217	2430.097	3.5	D7	(5D)4F	86547.490	2.5	4P	(1F)2F	119.7800	-6.828	384.790	3.5	D6S	(5D)6D
118.9178	-3.122	2837.950	2.5	D7	(5D)4F	86929.649	3.5	4P	(3D)4D	119.7839	-6.679	384.790	3.5	D6S	(5D)6D
118.9224	-2.649	18360.646	1.5	D7	(5D)2P	102449.100	2.5	4SP(3D)2D	119.8021	-6.348	20516.960	2.5	D7	(5D)2D	
118.9578	-6.693	7955.299	3.5	D6S	(5D)4D	92018.729	2.5	4SP(5D)6F	119.8064	-2.554	8846.768	0.5	D6S	(5D)4D	
118.9726	-1.264	22637.205	4.5	D6S	(3F)4F	106690.170	5.5	4SP(3I)2H	119.8282	-8.524	25805.328	4.5	D6S	(3G)4G	
118.9730	-3.934	2430.097	3.5	D7	(5D)4F	86482.750	3.5	4P	(1F)2F	119.8300	-3.691	8391.938	2.5	D6S	(5D)4D
119.0037	-4.033	16369.360	3.5	D7	(5D)2G	100400.360	2.5	4SP(3P)2D	119.8366	-1.327	25428.784	5.5	D6S	(3G)4G	
119.0265	-2.152	8680.454	1.5	D6S	(5D)4D	92695.374	2.5	4P	(3P)2D	119.8463	-4.193	16369.360	3.5	D7	(5D)2G
119.0320	-5.155	20805.770	4.5	D7	(5D)2H	104816.800	5.5	4SP(3I)4H	119.8609	-4.455	3117.461	1.5	D7	(5D)4F	
119.0584	-6.074	25787.598	1.5	D6S	(3P)2P	109780.000	1.5	280DD	119.8660	-2.230	3117.461	1.5	D7	(5D)4F	
119.0943	-2.427	8680.454	1.5	D6S	(5D)4D	92647.510	1.5	4P	(3F)4D	119.8733	-3.845	13904.824	0.5	D7	(5D)4P
119.0949	-2.766	8391.938	2.5	D6S	(5D)4D	92358.610	1.5	4SP(5G)4F	119.8815	-2.122	25805.328	4.5	D6S	(3H)4H	
119.0990	-4.130	15844.650	4.5	D7	(5D)2G	99808.400	3.5	4P	(1G)2G	119.8931	0.042	21231.608	6.5	D6S	(3H)4H
119.1356	-2.036	8391.938	2.5	D6S	(5D)4D	92329.890	2.5	4SP(5G)4F	119.9217	-3.834	16369.360	3.5	D7	(5D)2G	
119.1474	-2.071	2837.950	2.5	D7	(5D)4F	86767.577	2.5	4P	(3P)4D	119.9236	-0.106	21430.359	5.5	D6S	(3H)4H
119.1557	-3.927	22939.358	2.5	D6S	(3F)4F	106863.200	3.5	160DD	119.9289	-6.967	977.053	0.5	D6S	(5D)6D	
119.1718	-3.098	15844.650	4.5	D7	(5D)2G	99757.120	4.5	4P	(1G)2G	119.9321	-3.494	25428.784	5.5	D6S	(3G)4G
119.2030	-1.147	8391.938	2.5	D6S	(5D)4D	92282.460	3.5	4SP(5G)4F	119.9346	-3.612	8846.768	0.5	D6S	(5D)4D	
119.2148	-2.036	8391.938	2.5	D6S	(5D)4D	92274.120	2.5	4P	(3P)4F	119.9479	-2.804	20516.960	2.5	D7	(5D)2D
119.2200	-4.747	23317.633	2.5	D5S2	(7S)6S	107196.200	2.5	180DD	119.9534	-5.498	20516.960	2.5	D7	(5D)2D	
119.2305	-7.353	4.000	4.5	D6S	(5D)6D	83871.184	4.5	4P	(1F)2G						
119.2579	-3.836	13474.411	2.5	D7	(5D)4P	97326.270	1.5	4SP(3P)2P							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
119.9671	-0.244	21581.638	4.5	D6S (3H)4H	104937.800	4.5	4SP(3I)4H	120.5909	-3.116	25981.629	3.5	D6S (3G)4G	108906.640	3.5	4SP(3C)4H
119.9730	-6.254	20516.960	2.5	D7 (5D)2D	103869.020	1.5	4F(5D)1[2]	120.5975	-7.827	384.790	3.5	D6S (5D)6D	83705.251	3.5	4P (1F)2G
119.9749	-7.903	20340.300	5.5	D7 (5D)2H	103691.050	5.5	4F(5D)2[5]	120.5997	-0.993	26352.766	4.5	D6S (3H)2H	109271.710	5.5	4SP(3I)2I
119.9893	-6.732	20516.960	2.5	D7 (5D)2D	103857.740	2.5	4F(5D)1[2]	120.6188	-9.356	20805.770	4.5	D7 (5D)2H	103711.570	3.5	4F(5D)2[4]
119.9929	-3.915	8680.454	1.5	D6S (5D)4D	92018.729	2.5	4SP(5D)6F	120.6259	-6.706	20516.960	2.5	D7 (5D)2D	103417.910	1.5	4F(5D)3[1]
120.0240	-0.331	21711.917	3.5	D6S (3H)4H	105028.600	3.5	4SP(3I)4H	120.6332	-8.320	20805.770	4.5	D7 (5D)2H	103701.720	4.5	4F(5D)2[5]
120.0405	-8.758	0.000	4.5	D6S (5D)6D	83305.251	3.5	4P (1F)2G	120.6350	-5.291	8680.454	1.5	D6S (5D)4D	91575.139	2.5	5P (5D)6P
120.0475	-1.506	25428.784	5.5	D6S (3G)4G	108729.160	6.5	4SP(3G)4H	120.6428	-5.702	20516.960	2.5	D7 (5D)2D	103406.250	2.5	4F(5D)3[2]
120.0713	-3.374	16369.360	3.5	D7 (5D)2G	99653.220	4.5	4SP(3G)2G	120.6457	-1.708	25981.629	3.5	D6S (3G)4G	108868.980	4.5	4SP(3G)4H
120.0893	-1.889	3117.461	1.5	D7 (5D)4F	86388.820	0.5	4P (3P)4D	120.6487	-6.269	20805.770	4.5	D7 (5D)2H	103691.050	5.5	4F(5D)2[5]
120.0968	-2.399	16369.360	3.5	D7 (5D)2G	99635.520	3.5	4SP(3G)2G	120.6527	-3.723	13474.411	2.5	D7 (5D)4F	96356.960	3.5	4SP(3G)2F
120.1411	-5.101	8680.454	1.5	D6S (5D)4D	91915.950	1.5	4SP(5D)6F	120.6549	-3.135	20830.582	2.5	D6S (3P)4P	103711.570	3.5	4F(5D)2[4]
120.1415	-1.277	21581.638	4.5	D6S (3H)4H	104816.800	5.5	4SP(3I)4H	120.6638	-7.326	20805.770	4.5	D7 (5D)2H	103680.640	4.5	4F(5D)2[4]
120.1506	-1.438	21430.359	5.5	D6S (3H)4H	104659.260	6.5	4SP(3I)4H	120.6664	-5.638	20516.960	2.5	D7 (5D)2D	103391.920	1.5	4F(5D)3[2]
120.1549	-1.417	21711.917	3.5	D6S (3H)4H	104937.800	4.5	4SP(3I)4H	120.6695	-8.378	20805.770	4.5	D7 (5D)2H	103676.780	3.5	4F(5D)2[3]
120.1676	-9.445	20805.770	4.5	D7 (5D)2H	104022.890	3.5	4F(5D)0[3]	120.6727	-5.499	20516.960	2.5	D7 (5D)2D	103385.730	3.5	4F(5D)3[3]
120.1695	-3.902	20830.582	2.5	D6S (3P)4P	104046.350	2.5	4F(5D)0[3]	120.6740	-3.820	20830.582	2.5	D6S (3P)4P	103698.440	2.5	4F(5D)2[3]
120.1732	-6.071	18360.646	1.5	D7 (5D)2F	101573.900	1.5	4SP(5D)4F	120.6983	-2.031	26035.423	2.5	D6S (3G)4G	108906.640	3.5	4SP(3G)4H
120.1741	-4.861	7955.299	3.5	D6S (5D)4D	91167.937	3.5	5P (5D)6P	120.7031	-5.357	20516.960	2.5	D7 (5D)2D	103364.840	2.5	4F(5D)3[3]
120.1912	-7.825	667.683	2.5	D6S (5D)6D	83868.450	2.5	4P (1F)2D	120.7056	-4.207	20830.582	2.5	D6S (3P)4P	103676.780	3.5	4F(5D)2[3]
120.2001	-4.882	20516.960	2.5	D7 (5D)2D	103711.570	3.5	4F(5D)2[4]	120.7122	-5.154	25787.598	1.5	D6S (3P)2P	108629.250	2.5	4SP(3G)4G
120.2034	-4.166	20830.582	2.5	D6S (3P)4P	104022.890	3.5	4F(5D)0[3]	120.7174	-6.030	20830.582	2.5	D6S (3P)4P	103668.980	1.5	4F(5D)2[1]
120.2166	-4.009	8391.938	2.5	D6S (5D)4D	91575.139	2.5	5P (5D)6P	120.7286	-3.926	20830.582	2.5	D6S (3P)4P	103660.990	2.5	4F(5D)2[2]
120.2191	-5.888	20516.960	2.5	D7 (5D)2D	103698.440	2.5	4F(5D)2[3]	120.7354	-3.308	25805.328	4.5	D6S (3G)4G	108631.090	3.5	4SP(3G)4G
120.2253	-5.548	8680.454	1.5	D6S (5D)4D	91850.722	2.5	4SP(5D)6F	120.7360	-5.931	7955.299	3.5	D6S (5D)4D	90780.621	3.5	5P (5D)4F
120.2444	-9.728	20805.770	4.5	D7 (5D)2H	103969.760	3.5	4F(5D)1[3]	120.7384	-5.463	20516.960	2.5	D7 (5D)2D	103340.100	2.5	4SP(3D)2F
120.2458	-4.020	8680.454	1.5	D6S (5D)4D	91843.470	1.5	5P (5D)6P	120.7482	-2.872	8391.938	2.5	D6S (5D)4D	91208.887	1.5	5P (5D)4F
120.2504	-6.474	20516.960	2.5	D7 (5D)2F	103676.780	3.5	4F(5D)2[3]	120.7516	-4.295	13474.411	2.5	D7 (5D)4F	103645.220	1.5	4F(5D)2[2]
120.2540	-4.634	20830.582	2.5	D6S (3P)4P	103987.930	2.5	4F(5D)1[3]	120.7655	-4.856	13474.411	2.5	D7 (5D)4F	96279.490	2.5	4SP(3G)2F
120.2621	-8.044	20516.960	2.5	D7 (5D)2D	103668.980	1.5	4F(5D)2[1]	120.8013	-4.670	20340.300	5.5	D7 (5D)2H	103120.900	6.5	4SP(3I)4I
120.2732	-5.891	20516.960	2.5	D7 (5D)2D	103660.980	2.5	4F(5D)2[2]	120.8080	-5.014	8391.938	2.5	D6S (5D)4D	91167.937	3.5	5P (5D)6P
120.2765	-3.548	25428.784	5.5	D6S (3G)4G	108570.560	4.5	4SP(3G)4G	120.8237	-2.338	25805.328	4.5	D6S (3G)4G	108570.560	4.5	4SP(3G)4G
120.2802	-4.998	20830.582	2.5	D6S (3P)4P	103969.760	3.5	4F(5D)1[3]	120.8240	-4.416	15844.650	4.5	D7 (5D)2G	98596.650	4.5	4SP(5D)4F
120.2960	-6.166	20516.960	2.5	D7 (5D)2D	103646.220	1.5	4F(5D)2[2]	120.8330	-4.417	13474.411	2.5	D7 (5D)4F	96217.420	3.5	4SP(5P)4D
120.3149	-3.082	7955.299	3.5	D6S (5D)4D	91070.547	2.5	5P (5D)4F	120.8561	-4.417	13474.411	2.5	D7 (5D)4F	96217.420	3.5	4SP(5P)4D
120.3347	-3.291	26170.181	5.5	D6S (3H)2H	109271.710	5.5	4SP(3I)2I	120.8630	-4.372	21308.040	1.5	D7 (5D)2D	104046.350	2.5	4F(5D)0[3]
120.3350	-4.248	25805.328	4.5	D6S (3G)4G	108906.640	3.5	4SP(3G)4H	120.8831	-2.975	26035.423	2.5	D6S (3G)4G	108780.000	1.5	270DD
120.3646	-6.086	20340.300	5.5	D7 (5D)2H	103421.180	6.5	4F(5D)3[6]	120.9207	-3.255	26170.181	5.5	D6S (3H)2H	108868.980	4.5	4SP(3G)4H
120.3816	-4.413	8846.768	0.5	D6S (5D)4D	91915.950	1.5	4SP(5D)6F	120.9319	-2.624	15844.650	4.5	D7 (5D)2G	98535.850	3.5	4SP(5D)4F
120.3896	-3.492	25805.328	4.5	D6S (3G)4G	108868.980	4.5	4SP(3G)4H	120.9378	-5.547	18886.780	0.5	D7 (5D)2P	101573.900	1.5	4SP(5D)4P
120.4020	-1.702	25428.784	5.5	D6S (3G)4G	108483.870	5.5	4SP(3G)4G	120.9431	-2.624	15844.650	4.5	D7 (5D)2G	98535.850	3.5	4SP(5D)4F
120.4035	-1.661	15844.650	4.5	D7 (5D)2G	98898.710	3.5	4P (1G)2F	120.9492	-5.254	20340.300	5.5	D7 (5D)2H	103019.670	6.5	4F(5D)4[7]
120.4064	-4.119	20830.582	2.5	D6S (3P)4P	103882.680	3.5	4F(5D)1[4]	120.9503	-2.650	8391.938	2.5	D6S (5D)4D	91070.547	2.5	5P (5D)4F
120.4214	-4.893	18360.646	1.5	D7 (5D)2P	101402.380	0.5	4SP(5D)4F	120.9504	-2.418	25805.328	4.5	D6S (3G)4G	108483.870	5.5	4SP(3G)4G
120.4262	-4.426	20830.582	2.5	D6S (3P)4P	103869.020	1.5	4F(5D)1[2]	120.9676	-3.406	20516.960	2.5	D7 (5D)2D	103183.700	5.5	4SP(3D)2F
120.4425	-4.847	20830.582	2.5	D6S (3P)4P	103857.740	2.5	4F(5D)1[2]	120.9783	-3.434	21308.040	1.5	D7 (5D)2D	103967.930	2.5	4F(5D)1[3]
120.4640	-8.676	20340.300	5.5	D7 (5D)2H	103352.680	4.5	4F(5D)3[5]	120.9829	-3.032	8391.938	2.5	D6S (5D)4D	91048.256	1.5	5P (5D)4D
120.4735	-6.809	862.613	1.5	D6S (5D)6D	83868.450	2.5	4P (1F)2D	120.9929	-3.362	25981.629	3.5	D6S (3G)4G	108631.090	3.5	4SP(3G)4G
120.4761	-1.504	25805.328	4.5	D6S (3G)4G	108809.310	5.5	4SP(3G)4H	120.9956	-3.934	25981.629	3.5	D6S (3G)4G	108629.250	2.5	4SP(3G)4G
120.4762	-4.899	8846.768	0.5	D6S (5D)4D	91850.722	0.5	4SP(5D)6F	121.0068	-5.282	20340.300	5.5	D7 (5D)2D	102980.300	5.5	4SP(3I)4I
120.4930	-3.940	25787.598	1.5	D6S (3P)2P	91843.470	1.5	5P (5D)6P	121.0081	-2.909	26170.181	5.5	D6S (3H)2H	108809.310	5.5	4SP(3G)4H
120.5021	-7.986	20340.300	5.5	D7 (5D)2H	103326.410	4.5	4F(5D)3[4]	121.0103	-7.707	667.683	2.5	D6S (5D)6D	83305.251	3.5	4P (1F)2G
120.5028	-6.876	20340.300	5.5	D7 (5D)2H	103326.410	4.5	4F(5D)3[5]	121.0443	-5.858	20805.770	4.5	D7 (5D)2D	103420.160	5.5	4F(5D)3[6]
120.5117	-0.979	26170.181	5.5	D6S (3H)2H	109149.680	6.5	4SP(3I)2I	121.0561	-5.144	13673.185	1.5	D7 (5D)2H	102951.500	4.5	4SP(3G)2F
120.5606	-3.256	7955.299	3.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F	121.0744	-5.503	20516.960	2.5	D7 (5D)2D	103110.790	1.5	4F(5D)4[1]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
121.0816	-2.274	25981.629	3.5	D6S (3G)4G	108570.560	4.5	46P(3G)4G	121.4150	-2.891	8846.768	0.5	D6S (5D)4D	91208.887	1.5	5P (5D)4F
121.0840	-4.518	20830.582	2.5	D6S (3P)4P	103417.910	1.5	4F(5D)3[1]	121.4172	-5.873	21308.040	1.5	D7 (5D)2D	103668.690	1.5	4F(5D)2[1]
121.0887	-4.074	25787.598	1.5	D6S (3P)2P	108371.700	1.5	250DD	121.4283	-4.997	20830.582	2.5	D6S (3P)4P	103183.700	3.5	4SP(3D)2F
121.0948	-7.691	20805.770	4.5	D7 (5D)2H	103385.730	3.5	4F(5D)3[3]	121.4285	-3.253	8846.768	0.5	D6S (5D)4D	91199.746	0.5	5P (5D)4D
121.1010	-3.585	20830.582	2.5	D6S (3P)4P	103406.250	2.5	4F(5D)3[2]	121.4398	-2.395	7955.299	3.5	D6S (5D)4D	90300.625	3.5	5P (5D)6F
121.1011	-2.375	26055.423	2.5	D6S (3G)4G	108631.090	3.5	46P(3G)4G	121.4432	-1.913	25787.598	1.5	D6S (3P)2P	108130.600	2.5	220DD
121.1037	-3.952	26055.423	2.5	D6S (3G)4G	108629.250	2.5	46P(3G)4G	121.4518	-9.024	21308.040	1.5	D7 (5D)2D	103645.220	1.5	4F(5D)2[2]
121.1116	-4.332	25805.328	4.5	D6S (3G)4G	108373.800	3.5	260DD	121.4559	-9.029	21711.917	3.5	D6S (3H)4H	104046.350	2.5	4F(5D)0[3]
121.1226	-5.692	21308.040	1.5	D7 (5D)2D	103369.020	1.5	4F(5D)3[2]	121.4735	-4.710	13673.185	1.5	D7 (5D)4F	95995.690	2.5	4SP(5P)4D
121.1230	-3.964	20830.582	2.5	D6S (3P)4P	103391.290	1.5	4F(5D)3[2]	121.4796	-4.405	26055.423	2.5	D6S (3G)4G	108373.800	3.5	260DD
121.1255	-3.252	26170.181	5.5	D6S (3H)2H	108729.160	6.5	46P(3G)4H	121.4827	-2.180	26055.423	2.5	D6S (3G)4G	108373.800	3.5	260DD
121.1311	-3.295	20830.582	2.5	D6S (3P)4P	103385.730	3.5	4F(5D)3[4]	121.4865	-3.304	26170.181	5.5	D6S (3H)2H	108483.870	5.5	4SP(3G)4G
121.1330	-3.072	26352.766	4.5	D6S (3H)2H	108906.640	3.5	46P(3G)4H	121.4905	-9.021	21711.917	3.5	D6S (3H)4H	104022.890	3.5	4F(5D)0[3]
121.1342	-5.982	20340.300	5.5	D7 (5D)2H	102893.380	5.5	4F(5D)4[6]	121.5058	-1.833	22637.205	4.5	D6S (3F)4F	104937.800	4.5	4SP(3I)4H
121.1391	-5.250	21308.040	1.5	D7 (5D)2D	103857.740	2.5	4F(5D)3[5]	121.5180	-9.456	21581.638	4.5	D6S (3H)4H	103873.990	4.5	4F(5D)1[4]
121.1432	-6.622	20805.770	4.5	D7 (5D)2H	103352.680	4.5	4F(5D)3[5]	121.5359	-3.750	20830.582	2.5	D6S (3P)4P	103110.790	1.5	4F(5D)4[1]
121.1594	-1.096	15844.650	4.5	D7 (5D)2G	98391.330	3.5	46P(5D)4D	121.5421	-9.728	21711.917	3.5	D6S (3H)4H	103969.760	3.5	4F(5D)1[3]
121.1599	-7.091	20340.300	5.5	D7 (5D)2H	102882.370	4.5	4F(5D)4[4]	121.5494	-2.627	25981.629	3.5	D6S (3G)4G	108239.200	3.5	240DD
121.1609	-8.982	25428.784	5.5	D6S (3G)4G	107964.700	4.5	210DD	121.5690	-8.429	21711.917	3.5	D6S (3H)4H	103969.760	3.5	4F(5D)1[3]
121.1618	-3.625	20830.582	2.5	D6S (3P)4P	103364.840	2.5	4F(5D)3[3]	121.5852	-2.548	8391.938	2.5	D6S (5D)4D	90629.920	1.5	4P (3P)4S
121.1644	-3.871	7955.299	3.5	D6S (5D)4D	90487.810	2.5	5P (5D)6F	121.5983	-4.627	8391.938	2.5	D6S (5D)4D	90629.920	1.5	4P (3P)4S
121.1690	-2.207	16369.360	3.5	D7 (5D)2G	94889.710	3.5	4P (1G)2F	121.6038	-3.105	12810.357	3.5	D6S (3F)4F	103028.600	3.5	4SP(3I)4H
121.1704	-2.406	8680.454	1.5	D6S (5D)4D	91208.887	1.5	5P (5D)4F	121.6141	-6.466	16369.360	3.5	D7 (5D)2G	98596.650	4.5	4SP(5D)4F
121.1809	-3.845	13474.411	2.5	D7 (5D)4P	95995.690	2.5	46P(5P)4D	121.6239	-2.451	8680.454	1.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F
121.1818	-7.767	20805.770	4.5	D7 (5D)2H	103326.410	4.5	4F(5D)3[4]	121.6272	-2.973	8680.454	1.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F
121.1825	-7.259	20805.770	4.5	D7 (5D)2H	103325.950	5.5	4F(5D)3[5]	121.6275	-2.144	22810.357	3.5	D6S (3F)4F	103028.600	3.5	4SP(3I)4H
121.1838	-3.002	8680.454	1.5	D6S (5D)4D	91199.746	0.5	5P (5D)4D	121.6282	-3.283	26352.766	4.5	D6S (3H)2H	108570.560	4.5	4SP(3G)4G
121.1860	-5.457	20516.960	2.5	D7 (5D)2D	103034.760	1.5	46P(3G)4H	121.6483	-3.934	20830.582	2.5	D6S (3P)4P	103034.760	1.5	4F(5D)4[2]
121.1883	-3.210	26352.766	4.5	D6S (3H)2H	108868.980	4.5	46P(3G)4H	121.6522	-5.026	8391.938	2.5	D6S (5D)4D	90593.497	1.5	5P (5D)6F
121.1959	-7.431	20340.300	5.5	D7 (5D)2H	101402.380	0.5	46P(5D)4P	121.6523	-2.356	8846.768	0.5	D6S (5D)4D	91048.256	1.5	5P (5D)4D
121.1973	-3.642	20830.582	2.5	D6S (3P)4P	102851.360	4.5	4F(5D)4[5]	121.6638	-3.663	20830.582	2.5	D6S (3P)4P	103024.290	2.5	4F(5D)4[2]
121.1986	-3.008	8391.938	2.5	D6S (5D)4D	90340.640	3.5	4F(5D)3[4]	121.6769	-4.032	13673.185	1.5	D7 (5D)4P	95858.050	1.5	4SP(3I)4H
121.2014	-5.141	20516.960	2.5	D7 (5D)2D	90901.124	2.5	5P (5D)4F	121.6785	-4.199	26055.423	2.5	D6S (3G)4G	108239.200	3.5	240DD
121.2019	-3.280	8391.938	2.5	D6S (5D)4D	103024.290	2.5	4F(5D)4[2]	121.6847	-1.564	22637.205	4.5	D6S (3F)4F	104816.800	5.5	4SP(3I)4H
121.2070	-4.135	20830.582	2.5	D6S (3P)4P	90898.873	1.5	4P (3P)4F	121.6902	-4.243	21812.055	1.5	D6S (3P)4P	103987.930	2.5	4F(5D)1[3]
121.2122	-7.001	20340.300	5.5	D7 (5D)2H	102840.250	6.5	4F(5D)4[6]	121.6922	-4.199	20805.770	4.5	D7 (5D)2H	102980.300	5.5	4SP(3I)4I
121.2160	-2.849	26352.766	4.5	D6S (3H)2H	108809.310	5.5	46P(3G)4H	121.6978	-9.363	21711.917	3.5	D6S (3H)4H	103882.680	3.5	4SP(5D)4F
121.21966	-2.389	7955.299	3.5	D6S (5D)4D	90397.868	3.5	5P (5D)4D	121.7041	-4.437	16369.360	3.5	D7 (5D)2G	98535.850	3.5	4SP(5D)4F
121.3075	-5.101	20516.960	2.5	D7 (5D)2D	102952.120	2.5	4F(5D)4[3]	121.7147	-7.177	21711.917	3.5	D6S (3H)4H	103873.990	4.5	4F(5D)1[4]
121.3090	-4.582	15844.650	4.5	D7 (5D)2G	98278.770	5.5	4P (1G)2H	121.7143	-2.906	27620.412	2.5	D6S (3F)2F	10780.000	1.5	280DD
121.3094	-1.813	25805.328	4.5	D6S (3G)4G	108239.200	3.5	240DD	121.7152	-4.948	8680.454	1.5	D6S (3G)4G	107964.700	4.5	210DD
121.3132	-1.698	7955.299	3.5	D6S (5D)4D	90386.528	4.5	5P (5D)4F	121.7205	-2.169	25805.328	4.5	D6S (3G)4G	107964.700	4.5	210DD
121.3221	-5.180	20516.960	2.5	D7 (5D)2D	102942.020	3.5	4F(5D)4[3]	121.7291	-5.701	20340.300	5.5	D7 (5D)2H	102489.900	6.5	4SP(3P)2S
121.3533	-3.810	25787.598	1.5	D6S (3P)2P	108191.600	1.5	230DD	121.7301	-2.128	25981.629	3.5	D6S (3G)4G	108130.600	2.5	220DD
121.3587	-5.348	26170.181	5.5	D6S (3H)2H	108570.560	4.5	46P(3G)4G	121.7349	-4.859	20805.770	4.5	D7 (5D)2H	102951.500	4.5	4SP(3I)4I
121.3708	-3.111	25981.629	3.5	D6S (3G)4G	108373.800	3.5	260DD	121.7487	-8.867	20805.770	4.5	D7 (5D)2H	102942.200	3.5	4F(5D)4[3]
121.3719	-2.794	22637.205	4.5	D6S (3F)4F	103028.600	3.5	46P(3I)4H	121.7490	-5.251	26055.423	2.5	D6S (3G)4G	108191.600	1.5	230DD
121.3734	-7.102	21308.040	1.5	D7 (5D)2D	103698.440	2.5	4F(5D)2[3]	121.7566	-3.123	26352.766	4.5	D6S (3H)2H	108483.870	5.5	4SP(3G)4G
121.3738	-2.158	8680.454	1.5	D6S (5D)4D	91070.547	2.5	5P (5D)4F	121.7583	-9.045	21581.638	4.5	D6S (3H)4H	103711.570	3.5	4F(5D)2[4]
121.3759	-1.948	8391.938	2.5	D6S (5D)4D	90780.621	3.5	5P (5D)4F	121.7593	-6.143	21308.040	1.5	D7 (5D)2D	103437.280	0.5	4F(5D)3[1]
121.3833	-4.017	13474.411	2.5	D7 (5D)4P	95858.050	1.5	46P(5P)4D	121.7620	-1.639	22810.357	3.5	D6S (3F)4F	104937.800	4.5	4SP(3I)4H
121.3917	-5.153	20805.770	4.5	D7 (5D)2H	103183.700	3.5	46P(3P)2F	121.7707	-3.605	20830.582	2.5	D6S (3P)4P	102952.120	2.5	4F(5D)4[3]
121.4032	-5.153	20516.960	2.5	D7 (5D)2D	102887.120	3.5	4F(5D)4[4]	121.7729	-8.766	21581.638	4.5	D6S (3H)4H	103701.720	4.5	4F(5D)2[5]
121.4061	-8.035	21308.040	1.5	D7 (5D)2D	103676.220	0.5	4F(5D)2[1]	121.7848	-2.269	7955.299	3.5	D6S (5D)4D	90067.347	4.5	5P (5D)6F
121.4067	-3.669	8680.454	1.5	D6S (5D)4D	91048.256	1.5	5P (5D)4D	121.7854	-3.694	20830.582	2.5	D6S (3P)4P	102942.200	3.5	4F(5D)4[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
121.7878	-5.261	21308.040	1.5	D7	(5D)2D	103418.080	0.5	4F(5D)3[10]	122.1918	-6.601	21581.638	4.5	D6S	(3H)4H	103420.160	5.5	4F(5D)3[6]
121.7880	-6.019	21308.040	1.5	D7	(5D)2D	103417.910	1.5	4F(5D)3[11]	122.1998	-5.295	21812.055	1.5	D6S	(3F)4F	103645.220	1.5	4F(5D)2[2]
121.7887	-7.202	21581.638	4.5	D6S	(3H)4H	103691.050	5.5	4F(5D)2[5]	122.2028	-2.971	26055.423	2.5	D6S	(3C)4G	107886.600	3.5	200DD
121.8042	-8.052	21581.638	4.5	D6S	(3H)4H	103680.640	4.5	4F(5D)2[4]	122.2231	-4.777	21308.040	1.5	D7	(5D)2D	103125.650	0.5	4F(5D)4[11]
121.8053	-6.611	21308.040	1.5	D7	(5D)2D	103406.250	2.5	4F(5D)3[2]	122.2384	-2.449	8680.454	1.5	D6S	(5D)4D	90487.810	2.5	5P (5D)6F
121.8088	-2.776	8391.938	2.5	D6S	(5D)4D	90487.810	2.5	5P (5D)6F	122.2433	-8.469	21581.638	4.5	D6S	(3H)4H	103385.730	3.5	4F(5D)3[3]
121.8099	-8.751	21581.638	4.5	D6S	(3H)4H	103676.780	3.5	4F(5D)2[3]	122.2453	-4.952	21308.040	1.5	D7	(5D)2D	103108.170	1.5	4F(5D)4[11]
121.8108	-4.153	13673.185	1.5	D7	(3F)4F	95767.700	0.5	4SP(5P)4D	122.2472	-5.883	8846.768	0.5	D6S	(5D)4D	90648.217	0.5	5P (5D)6F
121.8186	-1.944	22939.358	2.5	D6S	(3F)4F	105028.600	3.5	4SP(5P)4H	122.2576	-2.548	26170.181	5.5	D6S	(3H)2H	107964.700	4.5	210DD
121.8211	-8.345	20805.770	4.5	D7	(5D)2H	102893.380	5.5	4F(5D)4[6]	122.2746	-4.857	8846.768	0.5	D6S	(5D)4D	90629.902	1.5	4P (3F)4S
121.8213	-6.504	7955.299	3.5	D6S	(5D)4D	90042.779	1.5	4P (3F)4G	122.2912	-7.676	7955.299	3.5	D6S	(5D)4D	89727.342	2.5	4P (3F)4G
121.8275	-5.418	21308.040	1.5	D7	(5D)2D	103391.290	1.5	4F(5D)3[2]	122.2927	-7.678	21581.638	4.5	D6S	(3H)4H	103352.680	4.5	4F(5D)3[5]
121.8305	-1.095	25805.328	4.5	D6S	(3G)4G	107886.600	3.5	200DD	122.3107	-7.965	21581.638	4.5	D6S	(3H)4H	103340.640	3.5	4F(5D)3[4]
121.8374	-8.716	20805.770	4.5	D7	(5D)2H	102882.370	4.5	4F(5D)4[4]	122.3291	-3.099	8846.768	0.5	D6S	(5D)4D	90593.497	1.5	5P (5D)6F
121.8395	-2.844	26055.423	2.5	D6S	(3G)4G	108130.600	2.5	220DD	122.3320	-7.216	21581.638	4.5	D6S	(3H)4H	103326.410	4.5	4F(5D)3[4]
121.8666	-4.295	21812.055	1.5	D6S	(3P)4F	103869.020	1.5	4F(5D)1[2]	122.3327	-7.221	21581.638	4.5	D6S	(3H)4H	103325.950	5.5	4F(5D)3[5]
121.8668	-5.849	21308.040	1.5	D7	(5D)2D	103364.840	2.5	4F(5D)3[3]	122.3561	-3.868	21251.608	6.5	D6S	(3H)4H	102980.300	5.5	4SP(3I)4I
121.8672	-3.646	20830.582	2.5	D6S	(3P)4F	102887.120	3.5	4F(5D)4[4]	122.3590	-4.873	21308.040	1.5	D7	(5D)2D	103034.760	1.5	4F(5D)4[2]
121.8738	-3.120	8846.768	0.5	D6S	(5D)4D	90898.873	1.5	4P (3P)4F	122.3747	-5.171	21308.040	1.5	D7	(5D)2D	103024.290	2.5	4F(5D)3[2]
121.8833	-4.124	21812.055	1.5	D6S	(3P)4F	103857.740	2.5	4F(5D)4[5]	122.3826	-8.620	23317.633	2.5	D5S2(7S)6S	105028.600	3.5	4SP(3I)4H	
121.8835	-9.092	20805.770	4.5	D7	(5D)2H	102851.360	4.5	4F(5D)4[5]	122.4075	-8.332	21711.917	3.5	D6S	(3H)4H	103406.250	2.5	4F(5D)3[2]
121.8922	-3.688	18360.646	1.5	D7	(5D)2P	100400.360	2.5	4SP(3P)2F	122.4132	-0.331	21430.359	5.5	D6S	(3H)4H	103120.900	6.5	4SP(3I)4I
121.9125	-3.356	21308.040	1.5	D7	(5D)2D	103334.100	2.5	4SP(3D)2F	122.4383	-7.230	21711.917	3.5	D6S	(3H)4H	103385.730	3.5	4F(5D)3[3]
121.9186	-7.983	16369.360	3.5	D7	(3H)2G	98391.330	3.5	4SP(5D)4D	122.4391	-4.162	20830.582	2.5	D6S	(3P)4F	102449.100	2.5	4SP(3D)2D
121.9199	-2.349	26352.766	4.5	D6S	(3H)2G	108373.800	3.5	260DD	122.4696	-8.611	21711.917	3.5	D6S	(3H)4H	103326.410	4.5	4F(5D)3[4]
121.9413	-2.574	15844.650	4.5	D7	(5D)2G	97851.350	4.5	4P (1G)2H	122.4829	-5.134	21308.040	1.5	D7	(5D)2D	102952.120	2.5	4F(5D)4[3]
121.9424	-6.414	8391.938	2.5	D6S	(5D)4D	90397.868	3.5	5P (5D)4D	122.4878	-6.467	21711.917	3.5	D6S	(3H)4H	103352.680	4.5	4F(5D)3[5]
121.9512	-6.037	20340.300	5.5	D7	(5D)2H	102340.300	5.5	4SP(3I)4K	122.5059	-8.637	21711.917	3.5	D6S	(3H)4H	103347.280	0.5	4F(5D)3[1]
121.9517	-7.463	21711.917	3.5	D6S	(3H)4H	103711.570	3.5	4F(5D)2[4]	122.5111	-5.347	21812.055	1.5	D6S	(3P)4F	103437.280	0.5	4F(5D)3[1]
121.9533	-4.215	1872.567	4.5	D7	(5D)4F	83871.184	4.5	4P (1F)2G	122.5157	-3.239	21711.917	3.5	D6S	(3H)4H	103334.100	2.5	4SP(3D)2F
121.9621	-4.858	8846.768	0.5	D6S	(5D)4D	90839.480	0.5	4P (3P)4F	122.5212	-2.620	20830.582	2.5	D6S	(3P)4F	102449.100	2.5	4SP(3D)2D
121.9664	-6.790	21711.917	3.5	D6S	(3H)4H	103701.720	4.5	4F(5D)2[5]	122.5273	-8.684	21711.917	3.5	D6S	(3H)4H	103326.410	4.5	4F(5D)3[4]
121.9708	-6.434	20516.960	2.5	D7	(5D)2D	102503.810	1.5	4SP(3D)2D	122.5311	-5.740	26352.766	4.5	D6S	(3H)2H	107964.700	4.5	210DD
121.9713	-8.810	21711.917	3.5	D6S	(3H)4H	103698.440	2.5	4F(5D)2[3]	122.5400	-4.038	21812.055	1.5	D6S	(3P)4F	103418.080	0.5	4F(5D)3[0]
121.9731	-5.869	16369.360	3.5	D7	(5D)2G	98354.660	2.5	4SP(5D)4F	122.5402	-8.519	21812.055	1.5	D6S	(3P)4F	103417.910	1.5	4F(5D)3[1]
121.9764	-2.789	25981.629	3.5	D6S	(3G)4G	107964.700	4.5	4SP(5D)4F	122.5412	-3.418	13474.411	2.5	D7	(5D)4F	95079.640	3.5	4P (3F)2F
121.9802	-0.300	21251.608	6.5	D6S	(3H)4H	102322.100	7.5	4SP(3I)4I	122.5459	-3.292	21581.638	4.5	D6S	(3H)4H	103183.700	3.5	4SP(3D)2F
121.9978	-9.334	21711.917	3.5	D6S	(3H)4H	103680.640	4.5	4F(5D)2[4]	122.5496	-0.775	21251.608	6.5	D6S	(3H)4H	102851.200	7.5	4SP(3I)4K
121.9992	-5.404	8680.454	1.5	D6S	(5D)4D	90648.217	0.5	5P (5D)6F	122.5577	-4.961	21812.055	1.5	D6S	(3P)4F	103406.250	2.5	4F(5D)3[2]
122.0035	-8.501	21711.917	3.5	D6S	(3H)4H	103676.780	3.5	4F(5D)2[3]	122.5615	-4.033	27314.922	3.5	D6S	(3F)2F	108906.640	3.5	4SP(3G)4H
122.0132	-3.072	8680.454	1.5	D6S	(5D)4D	90638.822	2.5	5P (5D)4D	122.5651	-9.365	21430.359	5.5	D6S	(3H)4H	103019.670	6.5	4F(5D)4[7]
122.0208	-5.305	13904.824	0.5	D7	(5D)4D	95858.050	1.5	4SP(5P)4D	122.5802	-4.056	21812.055	1.5	D6S	(3P)4F	103391.290	1.5	4F(5D)3[2]
122.0264	-4.694	8680.454	1.5	D6S	(5D)4D	90629.902	1.5	4P (3P)4S	122.5827	-3.651	25428.784	5.5	D6S	(3G)4G	107006.350	4.5	4SP(3I)2H
122.0270	-9.580	21711.917	3.5	D6S	(3H)4H	103660.980	2.5	4F(5D)2[2]	122.5916	-4.555	13474.411	2.5	D7	(5D)4F	95046.100	2.5	4P (3F)2F
122.0379	-6.522	7955.299	3.5	D6S	(5D)4D	89890.373	3.5	4P (3F)4G	122.6019	-3.240	13474.411	2.5	D7	(5D)4F	95039.200	1.5	4P (3F)2P
122.0422	-4.319	20516.960	2.5	D7	(5D)2D	102449.100	2.5	4SP(3D)2D	122.6127	-3.796	22409.852	0.5	D6S	(3P)4F	103967.980	0.5	4SP(3P)2S
122.0807	-3.489	8680.454	1.5	D6S	(5D)4D	90593.497	1.5	5P (5D)6F	122.6181	-5.248	27314.922	3.5	D6S	(3F)2F	108868.980	4.5	4SP(3G)4H
122.0872	-2.051	8391.938	2.5	D6S	(5D)4D	90300.625	3.5	5P (5D)6F	122.6200	-4.360	21812.055	1.5	D6S	(3P)4F	103364.840	2.5	4F(5D)3[3]
122.0927	-1.607	23981.629	3.5	D6S	(3G)4G	107886.600	3.5	200DD	122.6242	-2.205	21430.359	5.5	D6S	(3H)4H	102980.300	5.5	4SP(3I)4I
122.1024	-5.650	26352.766	4.5	D6S	(3H)2H	108239.200	3.5	240DD	122.6474	-5.466	20805.770	4.5	D7	(5D)2H	102340.300	5.5	4SP(3I)4K
122.1204	-4.405	21812.055	1.5	D6S	(3P)4F	103698.440	2.5	4F(5D)2[3]	122.6485	-3.524	26352.766	4.5	D6S	(3H)2H	107886.600	3.5	200DD
122.1459	-3.118	21251.608	6.5	D6S	(3H)4H	103120.900	6.5	4SP(3I)4I	122.6662	-3.835	21812.055	1.5	D6S	(3P)4F	103334.100	2.5	4SP(3D)2F
122.1536	-5.581	21812.055	1.5	D6S	(3P)4F	103676.780	3.5	4F(5D)2[1]	122.6665	-3.408	2837.950	2.5	D7	(5D)4F	84359.800	1.5	4P (1F)2D
122.1555	-4.431	13904.824	0.5	D7	(5D)4F	95767.700	0.5	4SP(5P)4D	122.6676	-5.153	21430.359	5.5	D6S	(3H)4H	102951.800	4.5	4SP(3I)4I
122.1648	-4.362	21812.055	1.5	D6S	(3P)4F	103668.690	1.5	4F(5D)2[1]	122.7017	-5.511	8391.938	2.5	D6S	(5D)4D	89890.373	3.5	4P (3F)4G
122.1763	-5.074	21812.055	1.5	D6S	(3P)4F	103660.											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
122.7609	-3.460	22409.852	0.5	D6S (3P)4F	103869.020	1.5	4F(5D)1[2]	123.2071	-4.710	7955.299	3.5	D6S (5D)4F	89119.457	2.5	5P (5D)6D
122.7881	-3.978	2430.097	3.5	D7 (5D)4F	83871.184	4.5	4P (1F)2G	123.2140	-1.950	27620.412	2.5	D6S (3F)2F	108780.000	1.5	270DD
122.7914	-1.846	26932.748	0.5	D6S (3P)2P	108371.700	1.5	250DD	123.2143	-6.094	22810.357	3.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[3]
122.7923	-3.168	2430.097	3.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D	123.2422	-3.586	21308.040	1.5	D7 (5D)2D	102449.100	2.5	4SP(3D)2D
122.8008	-6.381	1872.567	4.5	D7 (5D)4F	83305.251	3.5	4P (1F)2G	123.2426	-2.766	26055.423	2.5	D6S (3G)4G	107196.200	2.5	180DD
122.8371	-3.850	25787.958	1.5	D6S (3P)2P	107196.200	2.5	180DD	123.2437	-3.978	21812.055	1.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]
122.8521	-0.373	21581.638	4.5	D6S (3H)4H	102980.300	5.5	4SP(3I)4I	123.2446	-7.350	21711.917	3.5	D6S (3H)4H	102851.360	4.5	4F(5D)4[5]
122.8717	-7.610	22637.205	4.5	D6S (3F)4F	104022.890	3.5	4F(5D)0[3]	123.2523	-2.959	13904.824	0.5	D7 (5D)4F	95039.200	1.5	4P (3P)2P
122.8910	-4.095	13673.185	1.5	D7 (5D)4F	95046.100	2.5	4P (3F)2F	123.2523	-3.866	26055.423	2.5	D6S (3G)4G	107165.600	3.5	170DD
122.8936	-2.006	21581.638	4.5	D6S (3H)4H	102951.500	4.5	4SP(3I)4I	123.2891	-3.866	2055.423	2.5	D6S (3G)4G	104046.350	2.5	4F(5D)0[3]
122.9014	-4.940	13673.185	1.5	D7 (5D)4F	95039.200	1.5	4P (3F)2P	123.2939	-5.730	22939.358	2.5	D6S (3F)4F	104046.350	2.5	4F(5D)0[3]
122.9037	-7.481	21581.638	4.5	D6S (3H)4H	102942.200	3.5	4F(5D)4[3]	123.3218	-7.403	21251.608	6.5	D6S (3H)4H	102340.300	5.5	4SP(3I)4K
122.9101	-2.020	25805.328	4.5	D6S (3G)4G	107165.600	3.5	170DD	123.3296	-5.160	22939.358	2.5	D6S (3F)4F	102402.890	3.5	4F(5D)0[3]
122.9477	-6.392	8391.938	2.5	D6S (5D)4D	89727.342	2.5	4P (3F)4G	123.3436	-6.913	22637.205	4.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]
122.9520	-8.565	22637.205	4.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[3]	123.3467	-7.023	22810.357	3.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]
122.9768	-3.192	27314.922	3.5	D6S (3F)2F	108631.090	3.5	4SP(3G)4G	123.3563	-4.181	13673.185	1.5	D7 (5D)4F	94739.170	1.5	4SP(5P)4P
122.9796	-8.639	27314.922	3.5	D6S (3F)2F	108629.250	2.5	4SP(3G)4G	123.3585	-6.650	22637.205	4.5	D6S (3F)4F	103701.720	4.5	4F(5D)2[5]
122.9807	-3.588	21812.055	1.5	D6S (3P)4P	103125.650	0.5	4F(5D)4[1]	123.3599	-4.845	22810.357	3.5	D6S (3F)4F	103873.990	4.5	4F(5D)1[4]
122.9825	-7.691	21711.917	3.5	D6S (3H)4H	103024.290	2.5	4F(5D)4[2]	123.3661	-0.919	21430.359	5.5	D6S (3H)4H	102489.900	6.5	4SP(3I)4K
122.9835	-5.952	21581.638	4.5	D6S (3H)4H	102893.380	5.5	4F(5D)4[6]	123.3671	-4.035	27314.922	3.5	D6S (3F)2F	108373.800	3.5	260DD
122.9929	-7.511	21581.638	4.5	D6S (3H)4H	102887.120	3.5	4F(5D)4[4]	123.3748	-5.107	25805.328	4.5	D6S (3G)4G	106863.200	3.5	160DD
123.0001	-6.521	21581.638	4.5	D6S (3H)4H	102882.790	4.5	4F(5D)4[4]	123.3748	-5.107	20516.960	2.5	D7 (5D)2D	101573.900	1.5	4SP(5D)4P
123.0031	-3.803	21812.055	1.5	D6S (3P)4P	103110.700	1.5	4F(5D)4[1]	123.3768	-4.582	8391.938	2.5	D6S (3F)4F	103691.050	5.5	4F(5D)2[5]
123.0182	-5.140	13474.411	2.5	D7 (5D)4F	94763.219	3.5	4SP(5D)6P	123.3768	-4.582	22637.205	4.5	D6S (3F)4F	89444.458	2.5	4SP(5P)6P
123.0221	-5.164	27620.412	2.5	D6S (3F)2F	108906.640	3.5	4SP(3G)4H	123.3828	-6.519	22939.358	2.5	D6S (3F)4F	103987.930	2.5	4F(5D)1[3]
123.0471	-6.952	21581.638	4.5	D6S (3H)4H	102851.360	4.5	4F(5D)4[5]	123.3846	-7.926	22810.357	3.5	D6S (3F)4F	89727.342	2.5	4F(5D)1[2]
123.0521	-3.750	22409.852	0.5	D6S (3P)4P	103676.220	0.5	4F(5D)4[5]	123.3854	-5.736	8680.454	1.5	D6S (5D)4D	89727.342	2.5	4P (3F)4G
123.0546	-2.851	13474.411	2.5	D7 (5D)4F	94739.170	1.5	4SP(5P)4P	123.3906	-5.946	22637.205	4.5	D6S (3F)4F	103680.640	4.5	4F(5D)2[4]
123.0597	-1.247	25428.784	5.5	D6S (3G)4G	106690.170	5.5	4SP(3I)2H	123.3965	-6.632	22637.205	4.5	D6S (3F)4F	103676.780	3.5	4F(5D)2[3]
123.0635	-4.146	26932.748	0.5	D6S (3P)2P	108191.600	1.5	230DD	123.4103	-3.133	2837.950	2.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D
123.0635	-4.010	22409.852	0.5	D6S (3P)4P	103668.690	1.5	4F(5D)2[1]	123.4103	-3.133	22939.358	2.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[3]
123.0684	-4.173	27314.922	3.5	D6S (3F)2F	108570.560	4.5	4SP(3G)4G	123.4149	-3.299	13673.185	1.5	D7 (5D)4F	94700.660	2.5	4P (3F)2D
123.0774	-8.761	21581.638	4.5	D6S (3H)4H	102831.320	5.5	4F(5D)4[5]	123.4150	-3.753	22409.852	0.5	D6S (3F)4F	103437.280	0.5	4F(5D)3[1]
123.0838	-8.187	22637.205	4.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]	123.4191	-3.038	25981.629	3.5	D6S (3G)4G	107006.350	4.5	4SP(3I)2H
123.0885	-3.158	3117.461	1.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	123.4339	-5.424	23031.300	1.5	D6S (3F)4F	104046.350	2.5	4F(5D)0[3]
123.0918	-7.714	21711.917	3.5	D6S (3H)4H	102952.120	2.5	4F(5D)4[3]	123.4386	-3.352	13673.185	1.5	D7 (5D)4P	94685.090	2.5	4SP(5D)6P
123.0927	-0.404	21711.917	3.5	D6S (3H)4H	102951.500	4.5	4SP(3I)4I	123.4403	-4.127	27620.412	2.5	D6S (3F)2F	108631.090	3.5	4SP(3G)4G
123.0947	-2.738	21251.608	6.5	D6S (3H)4H	102489.900	6.5	4SP(3I)4K	123.4433	-2.702	27620.412	2.5	D6S (3F)2F	108629.250	2.5	4SP(3G)4G
123.0969	-7.408	22637.205	4.5	D6S (3F)4F	103873.990	4.5	4F(5D)1[4]	123.4443	-5.107	22409.852	0.5	D6S (3P)4P	103418.080	0.5	4F(5D)3[0]
123.0981	-6.679	22810.357	3.5	D6S (3F)4F	104046.350	2.5	4F(5D)0[3]	123.4445	-4.237	22409.852	0.5	D6S (3P)4P	103417.910	1.5	4F(5D)3[1]
123.0991	-4.236	22409.852	0.5	D6S (3P)4P	103645.220	1.5	4F(5D)2[2]	123.4851	-5.050	22409.852	0.5	D6S (3F)4F	103391.290	1.5	4F(5D)3[2]
123.1012	-7.241	8391.938	2.5	D6S (5D)4D	89625.940	1.5	4SP(5P)6P	123.4935	-3.452	13904.824	0.5	D7 (5D)4F	94880.740	0.5	4SP(5P)4P
123.1068	-7.102	21711.917	3.5	D6S (3H)4H	102942.200	3.5	4F(5D)4[3]	123.5229	-5.567	23031.300	1.5	D6S (3F)4F	103987.930	2.5	4F(5D)1[3]
123.1129	-3.187	13474.411	2.5	D7 (5D)4F	94700.660	2.5	4P (3F)2D	123.5399	-5.156	8680.454	1.5	D6S (5D)4D	89625.940	1.5	4SP(5P)6P
123.1183	-3.713	21812.055	1.5	D6S (3P)4P	103034.760	1.5	4F(5D)4[2]	123.5432	-4.675	22939.358	2.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]
123.1306	-2.549	25981.629	3.5	D6S (3G)4G	107196.200	2.5	180DD	123.5494	-4.550	8391.938	2.5	D6S (5D)4D	89331.195	1.5	5P (5D)6D
123.1337	-6.664	22810.357	3.5	D6S (3F)4F	104022.890	3.5	4F(5D)0[3]	123.5541	-4.897	23031.300	1.5	D6S (3F)4F	103967.490	0.5	4SP(3P)2S
123.1342	-4.031	21812.055	1.5	D6S (3P)4P	103024.290	2.5	4F(5D)4[2]	123.5641	-7.390	27314.922	3.5	D6S (3F)2F	108239.200	3.5	240DD
123.1365	-3.253	13474.411	2.5	D7 (5D)4F	94685.090	2.5	4SP(5D)6P	123.5723	-2.654	27314.922	3.5	D6S (3F)2F	108239.200	3.5	240DD
123.1413	-1.002	23673.185	1.5	D7 (5D)4F	94880.740	0.5	4SP(5P)4P	123.5813	-6.224	22939.358	2.5	D6S (3F)4F	103857.740	2.5	4F(5D)1[2]
123.1512	-3.840	25805.328	4.5	D6S (3G)4G	107006.350	4.5	4SP(3I)2H	123.5942	-2.651	21430.359	5.5	D6S (3H)4H	102340.300	5.5	4SP(3I)4K
123.1591	-4.833	21308.040	1.5	D7 (5D)2D	102503.810	1.5	4SP(3D)2D	123.6075	-5.119	22810.357	3.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]
123.1770	-2.790	25981.629	3.5	D6S (3G)4G	107165.600	3.5	170DD	123.6121	-4.447	22810.357	3.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]
123.1867	-7.384	22810.357	3.5	D6S (3F)4F	103987.930	2.5	4F(5D)1[3]	123.6226	-4.446	22810.357	3.5	D6S (3F)4F	88853.533	3.5	5P (5D)6D
123.1903	-7.136	21711.917	3.5	D6S (3H)4H	102887.120	3.5	4F(5D)4[4]	123.6266	-6.463	22810.357	3.5	D6S (3F)4F	103701.720	4.5	4F(5D)2[5]
123.1933	-4.108	7955.299	3.5	D6S (5D)4D	89128.561	3.5	4SP(5P)6P	123.6326	-3.304	25805.328	4.5	D6S (3G)4G	106690.170	5.5	4SP(3I)2H
123.1975	-6.891	21711.917	3.5	D6S (3H)4H	102882.370	4.5	4F(5D)4[4]	123.6376	-2.998	25981.629	3.5	D6S (3G)4G	106863.200	3.5	160DD
123.2066	-3.235	30764.485	3.5	D6S (3G)2G	111929.000	2.5	290DD	123.6474	-4.736	2430.097	3.5	D7 (5D)4F	83305.251	3.5	4P (1F)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
123.6607	-6.125	22810.357	3.5	D6S (3F)4F	103676.780	3.5	4F(5D)2[3]	124.1074	-4.866	22810.357	3.5	D6S (3F)4F	103385.730	3.5	4F(5D)3[3]
123.6849	-7.209	22810.357	3.5	D6S (3F)4F	103660.980	2.5	4F(5D)2[2]	124.1131	-3.839	27314.922	3.5	D6S (3F)2F	107886.600	3.5	200DD
123.7046	-5.396	23031.300	1.5	D6S (3F)2H	103869.020	1.5	4F(5D)1[2]	124.1138	-3.624	27620.412	2.5	D6S (3F)2F	108191.600	1.5	230DD
123.7070	-4.002	26170.181	5.5	D6S (3H)2H	107006.350	4.5	4SP(3I)2H	124.1233	-6.627	23317.633	2.5	D5S2(7S)6S	103882.680	3.5	4F(5D)1[4]
123.7098	-3.160	13904.824	0.5	D7 (5D)4F	94739.170	1.5	4SP(5P)4P	124.1241	-3.291	31364.440	1.5	D6S (3D)4D	111929.000	2.5	290DD
123.7219	-4.813	23031.300	1.5	D6S (3F)4F	103857.740	2.5	4F(5D)1[2]	124.1396	-6.252	22810.357	3.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
123.7384	-1.320	27314.922	3.5	D6S (3F)2F	108130.600	2.5	200DD	124.1444	-6.932	23317.633	2.5	D5S2(7S)6S	103869.020	1.5	4F(5D)1[2]
123.7427	-4.081	26352.766	4.5	D6S (3H)2H	107165.600	3.5	170DD	124.1519	-3.622	22637.205	4.5	D6S (3F)4F	103183.700	3.5	4SP(3D)2F
123.7505	-4.120	26055.423	2.5	D6S (3G)4G	106863.200	3.5	160DD	124.1583	-4.108	22810.357	3.5	D6S (3F)4F	103352.680	4.5	4F(5D)3[5]
123.7763	-4.955	8680.454	1.5	D6S (3D)4D	89471.365	0.5	5P (5D)6D	124.1603	-3.730	31387.948	2.5	D6S (3D)4D	111929.000	2.5	290DD
123.7885	-4.496	22637.205	4.5	D6S (3F)4F	89625.940	1.5	4SP(5P)6P	124.1641	-3.035	13673.185	1.5	D7 (5D)4P	94211.739	2.5	4SP(5P)4P
123.7943	-6.100	8846.768	0.5	D6S (5D)4D	89265.940	1.5	4SP(5P)6P	124.1769	-5.679	22810.357	3.5	D6S (3F)4F	103340.640	3.5	4F(5D)3[4]
123.8050	-4.667	22939.358	2.5	D6S (3F)4F	88723.400	4.5	5P (5D)6D	124.1870	-6.210	22810.357	3.5	D6S (3F)4F	103334.100	2.5	4SP(3D)2F
123.8113	-4.077	7955.299	3.5	D6S (5D)4D	89444.458	2.5	4SP(5P)6P	124.1928	-0.676	26170.181	5.5	D6S (3H)2H	106690.170	5.5	4SP(3I)2H
123.8175	-6.516	8680.454	1.5	D6S (3D)4D	103698.440	2.5	4F(5D)2[3]	124.1988	-6.340	22810.357	3.5	D6S (3F)4F	103326.410	4.5	4F(5D)3[4]
123.8251	-6.818	22939.358	2.5	D6S (3F)4F	102340.300	5.5	4SP(3I)4K	124.2024	-6.605	13474.411	2.5	D7 (5D)4P	93988.170	2.5	4SP(5G)4G
123.8257	-1.200	21581.638	4.5	D6S (3H)4H	106183.100	6.5	4SP(3I)2K	124.2046	-2.905	15844.650	4.5	D7 (5D)2G	96356.960	3.5	4SP(3G)2F
123.8324	-2.876	25428.784	5.5	D6S (3G)4G	106183.100	6.5	4SP(3I)2K	124.2075	-3.633	26352.766	4.5	D6S (3H)2H	106863.200	3.5	160DD
123.8338	-2.937	27620.412	2.5	D6S (3F)2F	108373.800	3.5	260DD	124.2075	-3.633	26352.766	4.5	D6S (3H)2H	106863.200	3.5	160DD
123.8370	-1.372	27620.412	2.5	D6S (3F)2F	108371.700	1.5	250DD	124.2079	-2.349	27620.412	2.5	D6S (3H)2H	106863.200	3.5	160DD
123.8375	-4.009	3117.461	1.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D	124.2476	-6.646	8846.768	0.5	D6S (5D)4D	89331.195	1.5	5P (5D)6D
123.8413	-6.364	22637.205	4.5	D6S (3F)4F	103385.730	3.5	4F(5D)3[3]	124.2567	-5.501	22939.358	2.5	D6S (3F)4F	103417.910	1.5	4F(5D)3[1]
123.8493	-2.129	20830.582	2.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P	124.2741	-4.120	2837.950	2.5	D7 (5D)4F	83305.251	3.5	4P (1F)2G
123.8583	-4.772	22939.358	2.5	D6S (3F)4F	103676.780	3.5	4F(5D)2[3]	124.2741	-4.120	2837.950	2.5	D7 (5D)4F	83305.251	3.5	4P (1F)2G
123.8584	-3.061	13474.411	2.5	D7 (5D)4F	94211.739	2.5	4SP(5P)4P	124.2747	-4.645	22939.358	2.5	D6S (3F)4F	103406.250	2.5	4F(5D)3[2]
123.8587	-3.589	21711.917	3.5	D6S (3H)4H	102449.100	2.5	4SP(3D)2D	124.2829	-5.408	8391.938	2.5	D6S (5D)4D	88853.533	3.5	5P (5D)6D
123.8595	-6.293	8391.938	2.5	D6S (3D)4D	89128.561	3.5	4SP(5P)6P	124.2978	-8.285	22939.358	2.5	D6S (3F)4F	103391.290	1.5	4F(5D)3[2]
123.8707	-7.238	22939.358	2.5	D6S (3F)4F	103668.690	1.5	4F(5D)2[1]	124.3064	-4.260	22939.358	2.5	D6S (3F)4F	103385.730	3.5	4F(5D)3[3]
123.8717	-6.408	23317.633	2.5	D5S2(7S)6S	104046.350	2.5	4F(5D)0[3]	124.3073	-4.761	31483.176	3.5	D6S (3D)4D	111929.000	2.5	290DD
123.8735	-4.953	8391.938	2.5	D6S (5D)4D	89119.457	2.5	5P (5D)6D	124.3178	-6.578	8680.454	1.5	D6S (5D)4D	89119.457	2.5	5P (5D)6D
123.8825	-5.239	22939.358	2.5	D6S (3F)4F	103660.980	2.5	4F(5D)2[2]	124.3387	-6.411	22939.358	2.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
123.8915	-5.094	22409.852	0.5	D6S (3P)4P	103125.650	0.5	4F(5D)4[1]	124.3634	-5.762	18360.646	1.5	D7 (5D)2P	98770.140	1.5	48P(5D)4D
123.8920	-5.591	22637.205	4.5	D6S (3F)4F	103352.680	4.5	4F(5D)3[5]	124.3689	-6.097	23031.300	1.5	D6S (3F)4F	103437.280	0.5	4F(5D)3[1]
123.9067	-6.043	22939.358	2.5	D6S (3F)4F	103645.220	1.5	4F(5D)2[2]	124.3761	-5.633	22939.358	2.5	D6S (3F)4F	103340.640	3.5	4F(5D)3[4]
123.9105	-5.826	22637.205	4.5	D6S (3F)4F	103340.640	3.5	4F(5D)3[4]	124.3862	-4.703	22939.358	2.5	D6S (3F)4F	103334.100	2.5	4SP(3D)2F
123.9143	-5.119	22409.852	0.5	D6S (3P)4P	103110.790	1.5	4F(5D)4[1]	124.3875	-5.641	23317.633	2.5	D5S2(7S)6S	103711.570	3.5	4F(5D)2[4]
123.9284	-3.448	21812.055	1.5	D6S (3P)4P	102503.810	1.5	4SP(3D)2D	124.3986	-7.728	23031.300	1.5	D6S (3F)4F	103418.080	0.5	4F(5D)3[0]
123.9330	-5.060	22637.205	4.5	D6S (3F)4F	103326.410	4.5	4F(5D)3[4]	124.4078	-6.326	23317.633	2.5	D5S2(7S)6S	103698.440	2.5	4F(5D)2[3]
123.9614	-7.140	23317.633	2.5	D5S2(7S)6S	103698.440	2.5	4F(5D)2[3]	124.4194	-5.113	22810.357	3.5	D6S (3F)4F	103406.250	2.5	4F(5D)3[2]
123.9784	-5.120	7955.299	3.5	D6S (5D)4D	88614.520	4.5	4SP(5P)6D	124.4202	-4.614	15844.650	4.5	D7 (5D)2G	96217.420	3.5	48P(5P)4D
123.9871	-0.732	26352.766	4.5	D6S (3H)2H	107006.350	4.5	4SP(3I)2H	124.4308	-3.423	13474.411	2.5	D7 (5D)4P	93840.340	1.5	48P(5D)6D
123.9893	-7.502	23317.633	2.5	D5S2(7S)6S	103969.760	3.5	4F(5D)1[3]	124.4400	-6.050	23031.300	1.5	D6S (3F)4F	103391.290	1.5	4F(5D)3[2]
123.9914	-7.675	8680.454	1.5	D6S (5D)4D	89331.195	1.5	5P (5D)6D	124.4413	-6.713	23317.633	2.5	D5S2(7S)6S	103676.780	3.5	4F(5D)3[3]
123.9929	-3.653	27314.922	3.5	D6S (3F)2F	107964.700	4.5	210DD	124.4428	-3.629	13673.185	1.5	D7 (5D)4P	94031.378	0.5	48P(5D)6D
123.9971	-5.063	18360.646	1.5	D7 (5D)2P	99007.700	0.5	4SP(5D)4D	124.4453	-5.128	13474.411	2.5	D7 (5D)4P	93830.979	2.5	48P(5D)6D
124.0004	-6.183	23031.300	1.5	D6S (3F)4F	103676.220	0.5	4F(5D)2[1]	124.4539	-8.534	23317.633	2.5	D5S2(7S)6S	103668.690	1.5	4F(5D)2[1]
124.0120	-5.348	23031.300	1.5	D6S (3F)4F	103668.690	1.5	4F(5D)2[1]	124.4658	-6.432	23317.633	2.5	D5S2(7S)6S	103660.980	2.5	4F(5D)2[1]
124.0125	-4.257	21812.055	1.5	D6S (3P)4P	102449.100	2.5	4SP(3D)2D	124.4662	-2.961	22637.205	4.5	D6S (3F)4F	102980.300	5.5	48P(3I)4I
124.0238	-5.157	23031.300	1.5	D6S (3F)4F	103660.980	2.5	4F(5D)2[2]	124.4750	-1.321	26352.766	4.5	D6S (3H)2H	106690.170	5.5	48P(3I)2H
124.0316	-5.575	8846.768	0.5	D6S (5D)4D	89471.365	0.5	5P (5D)6D	124.4810	-5.871	23031.300	1.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
124.0406	-3.978	27620.412	2.5	D6S (3F)2F	108239.220	3.5	240DD	124.4902	-6.802	23317.633	2.5	D5S2(7S)6S	103645.220	1.5	4F(5D)2[2]
124.0481	-5.550	23031.300	1.5	D6S (3F)4F	103645.220	1.5	4F(5D)2[2]	124.4973	-6.119	8680.454	1.5	D6S (5D)4D	89003.460	0.5	4P (3P)2S
124.0713	-5.893	13474.411	2.5	D7 (5D)4P	94073.240	3.5	4SP(5G)4G	124.5108	-4.569	13673.185	1.5	D7 (5D)4P	93988.170	2.5	48P(5G)4G
124.0758	-5.967	22810.357	3.5	D6S (3F)4F	103406.250	2.5	4F(5D)3[2]	124.5253	-5.332	22637.205	4.5	D6S (3F)4F	102942.200	3.5	4F(5D)4[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
124.5287	-4.456	23031.300	1.5	D6S (3F)2F	103334.100	2.5	4SP(3D)2F	125.2037	-3.184	16369.360	3.5	D7 (5D)2G	96239.200	4.5	4SP(3G)2H
124.5855	-5.654	27620.412	2.5	D6S (3F)2F	107886.600	3.5	200DD	125.2096	-6.808	23317.633	2.5	D5S2(7S)6S	103183.700	3.5	4SP(3G)2F
124.5860	-5.125	21308.040	1.5	D7 (5D)2D	101573.900	1.5	4SP(5D)4F	125.2284	-4.706	13474.411	2.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
124.6010	-3.809	22637.205	4.5	D6S (3F)4F	102893.380	5.5	4F(5D)4[6]	125.2338	-3.361	27314.922	3.5	D6S (3F)2F	107165.600	3.5	170DD
124.6041	-5.157	7955.299	3.5	D6S (3D)4D	88209.450	3.5	4SP(3F)6D	125.2379	-6.094	16369.360	3.5	D7 (5D)2G	96217.420	3.5	4SP(5P)4D
124.6107	-5.365	22637.205	4.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	125.2578	-4.919	18360.646	1.5	D7 (5D)2P	98196.000	1.5	4SP(5D)4F
124.6181	-4.375	22637.205	4.5	D6S (3F)4F	102882.370	4.5	4F(5D)4[4]	125.2858	-5.152	8391.938	2.5	D6S (5D)4D	88209.450	3.5	4SP(5P)6D
124.6194	-4.321	22939.358	2.5	D6S (3F)4F	103183.700	3.5	4SP(3D)2F	125.3240	-6.495	23317.633	2.5	D5S2(7S)6S	103110.790	1.5	4F(5D)4[1]
124.6612	-3.114	15844.650	4.5	D7 (5D)2G	96062.060	5.5	4SP(3G)2H	125.3732	-2.018	21812.955	1.5	D6S (5D)4D	101573.900	1.5	4SP(5D)4F
124.6663	-4.808	22637.205	4.5	D6S (3F)4F	102851.360	4.5	4F(5D)4[5]	125.4356	-2.367	13673.185	1.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F
124.6666	-5.330	22810.357	3.5	D6S (3F)4F	103024.320	2.5	4F(5D)4[2]	125.4436	-6.442	23317.633	2.5	D5S2(7S)6S	103034.760	2.5	4F(5D)4[2]
124.6974	-6.596	22637.205	4.5	D6S (3F)4F	102831.320	5.5	4F(5D)4[5]	125.4600	-6.170	23317.633	2.5	D5S2(7S)6S	103024.290	2.5	4F(5D)4[1]
124.7327	-5.703	22939.358	2.5	D6S (3F)4F	102831.320	1.5	4F(5D)4[1]	125.4656	-3.631	22637.205	4.5	D6S (3F)4F	102340.300	5.5	4SP(3I)4K
124.7394	-4.251	13673.185	1.5	D7 (5D)4F	93840.340	1.5	4SP(5D)6D	125.4840	-2.673	27314.922	3.5	D6S (3F)2F	107006.350	4.5	4SP(3I)2H
124.7539	-4.454	13673.185	1.5	D7 (5D)4F	93830.979	2.5	4SP(3D)6D	125.5218	-4.870	8391.938	2.5	D6S (5D)4D	88059.380	2.5	4SP(5P)6D
124.7556	-4.166	8846.768	0.5	D6S (5D)4D	89003.460	0.5	4P (3F)2F	125.5406	-1.068	13474.411	2.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D
124.7747	-4.585	18360.646	1.5	D7 (5D)2P	98505.100	2.5	4SP(3D)4D	125.5409	-3.323	13673.185	1.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
124.7789	-5.355	22810.357	3.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	125.5670	-3.518	22810.357	3.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
124.7799	-3.110	22810.357	3.5	D6S (3F)4F	102951.500	4.5	4SP(3I)4I	125.5737	-6.113	23317.633	2.5	D5S2(7S)6S	102952.120	2.5	4F(5D)4[3]
124.7943	-4.742	13904.824	0.5	D7 (5D)4F	102942.200	3.5	4F(5D)4[3]	125.5866	-5.903	16369.360	3.5	D7 (5D)2G	95995.690	2.5	4SP(5P)4D
124.8026	-4.316	18886.780	0.5	D7 (5D)4F	94031.378	0.5	4SP(5D)6D	125.5894	-6.202	23317.633	2.5	D5S2(7S)6S	102942.200	3.5	4F(5D)4[3]
124.8113	-6.614	18886.780	0.5	D7 (5D)2P	99007.700	0.5	4SP(3D)4D	125.6011	-5.358	7955.299	3.5	D6S (5D)4D	87572.431	2.5	4SP(5G)6F
124.8172	-4.233	31811.822	2.5	D7 (5D)2P	111929.000	2.5	290DD	125.6434	-1.675	21812.955	1.5	D6S (3F)4F	101402.380	0.5	4SP(5D)4P
124.8376	-4.164	7955.299	3.5	D6S (5D)4D	88059.380	2.5	4SP(3P)6D	125.6560	-4.152	7955.299	3.5	D6S (5D)4D	87537.652	3.5	4SP(5G)6F
124.8435	-7.024	23317.633	2.5	D5S2(7S)6S	103417.910	1.5	4F(5D)3[1]	125.6664	-3.407	27620.412	2.5	D6S (3F)2F	107196.200	2.5	180DD
124.8511	-5.700	22939.358	2.5	D6S (3F)4F	103034.760	1.5	4F(5D)4[2]	125.6712	-4.470	8391.938	2.5	D6S (5D)4D	87964.650	1.5	4SP(5P)6D
124.8528	-6.383	23031.300	1.5	D6S (3F)4F	103125.650	0.5	4F(5D)4[1]	125.6759	-3.076	20830.582	2.5	D6S (3F)4F	100400.360	2.5	4SP(3P)2D
124.8528	-6.444	21308.040	1.5	D7 (5D)2D	101402.380	0.5	4SP(5D)4F	125.6759	-3.076	20830.582	2.5	D6S (3F)4F	100400.360	2.5	4SP(3P)2D
124.8534	-4.871	22409.852	0.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D	125.6843	-5.498	22939.358	2.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D
124.8617	-6.091	23317.633	2.5	D5S2(7S)6S	103406.250	2.5	4F(5D)3[2]	125.7098	-3.528	27314.922	3.5	D6S (3F)2F	106863.200	3.5	160DD
124.8674	-5.211	22939.358	2.5	D6S (3F)4F	103024.290	2.5	4F(5D)4[2]	125.7147	-4.685	7955.299	3.5	D6S (3F)2F	107165.600	3.5	170DD
124.8759	-6.084	23031.300	1.5	D6S (3F)4F	103110.790	1.5	4F(5D)4[1]	125.7708	-4.107	22939.358	2.5	D6S (3F)4F	87471.765	4.5	4SP(5G)6F
124.8802	-4.778	22810.357	3.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	125.7719	-2.844	25428.784	5.5	D6S (3G)4G	104937.800	4.5	4SP(3I)4H
124.8850	-6.472	23317.633	2.5	D5S2(7S)6S	103391.290	1.5	4F(5D)3[2]	125.8297	-3.547	23031.300	1.5	D6S (3F)4F	102503.810	1.5	4SP(5P)4S
124.8876	-4.531	22810.357	3.5	D6S (3F)4F	102882.370	4.5	4F(5D)4[4]	125.8629	-4.706	18886.780	0.5	D7 (5D)2P	98338.280	1.5	4SP(5P)4S
124.8937	-5.801	23317.633	2.5	D5S2(7S)6S	103385.730	3.5	4F(5D)3[3]	125.9053	-1.134	13474.411	2.5	D7 (5D)4F	92899.200	2.5	4P (3F)4D
124.9262	-6.149	23317.633	2.5	D5S2(7S)6S	103364.840	2.5	4F(5D)3[3]	125.9071	-3.492	13904.824	0.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
124.9360	-4.992	22810.357	3.5	D6S (3F)4F	102851.360	4.5	4F(5D)4[5]	125.9164	-4.693	23031.300	1.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
124.9641	-6.149	23317.633	2.5	D5S2(7S)6S	103340.640	3.5	4SP(3D)2F	125.9179	-1.179	20340.300	5.5	D7 (5D)2H	99757.120	4.5	4P (1G)2G
124.9743	-7.786	23317.633	2.5	D5S2(7S)6S	103334.100	2.5	4SP(3D)2F	125.9636	-1.398	25428.784	5.5	D6S (3G)4G	104816.800	5.5	4SP(3I)4H
124.9793	-1.444	13474.411	2.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F	125.9780	-4.457	8680.454	1.5	D6S (5D)4D	88059.380	2.5	4SP(5P)6D
124.9801	-5.239	26170.181	5.5	D6S (3F)2H	106183.100	6.5	4SP(3I)2K	126.0000	-0.501	0.000	4.5	D6S (5D)6D	79331.500	3.5	4SP(5S)6P
124.9815	-5.124	22939.358	2.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	126.0533	-0.501	20340.300	5.5	D7 (5D)2H	99653.220	4.5	4SP(3G)2G
124.9946	-6.250	23031.300	1.5	D6S (3F)4F	103034.760	1.5	4F(5D)4[2]	126.0829	-0.473	18886.780	0.5	D7 (5D)2P	98196.000	1.5	4SP(5D)4F
124.9956	-5.397	22939.358	2.5	D6S (3F)4F	102942.200	3.5	4F(5D)4[3]	126.0887	-4.758	20516.960	2.5	D7 (5D)2D	99808.400	3.5	4P (1G)2G
125.0094	-5.706	18360.646	1.5	D7 (5D)2P	98354.660	2.5	4SP(5D)4F	126.1170	-2.621	126.1170	-2.621	0.000	4.5	4SP(5P)6D	
125.0110	-6.429	23031.300	1.5	D6S (3F)4F	103024.290	2.5	4F(5D)4[2]	126.1285	-5.150	8680.454	1.5	D6S (5D)4D	87964.650	1.5	4SP(5P)6D
125.0194	-4.865	16369.360	3.5	D7 (5D)2G	96356.960	3.5	4SP(3G)2F	126.1944	-5.890	27620.412	2.5	D6S (3F)2F	106863.200	3.5	160DD
125.0350	-4.916	18360.646	1.5	D7 (5D)2P	98338.280	1.5	4SP(5P)4S	126.2069	-1.945	15848.450	4.5	D7 (5D)2G	95079.640	3.5	4P (3F)2F
125.0817	-5.478	22939.358	2.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	126.2242	-1.605	25428.784	5.5	D6S (3G)4G	104659.260	6.5	4SP(3I)4H
125.1008	-5.957	13904.824	0.5	D7 (5D)4F	93840.340	1.5	4SP(5D)6D	126.2255	-2.915	25803.328	4.5	D6S (3G)4G	105028.600	3.5	4SP(3I)4H
125.1095	-4.352	31999.048	3.5	D7 (5D)2F	111929.000	2.5	290DD	126.2292	-3.329	13474.411	2.5	D7 (5D)4F	92695.374	2.5	4P (3P)2D
125.1236	-2.482	13474.411	2.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F	126.2345	-4.805	8680.454	1.5	D6S (5D)4D	87898.120	0.5	4SP(5G)6F
125.1238	-6.566	23031.300	1.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	126.2462	-5.109	8391.938	2.5	D6S (5D)4D	87602.250	1.5	4SP(5G)6F
125.1406	-3.094	16369.360	3.5	D7 (5D)2G	96279.490	2.5	4SP(3G)2F	126.2847	-6.876	23317.633	2.5	D5S2(7S)6S	102503.810	1.5	4SP(3D)2D
125.1825	-2.921	20516.960	2.5	D7 (5D)2D	100400.360	2.5	4SP(3P)2D	126.2937	-4.034	8391.938	2.5	D6S (5D)4D	87572.431	2.5	4SP(5G)6F
125.1825	-6.106	18886.780	0.5	D7 (5D)2P	98770.140	1.5	4SP(3D)4D	126.3055	-2.205	13474.411	2.5	D7 (5D)4F	92647.510	1.5	4P (3F)4D
125.1858	-3.100	27314.922	3.5	D6S (3F)2F	107196.200	2.5	180DD								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
126.3200	-1.849	22409.852	0.5	D6S (3P)4P	101573.900	1.5	48P(5D)4P	127.2454	-2.935	21812.055	1.5	D6S (3P)4P	100400.360	2.5	4SP(3P)2D
126.3492	-3.751	8391.938	2.5	D6S (5D)4D	87537.652	3.5	48P(5G)6F	127.2507	-2.405	26352.766	4.5	D6S (3H)2H	104937.800	4.5	4SP(3I)4H
126.3704	-1.291	25805.328	4.5	D6S (3G)4G	104937.800	4.5	48P(3I)4H	127.2613	-1.182	667.683	2.5	D6S (5D)6D	79246.170	1.5	4SP(5S)6P
126.3720	-5.712	23317.633	2.5	D5S2(7S)6S	102449.100	2.5	48P(3P)2D	127.2655	-6.345	667.683	2.5	D6S (5D)6D	79243.600	1.5	4P (1D)2P
126.3770	-3.024	13474.411	2.5	D7 (5D)4P	92602.703	3.5	4P (3F)2G	127.3036	-2.050	13673.185	1.5	D7 (5D)4P	92453.460	0.5	4P (3F)4D
126.3926	-2.235	20516.960	2.5	D7 (5D)2D	99635.520	3.5	48P(3G)2G	127.3097	-1.452	13904.824	0.5	D7 (5D)4P	92453.460	0.5	4P (3F)4D
126.3937	-4.645	8846.768	0.5	D6S (5D)4D	87964.650	1.5	48P(5P)6D	127.3167	-5.162	13474.411	2.5	D7 (5D)4P	92018.729	1.5	4SP(5D)6F
126.4345	-3.459	21308.040	1.5	D7 (5D)2D	100400.360	2.5	48P(3P)2D	127.3186	-2.758	13673.185	1.5	D7 (5D)4P	92216.320	1.5	4P (3P)2D
126.5001	-4.900	8846.768	0.5	D6S (5D)4D	87898.120	0.5	48P(5G)6F	127.3194	-3.871	23031.300	1.5	D6S (3F)4F	101573.900	1.5	4SP(5D)4P
126.5071	-1.411	25981.629	3.5	D6S (3G)4G	105028.600	3.5	48P(3I)4H	127.3274	-5.191	8391.938	2.5	D6S (5D)4D	86929.649	3.5	4P (3P)4D
126.5467	-2.341	13673.185	1.5	D7 (5D)4P	92695.374	2.5	4P (3P)2D	127.3440	-5.755	7955.299	3.5	D6S (5D)4D	86482.750	3.5	4P (1F)2F
126.5639	-0.315	25805.328	4.5	D6S (3G)4G	104816.800	5.5	48P(3I)4H	127.3592	-5.167	30388.542	4.5	D6S (3G)2G	108906.640	5.5	4SP(3I)4H
126.5781	-0.945	20805.770	4.5	D7 (5D)2H	99808.400	3.5	4P (1G)2G	127.4063	-1.267	26170.181	5.5	D6S (3H)2H	104659.260	6.5	4SP(3I)4H
126.5943	-2.500	22409.852	0.5	D6S (3P)4P	101402.380	0.5	48P(5D)4P	127.4203	-4.802	30388.542	4.5	D6S (3G)2G	104816.800	5.5	4SP(3I)4H
126.6178	-5.116	20830.582	2.5	D6S (3P)4P	99808.400	3.5	4P (1G)2G	127.4469	-1.970	26352.766	4.5	D6S (3H)2H	10886.980	4.5	4SP(3I)4H
126.6234	-4.808	7955.299	3.5	D6S (3P)4D	86929.649	3.5	4P (3P)4D	127.4636	-3.473	13904.824	0.5	D7 (5D)4P	92358.610	1.5	4SP(5G)4F
126.6234	-1.272	13673.185	1.5	D7 (5D)4P	92647.510	1.5	4P (3F)4D	127.4835	-4.917	13474.411	2.5	D7 (5D)4P	91915.950	1.5	4SP(5D)6F
126.6253	-0.451	26055.423	2.5	D6S (3G)4G	105028.600	3.5	48P(3I)4H	127.4868	-4.720	18886.780	0.5	D7 (5D)2P	97326.270	1.5	4SP(3P)2P
126.6374	-4.254	18360.646	1.5	D7 (5D)2P	97326.270	1.5	48P(3P)2H	127.5059	-2.368	33501.253	3.5	D6S (1G)2G	111929.000	2.5	290DD
126.6525	-0.395	25981.629	3.5	D6S (5D)4D	104937.800	4.5	48P(3I)4H	127.5144	-1.377	862.613	1.5	D6S (5D)6D	79285.110	2.5	4SP(5S)6P
126.6603	-5.025	8680.454	1.5	D6S (5D)4D	87635.920	0.5	48P(5P)6D	127.5172	-2.478	30388.542	4.5	D6S (3G)2G	108809.310	5.5	4SP(3G)4H
126.6677	-1.030	20805.770	4.5	D7 (5D)2H	99757.120	4.5	4P (1G)2G	127.5257	-2.813	31364.440	1.5	D6S (3D)4D	109780.000	1.5	280DD
126.7077	-4.227	384.790	3.5	D6S (5D)6D	79331.500	3.5	48P(5S)6P	127.5322	-3.040	31368.450	0.5	D6S (3D)4D	109780.000	1.5	280DD
126.7129	-6.640	15844.650	4.5	D7 (5D)2G	87602.250	1.5	48P(5G)6F	127.5349	-2.431	13904.824	0.5	D7 (5D)4P	92314.758	0.5	5P (5D)4P
126.7422	-0.762	384.790	3.5	D6S (5D)6D	79285.110	2.5	48P(5S)6P	127.5640	-8.256	16369.360	3.5	D7 (5D)2G	94763.219	3.5	4SP(5D)6P
126.7556	-4.287	8680.454	1.5	D6S (5D)4D	87572.431	2.5	48P(5G)6F	127.5640	-3.071	31387.948	2.5	D6S (3D)4D	109780.000	1.5	280DD
126.7681	-2.971	13474.411	2.5	D7 (5D)4P	92358.610	1.5	48P(5G)4F	127.5778	-0.999	862.613	1.5	D6S (5D)6D	79246.170	1.5	4SP(5S)6P
126.7698	-2.251	30388.542	4.5	D6S (3G)2G	109271.710	5.5	48P(3I)2I	127.5802	-6.042	862.613	1.5	D6S (5D)6D	79246.170	1.5	4SP(5S)6P
126.8143	-1.792	13474.411	2.5	D7 (5D)4P	92329.890	2.5	48P(5G)4F	127.5820	-6.042	20516.960	2.5	D7 (5D)2P	98998.710	3.5	4P (1G)2F
126.8272	-2.989	20805.770	4.5	D7 (5D)2H	99653.220	4.5	48P(3G)2G	127.5907	-5.376	8391.938	2.5	D6S (5D)4D	86767.577	2.5	4P (3P)4D
126.8557	-0.774	20805.770	4.5	D7 (5D)2H	99653.220	4.5	48P(3G)2G	127.5981	-3.787	23031.300	1.5	D6S (3F)4F	101402.380	0.5	4SP(5D)4P
126.8838	-4.731	7955.299	3.5	D6S (5D)4D	86767.577	2.5	4P (3F)4D	127.6014	-3.190	13474.411	2.5	D7 (5D)4P	91843.470	1.5	5P (5D)6P
126.8906	-2.826	13474.411	2.5	D7 (5D)4P	92282.460	3.5	48P(5G)4F	127.6034	-4.934	13673.185	1.5	D7 (5D)2G	92018.729	1.5	4SP(5D)6F
126.8956	-4.506	20830.582	2.5	D6S (3P)4P	99635.520	3.5	48P(3G)2G	127.6402	-5.349	15844.650	4.5	D7 (5D)2G	94189.880	5.5	4SP(5G)4G
126.9040	-1.700	13474.411	2.5	D7 (5D)4P	92274.120	2.5	4P (3F)4P	127.6629	-5.996	16369.360	3.5	D7 (5D)2G	94770.160	2.5	4P (3F)2D
126.9210	-4.642	8846.768	0.5	D6S (5D)4D	87635.920	0.5	48P(5P)6D	127.6703	-3.370	21430.359	4.5	D6S (3H)4H	99757.120	4.5	4P (1G)2G
126.9353	-1.993	13673.185	1.5	D7 (5D)4P	92453.460	0.5	4P (3F)4D	127.6801	-1.128	13904.824	0.5	D7 (5D)4P	92225.538	1.5	5P (5D)4P
126.9557	-3.680	26170.181	5.5	D6S (3H)2H	104937.800	4.5	48P(3I)4H	127.6883	-5.684	16369.360	3.5	D7 (5D)2G	94685.090	2.5	4SP(5D)6F
126.9753	-5.395	8846.768	0.5	D6S (5D)4D	87602.250	1.5	48P(5G)6F	127.6952	-3.192	384.790	3.5	D6S (5D)6D	78690.846	2.5	4P (1D)2D
126.9823	-2.215	13474.411	2.5	D7 (5D)4P	92225.538	1.5	5P (5D)4P	127.7040	-4.939	15844.650	4.5	D7 (5D)2G	94148.510	4.5	4SP(5G)4G
126.9959	-1.828	13904.824	0.5	D7 (5D)4P	92647.510	1.5	4P (3F)4D	127.7076	-6.700	977.053	0.5	D6S (5D)6D	79246.170	1.5	4SP(5S)6P
126.9972	-4.758	13474.411	2.5	D7 (5D)4P	92216.320	1.5	4P (3P)2D	127.7643	-1.141	977.053	0.5	D6S (5D)6D	79243.600	1.5	4P (1D)2P
127.0482	-3.447	16369.360	3.5	D7 (5D)2G	95079.640	3.5	4P (3P)2F	127.7812	-5.092	23787.598	1.5	D6S (3P)2P	104046.350	2.5	4F(5D)0[3]
127.0835	-4.002	21711.917	3.5	D6S (3H)4H	100400.360	2.5	48P(3P)2D	127.7852	-2.968	20340.300	5.5	D7 (5D)2H	98596.650	4.5	4SP(5D)4F
127.0883	-2.288	13673.185	1.5	D7 (5D)4P	92358.610	1.5	48P(5G)4F	127.7903	-4.793	23317.633	2.5	D5S2(7S)6S	101573.900	1.5	4SP(5D)4P
127.0975	-5.019	13474.411	2.5	D7 (5D)4P	92154.165	3.5	48P(5D)6F	127.8073	-4.344	20516.960	2.5	D7 (5D)2D	98770.140	1.5	4SP(5D)4D
127.1024	-2.141	16369.360	3.5	D7 (5D)2G	95046.100	2.5	4P (3F)2F	127.8073	-4.344	13673.185	1.5	D7 (5D)4P	91915.950	1.5	4SP(5D)6F
127.1038	-4.431	26352.766	4.5	D6S (3H)2H	105028.600	3.5	48P(3I)4H	127.8077	-3.622	30388.542	4.5	D6S (3G)2G	108631.090	3.5	4SP(3G)4G
127.1232	-1.800	667.683	2.5	D6S (5D)6D	79331.500	3.5	48P(5S)6P	127.8305	-4.208	10588.542	4.5	D6S (5D)6D	94073.240	3.5	4SP(5G)4G
127.1347	-2.070	13673.185	1.5	D7 (5D)4P	92329.890	2.5	48P(5G)4F	127.8335	-3.754	21581.638	4.5	D6S (3H)4H	99808.400	3.5	4P (1G)2G
127.1510	-2.024	26170.181	5.5	D6S (3H)2H	104816.800	5.5	48P(3I)4H	127.8399	-4.162	21430.359	5.5	D6S (3H)4H	99653.220	4.5	4SP(3G)2G
127.1592	-2.403	13673.185	1.5	D7 (5D)4P	92314.758	0.5	5P (5D)4P	127.8485	-9.226	25805.328	4.5	D6S (3G)4G	104022.890	3.5	4F(5D)0[3]
127.1706	-3.046	22939.358	2.5	D6S (3F)4F	101573.900	1.5	48P(5D)4P	127.8558	-8.218	15844.650	4.5	D6S (3P)2P	103987.930	2.5	4F(5D)1[3]
127.1983	-0.899	667.683	2.5	D6S (5D)6D	79285.110	2.5	48P(5S)6P	127.8767	-6.221	25787.598	1.5	D6S (3P)2P	103987.930	2.5	4F(5D)1[3]
127.2024	-5.503	13474.411	2.5	D7 (5D)4P	92089.260	3.5	48P(5G)4H	127.9061	-3.416	30388.542	4.5	D6S (3G)2G	108570.560	4.5	4SP(3G)4G
127.2249	-1.099	13673.185	1.5	D7 (5D)4P	92274.120	2.5	4P (3F)4P	127.9101	-0.628	35787.598	1.5	D6S (3P)2P	103967.490	0.5	4SP(3P)2S
127.2391	-5.869	7955.299	3.5	D6S (5D)4D	86347.420	2.5	4P (1F)2F	127.9140	-4.376	13673.185	1.5	D7 (5D)4P	91850.722	0.5	4SP(5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
127.9173	-4.398	21581.638	4.5	D6S (3H)4H	99757.120	4.5	4P (5D)2G	128.4168	-8.247	25805.328	4.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
127.9258	-3.485	13673.185	1.5	D7 (5D)4P	86547.490	1.5	5P (1G)2G	128.4240	-5.353	8680.454	1.5	D6S (5D)4D	86547.490	2.5	4P (1F)2F
127.9557	-4.814	8391.938	2.5	D6S (5D)4D	86543.974	1.5	4P (3F)4D	128.4248	-4.416	30764.485	3.5	D6S (3G)2G	108631.090	3.5	4SP(3G)4G
127.9708	-6.037	15844.650	4.5	D7 (5D)2G	93987.457	3.5	4SP(5D)6D	128.4276	-8.574	977.053	0.5	D6S (5D)6D	78841.960	0.5	4P (1D)2P
127.9719	-3.600	30764.485	3.5	D6S (3G)2G	108906.640	3.5	4SP(3G)4H	128.4278	-3.683	30764.485	3.5	D6S (3G)2G	108629.250	2.5	4SP(3G)4G
127.9797	-6.568	0.000	4.5	D6S (5D)6D	78137.364	3.5	4P (1D)2P	128.4298	-5.439	8680.454	1.5	D6S (5D)4D	86543.974	1.5	4P (3P)4D
128.0336	-3.580	30764.485	3.5	D6S (3G)2G	108868.980	4.5	4SP(3G)4H	128.4396	-7.428	25787.598	1.5	D6S (3P)2P	103645.220	1.5	4F(5D)2[2]
128.0398	-5.545	13474.411	2.5	D7 (5D)4P	91575.139	2.5	5P (5D)6P	128.4511	-2.994	30388.542	4.5	D6S (3G)2G	108239.200	3.5	240DD
128.0467	-4.084	21711.917	3.5	D6S (3G)2G	99808.400	3.5	4P (1G)2G	128.4647	-4.527	20516.960	2.5	D7 (5D)2D	94211.739	2.5	4SP(5P)4P
128.0486	-2.782	30388.542	4.5	D6S (3G)2G	108483.870	3.5	4SP(3G)4G	128.4724	-4.527	16369.360	3.5	D7 (5D)2G	98354.660	2.5	4SP(5D)4F
128.0525	-1.111	20805.770	4.5	D7 (5D)2H	88489.710	3.5	4P (1G)2F	128.4881	-5.491	862.613	1.5	D6S (5D)6D	78690.846	2.5	4P (1D)2D
128.0560	-4.750	8391.938	2.5	D6S (5D)4D	96482.750	3.5	4P (1F)2F	128.4897	-6.581	26055.423	2.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]
128.0621	-5.277	8680.454	1.5	D6S (5D)4D	86767.577	2.5	4P (3P)4D	128.4995	-3.426	20516.960	2.5	D7 (5D)2D	98338.280	1.5	4SP(5P)4S
128.0714	-6.231	25787.598	1.5	D6S (3P)2P	103869.020	1.5	4F(5D)1[2]	128.5025	-7.821	667.683	2.5	D6S (5D)6D	78487.153	1.5	4P (1D)2D
128.0781	-9.807	25805.328	4.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]	128.5122	-9.274	26055.423	2.5	D6S (3G)4G	103869.020	1.5	4F(5D)1[2]
128.0876	-5.733	21581.638	4.5	D6S (3H)4H	99653.220	4.5	4SP(3G)2G	128.5247	-3.262	30764.485	3.5	D6S (3G)2G	108570.560	4.5	4SP(3G)4G
128.0899	-6.162	25787.598	1.5	D6S (3P)2P	103857.740	2.5	4F(5D)1[2]	128.5309	-8.145	26055.423	2.5	D6S (3G)4G	103857.740	2.5	4F(5D)1[2]
128.0924	-8.998	25805.328	4.5	D6S (3G)4G	103873.990	4.5	4F(5D)1[4]	128.5692	-6.131	16369.360	3.5	D7 (5D)2G	94148.510	4.5	4SP(5G)4F
128.0932	-3.516	20830.582	2.5	D6S (3P)4P	98898.710	3.5	4P (1G)2F	128.6131	-7.048	384.790	3.5	D6S (5D)6D	78137.364	3.5	4P (1D)2F
128.0988	-8.315	25981.629	3.5	D6S (3G)4G	104046.350	2.5	4F(5D)0[3]	128.6430	-5.679	13474.411	2.5	D7 (5D)4P	91208.887	1.5	5P (5D)4F
128.1166	-5.058	21581.638	4.5	D6S (3H)4H	99635.520	3.5	4SP(3G)2G	128.6503	-3.280	20805.770	4.5	D7 (5D)2H	98535.850	3.5	4SP(5D)4F
128.1309	-3.801	21711.917	3.5	D6S (3H)4H	99757.120	4.5	4P (1G)2G	128.6506	-6.758	25981.629	3.5	D6S (3G)4G	103711.570	3.5	4F(5D)2[4]
128.1373	-8.289	25981.629	3.5	D6S (3G)4G	104022.890	3.5	4F(5D)0[3]	128.6669	-6.082	25981.629	3.5	D6S (3G)4G	103701.720	4.5	4F(5D)2[5]
128.1671	-5.041	667.683	2.5	D6S (5D)6D	78690.846	2.5	4P (1D)2D	128.6723	-8.103	25981.629	3.5	D6S (3G)4G	103698.440	2.5	4F(5D)2[3]
128.1741	-3.888	20516.960	2.5	D7 (5D)2D	98535.850	3.5	4SP(5D)4F	128.6775	-3.925	27314.922	3.5	D6S (3F)2F	105028.600	3.5	4SP(31)4H
128.1868	-9.461	13904.824	0.5	D7 (5D)4P	91915.950	1.5	4SP(5D)6F	128.6863	-5.156	8680.454	1.5	D6S (5D)4D	86388.820	0.5	4P (3P)4D
128.1948	-9.030	25981.629	3.5	D6S (3G)4G	103987.930	2.5	4F(5D)1[3]	128.6914	-2.136	20830.582	2.5	D6S (3P)4P	98535.850	3.5	4SP(5D)4F
128.2176	-9.286	25428.784	5.5	D6S (3G)4G	103421.180	6.5	4F(5D)0[3]	128.6937	-5.336	16369.360	3.5	D7 (5D)2G	94073.240	3.5	4SP(5G)4G
128.2200	-7.622	20516.960	2.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D	128.7018	-9.307	25981.629	3.5	D6S (3G)4G	103680.640	4.5	4F(5D)2[4]
128.2246	-7.745	25981.629	3.5	D6S (3G)4G	104046.350	2.5	4F(5D)0[3]	128.7048	-5.709	8846.768	0.5	D6S (5D)4D	86543.974	1.5	4P (3P)4D
128.2294	-3.575	30388.542	4.5	D6S (3G)2G	98757.120	4.5	4F(5D)0[3]	128.7082	-7.731	25981.629	3.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
128.2391	-9.054	862.613	1.5	D6S (5D)6D	78841.960	0.5	4P (1D)2P	128.7109	-4.131	13474.411	2.5	D7 (5D)4P	91167.937	3.5	5P (5D)6P
128.2575	-3.234	31811.822	2.5	D7 (5D)2F	109780.000	1.5	280DD	128.7132	-2.490	25428.784	5.5	D6S (3G)4G	103120.900	6.5	4SP(31)4I
128.2586	-7.085	26055.423	2.5	D6S (3G)4G	104022.890	3.5	4F(5D)0[3]	128.7193	-8.829	16369.360	3.5	D7 (5D)2G	94057.773	4.5	4SP(5D)6D
128.2941	-7.005	13904.824	0.5	D7 (5D)4P	91850.720	0.5	4SP(5D)6F	128.7343	-8.847	25981.629	3.5	D6S (3G)4G	103660.980	2.5	4F(5D)2[2]
128.3017	-4.389	21711.917	3.5	D6S (3H)4H	99653.220	4.5	4SP(3G)2G	128.7424	-2.495	20516.960	2.5	D7 (5D)2D	98196.000	1.5	4SP(5D)4F
128.3046	-2.709	20830.582	2.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D	128.7449	-4.714	20516.960	2.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D
128.3061	-3.640	13904.824	0.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D	128.7496	-4.885	20830.582	2.5	D6S (3P)4P	98505.100	2.5	4SP(5D)4D
128.3162	-8.348	26055.423	2.5	D6S (3G)4G	103987.930	2.5	4F(5D)1[3]	128.7728	-6.510	20516.960	2.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D
128.3308	-5.516	21711.917	3.5	D6S (3H)4H	99635.520	3.5	4SP(3G)2G	128.7835	-7.183	25787.598	1.5	D6S (3P)2P	103437.280	0.5	4F(5D)3[1]
128.3387	-3.837	18360.646	1.5	D7 (5D)2P	96279.490	2.5	4SP(3G)2F	128.7946	-3.316	15844.650	4.5	D7 (5D)2G	93487.650	3.5	4P (3F)4F
128.3461	-7.382	26055.423	2.5	D6S (3G)4G	103969.760	3.5	4F(5D)1[3]	128.7997	-4.982	15844.650	4.5	D7 (5D)2P	93484.580	4.5	4P (3F)4F
128.3518	-6.336	25787.598	1.5	D6S (3P)2P	103698.440	2.5	4F(5D)2[3]	128.8078	-5.399	18360.646	1.5	D7 (5D)2P	95995.690	2.5	4SP(5P)4D
128.3594	-8.534	25805.328	4.5	D6S (3G)4G	103711.570	3.5	4F(5D)2[4]	128.8157	-5.985	25787.598	1.5	D6S (3P)2P	103418.080	0.5	4F(5D)3[0]
128.3665	-5.552	13673.185	1.5	D7 (5D)4P	91575.139	2.5	5P (5D)6P	128.8252	-7.758	862.613	1.5	D6S (5D)6D	78487.153	1.5	4P (1D)2D
128.3680	-8.667	25981.629	3.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]	128.8280	-2.245	27314.922	3.5	D6S (3F)2F	104937.800	4.5	4SP(31)4H
128.3757	-8.266	25805.328	4.5	D6S (3G)4G	103701.720	4.5	4F(5D)2[5]	128.8305	-6.613	26055.423	2.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
128.3823	-6.495	25981.629	3.5	D6S (3G)4G	103873.990	4.5	4F(5D)1[4]	128.8348	-4.106	16369.360	3.5	D7 (5D)2G	93988.170	2.5	4SP(5G)4G
128.3885	-7.692	25787.598	1.5	D6S (3P)2P	103676.220	0.5	4F(5D)2[1]	128.8359	-7.229	25787.598	1.5	D6S (3P)2P	103406.250	2.5	4F(5D)3[2]
128.3932	-6.715	25805.328	4.5	D6S (3G)4G	103691.050	5.5	4F(5D)2[5]	128.8558	-7.758	16369.360	3.5	D7 (5D)2G	93987.457	3.5	4SP(5D)6D
128.4009	-6.341	25787.598	1.5	D6S (3P)2P	103668.690	1.5	4F(5D)2[1]	128.8614	-6.108	25805.328	4.5	D6S (3G)4G	103420.160	5.5	4F(5D)3[6]
128.4091	-9.592	25981.629	3.5	D6S (3G)4G	103857.740	2.5	4F(5D)1[2]	128.8440	-9.060	26055.423	2.5	D6S (3G)4G	103668.690	1.5	4F(5D)2[1]
128.4104	-7.557	25805.328	4.5	D6S (3G)4G	103680.640	4.5	4F(5D)2[4]	128.8505	-2.867	30764.485	3.5	D6S (3G)2G	108373.800	3.5	4F(5D)2[2]
128.4120	-3.606	20516.960	2.5	D7 (5D)2D	98391.330	3.5	4SP(5D)4D	128.8568	-7.076	26055.423	2.5	D6S (3G)4G	103660.980	2.5	4F(5D)2[2]
128.4136	-7.159	25787.598	1.5	D6S (3P)2P	103660.000	1.5	280DD	128.8598	-6.024	25787.598	1.5	D6S (3P)2P	103391.290	1.5	4F(5D)3[2]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
129.8116	-0.046	26932.748	0.5	D6S (3P)2P	103967.490	0.5	4SP(3P)2S	130.1657	-4.141	22810.357	3.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G	
129.8146	-9.733	26352.766	4.5	D6S (3H)2H	103385.730	3.5	4F(5D)3[23]	130.1678	-3.110	21711.917	3.5	D6S (3H)4H	98535.850	3.5	4SP(5G)4F	
129.8191	-4.620	21308.040	1.5	D7 (5D)2D	98338.280	1.5	4SP(3F)4S	130.1691	-4.112	31368.450	0.5	D6S (3D)4D	108191.600	1.5	230DD	
129.8243	-4.542	21251.608	6.5	D6S (3H)4H	98278.770	5.5	4P (1G)2H	130.1757	-4.945	31811.822	2.5	D7 (5D)2F	108631.090	3.5	4SP(3G)4G	
129.8263	-4.354	16369.360	2.5	4P (3F)4F	93395.360	2.5	4P (3F)4F	130.1835	-3.678	13673.185	1.5	D7 (5D)4P	90487.810	2.5	5P (5D)6F	
129.8263	-8.215	25805.328	4.5	D6S (3G)4G	102831.328	5.5	4F(5D)4[51]	130.1912	-3.143	26170.181	5.5	D6S (3H)2H	102980.300	5.5	4SP(3I)4I	
129.8431	-3.196	22637.205	4.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G	130.1919	-3.004	21581.638	4.5	D6S (3H)4H	98391.330	3.5	4SP(5D)4D	
129.8448	-7.755	21581.638	4.5	4SP(3D)4F	98596.650	4.5	4SP(3D)4F	130.1926	-4.040	20516.960	2.5	D7 (5D)2D	97326.270	1.5	4SP(3P)2P	
129.8475	-5.903	13474.411	2.5	D7 (5D)4P	90487.810	2.5	5P (5D)6F	130.2021	-3.120	31387.948	2.5	D6S (3D)4D	108191.600	1.5	230DD	
129.8646	-2.398	31368.450	0.5	D6S (3H)2H	108371.700	1.5	250DD	130.2199	-2.884	21711.917	3.5	D6S (3H)4H	98505.100	2.5	4SP(5D)4D	
129.8703	-8.714	26352.766	4.5	D6S (3H)2H	103352.680	4.5	4F(5D)3[51]	130.2472	-4.498	30388.542	4.5	D6S (3G)2G	102951.500	4.5	4SP(3I)4I	
129.8730	-3.337	22637.205	4.5	D6S (3F)4F	99635.520	3.5	4P (1G)2G	130.2657	-2.412	31364.440	1.5	D6S (3D)4D	107165.600	3.5	170DD	
129.8734	-4.953	22810.357	3.5	4P (3G)4G	99808.400	3.5	4P (3G)4G	130.2753	-7.157	16369.360	3.5	D7 (5D)2G	108130.600	2.5	220DD	
129.8802	-1.867	13904.824	0.5	D7 (5D)4P	90898.873	1.5	4P (3P)4P	130.2795	-2.918	15844.650	4.5	D7 (5D)2G	92602.703	3.5	4P (3F)4D	
129.8940	-4.894	31387.948	2.5	D6S (3D)4D	108373.800	3.5	260DD	130.2829	-1.803	31483.176	3.5	D6S (3D)4D	108239.200	3.5	240DD	
129.8975	-2.894	31387.948	2.5	D6S (3D)4D	108371.700	1.5	250DD	130.3042	-6.435	26932.748	0.5	D6S (3P)2P	103676.220	0.5	4F(5D)2[11]	
129.9050	-7.521	26055.423	2.5	D6S (3G)4G	103034.760	1.5	4F(5D)4[21]	130.3044	-4.880	90648.217	0.5	D7 (5D)4P	90648.217	0.5	5P (5D)6F	
129.9123	-5.986	13673.185	1.5	D7 (5D)4P	90648.217	0.5	5P (5D)6F	130.3056	-2.986	31387.948	2.5	D6S (3D)4D	108130.600	2.5	220DD	
129.9146	-9.309	26352.766	4.5	D6S (3H)2H	103326.410	4.5	4F(5D)3[41]	130.3170	-7.033	26932.748	0.5	D6S (3P)2P	103668.690	1.5	4F(5D)2[11]	
129.9186	-5.225	18886.780	0.5	D7 (5D)2P	95858.050	1.5	4SP(3P)4D	130.3247	-9.353	27314.922	3.5	D6S (3F)2F	104046.350	2.5	4F(5D)0[13]	
129.9199	-6.946	25981.629	3.5	D6S (3G)4G	102952.120	2.5	4F(5D)4[31]	130.3355	-1.140	13904.824	0.5	D7 (5D)4P	90629.902	1.5	4P (3P)4S	
129.9210	-3.186	25981.629	3.5	D6S (3G)4G	102951.500	4.5	4SP(3I)4I	130.3387	-8.120	26170.181	5.5	D6S (3H)2H	102899.380	5.5	4F(5D)4[61]	
129.9227	-7.034	26055.423	2.5	D6S (3G)4G	103024.290	2.5	4F(5D)4[21]	130.3569	-6.903	26932.748	0.5	D6S (3P)2P	102503.810	1.5	4SP(3D)2D	
129.9238	-3.582	31811.822	2.5	D7 (5D)2F	108780.000	1.5	270DD	130.3574	-9.430	26170.181	5.5	D6S (3H)2H	102882.370	4.5	4F(5D)4[41]	
129.9281	-1.857	13673.185	1.5	D7 (5D)4P	90638.822	2.5	5P (5D)4D	130.3646	-9.818	27314.922	3.5	D6S (3F)2F	104022.890	3.5	4F(5D)0[13]	
129.9367	-6.333	25981.629	3.5	D6S (3G)4G	102942.200	3.5	4F(5D)4[31]	130.3830	-5.246	21581.638	4.5	D6S (3H)4H	98278.770	5.5	4P (1G)2H	
129.9409	-1.714	21812.055	1.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D	130.3846	-6.072	22939.358	2.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G	
129.9432	-0.790	13673.185	1.5	D7 (5D)4P	90629.902	1.5	4P (3P)4S	130.3899	-1.628	21812.055	1.5	D6S (3P)4P	98505.100	2.5	4SP(5D)4D	
129.9474	-2.428	21581.638	4.5	D6S (3H)2H	98535.850	3.5	4SP(5D)4F	130.3974	-3.506	13904.824	0.5	D7 (5D)4P	90593.497	1.5	5P (5D)6F	
129.9533	-6.139	26170.181	5.5	D6S (3H)4H	103120.900	6.5	4SP(3I)4I	130.4028	-3.979	18360.646	1.5	D7 (5D)2P	95046.100	2.5	4P (3F)2F	
129.9600	-4.383	22810.357	3.5	D6S (3F)4F	99757.120	4.5	4P (1G)2G	130.4101	-9.769	26170.181	5.5	D6S (3H)2H	102851.360	4.5	4F(5D)4[51]	
129.9777	-6.346	26932.748	0.5	D6S (3P)2P	103869.020	1.5	4F(5D)1[21]	130.4131	-3.866	21711.917	3.5	D6S (3H)4H	98391.330	3.5	4SP(5D)4D	
129.9804	-2.073	13904.824	0.5	D7 (5D)4P	90839.480	0.5	4P (3P)4S	130.4146	-2.547	18360.646	1.5	D7 (5D)2P	95039.200	1.5	4P (3P)2P	
129.9994	-2.072	13474.411	2.5	D7 (5D)4P	90397.868	3.5	5P (5D)4D	130.4240	-9.797	27314.922	3.5	D6S (3F)2F	103987.930	2.5	4F(5D)1[13]	
130.0047	-3.268	13673.185	1.5	D7 (5D)4P	90593.497	1.5	5P (5D)6F	130.4436	-1.088	25787.598	1.5	D6S (3H)2H	102840.250	6.5	4F(5D)4[61]	
130.0195	-5.006	25428.784	5.5	D6S (3G)4G	102340.300	5.5	4SP(3I)4K	130.4549	-8.401	27314.922	3.5	D6S (3F)2F	103969.760	3.5	4F(5D)1[13]	
130.0297	-6.369	25981.629	3.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[41]	130.4675	-2.900	31483.176	3.5	D6S (3D)4D	108130.600	2.5	220DD	
130.0366	-5.211	2430.097	3.5	D7 (5D)4F	79331.500	3.5	4SP(5S)6P	130.4755	-3.171	21711.917	3.5	D6S (3H)4H	98354.660	2.5	4SP(5D)4F	
130.0378	-6.120	25981.629	3.5	D6S (3G)4G	102882.370	4.5	4F(5D)4[41]	130.5014	-3.891	26352.766	4.5	D6S (3H)2H	102980.300	5.5	4SP(3I)4I	
130.0446	-7.076	26055.423	2.5	D6S (3G)4G	102952.120	2.5	4F(5D)4[31]	130.5180	-1.849	30388.542	4.5	D6S (3G)2G	107006.350	4.5	4SP(3I)2H	
130.0549	-4.432	31483.176	3.5	D6S (3D)4D	108373.800	3.5	260DD	130.5505	-2.777	26352.766	4.5	D6S (3H)2H	102951.500	4.5	4SP(3I)4I	
130.0594	-4.488	21308.040	1.5	D7 (5D)2D	98196.000	1.5	4SP(5D)4F	130.5520	-1.923	22409.852	0.5	D6S (3P)4P	99007.700	0.5	4SP(5D)4D	
130.0614	-7.218	26055.423	2.5	D6S (3G)4G	102942.200	3.5	4F(5D)4[31]	130.5696	-6.731	15844.650	4.5	D7 (5D)2G	92432.136	5.5	4SP(5D)6F	
130.0648	-4.417	21711.917	3.5	D6S (3H)4H	98596.650	4.5	4SP(5D)4F	130.5784	-3.344	15844.650	4.5	D7 (5D)2G	92426.980	4.5	4SP(5G)4F	
130.0713	-5.552	18886.780	0.5	D7 (5D)2P	95767.700	0.5	4SP(5P)4D	130.6033	-9.483	27314.922	3.5	D6S (3F)2F	103882.680	3.5	4F(5D)1[41]	
130.0726	-8.326	862.613	1.5	D6S (5D)6D	77742.730	2.5	4P (1D)2H	130.6131	-3.485	31811.822	2.5	D7 (5D)2F	108373.800	3.5	260DD	
130.0899	-4.297	31999.048	3.5	D7 (5D)2F	108868.980	4.5	4SP(3G)4H	130.6181	-7.186	27314.922	3.5	D6S (3F)2F	103873.990	4.5	4F(5D)1[41]	
130.0902	-6.581	25981.629	3.5	D6S (3G)4G	102851.360	4.5	4F(5D)4[51]	130.6458	-9.897	27314.922	3.5	D6S (3F)2F	103857.740	2.5	4F(5D)1[12]	
130.0914	-5.299	22939.358	2.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G	130.6462	-1.506	21812.055	1.5	D6S (3P)4P	98354.660	2.5	4SP(5D)4F	
130.1151	-4.911	2430.097	3.5	D7 (5D)4F	79285.110	2.5	4SP(5S)6P	130.6496	-8.479	26352.766	4.5	D6S (3H)2H	102893.380	5.5	4F(5D)4[61]	
130.1215	-4.898	31387.948	2.5	D6S (3D)4D	108239.200	3.5	240DD	130.6592	-3.932	25805.328	4.5	D6S (3G)4G	102340.300	5.5	4SP(3I)4K	
130.1245	-7.592	26170.181	5.5	D6S (3H)2H	103019.670	6.5	4F(5D)4[71]	130.6680	-4.183	16369.360	3.5	D7 (5D)2G	92899.200	2.5	4P (3F)4D	
130.1263	-5.385	21430.359	5.5	D6S (3H)4H	98278.770	5.5	4P (1G)2H	130.6684	-9.241	26352.766	4.5	D6S (3H)2H	102882.370	4.5	4F(5D)4[41]	
130.1357	-4.709	22810.357	3.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G	130.6742	-1.315	21812.055	1.5	D6S (3P)4P	98338.280	1.5	4SP(5P)4S	
130.1374	-7.297	26055.423	2.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[41]									
130.1546	-4.727	26055.423	2.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[41]									
130.1559	-1.798	26352.766	4.5	D6S (3H)2H	103183.700	3.5	4SP(3D)2F									
130.1623	-3.209	31364.440	1.5	D6S (3D)4D	108191.600	1.5	230DD									
130.1639	-2.892	13474.411	2.5	D7 (5D)4F	90300.625	3.5	5P (5D)6F									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
130.6846	-4.130	18360.646	1.5	D7	(5D)2P	94880.740	0.5	4SP(3P)4P	131.1615	-1.262	30764.485	3.5	D6S	(3G)2G	107006.350	4.5	4SP(3I)2H
130.7112	-2.444	26932.748	0.5	D6S	(3F)2P	103437.280	0.5	4F(5D)3[1]	131.1645	-3.600	31999.048	3.5	D7	(5D)2F	108239.200	3.5	240DD
130.7213	-2.403	31387.948	2.5	D6S	(3D)4D	107886.600	3.5	200DD	131.1651	-3.271	32909.905	5.5	D6S	(1I)2I	109149.680	6.5	4SP(3I)2I
130.7214	-9.662	26352.766	4.5	D6S	(3H)2H	102851.360	4.5	4F(5D)4[5]	131.1693	-8.329	27620.412	2.5	D6S	(3F)2G	103857.740	2.5	4F(5D)1[2]
130.7263	-1.422	20830.582	2.5	D6S	(3P)4P	97326.270	1.5	4SP(3P)2P	131.1762	-2.443	16369.360	3.5	D7	(5D)2G	103262.703	4.5	4P(3F)2G
130.7300	-6.601	2837.950	2.5	D7	(5D)4F	79331.500	3.5	4SP(5S)6P	131.2458	-7.782	26932.748	0.5	D6S	(3P)2P	103125.650	0.5	4F(5D)4[1]
130.7440	-7.805	26932.748	0.5	D6S	(3P)2P	103418.080	0.5	4F(5D)3[0]	131.2714	-7.789	26932.748	0.5	D6S	(3P)2P	103110.790	1.5	4F(5D)4[1]
130.7443	-6.787	26932.748	0.5	D6S	(3D)4D	103417.910	1.5	4F(5D)3[1]	131.2851	-3.734	26170.181	5.5	D6S	(3H)2H	102340.300	5.5	4SP(3I)4K
130.7505	-3.608	31483.176	3.5	D6S	(3D)2P	107964.700	4.5	210DD	131.2893	-6.954	3117.461	1.5	D7	(5D)4F	79285.110	2.5	4SP(5S)6P
130.7623	-7.786	30388.542	4.5	D6S	(3G)2G	106863.200	3.5	160DD	131.3156	-2.302	18886.780	0.5	D7	(5D)2P	95039.200	1.5	4P(3P)2P
130.7746	-2.324	25981.629	3.5	D6S	(3G)4G	102449.100	2.5	4F(5D)3[2]	131.3171	-3.097	13474.411	2.5	D7	(5D)4P	89625.940	1.5	4SP(5P)6P
130.7898	-7.588	26932.748	0.5	D6S	(3P)2P	103391.290	1.5	4F(5D)3[2]	131.3380	-4.977	21711.917	3.5	D6S	(3H)4H	97851.350	4.5	4P(1G)2H
130.7948	-6.838	15844.650	4.5	D7	(5D)2G	92300.277	4.5	4SP(5D)6F	131.3316	-2.566	31999.048	3.5	D7	(5D)2F	108130.600	2.5	220DD
130.8072	-2.314	26055.423	2.5	D6S	(3G)4G	102503.810	1.5	4SP(3D)2D	131.3565	-6.583	3117.461	1.5	D7	(5D)4F	79246.170	1.5	4SP(5S)6P
130.8093	-5.680	2837.950	2.5	D7	(5D)4F	79285.110	2.5	4SP(5S)6P	131.3609	-4.663	3117.461	1.5	D7	(5D)4F	79243.600	1.5	4P(1D)2P
130.8253	-2.837	15844.650	4.5	D7	(5D)2G	92282.460	3.5	4SP(5G)4F	131.4026	-7.850	26932.748	0.5	D6S	(3P)2P	103034.760	1.5	4F(5D)4[2]
130.8357	-3.210	30764.485	3.5	D6S	(3G)2G	107196.200	2.5	180DD	131.4083	-4.995	30764.485	3.5	D6S	(3G)2G	106863.200	3.5	160DD
130.8456	-8.407	27620.412	2.5	D6S	(3F)2F	104046.350	2.5	4F(5D)0[3]	131.4213	-8.384	27620.412	2.5	D6S	(3F)2F	103711.570	3.5	4F(5D)2[14]
130.8541	-5.027	21430.359	5.5	D6S	(3H)4H	97851.350	4.5	4P(1G)2H	131.4262	-4.182	22810.357	3.5	D6S	(3F)4F	98898.710	3.5	4P(1G)2F
130.8542	-6.418	13474.411	2.5	D7	(5D)4P	89890.373	3.5	4P(3F)4G	131.4440	-7.925	27620.412	2.5	D6S	(3F)2F	103698.440	2.5	4F(5D)2[3]
130.8760	-5.899	2837.950	2.5	D7	(5D)4F	79246.170	1.5	4SP(5S)6P	131.4496	-4.478	31811.822	2.5	D7	(5D)2F	107886.600	3.5	200DD
130.8804	-3.975	2837.950	2.5	D7	(5D)4P	79243.600	1.5	4P(1D)2P	131.4793	-4.996	16369.360	3.5	D7	(5D)2F	103334.100	2.5	4SP(5G)4F
130.8858	-7.274	27620.412	2.5	D6S	(3F)2F	104022.890	3.5	4F(5D)0[3]	131.4814	-8.629	27620.412	2.5	D6S	(3F)2G	103676.780	3.5	4F(5D)2[13]
130.8881	-4.651	30764.485	3.5	D6S	(3G)2G	107165.600	3.5	170DD	131.4853	-7.234	13673.185	1.5	D7	(5D)4P	89727.342	2.5	4P(3F)4G
130.8958	-7.730	27314.922	3.5	D6S	(3F)2F	103711.570	3.5	4F(5D)2[4]	131.4926	-8.559	27314.922	3.5	D6S	(3F)2F	103366.840	2.5	4F(5D)3[3]
130.8968	-1.530	32875.646	6.5	D6S	(1I)2I	109271.710	5.5	4SP(3I)2I	131.5087	-8.900	27620.412	2.5	D6S	(3F)2F	103660.980	2.5	4F(5D)2[12]
130.9009	-3.374	26055.423	2.5	D6S	(3G)4G	102449.100	2.5	4SP(3D)2D	131.5136	-8.561	27314.922	3.5	D6S	(3F)2F	103352.680	4.5	4F(5D)3[5]
130.9127	-7.180	27314.922	3.5	D6S	(3F)2F	103701.720	4.5	4F(5D)2[5]	131.5344	-8.117	27314.922	3.5	D6S	(3F)2F	103340.640	3.5	4F(5D)3[4]
130.9176	-8.918	21812.055	1.5	D6S	(3P)4P	98196.000	1.5	4SP(5D)4F	131.5458	-3.177	27314.922	3.5	D6S	(3F)2F	103334.100	2.5	4SP(3P)2F
130.9183	-8.997	27314.922	3.5	D6S	(3P)4P	98196.000	1.5	4F(5D)2[3]	131.5474	-5.076	21308.040	1.5	D7	(5D)2D	97326.270	1.5	4SP(3P)2P
130.9269	-4.975	18360.646	1.5	D7	(5D)2P	94739.170	1.5	4SP(3P)4P	131.5591	-7.812	27314.922	3.5	D6S	(3F)2F	103326.410	4.5	4F(5D)3[4]
130.9333	-3.902	31999.048	3.5	D7	(5D)2F	108373.800	3.5	260DD	131.5894	-5.113	18886.780	0.5	D7	(5D)2P	94880.740	0.5	4SP(5P)4P
130.9457	-9.467	27620.412	2.5	D6S	(3F)2F	103987.930	2.5	4F(5D)1[3]	131.6005	-3.894	26352.766	4.5	D6S	(3I)4K	102340.300	5.5	4SP(3I)4K
130.9488	-7.650	27314.922	3.5	D6S	(3F)2F	103680.640	4.5	4F(5D)2[4]	131.6198	-2.278	23031.300	1.5	D6S	(3F)4F	99007.700	0.5	4SP(5D)4D
130.9555	-0.093	32909.905	5.5	D6S	(1I)2I	109271.710	5.5	4SP(3I)2I	131.6308	-4.616	13474.411	2.5	D7	(5D)4P	89444.458	2.5	4SP(5P)6P
130.9581	-1.881	22409.852	0.5	D6S	(3P)4P	98770.140	1.5	4SP(5D)4D	131.6346	-5.909	8391.938	2.5	D6S	(5D)4D	84359.800	1.5	4P(1F)2D
130.9769	-6.737	27620.412	2.5	D6S	(3F)2F	103969.760	3.5	4F(5D)1[3]	131.6384	-3.601	31999.048	3.5	D7	(5D)2F	107964.700	4.5	210DD
130.9825	-9.675	27314.922	3.5	D6S	(3F)2F	103660.980	2.5	4F(5D)2[2]	131.6473	-4.827	16369.360	3.5	D7	(5D)2G	92329.890	2.5	4SP(5G)4F
130.9929	-2.493	18360.646	1.5	D7	(5D)2P	94700.660	2.5	4P(3F)2D	131.6492	-1.318	22637.205	4.5	D6S	(3F)4F	98596.650	4.5	4SP(5D)4F
131.0151	-2.137	15844.650	4.5	D7	(5D)2G	92171.716	4.5	4P(3F)2G	131.6494	-4.665	22939.358	2.5	D6S	(3F)4F	98898.710	3.5	4P(1G)2F
131.0169	-3.943	16369.360	3.5	D7	(5D)2G	92695.374	2.5	4P(3P)2D	131.6498	-3.513	32909.905	5.5	D6S	(1I)2I	108868.980	4.5	4SP(3G)4H
131.0196	-4.230	18360.646	1.5	D7	(5D)2P	94685.090	2.5	4SP(5D)6P	131.6608	-3.214	13673.185	1.5	D7	(5D)4P	89625.940	1.5	4SP(5P)6P
131.0239	-5.788	15844.650	4.5	D7	(5D)2G	92166.600	5.5	4SP(3G)4H	131.6939	-4.660	32875.646	6.5	D6S	(1I)2I	108809.310	5.5	4SP(3G)4H
131.0277	-4.484	26170.181	5.5	D6S	(3H)2H	102489.900	6.5	4SP(3I)4K	131.6987	-7.518	16369.360	3.5	D7	(5D)2G	92300.277	4.5	4SP(5D)6F
131.0294	-3.515	31811.822	2.5	D7	(5D)2F	108130.600	2.5	220DD	131.7030	-1.302	22409.852	0.5	D6S	(3P)4P	98338.280	1.5	4SP(5P)4S
131.0309	-9.159	23317.633	2.5	D5E2	(7F)6F	99635.520	3.5	4SP(3G)2G	131.7247	-5.823	7955.299	3.5	D6S	(5D)4D	83871.184	4.5	4P(1F)2G
131.0458	-5.875	15844.650	4.5	D7	(5D)2G	92154.165	3.5	4SP(5G)6F	131.7295	-4.576	7955.299	3.5	D6S	(5D)4D	83868.450	2.5	4P(1F)2D
131.0588	-1.141	30388.542	4.5	D6S	(3G)2G	106690.170	5.5	4SP(3I)2H	131.7296	-2.690	16369.360	3.5	D7	(5D)2G	92282.460	3.5	4SP(5G)4F
131.1062	-0.084	32875.646	6.5	D6S	(1I)2I	109149.680	6.5	4SP(3I)2I	131.7440	-6.961	16369.360	3.5	D7	(5D)2G	92274.120	2.5	4P(3P)4P
131.1095	-3.242	15844.650	4.5	D7	(5D)2G	92116.780	4.5	4SP(3G)4H	131.7533	-1.800	32909.905	5.5	D6S	(1I)2I	108809.310	5.5	4SP(3G)4H
131.1136	-4.835	21581.638	4.5	D6S	(3H)4H	97851.350	4.5	4P(1G)2H	131.7542	-4.738	20340.300	5.5	D7	(5D)2H	96239.200	4.5	4SP(3G)2H
131.1221	-4.298	1872.567	4.5	D7	(5D)4F	78137.364	3.5	4P(1D)2F	131.7739	-1.788	22637.205	4.5	D6S	(3F)4F	98535.850	3.5	4SP(5D)4F
131.1264	-7.026	27620.412	2.5	D6S	(3F)2F	103882.680	3.5	4F(5D)1[4]	131.7739	-4.528	31999.048	3.5	D7	(5D)2F	107886.600	3.5	200DD
131.1278	-3.949	22637.205	4.5	D6S	(3F)4F	98898.710	3.5	4P(1G)2F	131.8065	-1.510	27314.922	3.5	D6S	(3F)2F	103183.700	3.5	4SP(3D)2F
131.1291	-4.164	2430.097	3.5	D7	(5D)4F	78690.846	2.5	4P(1D)2D	131.8274	-4.112	13474.411	2.5	D7	(5D)4P	89331.195	1.5	5P(5D)6D
131.1425	-9.822	13474.411	2.5	D7	(5D)4P	89727.342	2.5	4P(3F)4G	131.8330	-1.437	32875.6						

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
131.8373	-4.286	18360.646	1.5	D7 (5D)2P	94211.739	2.5	4SP(3P)4P	132.3084	-7.940	23317.633	2.5	D5S2(7S)6S	98898.710	3.5	4P (1G)2F
131.8565	-2.573	20516.960	2.5	D7 (5D)2P	96356.960	3.5	4SP(3G)2F	132.3084	-7.940	22810.357	3.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4D
131.8709	-3.493	31364.440	1.5	D6S (3D)4D	107196.200	2.5	180DD	132.3207	-3.707	32909.905	5.5	D6S (1I)2I	108483.870	5.5	4SP(3G)4G
131.8726	-2.051	22939.358	2.5	D6S (3F)4F	98770.140	1.5	4SP(5D)4D	132.3217	-7.400	3117.461	1.5	D7 (5D)4F	78690.846	2.5	4P (1D)2D
131.8926	-4.720	108729.160	6.5	4SP(3G)4H	108729.160	6.5	4SP(3G)4H	132.3238	-7.540	27314.922	3.5	D6S (3F)2F	102887.120	3.5	4F(5D)4[4]
131.9118	-4.012	31387.948	2.5	D6S (3D)4D	107196.200	2.5	180DD	132.3258	-1.170	26932.748	0.5	D6S (3P)2P	102503.810	1.5	4SP(3D)2D
131.9170	-1.794	33466.463	4.5	D6S (1G)2G	109271.710	5.5	4SP(3I)2I	132.3321	-7.212	27314.922	3.5	D6S (3F)2F	102882.370	4.5	4F(5D)4[4]
131.9216	-4.206	36126.387	1.5	D6S (3D)2D	111929.000	2.5	290DD	132.3337	-6.270	13904.824	0.5	D7 (5D)4F	89471.365	0.5	5P (5D)6D
131.9220	-3.857	16369.360	3.5	D7 (5D)2G	92171.716	4.5	4P (3F)2G	132.3351	-1.655	22939.358	2.5	D6S (3F)4F	98503.100	2.5	4SP(5D)4D
131.9293	-5.418	13673.185	1.5	D7 (5D)4F	89471.365	0.5	5P (5D)6D	132.3394	-3.402	27620.412	2.5	D6S (3F)2F	103183.700	3.5	4SP(3D)2F
131.9305	-8.973	27620.412	2.5	D6S (3F)2F	103417.910	1.5	4F(5D)3[1]	132.3425	-1.365	21812.055	1.5	D6S (3G)4G	96356.960	3.5	4SP(3G)2F
131.9500	-2.839	25787.598	1.5	D6S (3P)2P	101573.900	1.5	4SP(5D)4P	132.3475	-4.757	20830.770	4.5	D7 (5D)2H	98354.660	2.5	4SP(5D)4F
131.9502	-4.930	22409.852	0.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4F	132.3727	-1.593	22810.357	3.5	D6S (3F)4F	98354.660	2.5	4SP(5D)4F
131.9508	-8.263	27620.412	2.5	D6S (3F)2F	98196.000	1.5	4SP(5D)4F	132.3864	-7.645	27314.922	3.5	D6S (3F)2F	102851.360	4.5	4F(5D)4[5]
131.9526	-5.153	16369.360	3.5	D7 (5D)2G	103406.250	2.5	4F(5D)3[2]	132.3970	-8.412	384.790	3.5	D6S (5D)6D	75915.215	2.5	4P (3D)2F
131.9650	-1.995	31387.948	2.5	D6S (3D)4D	92154.165	3.5	4SP(5D)6F	132.4041	-7.115	20830.582	2.5	D6S (3P)4P	96356.960	3.5	4SP(3G)2F
131.9761	-5.897	13673.185	1.5	D7 (5D)4F	107165.600	3.5	170DD	132.4097	-4.302	31483.176	3.5	D6S (3D)4D	107006.350	4.5	4SP(3I)2H
131.9768	-9.045	27620.412	2.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6P	132.4179	-4.017	26055.423	2.5	D6S (3G)4G	101573.900	1.5	4SP(5D)4P
131.9865	-8.367	27620.412	2.5	D6S (3F)2F	103391.290	1.5	4F(5D)3[2]	132.4254	-1.365	21812.055	1.5	D6S (3P)4P	97326.270	1.5	4SP(3P)2P
131.9914	-4.196	20516.960	2.5	D7 (5D)2D	96279.490	2.5	4SP(3G)2F	132.4672	-8.369	27620.412	2.5	D6S (3F)2F	103110.790	1.5	4F(5D)4[1]
132.0060	-1.354	22637.205	4.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4F	132.4860	-4.374	18360.646	1.5	D7 (5D)2P	93840.340	1.5	4SP(5D)6D
132.0177	-4.706	16369.360	3.5	D7 (5D)2G	92116.780	4.5	4SP(5G)4H	132.4877	-5.130	20516.960	2.5	D7 (5D)2D	95995.690	2.5	4SP(5P)4D
132.0229	-9.111	27620.412	2.5	D6S (3F)2F	103364.840	2.5	4F(5D)3[3]	132.4938	-2.423	31387.948	2.5	D6S (3D)4D	106863.200	3.5	160DD
132.0327	-2.295	23031.357	3.5	D6S (3F)4F	98770.140	1.5	4SP(5D)4F	132.4963	-2.547	23031.357	3.5	D6S (3F)4F	98503.100	2.5	4SP(5D)6D
132.0559	-1.769	22810.357	3.5	D6S (3F)4F	98535.850	3.5	4SP(5D)4F	132.5024	-5.498	18360.646	1.5	D7 (5D)2P	93830.979	2.5	4SP(5D)6D
132.0577	-4.007	3117.461	1.5	D7 (5D)4F	78841.960	0.5	4P (1D)2P	132.5337	-5.073	23317.633	2.5	D5S2(7S)6S	98770.140	1.5	4SP(5D)4D
132.0624	-3.282	20340.300	5.5	D7 (5D)2H	96062.060	5.5	4SP(3G)2H	132.5346	-2.802	22939.358	2.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4D
132.0636	-3.589	13904.824	0.5	D7 (5D)4F	98625.940	1.5	4SP(3P)6P	132.5400	-3.607	20830.582	2.5	D6S (3P)4P	96279.490	2.5	4SP(3G)2F
132.0951	-9.124	27620.412	2.5	D6S (3F)2F	103340.640	3.5	4F(5D)3[4]	132.5447	-4.485	13673.185	1.5	D7 (5D)4F	89119.457	2.5	5P (5D)6D
132.0651	-4.185	16369.360	3.5	D7 (5D)2G	92089.260	3.5	4SP(5G)4H	132.5554	-4.760	33466.463	4.5	D6S (1G)2G	108906.640	3.5	4SP(3G)4H
132.0745	-9.821	862.613	1.5	D6S (5D)6D	76577.482	0.5	4P (1S)2P	132.5672	-3.796	20803.770	4.5	D7 (5D)2H	96239.200	4.5	4SP(3G)2H
132.0765	-1.830	27620.412	2.5	D6S (3F)2F	103334.100	2.5	4SP(3D)2F	132.5796	-4.486	13904.824	0.5	D7 (5D)4F	89331.195	1.5	5P (5D)6D
132.0777	-3.318	31483.176	3.5	D6S (3D)4D	107196.200	2.5	180DD	132.5991	-4.013	22939.358	2.5	D6S (3F)4F	98354.660	2.5	4SP(5D)4F
132.0841	-8.076	27314.922	3.5	D6S (3F)2F	103024.290	2.5	4F(5D)4[2]	132.6008	-8.374	27620.412	2.5	D6S (3F)2F	103034.760	1.5	4F(5D)4[2]
132.0877	-4.244	2430.097	3.5	D7 (5D)4F	78137.364	3.5	4P (1D)2F	132.6055	-6.839	20803.770	4.5	D7 (5D)2H	96217.420	3.5	4SP(5P)4D
132.0996	-4.798	20516.960	2.5	D7 (5D)4F	96217.420	3.5	4SP(5P)4D	132.6165	-4.883	33501.253	3.5	D6S (1G)2G	108906.640	3.5	4SP(3G)4H
132.1096	-2.574	22810.357	3.5	D6S (3F)4F	98505.100	2.5	4SP(5D)4D	132.6192	-7.978	27620.412	2.5	D6S (3F)2F	103024.290	2.5	4F(5D)4[2]
132.1311	-2.831	31483.176	3.5	D6S (3D)4D	107165.600	3.5	170DD	132.6216	-4.088	33466.463	4.5	D6S (1G)2G	108868.980	4.5	4SP(3G)4H
132.1364	-6.991	8680.454	1.5	D6S (3D)4D	84359.800	1.5	4P (1F)2D	132.6279	-2.991	22939.358	2.5	D6S (3F)4F	98338.280	1.5	4SP(5P)4S
132.1421	-4.930	36252.918	2.5	D6S (3D)2D	111929.000	2.5	290DD	132.6492	-2.797	20830.582	2.5	D6S (3P)4P	96217.420	3.5	4SP(5P)4D
132.1515	-5.872	18360.646	1.5	D7 (5D)2P	94031.378	0.5	4SP(5D)6D	132.6535	-4.155	31811.822	2.5	D7 (5D)2F	107196.200	2.5	160DD
132.1691	-3.157	32909.905	5.5	D6S (1I)2I	108570.560	4.5	4SP(3G)4D	132.6611	-3.111	31483.176	3.5	D6S (3D)4D	106863.200	3.5	4SP(5D)6D
132.1737	-5.117	13673.185	1.5	D7 (5D)4F	89331.195	1.5	5P (5D)6D	132.6627	-4.758	13474.411	2.5	D7 (5D)4F	88853.533	3.5	5P (5D)6D
132.1805	-4.418	13474.411	2.5	D7 (5D)4F	89128.561	3.5	4SP(3P)6P	132.6793	-4.042	3117.461	1.5	D7 (5D)4F	78487.153	1.5	4P (1D)2D
132.1888	-9.693	16369.360	3.5	D7 (5D)2G	92018.729	2.5	4SP(5D)6F	132.6828	-2.961	33501.253	3.5	D6S (1G)2G	108868.980	4.5	4SP(3G)4H
132.1891	-5.373	2837.950	2.5	D7 (5D)4F	78487.153	1.5	4P (1D)2D	132.7073	-4.770	31811.822	2.5	D7 (5D)2F	107165.600	3.5	170DD
132.1964	-5.863	13474.411	2.5	D7 (5D)4F	89119.457	2.5	5P (5D)6D	132.7141	-7.225	7955.299	3.5	D6S (5D)4D	83305.251	3.5	4P (1F)2G
132.2024	-5.813	22637.205	4.5	D6S (3F)4F	98278.770	5.5	4P (1G)2H	132.7266	-2.757	33466.463	4.5	D6S (1G)2G	108809.310	5.5	4SP(3G)4H
132.2101	-8.104	27314.922	3.5	D6S (3F)2F	102952.120	2.5	4F(5D)4[3]	132.7297	-4.201	20516.960	2.5	D7 (5D)2D	98598.050	1.5	4SP(5P)4D
132.2112	-3.552	27314.922	3.5	D6S (3F)2F	102951.500	4.5	4F(5D)4[3]	132.7462	-2.513	13673.185	1.5	D7 (5D)4P	89003.460	0.5	4P (3P)2S
132.2270	-6.868	18360.646	1.5	D7 (5D)2P	93988.170	2.5	4SP(5G)4G	132.7609	-3.130	23031.357	3.5	D6S (3F)2F	102952.120	2.5	4F(5D)4[3]
132.2274	-7.511	27314.922	3.5	D6S (3F)2F	102942.200	3.5	4F(5D)4[3]	132.7688	-2.513	13673.185	1.5	D7 (5D)4P	89003.460	0.5	4P (3P)2S
132.2493	-3.194	25787.598	1.5	D6S (3P)2P	101402.380	0.5	4SP(5D)4P	132.7797	-4.201	20516.960	2.5	D7 (5D)2D	98598.050	1.5	4SP(5P)4D
132.2607	-2.751	32875.646	6.5	D6S (1I)2I	108483.870	5.5	4SP(3G)4G	132.7837	-8.077	27620.412	2.5	D6S (3F)2F	102942.200	3.5	4F(5D)4[3]
132.2735	-7.336	0.000	4.5	D6S (5D)6D	75600.931	3.5	4P (3D)2F	132.7798	-4.867	2430.097	3.5	D7 (5D)4F	77742.730	2.5	4P (1D)2F
132.2744	-7.529	977.053	0.5	D6S (5D)6D	76577.482	0.5	4P (1S)2P	132.7898	-3.733	23031.357	3.5	D6S (3F)4F	98338.280	1.5	4SP(5P)4S
132.2813	-2.514	22939.358	2.5	D6S (3F)4F	98535.850	3.5	4SP(5D)4F	132.8032	-4.513	2837.950	2.5	D7 (5D)4F	78137.364	3.5	4P (1D)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
132.8609	-8.109	27620.412	2.5	D6S (3F)2F	102887.120	3.5	4F(5D)4[4]	133.9763	-4.404	30388.542	4.5	D6S (3G)2G	105028.600	3.5	4SP(3I)4H
132.8786	-2.439	22939.358	2.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F	133.9840	-2.316	21581.638	4.5	D6S (3H)4H	96217.420	3.5	4SP(5P)4D
132.8793	-4.174	20805.770	4.5	D7 (5D)2H	96062.060	5.5	4SP(3G)2H	133.9913	-3.040	21430.359	5.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H
132.8947	-7.950	667.683	2.5	D6S (5D)6D	75915.215	2.5	4F(3D)2F	133.9955	-4.913	33501.253	3.5	D6S (1G)2G	108130.600	2.5	220DD
132.9465	-5.146	23317.633	2.5	D5S2(7S)6S	98335.850	3.5	4SP(5D)4F	134.0029	-4.136	3117.461	1.5	D7 (5D)4F	77742.730	2.5	4P (1D)2F
132.9502	-8.479	384.790	3.5	D6S (5D)6D	75600.931	3.5	4P (3D)2F	134.0253	-1.957	23787.598	1.5	D6S (3P)2F	100400.360	2.5	4SP(3P)2D
132.9537	-4.728	22637.205	4.5	D6S (3F)4F	97851.350	4.5	4P (1G)2H	134.0753	-4.054	13474.411	2.5	D7 (5D)2F	88059.380	2.5	4SP(5P)6D
132.9685	-8.920	16369.360	3.5	D7 (5D)2G	91575.139	2.5	5P (5D)6P	134.1066	-2.298	21711.917	3.5	D6S (3H)4H	96279.490	2.5	4SP(3G)2F
132.9838	-4.548	31999.048	3.5	D7 (5D)2F	107196.200	2.5	180DD	134.1154	-2.386	20516.960	2.5	D7 (5D)2D	95079.640	3.5	4P (3F)2F
133.0000	-4.607	8680.454	1.5	D6S (5D)4F	83868.450	2.5	4P (1F)2D	134.1324	-5.344	15844.650	4.5	D7 (5D)2G	90397.868	3.5	5P (5D)4D
133.0009	-4.810	23317.633	2.5	D5S2(7S)6S	98505.100	2.5	4SP(5D)4D	134.1381	-4.300	21308.040	1.5	D7 (5D)2D	95858.050	1.5	4SP(5P)4D
133.0379	-3.890	31999.048	3.5	D7 (5D)2F	107165.600	3.5	170DD	134.1395	-4.696	30388.542	4.5	D6S (3G)2G	104937.800	4.5	4SP(3I)4H
133.0405	-2.937	20830.582	2.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	134.1528	-5.363	15844.650	4.5	D7 (5D)2G	90386.528	4.5	5P (5D)4F
133.0412	-2.116	20301.300	1.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F	134.1588	-2.918	18360.646	1.5	D7 (5D)2F	92899.200	2.5	4P (3F)4D
133.0413	-3.189	33466.463	4.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	134.1710	-6.274	16369.360	3.5	D7 (5D)2G	90901.124	2.5	5P (5D)4P
133.0630	-7.218	977.053	0.5	D6S (5D)6D	76129.446	1.5	4P (1S)2P	134.1757	-4.188	20516.960	2.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F
133.0768	-5.139	18886.780	0.5	D7 (5D)2P	94031.378	0.5	4SP(5D)6D	134.1790	-3.595	21711.917	3.5	D6S (3H)4H	96239.200	4.5	4SP(3G)2H
133.0952	-0.598	27314.922	3.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	134.1881	-1.568	20516.960	2.5	D7 (5D)2D	95039.200	1.5	4P (3F)2P
133.1029	-4.883	33501.253	3.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	134.2183	-3.504	21711.917	3.5	D6S (3H)4H	96217.420	3.5	4SP(5P)4D
133.1485	-3.948	33466.463	4.5	D6S (1G)2G	108629.250	2.5	4SP(3G)4G	134.2314	-3.074	33466.463	4.5	D6S (1G)2G	107964.700	4.5	210DD
133.1582	-3.019	13904.824	0.5	D7 (5D)4P	89003.460	0.5	4P (3F)2S	134.2458	-4.645	13474.411	2.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D
133.2024	-3.832	23317.633	2.5	D5S2(7S)6S	98391.330	3.5	4SP(5D)4D	134.2635	-3.587	21581.638	4.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H
133.2102	-2.431	33501.253	3.5	D6S (1G)2G	108570.560	4.5	4SP(3G)4G	134.2829	-2.697	26932.748	0.5	D6S (3P)2P	101402.380	2.5	4SP(3G)2F
133.2360	-3.283	32909.905	5.5	D6S (1I)2I	107964.700	4.5	210DD	134.2941	-3.057	33501.253	3.5	D6S (1G)2G	107964.700	4.5	210DD
133.2399	-8.097	862.613	1.5	D6S (5D)6D	75915.215	2.5	4P (3D)2F	134.3009	-4.421	21384.040	1.5	D7 (5D)2D	95267.700	0.5	4SP(5P)4D
133.2675	-7.396	22810.357	3.5	D6S (3F)4F	97851.350	4.5	4P (1G)2H	134.3076	-6.996	15844.650	4.5	D7 (5D)2G	90300.625	3.5	5P (5D)6F
133.2716	-4.014	23317.633	2.5	D5S2(7S)6S	98354.660	2.5	4SP(5D)4F	134.3333	-4.525	18886.780	0.5	D7 (5D)2P	93328.480	1.5	4P (3F)4F
133.2845	-2.906	20830.582	2.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	134.3376	-2.901	30388.542	4.5	D6S (3G)2G	104816.800	5.5	4SP(3I)4H
133.2966	-3.971	23317.633	2.5	D5S2(7S)6S	95858.050	1.5	4SP(5P)4D	134.3722	-3.361	33466.463	4.5	D6S (1G)2G	107886.600	3.5	200DD
133.3024	-2.089	20830.582	4.5	D6S (1G)2G	108483.870	5.5	4SP(3G)4G	134.3748	-4.613	35961.629	3.5	D6S (3G)4G	100400.360	2.5	4SP(3P)2D
133.3204	-3.138	31999.048	3.5	D7 (5D)2F	107006.350	4.5	4SP(3I)2H	134.4323	-3.341	22939.358	2.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F
133.3384	-3.138	21308.040	1.5	D7 (5D)2P	96279.490	2.5	4SP(3G)2F	134.4335	-4.012	13673.185	1.5	D7 (5D)4P	88059.380	2.5	4SP(5P)6D
133.3905	-3.460	18360.646	1.5	D7 (5D)2P	93228.480	1.5	4P (3F)4F	134.4351	-3.546	33501.253	3.5	D6S (1G)2G	107886.600	3.5	200DD
133.4159	-6.177	18886.780	0.5	D7 (5D)2P	93840.340	1.5	4SP(5D)6D	134.4682	-4.072	15844.650	4.5	D7 (5D)2G	90211.700	5.5	4P (3F)4G
133.4473	-5.360	15844.650	4.5	D7 (5D)2G	90780.621	3.5	5P (5D)4F	134.5082	-4.182	26055.423	2.5	D6S (3G)4G	100400.360	2.5	4SP(3P)2D
133.4521	-7.186	667.683	2.5	D6S (5D)6D	75600.931	3.5	4P (3D)2F	134.5266	-3.061	18360.646	1.5	D7 (5D)2P	92695.374	2.5	4P (3F)2D
133.4821	-3.023	8391.938	2.5	D6S (5D)4D	83305.251	3.5	4P (1F)2G	134.5382	-1.278	23428.784	5.5	D6S (3G)4G	99757.120	4.5	4P (1G)2G
133.4983	-3.271	33466.463	4.5	D6S (1G)2G	108373.800	3.5	260DD	134.5986	-3.370	23031.300	1.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2F
133.5028	-4.771	2837.950	2.5	D7 (5D)4F	77742.730	2.5	4P (1D)2F	134.6050	-4.378	134.6050	-4.378				
133.5409	-0.937	27620.412	2.5	D6S (3F)2F	102503.810	1.5	4SP(3D)2D	134.6133	-2.579	18360.646	1.5	D7 (5D)2P	92647.510	1.5	4P (3F)4D
133.5499	-5.969	23317.633	2.5	D5S2(7S)6S	98196.000	1.5	4SP(3G)2H	134.6189	-2.576	21711.917	3.5	D6S (3H)4H	95995.690	2.5	4SP(5P)4D
133.5603	-2.592	33501.253	3.5	D6S (1G)2G	108373.800	3.5	160DD	134.6369	-2.773	20805.770	4.5	D7 (5D)2H	95079.640	3.5	4P (3F)2F
133.6386	-1.803	31999.048	3.5	D7 (5D)2F	106863.200	3.5	5P (5D)6P	134.6545	-5.378	30764.485	3.5	D6S (3G)2G	105028.600	3.5	4SP(3I)4H
133.6712	-1.969	27620.412	2.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	134.6818	-7.205	20830.582	2.5	D6S (3P)4P	94579.640	3.5	4P (3F)2F
133.6740	-2.694	21430.359	5.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H	134.6869	-6.615	20516.960	2.5	D7 (5D)2D	90638.822	2.5	5P (5D)4D
133.6924	-9.398	16369.360	3.5	D7 (5D)2G	91167.937	3.5	5P (5D)6P	134.7256	-4.820	13673.185	1.5	D7 (5D)4P	95763.219	3.5	4SP(5D)6P
133.7340	-2.520	21581.638	4.5	D6S (3H)4H	96356.960	3.5	4SP(3G)2F	134.7265	-2.137	25428.784	5.5	D6S (3G)4G	87898.120	0.5	4SP(5G)6F
133.7386	-3.969	33466.463	4.5	D6S (1G)2G	108239.200	3.5	240DD	134.7297	-6.092	15844.650	4.5	D7 (5D)2G	99653.220	4.5	4SP(3G)2G
133.8060	-3.598	13474.411	2.5	D7 (5D)4P	88209.450	3.5	4SP(5P)6D	134.7308	-7.224	384.790	3.5	D6S (5D)6D	74606.841	2.5	4P (3D)2D
133.8667	-6.527	16369.360	3.5	D7 (5D)2G	91070.547	2.5	5P (5D)4F	134.7427	-3.582	20830.582	2.5	D6S (3P)4P	95046.100	2.5	4P (3F)2F
133.8909	-9.177	21308.040	1.5	D7 (5D)2D	95995.690	2.5	4SP(5P)4D	134.7552	-2.786	20830.582	2.5	D6S (3P)4P	95039.200	1.5	4P (3P)2P
133.9449	-3.321	21581.638	4.5	D6S (3H)4H	96239.200	4.5	4SP(3G)2H	134.7743	-3.779	15844.650	4.5	D7 (5D)2G	90042.779	4.5	4P (3F)4G
133.9674	-3.276	21711.917	3.5	D6S (3H)4H	96356.960	3.5	4SP(3G)2F	134.8005	-1.970	20516.960	2.5	D7 (5D)2D	94700.660	2.5	4P (3F)2D
133.9744	-4.283	26932.748	0.5	D6S (3P)2P	101573.900	1.5	4SP(5D)4P	134.8006	-2.130	21812.055	1.5	D6S (3P)4P	95995.690	2.5	4SP(5P)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
134.8194	-3.318	30764.485	3.5	D6S (3G)2G	104937.800	4.5	4SP(31)4H	135.8688	-3.227	33466.463	4.5	D6S (1G)2G	107165.600	3.5	170DD					
134.8288	-3.128	20516.960	2.5	D7 (5D)2D	94685.090	2.5	4SP(5D)6P	135.6889	-8.056	16369.360	3.5	D7 (5D)2G	90067.347	4.5	5P (5D)6F					
134.9021	-5.781	13474.411	2.5	D7 (5D)4P	87602.850	1.5	4SP(5G)6F	135.6899	-5.269	13904.824	0.5	D7 (5D)4P	87602.250	1.5	4SP(5G)6F					
134.9192	-8.019	16369.360	3.5	D7 (5D)2G	90487.210	2.5	5P (5D)6P	135.6945	-3.971	33501.253	3.5	D6S (1G)2G	107196.200	2.5	180DD					
134.9564	-7.197	13474.411	2.5	D7 (5D)4P	87372.431	2.5	4SP(5G)6F	135.6948	-3.036	20516.960	2.5	D7 (5D)2D	94211.739	2.5	4SP(5P)4P					
134.9592	-0.837	32909.905	5.5	D6S (11)2I	107006.350	4.5	4SP(31)2H	135.7342	-4.269	16369.360	3.5	D7 (5D)2G	90042.779	4.5	4P (3F)4G					
134.9659	-2.788	18360.646	1.5	D7 (5D)2P	92453.460	0.5	4P (3F)4D	135.7375	-3.297	25981.629	3.5	D6S (3G)4G	99653.220	4.5	4SP(3G)2G					
135.0017	-6.450	13474.411	2.5	D7 (5D)4P	87537.652	3.5	4SP(5G)6F	135.7509	-3.702	33501.253	3.5	D6S (1G)2G	107165.600	3.5	170DD					
135.0260	-4.563	13904.824	0.5	D7 (5D)4P	87964.650	1.5	4SP(3F)6D	135.7702	-3.997	25981.629	3.5	D6S (3G)4G	99635.720	2.5	4SP(5D)6F					
135.0517	-4.863	15844.650	4.5	D7 (5D)2G	98990.373	3.5	4P (3F)4G	135.7724	-6.431	18360.646	1.5	D7 (5D)2P	92018.729	2.5	4SP(3G)2G					
135.0831	-6.586	16369.360	3.5	D7 (5D)2G	90397.868	3.5	5P (5D)4P	135.7792	-3.970	25981.629	3.5	D6S (3G)4G	99635.720	2.5	4SP(5D)6F					
135.1038	-6.709	13474.411	2.5	D7 (5D)2G	89890.373	3.5	4P (3F)4G	135.7946	-0.470	32875.646	6.5	D6S (11)2I	106524.400	7.5	4SP(31)2K					
135.1194	-4.206	23317.633	2.5	D5S2(7S)6S	90397.868	3.5	5P (5D)4P	135.7946	-0.470	32875.646	6.5	D6S (11)2I	106524.400	7.5	4SP(31)2K					
135.1295	-2.095	25805.328	4.5	D6S (3G)4G	99808.400	3.5	4P (1G)2G	135.8042	-8.096	862.613	1.5	D6S (5D)6D	74498.057	1.5	4P (3D)2D					
135.1389	-5.892	18360.646	1.5	D7 (5D)2P	92358.610	1.5	4SP(5G)4F	135.8042	-8.096	862.613	1.5	D6S (5D)6D	74498.057	1.5	4P (3D)2D					
135.1474	-4.775	13904.824	0.5	D7 (5D)4P	87898.120	0.5	4SP(5G)6F	135.9061	-0.461	22637.205	4.5	D6S (3F)4F	96217.420	3.5	4SP(5P)4D					
135.1904	-8.588	0.000	4.5	D6S (5D)6D	73969.767	5.5	4P (11)2I	135.9061	-0.461	22637.205	4.5	D6S (3F)4F	96217.420	3.5	4SP(5P)4D					
135.1913	-5.211	18360.646	1.5	D7 (5D)2P	92329.890	2.5	4SP(5G)4F	135.9063	-2.685	26055.423	2.5	D6S (3G)4G	99635.520	3.5	4SP(3G)2G					
135.2032	-6.505	13673.185	1.5	D7 (5D)4P	87635.920	0.5	4SP(5P)6D	135.9200	-4.695	21308.040	1.5	D7 (5D)2D	94880.740	0.5	4SP(5P)4P					
135.2129	-6.886	20805.770	4.5	D7 (5D)2H	94763.219	3.5	4SP(5D)6P	135.9200	-4.695	21308.040	1.5	D7 (5D)2D	94880.740	0.5	4SP(5P)4P					
135.2162	-3.643	21812.055	1.5	D6S (3F)4P	95767.700	0.5	4SP(5P)4D	135.9503	-4.771	20516.960	2.5	D7 (5D)2P	92453.460	0.5	4P (3F)4D					
135.2190	-2.874	18360.646	1.5	D7 (5D)2P	92314.758	0.5	5P (5D)4P	135.9503	-4.771	20516.960	2.5	D7 (5D)2P	92453.460	0.5	4P (3F)4D					
135.2232	-3.983	25805.328	4.5	D6S (3G)4G	99757.120	4.5	4P (1G)2G	135.9581	-2.813	18886.780	0.5	D7 (5D)2P	94073.240	3.5	4SP(5G)4G					
135.2263	-7.325	667.683	2.5	D6S (5D)6D	74606.841	2.5	4P (3D)2D	135.9581	-2.813	18886.780	0.5	D7 (5D)2P	94073.240	3.5	4SP(5G)4G					
135.2583	-4.880	20830.582	2.5	D6S (3F)4P	94763.219	3.5	4SP(5D)6P	136.0043	-3.221	36252.918	2.5	D6S (3D)2D	107006.350	4.5	4SP(31)2H					
135.2608	-6.305	16369.360	3.5	D7 (5D)2G	90300.625	3.5	5P (5D)6F	136.0155	-4.429	16369.360	3.5	D7 (5D)2G	89890.373	3.5	4P (3F)4G					
135.2648	-5.469	13673.185	1.5	D7 (5D)4P	87602.250	1.5	4SP(5G)6F	136.0156	-9.539	977.053	0.5	D6S (5G)6D	74498.057	1.5	4P (3D)2D					
135.2933	-2.622	18360.646	1.5	D7 (5D)2P	92274.120	2.5	4P (3P)4P	136.0581	-2.354	21581.638	4.5	D6S (3H)4H	95079.640	3.5	4P (3F)2F					
135.3194	-5.633	13673.185	1.5	D7 (5D)4P	87572.431	2.5	4SP(5G)6F	136.0728	-5.654	18360.646	1.5	D7 (5D)2P	91850.722	0.5	4SP(5D)6F					
135.3378	-2.411	20830.582	2.5	D6S (3F)4P	94739.170	1.5	4SP(5P)4P	136.0820	-4.715	2430.097	3.5	D7 (5D)4F	75915.215	2.5	4P (3D)2D					
135.3823	-3.215	18360.646	1.5	D7 (5D)2P	92225.538	1.5	5P (5D)2P	136.0820	-4.715	2430.097	3.5	D7 (5D)4F	75915.215	2.5	4P (3D)2D					
135.3992	-2.892	18360.646	1.5	D7 (5D)2P	92216.320	1.5	4P (3P)2D	136.0858	-0.678	26170.181	5.5	D6S (3H)2H	99653.220	4.5	4SP(3G)2G					
135.4013	-1.128	20830.582	2.5	D6S (3F)4P	94685.090	2.5	4SP(5D)6P	136.0862	-5.097	18360.646	1.5	D7 (5D)2P	91843.470	1.5	5P (5D)6P					
135.4104	-5.426	20340.300	5.5	D7 (5D)2H	94189.880	5.5	4SP(5G)4G	136.1066	-5.875	18886.780	0.5	D7 (5D)2P	92358.610	1.5	4SP(5G)4F					
135.4135	-4.637	25805.328	4.5	D6S (3G)4G	99653.220	4.5	4SP(3G)2G	136.1077	-6.844	20516.960	2.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G					
135.4456	-7.950	667.683	2.5	D6S (5D)6D	74498.057	1.5	4P (3D)2D	136.1116	-2.869	22810.357	3.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F					
135.4459	-2.401	25805.328	4.5	D6S (3G)4G	99635.520	3.5	4SP(3G)2G	136.1166	-2.869	22810.357	3.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F					
135.4522	-3.629	25981.629	3.5	D6S (3G)4G	99808.400	3.5	4P (1G)2G	136.1366	-0.317	26352.766	4.5	D6S (3H)2H	99808.400	3.5	4P (1G)2G					
135.4747	-0.800	32875.646	6.5	D6S (11)2I	106690.170	5.5	4SP(31)2H	136.1373	-0.360	13474.411	2.5	D7 (5D)4P	86929.649	3.5	4P (3P)4D					
135.4863	-3.831	20340.300	5.5	D7 (5D)2H	94148.510	4.5	4SP(31)2H	136.1504	-2.148	22409.852	0.5	D6S (3P)4P	95858.050	1.5	4SP(5P)4D					
135.5376	-1.667	32909.905	5.5	D6S (11)2I	106690.170	5.5	4SP(31)2H	136.1820	-3.986	21308.040	1.5	D7 (5D)2D	94739.170	1.5	4SP(5P)4P					
135.5560	-3.291	25981.629	3.5	D6S (1D)2D	99757.120	4.5	4P (1G)2G	136.1863	-3.957	22810.357	3.5	D6S (3F)4F	96239.200	4.5	4SP(3G)2H					
135.5737	-3.966	18886.780	0.5	D7 (5D)2P	92647.510	1.5	4P (3F)4D	136.1879	-3.462	18886.780	0.5	D7 (5D)2P	92314.758	0.5	5P (5D)4P					
135.5877	-2.428	26055.423	2.5	D6S (3G)4G	99808.400	3.5	4P (1G)2G	136.2071	-2.552	22939.358	2.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F					
135.5909	-8.415	0.000	4.5	D6S (5D)6D	73751.282	4.5	4P (11)2H	136.2267	-1.416	22810.357	3.5	D6S (3F)4F	96217.420	3.5	4SP(5P)4D					
135.6038	-7.970	862.613	1.5	D6S (5D)6D	74606.841	2.5	4P (3D)2D	136.2267	-1.416	22810.357	3.5	D6S (3F)4F	96217.420	3.5	4SP(5P)4D					
135.6152	-3.317	21308.040	1.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F	136.2458	-2.799	33466.463	4.5	D6S (1G)2G	106863.200	3.5	160DD					
135.6279	-1.810	21308.040	1.5	D7 (5D)2D	95039.200	1.5	4P (3P)2P	136.2535	-2.634	21308.040	1.5	D7 (5D)2D	94700.660	2.5	4P (3F)2D					
135.6380	-4.971	13904.824	0.5	D7 (5D)4P	87635.920	0.5	4SP(5P)6D	136.2693	-5.769	20805.770	4.5	D7 (5D)2H	94189.880	5.5	4SP(5G)4G					
135.6330	-3.848	18772.567	4.5	D7 (5D)4P	87600.931	3.5	4P (3D)2D	136.2748	-4.149	21308.040	1.5	D7 (5D)2D	94685.090	2.5	4SP(5D)6P					
135.6489	-2.790	22637.205	4.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	136.2824	-4.149	21308.040	1.5	D7 (5D)2D	94685.090	2.5	4SP(5D)6P					
135.6530	-4.628	20340.300	5.5	D7 (5D)2H	94057.773	4.5	4SP(5D)6D	136.2997	-3.589	21711.917	3.5	D6S (3H)4H	95079.640	3.5	4P (3F)2F					
135.6585	-2.950	38214.507	1.5	D6S (1D)2D	111929.000	2.5	290DD	136.3020	-9.611	384.790	3.5	D6S (5D)6D	73751.282	4.5	4P (11)2H					
								136.3104	-3.875	33501.253	3.5	D6S (1G)2G	106863.200	3.5	160DD					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
136.3178	-3.839	16369.360	3.5	D7 (5D)2G	89727.342	2.5	4P (3F)4G	136.9696	-7.179	15844.650	4.5	D7 (5D)2G	88853.533	3.5	5P (5D)6D
136.3181	-2.418	22409.852	0.5	D6S (3P)4P	95767.700	0.5	4SP(5P)4D	136.9707	-1.191	13474.411	2.5	D7 (5D)4P	86482.750	3.5	4P (1F)2F
136.3461	-4.971	20805.770	4.5	D7 (5D)2H	94148.510	4.5	4SP(5G)4F	136.9856	-1.627	20830.582	2.5	D6S (3P)4P	93830.979	2.5	4SP(5D)6D
136.3510	-3.511	22939.358	2.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2G	136.9916	-0.504	30388.542	4.5	D6S (3G)2G	103385.730	3.5	4F(5D)3[3]
136.3535	-3.035	18886.780	0.5	D7 (5D)2P	92225.538	1.5	5P (5D)4P	137.0074	-4.390	21711.917	3.5	D6S (3H)4H	94700.660	2.5	4P (3F)2D
136.3621	-2.059	21711.917	3.5	D6S (3H)4H	95046.100	2.5	4P (3F)2F	137.0191	-1.430	25787.598	1.5	D6S (3P)2P	98770.140	1.5	4SP(5D)4D
136.3707	-3.890	18886.780	0.5	D7 (5D)2P	92216.320	1.5	4P (3P)2D	137.0367	-3.574	21711.917	3.5	D6S (3H)4H	94685.090	2.5	4SP(5P)4D
136.3821	-3.736	20516.960	2.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	137.0413	-3.013	20516.960	2.5	D7 (5D)2D	93487.650	3.5	4P (3F)4F
136.3996	-3.928	20516.960	2.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D	137.0532	-2.450	23031.300	1.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D
136.4011	-9.813	32875.646	6.5	D6S (3G)2G	103701.720	4.5	4F(5D)2[15]	137.0536	-8.551	30388.542	4.5	D6S (3G)2G	103352.680	4.5	4F(5D)3[5]
136.4118	-3.674	30388.542	4.5	D6S (3G)2G	106183.100	6.5	4SP(3I)2K	137.0540	-0.281	18886.780	0.5	D7 (5D)2P	91850.722	0.5	4SP(5D)6F
136.4210	-8.126	30388.542	4.5	D6S (3G)2G	103691.050	5.5	4F(5D)2[15]	137.0579	-7.394	23317.633	2.5	D5S2(7S)6S	96279.490	2.5	4SP(3G)2F
136.4248	-3.087	26352.766	4.5	D6S (3H)2H	99653.220	4.5	4SP(3G)2G	137.0676	-5.496	18886.780	0.5	D7 (5D)2P	91843.470	1.5	5P (5D)6F
136.4384	-1.093	13474.411	2.5	D7 (5D)4P	86767.577	2.5	4P (3P)4D	137.0762	-9.238	30388.542	4.5	D6S (3G)2G	103340.640	3.5	4F(5D)3[4]
136.4415	-3.653	2837.950	2.5	D7 (5D)4F	76129.446	1.5	4P (1S)2P	137.1022	-0.189	21251.608	6.5	D6S (3G)2G	103711.570	3.5	4F(5D)2[4]
136.4475	-9.877	30388.542	4.5	D6S (3G)2G	103676.780	3.5	4F(5D)2[13]	137.1030	-8.467	30388.542	4.5	D6S (3G)2G	103326.410	4.5	4F(5D)3[4]
136.4556	-7.242	15844.650	4.5	D7 (5D)2G	89128.561	3.5	4SP(5P)6P	137.1039	-8.824	30388.542	4.5	D6S (3G)2G	103325.950	5.5	4F(5D)3[5]
136.4578	-0.444	26352.766	4.5	D6S (3H)2H	99635.520	3.5	4SP(3G)2G	137.1042	-8.660	30764.485	3.5	D6S (3G)2G	103701.720	4.5	4F(5D)2[5]
136.4665	-2.664	22939.358	2.5	D6S (3F)4F	96217.420	3.5	4SP(3I)2K	137.1232	-1.553	21812.055	1.5	D6S (3G)2G	94739.170	1.5	4SP(3P)4P
136.4756	-0.539	23909.905	5.5	D6S (1I)2I	106183.100	6.5	4SP(3I)2K	137.1390	-0.823	22939.358	2.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D
136.4862	-3.897	20805.770	4.5	D7 (5D)2H	94073.240	3.5	4SP(5G)4G	137.1421	-5.032	25981.629	3.5	D6S (3G)4G	98898.710	3.5	4P (1G)2F
136.5150	-6.467	20805.770	4.5	D7 (5D)2H	94057.773	4.5	4SP(5D)6D	137.1438	-8.728	30764.485	3.5	D6S (3G)2G	103680.640	4.5	4F(5D)2[4]
136.5221	-2.491	23031.300	1.5	D6S (3P)4F	96279.490	2.5	4SP(3G)2F	137.1673	-4.162	21308.040	1.5	D7 (5D)2D	96211.739	2.5	4SP(5P)4D
136.5225	-4.916	20830.582	2.5	D6S (3P)4P	94073.240	3.5	4SP(5G)4G	137.1746	-4.306	23317.633	2.5	D5S2(7S)6S	94189.880	5.5	4SP(5G)4G
136.5485	-4.240	21812.055	1.5	D6S (3P)4P	95046.100	2.5	4P (3F)2F	137.1957	-2.849	21812.055	1.5	D6S (3P)4P	94700.660	2.5	4P (3F)2D
136.5614	-3.943	21812.055	1.5	D6S (3P)4F	95039.200	1.5	4P (3P)2H	137.2142	-7.878	15844.650	4.5	D7 (5D)2G	88723.400	4.5	5P (3D)6D
136.5678	-0.316	33466.463	4.5	D6S (1G)2F	106690.170	5.5	4SP(3I)2H	137.2149	-4.248	20516.960	2.5	D7 (5D)2D	93395.360	2.5	4P (3F)4F
136.5745	-1.875	25787.598	1.5	D6S (3P)2P	99007.700	0.5	4SP(5D)4D	137.2226	-1.470	13673.185	1.5	D7 (5D)4P	86547.490	2.5	4P (1F)2F
136.5850	-8.713	18360.646	1.5	D7 (5D)2P	91575.139	2.5	5P (5D)6P	137.2250	-1.654	21812.055	1.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6F
136.6022	-9.565	30764.485	3.5	D6S (3G)2G	103969.760	3.5	4F(5D)1[3]	137.2292	-0.969	13673.185	1.5	D7 (5D)4P	86543.974	1.5	4P (3P)4D
136.6294	-0.634	22810.357	3.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	137.2684	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6462	-4.765	20805.770	4.5	D7 (5D)2H	93987.457	3.5	4SP(5D)6D	137.2810	-6.216	26055.423	2.5	D6S (3G)4G	98898.710	3.5	4P (1G)2F
136.6665	-4.728	2430.097	3.5	D7 (5D)4F	75600.931	3.5	4P (3D)2F	137.2889	-5.858	18360.646	1.5	D7 (5D)2P	91208.887	1.5	5P (5D)4F
136.6720	-0.412	25428.784	5.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F	137.2717	-5.299	18360.646	1.5	D7 (5D)2P	91208.887	1.5	5P (5D)4F
136.6912	-3.887	20830.582	2.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G	137.3122	-1.412	23031.300	1.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D
136.6926	-4.120	20830.582	2.5	D6S (3P)4P	93987.457	3.5	4SP(5D)6D	137.3409	-3.408	20516.960	2.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F
136.7161	-1.501	20340.300	5.5	D7 (5D)6D	93484.580	4.5	4P (3F)4F	137.3669	-3.557	3117.461	1.5	D7 (5D)4F	75915.215	2.5	4P (3D)2F
136.7179	-5.693	0.000	4.5	D6S (5D)6D	73143.288	3.5	4P (1G)2G	137.3718	-0.175	30388.542	4.5	D6S (3G)2G	103183.700	3.5	4SP(3D)2F
136.7811	-8.480	30764.485	3.5	D6S (3G)2G	103873.990	4.5	4F(5D)1[4]	137.3790	-1.751	25805.328	4.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F
136.8094	-0.709	13673.185	1.5	D7 (5D)4P	86767.577	2.5	4P (3P)4D	137.4005	-2.090	27820.412	2.5	D6S (3F)2F	100400.360	2.5	4SP(3P)2D
136.8113	-3.547	25805.328	4.5	D6S (3G)4G	98898.710	3.5	4P (1G)2F	137.4325	-3.868	2837.950	2.5	D7 (5D)4F	75600.931	3.5	4P (3D)2F
136.8146	-6.158	0.000	4.5	D6S (5D)6D	73091.590	4.5	4P (1G)2G	137.4391	-2.535	21430.359	5.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G
136.8262	-0.558	27314.922	3.5	D6S (3F)2F	100400.360	2.5	4SP(3P)2D	137.4439	-8.506	16369.360	3.5	D7 (5D)2G	89128.561	3.5	4SP(5P)6P
136.8415	-5.477	2837.950	2.5	D7 (5D)2F	75915.215	2.5	4P (3D)2D	137.4410	-6.766	384.790	3.5	D6S (5D)6D	73143.288	3.5	4P (3D)2F
136.8455	-8.047	16369.360	3.5	D7 (5D)2G	89444.458	2.5	4SP(5P)6P	137.4569	-7.927	16369.360	3.5	D7 (5D)2G	89119.457	2.5	5P (5D)6D
136.8493	-1.832	13474.411	2.5	D7 (5D)4P	86547.490	2.5	4P (1F)2F	137.4827	-1.018	23031.300	1.5	D6S (3F)4F	95767.700	0.5	4SP(5P)4D
136.8559	-2.015	13474.411	2.5	D7 (5D)4P	86543.974	1.5	4P (3P)4D	137.4939	-0.533	25805.328	4.5	D6S (3G)4G	98335.850	3.5	4SP(5D)4F
136.8575	-1.200	21812.055	1.5	D6S (3P)4P	94880.740	0.5	4SP(5P)4P	137.5074	-4.393	21308.040	1.5	D7 (5D)2D	94031.378	0.5	4SP(5D)6D
136.8807	-1.302	22939.358	2.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	137.5172	-0.263	21430.359	5.5	D6S (3H)4H	94148.510	4.5	4SP(5G)4G
136.8901	-5.578	21711.917	3.5	D6S (3H)4H	94763.210	3.5	4SP(5D)6P	137.5185	-3.430	25787.598	1.5	D6S (3P)2P	98505.100	2.5	4SP(5D)4D
136.9125	-5.292	23317.633	2.5	D5S2(7S)6S	96356.960	3.5	4SP(5G)2F	137.5220	-1.779	13673.185	1.5	D7 (5D)4P	86388.820	0.5	4P (3P)4D
136.9270	-7.585	30388.542	4.5	D6S (3G)2G	103420.160	5.5	4F(5D)3[6]	137.5237	-4.345	26055.423	2.5	D6S (3G)4G	98770.140	1.5	4SP(5D)4D
136.9316	-7.957	18886.780	0.5	D7 (5D)2P	91915.950	1.5	4SP(5D)6F	137.5329	-3.986	18360.646	1.5	D7 (5D)2P	91070.547	2.5	5P (5D)4F
136.9560	-5.095	0.000	4.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F	137.5387	-6.251	384.790	3.5	D6S (5D)6D	73091.590	4.5	5P (1G)2G
136.9638	-4.142	3117.461	1.5	D7 (5D)4F	76129.446	1.5	4P (1S)2P	137.5750	-0.260	18360.646	1.5	D7 (5D)2D	91048.256	1.5	5P (5D)6D
136.9680	-1.999	20830.582	2.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	137.5859	-2.052	20805.770	4.5	D7 (5D)2H	93487.650	3.5	4P (3F)4F
								137.5892	-6.082	21308.040	1.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
137.5917	-3.421	20805.770	4.5	D7 (5D)2H	93484.580	4.5	4P (3F)4F	138.0268	-2.070	26055.423	2.5	D6S (3G)4G	98501.100	2.5	4SP(3D)4D
137.5931	-4.382	23317.633	2.5	D5S2(7S)6S	95995.690	2.5	4SP(5P)4D	138.0406	-4.278	22637.205	4.5	D6S (3F)4F	95079.640	3.5	4P (3F)2F
137.6082	-6.653	384.790	3.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F	138.0411	-0.592	27314.922	3.5	D6S (3F)2F	99757.120	4.5	4P (1G)2G
137.6329	-3.072	20830.582	2.5	D6S (3P)4F	108906.650	3.5	4P (3F)4F	138.0518	-3.146	21711.917	3.5	D6S (3H)4H	94148.510	4.5	4SP(3G)4G
137.6392	-4.849	36252.918	2.5	D6S (3D)2D	108906.640	3.5	4SP(3G)4H	138.0711	-2.030	26170.181	5.5	D6S (3H)2H	98596.650	4.5	4SP(5D)4F
137.6394	-3.371	36126.387	1.5	D6S (3D)2D	108780.000	1.5	270DD	138.0785	-3.908	25428.784	5.5	D6S (3G)4G	97851.350	4.5	4P (1G)2H
137.6427	-5.230	0.000	4.5	D6S (5D)6D	72651.876	3.5	4P (3D)4D	138.0849	-1.878	30764.485	3.5	D6S (3G)2G	103183.700	3.5	4SP(3D)2F
137.6450	-5.865	0.000	4.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	138.1030	-3.797	25981.629	3.5	D6S (3G)4G	98391.330	3.5	4SP(3D)4D
137.6668	-1.058	13904.824	0.5	D7 (5D)4D	86543.974	1.5	4P (3F)4D	138.1055	-2.773	25787.598	1.5	D6S (3F)2F	98196.000	1.5	4SP(5D)4F
137.6816	-6.401	384.790	3.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F	138.1104	-4.124	21581.638	4.5	D6S (3H)4H	93987.457	3.5	4SP(5D)6D
137.6854	-3.057	22409.852	0.5	D6S (3P)4F	95039.200	1.5	4P (3F)2F	138.1221	-1.318	21812.055	1.5	D6S (3F)4F	94211.739	2.5	4SP(3F)4F
137.6891	-3.427	21430.359	5.5	D6S (3H)4H	94057.773	4.5	4SP(5D)6D	138.1460	-0.687	667.683	2.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F
137.7008	-9.453	30764.485	3.5	D6S (3G)2G	103385.730	3.5	4F(5D)3I3I	138.1554	-2.879	20516.960	2.5	D7 (5D)2D	92899.200	2.5	4P (3F)4D
137.7126	-3.682	25981.629	3.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F	138.1632	-4.503	36252.918	2.5	D6S (3D)2D	108631.090	3.5	4SP(3G)4G
137.7165	-4.119	20516.960	2.5	D7 (5D)2D	93129.900	3.5	4P (3F)4D	138.1667	-4.207	25981.629	3.5	D6S (3G)4G	98354.660	2.5	4SP(3G)4G
137.7254	-2.935	21581.638	4.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G	138.1730	-0.884	25981.629	3.5	D6S (3G)4G	98354.660	2.5	4SP(3D)4F
137.7353	-2.730	31364.440	1.5	D6S (3D)4D	103967.490	0.5	4SP(3P)2S	138.1887	-8.000	15844.650	4.5	D7 (5D)2G	88209.450	3.5	4SP(5P)6D
137.7404	-8.889	30764.485	3.5	D6S (3G)2G	103364.840	2.5	4F(5D)3I3I	138.1954	-2.165	21711.917	3.5	D6S (3H)4H	94073.240	3.5	4SP(3G)4G
137.7429	-2.601	31368.450	0.5	D6S (3D)4D	103967.490	0.5	4SP(3P)2S	138.2093	-9.675	16369.360	3.5	D7 (5D)2G	88723.400	4.5	5P (5D)6D
137.7567	-3.475	30388.542	4.5	D6S (3G)2G	102980.300	5.5	4SP(3I)4I	138.2131	-5.863	0.000	4.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F
137.7634	-8.780	30764.485	3.5	D6S (3G)2G	103352.680	4.5	4F(5D)3I5I	138.2199	-5.470	667.683	2.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F
137.7676	-2.265	25805.328	4.5	D6S (3G)4G	98391.330	3.5	4SP(5D)4D	138.2249	-6.470	18886.780	0.5	D7 (5D)2H	93129.900	3.5	4P (3F)4D
137.7863	-8.503	30764.485	3.5	D6S (3G)2G	103340.640	3.5	4F(5D)3I4I	138.2394	-1.680	27314.922	3.5	D6S (3F)2F	99653.220	4.5	4SP(3G)2G
137.7987	-0.299	30764.485	3.5	D6S (3G)2G	103334.100	2.5	4SP(3D)2F	138.2439	-6.475	26055.423	2.5	D6S (3G)4G	98391.330	3.5	4SP(3D)4D
137.8036	-4.781	25787.598	1.5	D6S (3P)2F	98354.660	2.5	4SP(5G)4F	138.2565	-1.302	22409.852	0.5	D6S (3F)4F	94739.170	1.5	4SP(3P)4P
137.8039	-2.262	21581.638	4.5	D6S (3H)4H	94148.510	4.5	4SP(5G)4G	138.2619	-6.908	862.613	1.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P
137.8079	-4.103	20830.582	2.5	D6S (3P)4F	93395.360	2.5	4P (3F)4F	138.2654	-7.391	862.613	1.5	D6S (5D)6D	73187.280	0.5	4P (3D)2P
137.8114	-3.512	30388.542	4.5	D6S (3G)2G	10326.410	4.5	4F(5D)3I4I	138.2664	-2.477	18886.780	0.5	D7 (5D)2H	93129.900	3.5	4P (3F)4D
137.8133	-8.446	30764.485	3.5	D6S (3G)2G	103326.410	4.5	4F(5D)3I4I	138.2703	-4.573	20805.770	4.5	D7 (5D)2H	93129.900	3.5	4P (3F)4D
137.8280	-1.566	25981.629	3.5	D6S (3G)4G	98535.850	3.5	4SP(5D)4F	138.2732	-2.235	27314.922	3.5	D6S (3F)2F	99653.220	4.5	4SP(3G)2G
137.8290	-8.930	30388.542	4.5	D6S (3G)2G	102942.200	3.5	4F(5D)4I3I	138.2878	-4.274	18886.780	0.5	D7 (5D)2P	91199.746	0.5	5P (5D)4D
137.8309	-3.644	37227.326	0.5	D6S (1S)2S	109780.000	1.5	280DD	138.3139	-3.273	20830.582	2.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D
137.8347	-1.310	25787.598	1.5	D6S (3P)2P	98338.280	1.5	4SP(5P)4S	138.3140	-1.873	26055.423	2.5	D6S (3G)4G	98354.660	2.5	4SP(5D)4F
137.8437	-2.438	26352.766	4.5	D6S (3H)2H	98988.710	3.5	4P (1G)2F	138.3364	-7.925	18360.646	1.5	D7 (5D)2P	90648.217	0.5	5P (5D)6F
137.8541	-5.197	18360.646	1.5	D7 (5D)2P	90901.124	2.5	5P (5D)4F	138.3454	-2.752	26055.423	2.5	D6S (3G)4G	98338.280	1.5	4SP(5P)4S
137.8542	-5.026	23317.633	2.5	D5S2(7S)6S	95858.050	1.5	4SP(5P)4D	138.3543	-3.750	18360.646	1.5	D7 (5D)2P	90638.822	2.5	5P (5D)4D
137.8583	-3.639	18360.646	1.5	D7 (5D)2P	90898.873	1.5	4P (3F)4F	138.3580	-0.491	21711.917	3.5	D6S (3H)4H	93988.170	2.5	4SP(5G)4G
137.8696	-6.937	21308.040	1.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	138.3594	-6.468	21711.917	3.5	D6S (3H)4H	93987.457	3.5	4SP(5D)6D
137.8795	-2.968	36252.918	2.5	D6S (3D)2D	108780.000	1.5	270DD	138.3714	-4.758	22810.357	3.5	D6S (3F)4F	95079.640	3.5	4P (3F)2F
137.8864	-1.025	25981.629	3.5	D6S (3G)4G	98505.100	2.5	4SP(5D)4D	138.3714	-2.346	18360.646	1.5	D7 (5D)2P	90629.902	1.5	4P (3F)4S
137.8874	-4.946	21308.040	1.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D	138.3756	-7.366	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4D
137.9218	-7.293	30388.542	4.5	D6S (3G)2G	102893.380	5.5	4F(5D)4I6I	138.3779	-5.561	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4D
137.9256	-3.665	36126.387	1.5	D6S (3D)2D	108629.250	2.5	4SP(3G)4G	138.3858	-6.571	0.000	4.5	D6S (5D)6D	72650.658	4.5	4P (3D)4D
137.9314	-3.447	21711.917	3.5	D6S (3H)4H	94211.739	2.5	4SP(5P)4F	138.3895	-8.343	30764.485	3.5	D6S (3G)2G	103024.290	2.5	4F(5D)4I2I
137.9337	-8.825	30388.542	4.5	D6S (3G)2G	102887.120	3.5	4F(5D)4I4I	138.4173	-2.672	36126.387	1.5	D6S (3D)2D	108371.700	1.5	250DD
137.9350	-4.869	20830.582	2.5	D6S (3P)4F	93328.480	1.5	4P (3F)4F	138.4176	-9.130	16369.360	3.5	D7 (5D)2D	108371.700	1.5	250DD
137.9428	-7.915	30388.542	4.5	D6S (3G)2G	102882.370	4.5	4F(5D)4I4I	138.4412	-4.770	26352.918	2.5	D6S (5D)6D	72650.658	4.5	4P (3D)4D
137.9434	-1.686	27314.922	3.5	D6S (3F)2F	99808.400	3.5	4P (1G)2G	138.4431	-4.689	18360.646	1.5	D7 (5D)2P	90593.490	2.5	5P (5D)6F
137.9470	-0.364	21581.638	4.5	D6S (3H)4H	94073.240	3.5	4SP(5G)4G	138.4476	-5.199	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4D
137.9612	-8.312	16369.360	3.5	D7 (5D)2G	88853.533	3.5	5P (5D)6D	138.4671	-1.689	21812.055	1.5	D6S (3F)4F	94031.378	0.5	4SP(5D)6D
137.9683	-3.322	26055.423	2.5	D6S (3G)4G	98535.850	3.5	4SP(5D)4F	138.4810	-5.992	977.053	0.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P
137.9713	-2.698	18360.646	1.5	D7 (5D)2P	90839.480	0.5	4P (3P)4F	138.4845	-6.286	977.053	0.5	D6S (5D)6D	73187.280	0.5	4P (3D)2P
137.9765	-6.224	21581.638	4.5	D6S (3H)4H	94057.773	4.5	4SP(5D)6D	138.5190	-6.415	862.613	1.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F
137.9775	-5.919	667.683	2.5	D6S (5D)6D	73143.288	3.5	4P (1G)2G	138.5272	-0.767	27620.412	2.5	D6S (3F)2F	99808.400	3.5	4P (1G)2G
137.9816	-4.345	25805.328	4.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H	138.5291	-8.338	30764.485	3.5	D6S (3G)2G	102952.100	2.5	4F(5D)4I3I
137.9864	-2.050	22409.852	0.5	D6S (3P)4F	94880.740	0.5	4SP(5P)4F	138.5291	-8.338	30764.485	3.5	D6S (3G)2G	102952.100	2.5	4F(5D)4I3I
138.0018	-8.243	30388.542	4.5	D6S (3G)2G	102851.360	4.5	4F(5D)4I5I	138.5366	-2.867	26352.918	2.5	D6S (3H)2H	98535.850	3.5	4SP(5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	K	J	LABEL
138.5456	-2.594	20516.960	2.5	D7 (5D)2D	92695.374	2.5	4P (3D)4D	139.1310	-2.175	22810.357	3.5	D6S (3F)4F	94685.090	2.5	4SP(3D)6P	
138.5469	-7.762	30764.485	3.5	D6S (3G)2D	102942.200	3.5	4P (5D)4[3]	139.1407	-4.963	25981.629	3.5	D6S (3G)4G	97851.350	4.5	4P (1G)2H	
138.5488	-4.462	2430.097	3.5	D7 (5D)4F	74606.841	2.5	4P (3D)2D	139.1502	-4.706	20830.582	2.5	D6S (3F)4P	92935.374	2.5	4P (3P)2D	
138.5500	-5.235	21812.055	1.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G	139.1655	-5.195	667.683	2.5	D6S (5D)6D	72524.566	1.5	4P (3D)4F	
138.5781	-4.226	18886.780	0.5	D7 (5D)2P	91048.256	1.5	5P (5D)4D	139.1716	-6.736	364.790	3.5	D6S (5D)6D	72238.513	2.5	4P (3D)4F	
138.6182	-0.789	26055.423	2.5	D6S (3G)4G	98196.000	1.5	4SP(5D)4F	139.1771	-3.773	31483.176	3.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F	
138.6188	-2.683	22939.358	2.5	D6S (3F)4F	95079.640	3.5	4P (3F)2F	139.1799	-2.676	23031.300	1.5	D6S (3F)4F	94880.740	0.5	4SP(5P)4F	
138.6375	-3.190	20516.960	2.5	D7 (5D)2D	92647.510	1.5	4P (3F)4D	139.1950	-3.600	20516.960	2.5	D7 (5D)2D	92358.610	1.5	4SP(5G)4F	
138.6440	-5.334	18360.646	1.5	D7 (5D)2P	90487.810	2.5	5P (5D)6F	139.1980	-8.378	16369.360	3.5	D7 (5D)2G	88209.450	3.5	4SP(5P)6D	
138.6527	-2.277	22637.205	4.5	D6S (3F)4F	94763.219	3.5	4SP(5D)6P	139.2033	-2.515	26932.748	0.5	D6S (3F)2P	98770.140	1.5	4SP(5D)4D	
138.6527	-7.768	30764.485	3.5	D6S (3G)2G	102887.120	3.5	4P(5D)4[4]	139.2248	-0.252	20340.300	5.5	D7 (5D)2H	92171.716	4.5	4P (3F)2G	
138.6561	-4.671	36252.918	2.5	D6S (3D)2D	108373.800	3.5	260DD	139.2295	-4.549	22939.358	2.5	D6S (3F)4F	94763.219	3.5	4SP(3D)6P	
138.6596	-4.500	21711.917	3.5	D6S (3H)4H	93830.979	2.5	4SP(5D)6D	139.2429	-6.207	20830.582	2.5	D6S (3F)4P	92647.510	1.5	4P (3F)4D	
138.6601	-3.855	36252.918	2.5	D6S (3D)2D	108371.700	1.5	250DD	139.2507	-4.441	20516.960	2.5	D7 (5D)2D	94739.170	1.5	4SP(5G)4F	
138.6619	-7.472	30764.485	3.5	D6S (3G)2G	102882.370	4.5	4P(5D)4[4]	139.2617	-2.218	22939.358	2.5	D6S (3F)4F	94739.170	1.5	4SP(5P)4P	
138.6797	-1.891	26170.181	5.5	D6S (3H)2H	98278.770	5.5	4P (1G)2H	139.2817	-0.458	20805.770	4.5	D7 (5D)2H	92602.703	3.5	4P (3F)2G	
138.6833	-3.596	22939.358	2.5	D6S (3F)4F	95046.100	2.5	4P (3F)2P	139.3076	-4.027	32875.846	6.5	D6S (11)2I	104659.260	6.5	4SP(3I)4H	
138.6966	-4.223	22939.358	2.5	D6S (3F)4F	95039.200	1.5	4P (3F)2P	139.3214	-1.294	20340.300	5.5	D7 (5D)2H	92116.780	4.5	4SP(5G)4H	
138.7016	-5.034	1872.567	4.5	D7 (5D)4F	73969.767	5.5	4P (11)2I	139.3229	-3.695	21711.917	3.5	D6S (3H)4H	93487.650	3.5	4P (3F)4F	
138.7120	-8.137	20340.300	5.5	D7 (5D)2H	92432.136	5.5	4SP(5D)6F	139.3288	-4.157	21711.917	3.5	D6S (3H)4H	93484.580	4.5	4P (3F)4F	
138.7219	-3.193	21308.040	1.5	D7 (5D)2D	93395.360	2.5	4P (3F)4F	139.3299	-3.913	20830.582	2.5	D6S (3F)4P	92602.703	3.5	4P (3F)2G	
138.7219	-0.995	20340.300	5.5	D7 (5D)2H	92426.980	4.5	4SP(5G)4F	139.3427	-3.464	20516.960	2.5	D7 (5D)2D	92282.460	3.5	4SP(5G)4F	
138.7237	-3.841	20516.960	2.5	D7 (5D)2D	92602.703	3.5	4P (3F)2D	139.3495	-6.602	23317.633	0.5	D7 (5D)2G	95079.640	3.5	4P (3F)2F	
138.7445	-1.707	26932.748	0.5	D6S (3P)2P	99007.700	0.5	4SP(5D)6D	139.3509	-4.089	18886.780	0.5	D7 (5D)2P	90648.217	0.5	5P (5D)6F	
138.7566	-4.528	20830.582	2.5	D6S (3P)4P	92899.200	2.5	4P (3F)4D	139.3595	-3.272	20516.960	2.5	D7 (5D)2D	92274.120	2.5	4P (3D)4P	
138.7844	-3.747	21430.359	5.5	D6S (3H)4H	93484.580	4.5	4P (3F)4D	139.3741	-4.942	32909.905	5.5	D6S (11)2I	104659.260	6.5	4SP(3I)4H	
138.8002	-3.411	25805.328	4.5	D6S (3G)4G	97851.350	4.5	4P (1G)2H	139.3811	-2.890	22939.358	2.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P	
138.8145	-3.445	26352.766	4.5	D6S (3H)2H	98391.330	3.5	4SP(5D)4D	139.3862	-3.022	18886.780	0.5	D7 (5D)2P	90629.902	1.5	4P (3F)4S	
138.8343	-2.230	21812.055	1.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	139.3881	-2.890	22939.358	2.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P	
138.8351	-3.216	32909.905	5.5	D6S (11)2I	104937.800	4.5	4SP(3I)4H	139.3881	-7.516	384.790	3.5	D6S (5D)6D	72130.390	4.5	4P (1G)2H	
138.8495	-3.431	21308.040	1.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F	139.3862	-3.022	18886.780	0.5	D7 (5D)2P	90629.902	1.5	4P (3F)4S	
138.8524	-2.193	21812.055	1.5	D6S (3P)4P	93830.979	2.5	4SP(5D)6D	139.4099	-5.385	1872.567	4.5	D7 (5D)4F	73603.500	5.5	4P (11)2H	
138.8598	-1.188	27620.412	2.5	D6S (3F)2F	99635.520	3.5	4SP(3G)2G	139.4217	-6.225	23317.633	2.5	D5S2(7S)6S	95046.100	2.5	4P (3F)2F	
138.8603	-2.487	23031.300	1.5	D6S (3F)4F	95046.100	2.5	4P (3F)2F	139.4481	-6.229	23317.633	2.5	D5S2(7S)6S	95039.200	1.5	4P (3F)2F	
138.8656	-4.064	18886.780	0.5	D7 (5D)2P	90898.873	1.5	4P (3F)4P	139.4533	-4.351	20516.960	2.5	D7 (5D)2D	92225.538	1.5	5P (5D)4P	
138.8737	-4.262	23031.300	1.5	D6S (3F)4F	95039.200	1.5	4P (3P)2P	139.4547	-2.714	23031.300	1.5	D6S (3F)4F	94739.170	1.5	4SP(5P)4P	
138.8808	-3.999	36126.387	1.5	D6S (3D)2D	108130.600	2.5	220DD	139.4569	-5.574	18886.780	0.5	D7 (5D)2P	90593.497	1.5	5P (5D)6F	
138.9154	-3.515	36252.918	2.5	D6S (3D)2D	108239.200	3.5	240DD	139.4690	-3.657	31483.176	3.5	D6S (3D)4D	103183.700	3.5	4SP(3D)2F	
138.9194	-6.454	667.683	2.5	D6S (5D)6D	72651.876	3.5	4P (3D)4D	139.4713	-2.900	20516.960	2.5	D7 (5D)2D	92216.320	1.5	4P (3P)2D	
138.9474	-3.797	31364.440	1.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F	139.4836	-7.326	15844.650	4.5	D7 (5D)2G	87537.652	3.5	4SP(3G)6F	
138.9521	-6.769	384.790	3.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F	139.4999	-4.547	30764.485	3.5	D6S (3G)2G	102449.100	2.5	4SP(3D)2D	
138.9661	-5.144	20340.300	5.5	D7 (5D)2H	92300.277	4.5	4SP(5D)6F	139.5005	-5.427	667.683	2.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F	
138.9799	-3.226	22810.357	3.5	D6S (3F)4F	94763.219	3.5	4SP(5D)6P	139.5022	-4.125	21711.917	3.5	D6S (3H)2H	93395.360	2.5	4P (1G)2H	
138.9802	-3.593	18886.780	0.5	D7 (5D)2P	90839.480	0.5	4P (3P)4P	139.5067	-3.046	26170.181	5.5	D6S (3H)4H	97851.350	4.5	4P (1G)2H	
138.9819	-6.072	667.683	2.5	D6S (5D)6D	72619.490	2.5	4P (3D)4P	139.5296	-4.474	23031.300	1.5	D6S (3F)4F	94700.660	2.5	4P (3F)2D	
138.9820	-5.221	30388.542	4.5	D6S (3G)2G	102340.300	5.5	4SP(3I)4K	139.5441	-5.520	862.613	1.5	D6S (5D)6D	72524.566	1.5	4P (3D)4D	
138.9928	-4.427	31387.948	2.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F	139.5477	-4.471	2837.950	2.5	D7 (5D)4F	74498.057	1.5	4P (3D)2D	
139.0025	-3.004	32875.646	6.5	D6S (11)2I	104816.800	5.5	4SP(3I)4H	139.5600	-3.678	23031.300	1.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P	
139.0073	-4.827	36252.918	2.5	D6S (3D)2D	108191.600	1.5	230DD	139.5991	-4.307	36252.918	2.5	D6S (3D)2D	107886.600	3.5	200DD	
139.0318	-3.925	26352.766	4.5	D6S (3H)2H	98278.770	5.5	4P (1G)2H	139.6119	-7.200	15844.650	4.5	D7 (5D)2G	87471.765	4.5	4SP(5G)6F	
139.0629	-5.642	20340.300	5.5	D7 (5D)2H	92250.210	6.5	4SP(5G)4H	139.6134	-7.863	20805.770	4.5	D7 (5D)2H	92432.136	5.5	4SP(5D)6F	
139.0704	-4.034	21581.638	4.5	D6S (3H)4H	93487.650	3.5	4P (3F)4F	139.6228	-2.499	22409.852	0.5	D6S (3F)4P	94031.378	0.5	4SP(5D)6D	
139.0764	-3.171	21581.638	4.5	D6S (3H)4H	93484.580	4.5	4P (3F)4F	139.6234	-3.040	20805.770	4.5	D7 (5D)2H	92426.980	4.5	4SP(5G)4F	
139.1008	-3.841	22810.357	3.5	D6S (3F)4F	94700.660	2.5	4P (3F)2D	139.6340	-4.309	38164.194	2.5	D6S (1D)2D	109780.000	1.5	280DD	
139.1232	-4.906	1872.567	4.5	D7 (5D)4F	73751.262	4.5	4P (11)2H	139.6821	-4.420	21308.040	1.5	D7 (5D)2D	92899.200	2.5	4P (3F)4D	
139.1252	-2.270	36252.918	2.5	D6S (3D)2D	108130.600	2.5	220DD	139.6964	-2.647	27314.922	3.5	D6S (3F)2F	98898.710	3.5	4P (1G)2F	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
139.6974	-3.166	21812.055	1.5	D6S	93395.360	2.5	4P (3F)4F	140.2061	-4.655	20830.582	2.5	D6S	92154.165	3.5	4SP(5D)6F
139.7040	-6.026	384.790	3.5	D6S	71964.710	2.5	4P (3D)4F	140.2108	-5.048	2430.097	3.5	D7	73751.282	4.5	4P (1I)2H
139.7189	-7.045	20516.960	2.5	D7	92089.260	3.5	4SP(5G)4H	140.2308	-3.186	20805.770	4.5	D7	92166.780	4.5	4SP(5G)4H
139.7217	-6.793	667.683	2.5	D6S	72238.513	2.5	4P (3D)4F	140.2399	-0.504	862.613	1.5	D6S	72168.998	1.5	4P (3D)4F
139.7290	-5.965	862.613	1.5	D6S	72429.711	0.5	4P (3D)4D	140.2583	-5.330	667.683	2.5	D6S	71964.710	2.5	4P (3D)4P
139.7321	-4.482	38214.507	1.5	D6S	109780.000	1.5	280DD	140.2849	-2.428	20805.770	4.5	D7	92089.260	3.5	4SP(5G)4H
139.7572	-0.771	22637.205	4.5	D6S	94189.880	5.5	4SP(5G)4G	140.2884	-2.782	27314.922	3.5	D6S	98596.650	4.5	4SP(5D)4F
139.7572	-2.138	37227.326	0.5	D6S	108780.000	1.5	270DD	140.2952	-3.016	22939.358	2.5	D6S	94211.739	2.5	4SP(5P)4P
139.7658	-6.032	21581.638	4.5	D6S	93129.900	3.5	4P (3F)4D	140.3068	-3.750	1872.567	4.5	D7	73143.288	3.5	4P (1G)2G
139.7673	-8.316	977.053	0.5	D6S	72524.566	1.5	4P (3D)4D	140.3098	-3.715	26055.423	2.5	D6S	97326.270	1.5	4SP(3F)2P
139.7845	-0.692	25787.998	1.5	D6S	97326.270	1.5	4SP(3F)2P	140.3101	-2.083	1872.567	4.5	D7	73143.288	3.5	4P (1G)2G
139.8053	-5.514	20830.582	2.5	D6S	92368.610	1.5	4SP(5G)4F	140.3208	-0.724	18360.646	1.5	D7	89625.940	1.5	4SP(5P)6P
139.8166	-3.762	31811.822	2.5	D7	103334.100	2.5	4SP(3D)2F	140.3248	-3.242	26932.748	0.5	D6S	98196.000	1.5	4SP(5D)4F
139.8280	-4.873	21812.055	1.5	D6S	93328.480	1.5	4P (3F)4F	140.3325	-1.208	22810.357	3.5	D6S	94073.240	3.5	4SP(5G)4G
139.8380	-1.221	22637.205	4.5	D6S	94148.510	4.5	4SP(5G)4G	140.3358	-3.338	20830.582	2.5	D6S	92089.260	3.5	4SP(5G)4H
139.8576	-6.944	20516.960	2.5	D7	92018.729	2.5	4SP(5D)6F	140.3560	-4.095	22810.357	3.5	D6S	94057.773	4.5	4SP(5D)6D
139.8615	-5.800	667.683	2.5	D6S	72168.998	1.5	4P (3D)4F	140.3786	-7.108	977.053	0.5	D6S	72212.978	0.5	4P (3D)4P
139.8629	-1.865	26352.766	4.5	D6S	92329.890	2.5	4SP(5G)4F	140.4082	-3.843	27314.922	3.5	D6S	98355.850	3.5	4SP(5D)4F
139.8673	-7.019	15844.650	4.5	D7	87340.983	5.5	4SP(5G)6F	140.4119	-2.715	1872.567	4.5	D7	73091.590	4.5	4P (1G)2G
139.8709	-6.610	20805.770	4.5	D7	92300.277	4.5	4P (3D)2D	140.4434	-7.559	16369.360	3.5	D7	87572.431	2.5	4SP(5G)6F
139.8809	-7.696	3117.461	1.5	D7	74606.841	2.5	4P (5D)4F	140.4638	-3.504	27314.922	3.5	D6S	98505.100	2.5	4SP(5D)4D
139.9058	-0.573	20803.770	4.5	D7	92282.460	3.5	4SP(5G)4F	140.4728	-6.232	20830.582	2.5	D6S	92018.729	2.5	4SP(5D)6F
139.9228	-5.294	977.053	0.5	D6S	72429.711	0.5	4P (3D)4D	140.4745	-5.820	21711.917	3.5	D6S	92899.200	3.5	4P (3F)4D
139.9543	-3.637	20830.582	2.5	D6S	92282.460	3.5	4SP(5G)4F	140.4797	-3.067	31999.048	3.5	D7	103183.700	2.5	4P (3F)4D
139.9667	-1.547	23317.633	2.5	D5S2(7S)6S	94763.219	3.5	4SP(5D)6P	140.4879	-3.624	21251.608	6.5	D6S	92432.136	5.5	4SP(5D)6F
139.9844	-4.004	33501.253	3.5	D6S	92274.120	2.5	4P (3P)4P	140.4880	-3.733	23031.300	1.5	D6S	94211.739	2.5	4SP(5P)4P
139.9854	-6.242	22637.205	4.5	D6S	94073.240	3.5	4SP(5G)4F	140.4881	-6.641	862.613	1.5	D6S	72043.726	1.5	4SP(3D)4P
139.9962	-1.995	22409.852	0.5	D6S	93840.340	1.5	4SP(5D)6D	140.4932	-3.473	22810.357	3.5	D6S	93988.170	2.5	4SP(5G)4G
140.0138	-3.160	23317.633	2.5	D5S2(7S)6S	94039.170	1.5	4SP(5P)4P	140.4946	-3.169	22810.357	3.5	D6S	93987.457	3.5	4SP(5D)6D
140.0157	-3.680	22637.205	4.5	D6S	94759.773	4.5	4SP(5D)6D	140.5120	-8.612	16369.360	3.5	D7	87572.431	2.5	4SP(5G)6F
140.0208	-3.871	21711.917	3.5	D6S	93129.900	3.5	4P (3F)4D	140.5487	-2.838	27620.412	2.5	D6S	98370.140	1.5	4SP(5D)4D
140.0452	-2.198	26932.748	0.5	D6S	98338.280	1.5	4SP(5P)4S	140.5771	-3.542	21308.040	1.5	D7	92453.460	0.5	4P (3F)4D
140.0533	-3.190	22810.357	3.5	D6S	94211.739	2.5	4SP(5P)4F	140.5800	-1.093	22939.358	2.5	D6S	94073.240	3.5	4SP(5G)4G
140.0580	-7.288	20516.960	2.5	D7	91915.950	1.5	4SP(5D)6F	140.5691	-3.649	31368.450	0.5	D6S	102503.810	1.5	4SP(3D)2D
140.0659	-4.488	20830.582	2.5	D6S	92225.538	1.5	5P (5D)4P	140.5771	-3.542	31368.450	0.5	D6S	102503.810	1.5	4SP(3D)2D
140.0809	-2.928	21308.040	1.5	D7	92695.374	2.5	4P (3F)2D	140.5800	-1.093	22939.358	2.5	D6S	94073.240	3.5	4SP(5G)4G
140.0840	-7.612	20830.582	2.5	D6S	92216.320	1.5	4P (3P)2D	140.6156	-2.893	31387.948	2.5	D6S	102503.810	1.5	4SP(3D)2D
140.0893	-4.451	23317.633	2.5	D5S2(7S)6S	94700.660	2.5	4P (3F)2D	140.6258	-5.663	18360.646	1.5	D7	89471.765	4.5	4SP(5G)6F
140.0941	-4.913	3117.461	1.5	D7	74498.057	1.5	4P (3D)2D	140.6422	-7.683	16369.360	3.5	D7	87471.765	4.5	4SP(5G)6F
140.1027	-5.716	7955.299	3.5	D6S	79331.500	3.5	4SP(5S)6P	140.6428	-4.991	862.613	1.5	D6S	71964.710	2.5	4P (3D)4P
140.1033	-5.888	862.613	1.5	D6S	72238.513	2.5	4P (3D)4F	140.6724	-3.098	21812.055	1.5	D6S	92899.200	2.5	4P (3F)4D
140.1044	-5.502	667.683	2.5	D6S	72043.026	1.5	4P (3D)4P	140.6759	-5.026	20830.582	2.5	D6S	91915.950	1.5	4SP(5D)6F
140.1112	-4.538	31811.822	2.5	D7	103183.700	3.5	4SP(3D)2F	140.6773	-2.966	15844.650	4.5	D7	89429.100	2.5	4P (3P)4D
140.1199	-1.870	23317.633	2.5	D5S2(7S)6S	94685.090	2.5	4SP(5D)6P	140.6790	-9.163	18360.646	1.5	D7	89444.458	2.5	4SP(5P)6P
140.1214	-4.421	18360.646	1.5	D7	89277.342	2.5	4P (3F)4G	140.6937	-2.950	27314.922	3.5	D6S	98391.330	3.5	4SP(5D)4D
140.1229	-2.348	20805.770	4.5	D7	92171.716	4.5	4P (3F)2G	140.6937	-2.950	27314.922	3.5	D6S	98391.330	3.5	4SP(5D)4D
140.1329	-5.878	20805.770	4.5	D7	92166.600	5.5	4SP(5G)4H	140.7143	-5.006	977.053	0.5	D6S	72043.026	1.5	4P (3D)4P
140.1535	-5.047	862.613	1.5	D6S	72212.978	0.5	4P (3D)4D	140.7239	-2.310	31387.948	2.5	D6S	102449.100	2.5	4SP(3D)2D
140.1535	-3.624	33466.463	4.5	D6S	104816.800	5.5	4SP(3I)4H	140.7298	-5.584	20516.960	2.5	D7	91575.139	2.5	5P (5D)6P
140.1537	-3.321	22637.205	4.5	D6S	93987.457	3.5	4SP(5D)6D	140.7448	-2.531	21308.040	1.5	D7	92358.610	1.5	4SP(5G)4F
140.1573	-3.382	20805.770	4.5	D7	92154.165	3.5	4SP(5D)6F	140.7483	-1.433	22939.358	2.5	D6S	93988.170	2.5	4SP(5G)4G
140.1749	-2.687	21308.040	1.5	D7	92647.510	1.5	4P (3F)4D	140.7497	-4.106	22939.358	2.5	D6S	93987.457	3.5	4SP(5D)6D
140.1774	-0.947	22810.357	3.5	D6S	94148.510	4.5	4SP(5G)4G	140.7663	-2.478	27314.922	3.5	D6S	98354.660	2.5	4SP(5D)4D
140.1835	-2.285	31999.048	3.5	D7	103334.100	2.5	4SP(5D)2F	140.7912	-4.832	109486.150	5.5	4SD(7S)8D			
140.1938	-3.157	7955.299	3.5	D6S	79285.110	2.5	4SP(5D)6P	140.8017	-3.863	21308.040	1.5	D7	92329.890	2.5	4SP(5G)4F
140.2003	-6.172	20516.960	2.5	D7	91843.470	1.5	5P (5D)6P	140.8033	-4.426	21581.638	4.5	D6S	92602.703	3.5	4P (3F)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
140.8042	-3.767	22810.357	3.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	141.4411	-3.178	21581.638	4.5	D6S (3H)4H	92282.460	3.5	4SP(5G)4F
140.8195	-3.392	20830.582	2.5	D6S (3F)4F	91843.470	1.5	5P (5D)6P	141.4587	-1.825	31811.822	2.5	D7 (5D)2F	102503.810	1.5	48P(3D)2D
140.8317	-3.856	21308.040	1.5	D7 (5D)2D	92314.758	0.5	5P (5D)4P	141.4589	-7.667	20516.960	2.5	D7 (5D)2D	91208.887	1.5	5P (5D)4F
140.8415	-2.203	21430.359	5.5	D6S (3H)4H	94332.136	5.5	4SP(5D)6F	141.4699	-2.272	13673.185	1.5	D7 (5D)4P	84359.800	1.5	4P (1F)2D
140.8449	-5.090	23031.300	1.5	D6S (3F)4F	94031.378	0.5	4SP(5D)6D	141.4699	-2.225	21430.359	5.5	D6S (3H)4H	92116.780	4.5	4SP(5G)4H
140.8478	-0.446	21251.608	6.5	D6S (3H)4H	92250.210	6.5	4SP(5G)4H	141.4882	-1.299	22810.357	3.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F
140.8518	-3.667	21430.359	5.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.4943	-1.711	22810.357	3.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F
140.8779	-6.221	21711.917	3.5	D6S (3H)4H	92695.374	2.5	4P (3P)2D	141.5017	-4.947	23317.633	2.5	D5S2(7S)6S	93988.170	2.5	4SP(5G)4G
140.9035	-6.351	18360.646	1.5	D7 (5D)2F	89331.195	1.5	5P (5D)6D	141.5031	-1.709	23317.633	2.5	D5S2(7S)6S	93987.457	3.5	48P(5D)6D
140.9124	-5.219	21308.040	1.5	D7 (5D)2D	92274.120	2.5	4P (3P)4P	141.5198	-4.187	2430.097	3.5	D7 (5D)4F	73091.590	4.5	4P (1G)2G
140.9127	-1.585	31483.176	3.5	D6S (3D)4D	102449.100	2.5	4SP(3G)2D	141.5409	-7.520	20516.960	2.5	D7 (5D)2D	91167.937	3.5	5P (5D)6P
140.9307	-1.188	23031.300	1.5	D6S (3F)4F	93988.170	2.5	4SP(5G)4G	141.5572	-1.646	18360.646	1.5	D7 (5D)2P	89003.460	0.5	4P (3P)2S
140.9395	-4.713	31999.048	3.5	D7 (5D)2F	102951.500	4.5	4SP(3I)4I	141.5600	-4.287	21812.055	1.5	D6S (3P)4P	92453.460	0.5	4P (3F)4D
140.9577	-3.425	36252.918	2.5	D6S (3D)2D	107196.200	2.5	180DD	141.5667	-2.716	15844.650	4.5	D7 (5D)2G	86482.750	3.5	4P (1F)2F
140.9651	-6.019	8391.938	2.5	D6S (5D)4D	79331.500	3.5	4SP(5S)6P	141.5683	-2.880	31811.822	2.5	D7 (5D)2F	102449.100	2.5	48P(3D)2D
141.0067	-3.834	22409.852	0.5	D6S (3P)4P	93328.480	1.5	4P (3F)4F	141.5763	-1.564	25428.784	5.5	D6S (3G)4G	96062.060	5.5	48P(5D)6F
141.0089	-4.222	21308.040	1.5	D7 (5D)2D	92225.538	1.5	5P (5D)4P	141.5934	-2.704	2430.097	3.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F
141.0130	-3.271	21251.608	6.5	D6S (3H)4H	98535.850	3.5	4SP(5D)4F	141.6070	-3.960	21711.917	3.5	D6S (3H)4H	92329.890	2.5	48P(5G)4F
141.0139	-2.513	21251.608	6.5	D6S (3H)4H	92166.600	5.5	4SP(5G)4H	141.6114	-2.721	38164.194	2.5	D6S (1D)2D	108780.000	1.5	270DD
141.0185	-4.637	36252.918	2.5	D6S (3D)2D	107165.600	3.5	170DD	141.6224	-4.283	21308.040	1.5	D7 (5D)2D	106863.200	3.5	160DD
141.0418	-5.632	22939.358	2.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D	141.6272	-7.945	141.6272	-7.945	4P (3P)2D	91915.500	1.5	48P(5D)6F
141.0554	-1.817	23317.633	2.5	D5S2(7S)6S	94211.739	2.5	4SP(5P)4P	141.6337	-4.640	141.6337	-4.640	4P (3F)4F	92985.110	2.5	48P(5S)6P
141.0573	-3.751	8391.938	2.5	D6S (5D)4D	79285.110	2.5	4SP(5S)6P	141.6630	-1.633	21581.638	4.5	D6S (3H)4H	92171.716	4.5	4P (3F)2G
141.0604	-3.348	22939.358	2.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	141.6664	-3.865	21711.917	3.5	D6S (3H)4H	92300.277	4.5	48P(5D)6F
141.0621	-3.821	21711.917	3.5	D6S (3H)4H	92602.703	3.5	4P (3F)2G	141.6711	-2.527	2430.097	3.5	D7 (5D)4F	73016.147	3.5	4P (1G)2F
141.0728	-3.264	13474.411	2.5	D7 (5D)4P	84359.800	1.5	4P (1F)2D	141.6732	-2.108	22810.357	3.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F
141.0742	-3.330	27620.412	2.5	D6S (3F)2F	98505.100	2.5	4SP(5D)4D	141.6740	-6.327	18886.780	0.5	D7 (5D)2P	98471.365	0.5	48P(5G)4H
141.0769	-4.727	21810.055	1.5	D6S (3H)4H	92695.374	2.5	4P (3P)2D	141.6921	-3.465	27620.412	2.5	D6S (3F)2F	98196.000	1.5	48P(5D)6F
141.1036	-3.846	21430.359	5.5	D6S (3H)4H	92300.277	4.5	4SP(5D)6F	141.6982	-3.531	21581.638	4.5	D6S (3H)4H	92154.165	3.5	48P(5D)6F
141.1348	-3.631	8391.938	2.5	D6S (5D)4D	79246.170	1.5	4SP(5S)6P	141.7022	-3.215	21711.917	3.5	D6S (3H)4H	92282.460	3.5	48P(5G)4F
141.1399	-4.732	8391.938	2.5	D6S (3H)4H	92432.136	5.5	4SP(5D)6F	141.7119	-3.902	8680.454	1.5	D6S (5D)4D	79246.170	1.5	48P(5S)6P
141.1424	-1.723	22637.205	4.5	D6S (3F)4F	93487.650	3.5	4P (1D)2P	141.7123	-2.527	2430.097	3.5	D7 (5D)4F	73016.147	3.5	4P (1G)2F
141.1485	-0.923	22637.205	4.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F	141.7170	-4.906	8680.454	1.5	D6S (5D)4D	79246.170	1.5	48P(5S)6P
141.1525	-2.998	21581.638	4.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.7189	-4.721	21711.917	3.5	D6S (3H)4H	92274.120	2.5	4P (3F)4P
141.1722	-3.636	21812.055	1.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D	141.7228	-4.554	16369.960	3.5	D7 (5D)2G	86929.649	3.5	4P (3P)4D
141.2033	-2.289	21430.359	5.5	D6S (3H)4H	92250.210	6.5	4SP(5G)4H	141.7362	-8.429	20516.960	2.5	D7 (5D)2D	91070.547	2.5	5P (5D)4F
141.2222	-3.356	25428.784	5.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	141.7402	-4.431	25805.328	4.5	D6S (3G)4G	96356.960	3.5	48P(3G)2F
141.2249	-3.918	23031.300	1.5	D6S (3F)4F	93840.340	1.5	4SP(3G)2H	141.7469	-1.762	22939.358	2.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F
141.2436	-4.136	23031.300	1.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	141.7504	-4.000	21812.055	1.5	D6S (3P)4P	92358.610	1.5	48P(5G)4F
141.2842	-1.642	1872.567	4.5	D7 (5D)4F	72651.876	3.5	4P (3D)4D	141.7581	-6.189	21308.040	1.5	D7 (5D)2D	91850.722	0.5	48P(5D)6F
141.2867	-2.603	1872.567	4.5	D7 (5D)4F	72650.658	4.5	4P (3D)4F	141.7707	-7.122	27314.922	3.5	D6S (3F)2F	97851.350	4.5	4P (1G)2H
141.3010	-3.705	27620.412	2.5	D6S (3F)2F	98391.330	3.5	4SP(5D)4D	141.7733	-0.680	21581.638	4.5	D6S (3H)4H	92116.780	4.5	48P(5G)4H
141.3252	-6.758	18360.646	1.5	D7 (5D)2P	89119.457	2.5	5P (5D)6D	141.7810	-7.235	20516.960	2.5	D7 (5D)2D	91048.256	1.5	5P (5D)4D
141.3316	-5.388	23317.633	2.5	D5S2(7S)6S	94073.240	3.5	4SP(5D)6P	141.7963	-8.302	0.000	4.5	D6S (5D)6D	70523.706	3.5	4P (3G)2G
141.3536	-3.032	20830.582	2.5	D6S (3P)4P	91575.139	2.5	5P (5D)6P	141.7983	-1.609	23317.633	2.5	D5S2(7S)6S	93840.340	1.5	48P(5D)6D
141.3578	-4.605	38164.194	2.5	D6S (1D)2D	108906.640	3.5	4SP(3G)4H	141.8081	-3.905	21812.055	1.5	D6S (3P)4P	92329.890	2.5	48P(5G)4F
141.3600	-3.717	21430.359	5.5	D6S (3H)4H	92171.716	4.5	4P (3F)2G	141.8176	-1.564	23317.633	2.5	D5S2(7S)6S	93830.979	2.5	48P(5D)6D
141.3644	-5.411	18886.780	0.5	D7 (5D)2P	89625.940	1.5	4SP(5P)6P	141.8286	-2.254	21581.638	4.5	D6S (3H)4H	92089.260	3.5	48P(5G)4H
141.3702	-0.543	21308.040	1.5	D6S (3H)4H	92166.600	5.5	4SP(5G)4H	141.8385	-5.583	21812.055	1.5	D6S (3P)4P	92314.758	0.5	5P (5D)4P
141.3716	-4.543	7955.299	3.5	D6S (5D)4D	78690.846	2.5	4P (1D)2D	141.8587	-2.148	22637.205	4.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D
141.3742	-4.666	27620.412	2.5	D6S (3F)2F	98354.660	2.5	4SP(5D)4F	141.8603	-3.425	25787.998	1.5	D6S (3P)2P	96279.490	2.5	48P(3G)2F
141.4054	-2.305	21581.638	4.5	D6S (3H)4H	92300.277	4.5	4SP(5D)6F	141.8853	-2.119	1872.567	4.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F
141.4070	-5.634	27620.412	2.5	D6S (3F)2F	98338.280	1.5	4SP(5P)4S	141.9106	-3.558	38164.194	2.5	D6S (1D)2D	108631.090	3.5	48P(3G)4G
141.4126	-4.061	21711.917	3.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.9143	-4.968	38164.194	2.5	D6S (1D)2D	108629.120	2.5	48P(3G)4G
141.4163	-2.765	2430.097	3.5	D7 (5D)4F	73143.288	3.5	4P (1G)2G	141.9203	-3.397	21812.055	1.5	D6S (3P)4P	92274.120	2.5	4P (3F)4P
141.4213	-6.931	21308.040	1.5	D7 (5D)2D	92018.729	2.5	4SP(5D)6F	141.9249	-3.115	21711.917	3.5	D6S (3H)4H	92171.716	4.5	4P (3F)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
141.9325	-1.215	22939.358	2.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	142.4717	-1.323	2430.097	3.5	D7 (5D)4F	72619.490	2.5	4P (3D)4D
141.9346	-2.388	13904.824	0.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	142.4787	-0.878	13197.948	2.5	D6S (3D)4D	101573.900	1.5	4SP(5D)4P
141.9445	-1.624	31999.048	3.5	D7 (5D)2F	102449.100	2.5	4SP(3D)2D	142.4865	-7.086	7955.299	3.5	D6S (5D)4D	78137.364	3.5	4P (1D)2F
141.9559	-6.619	18886.780	0.5	D7 (5D)2P	89331.195	1.5	5P (5D)6D	142.4944	-4.656	2837.950	2.5	D7 (5D)4F	73016.147	3.5	4P (1C)2F
141.9673	-1.859	21711.917	3.5	D6S (3H)4H	92154.165	3.5	4SP(5D)6F	142.4945	-2.564	16369.360	3.5	D7 (5D)2G	86547.490	2.5	4P (1F)2F
141.9701	-2.139	25805.328	4.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	142.5110	-4.500	23317.633	2.5	D5S2(7S)6S	93487.650	3.5	4P (3F)4F
142.0157	-3.513	38214.507	1.5	D6S (1D)2D	108629.250	2.5	4SP(3G)4G	142.5273	-5.583	26055.423	1.5	D6S (3G)4G	96217.420	3.5	4SP(5P)4D
142.0183	-7.061	21812.055	1.5	D6S (3P)4P	92225.538	1.5	5P (5D)4P	142.5283	-6.357	8680.454	1.5	D6S (5D)4D	78841.960	0.5	4P (1D)2P
142.0211	-3.506	25805.328	4.5	D6S (3G)4G	96217.420	3.5	4SP(5P)4D	142.5742	-8.128	384.790	3.5	D6S (5D)6D	70523.706	3.5	4P (3G)2G
142.0356	-2.205	21711.917	3.5	D6S (3H)4H	92116.780	4.5	4SP(5G)4H	142.6089	-9.793	20516.960	2.5	D7 (5D)2D	90638.822	2.5	5P (5D)4D
142.0368	-4.833	21812.055	1.5	D6S (3P)4P	92216.320	1.5	4P (3P)2D	142.6194	-2.043	18886.780	0.5	D7 (5D)2P	89003.460	0.5	4P (3P)2S
142.0467	-4.688	8846.768	0.5	D6S (5D)4D	79246.170	1.5	4SP(5S)6P	142.6261	-3.718	16369.360	3.5	D7 (5D)2G	86482.750	3.5	4P (1F)2F
142.0491	-3.369	16369.360	3.5	D7 (5D)2G	86767.577	2.5	4P (3P)4D	142.6270	-3.812	20516.960	2.5	D7 (5D)2D	90629.902	1.5	4P (3P)4S
142.0518	-5.566	8846.768	0.5	D6S (5D)4D	79243.600	1.5	4P (1D)2P	142.6439	-4.283	32875.646	6.5	D6S (1I)2I	102980.300	5.5	4SP(3I)4I
142.0575	-2.172	13474.411	2.5	D7 (5D)4P	83868.450	2.5	4P (1F)2D	142.6631	-6.758	21812.055	1.5	D6S (5D)6S	91915.950	1.5	4SP(5D)6F
142.0585	-1.551	26932.748	0.5	D6S (3P)2P	97326.270	1.5	4SP(3P)2P	142.6631	-6.758	8391.938	2.5	D6S (5D)4D	78487.153	1.5	4P (1D)2D
142.0673	-3.079	1872.567	4.5	D7 (5D)4F	72261.729	5.5	4P (1G)2H	142.6761	-2.519	22810.357	3.5	D6S (3F)4F	92899.200	2.5	4P (3F)4F
142.0674	-1.582	22939.358	2.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	142.6987	-4.081	23317.633	2.5	D5S2(7S)6S	93395.360	2.5	4P (3F)4F
142.0774	-5.042	20516.960	2.5	D7 (5D)2D	90901.124	2.5	5P (5D)4P	142.7011	-6.057	20516.960	2.5	D7 (5D)2D	90593.497	1.5	5P (5D)6F
142.0820	-5.691	20516.960	2.5	D7 (5D)2D	90898.873	1.5	4P (3P)4P	142.7111	-3.198	3117.461	1.5	D7 (5D)4F	73189.110	1.5	4P (3D)2P
142.0892	-5.199	20830.582	2.5	D6S (3P)4P	91208.887	1.5	5P (5D)4P	142.7133	-3.997	20830.582	2.5	D6S (3P)2P	90901.124	2.5	5P (5D)4P
142.0912	-2.739	21711.917	3.5	D6S (3H)4H	92089.260	3.5	4SP(5G)4H	142.7148	-2.603	3117.461	1.5	D7 (5D)4F	73187.280	0.5	4P (3D)2P
142.0952	-2.807	25981.629	3.5	D6S (3G)4G	96356.960	3.5	4SP(3G)2F	142.7164	-2.084	26170.181	5.5	D6S (3H)2H	96239.200	4.5	4SP(3G)2H
142.1180	-1.683	23031.300	1.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	142.7179	-3.430	20830.582	2.5	D6S (3P)4P	90599.873	1.5	4P (3P)4P
142.1234	-8.133	20805.770	4.5	D7 (5D)2H	91167.937	3.5	5P (5D)6P	142.7179	-3.430	20830.582	2.5	D6S (3P)4P	90599.873	1.5	4P (3P)4P
142.1341	-3.001	32875.646	6.5	D6S (1I)2I	103232.100	7.5	4SP(3I)4I	142.7629	-4.596	23031.300	1.5	D6S (3D)4D	101402.380	0.5	4SP(5D)4P
142.1441	-2.484	2837.950	2.5	D7 (5D)4F	73189.110	1.5	4P (3D)2P	142.7682	-3.457	22409.852	0.5	D6S (3P)4P	90386.528	4.5	5P (5D)4F
142.1720	-4.903	20830.582	2.5	D6S (3P)4P	93129.900	3.5	4P (3D)2P	142.7723	-4.713	32909.905	5.5	D6S (1I)2I	102951.500	4.5	4SP(3I)4I
142.2080	-1.387	22810.357	3.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P	142.7783	-5.456	21812.055	1.5	D6S (3P)4P	91850.722	0.5	4SP(5D)6F
142.2180	-6.904	0.000	4.5	D6S (5D)6D	70314.604	4.5	4P (3G)2G	142.7798	-1.310	31364.440	1.5	D6S (3D)4D	101402.380	0.5	4SP(5D)4P
142.2337	-5.161	21711.917	3.5	D6S (3H)4H	92018.729	2.5	4SP(5D)6F	142.7879	-1.399	31368.450	0.5	D6S (3D)4D	101402.380	0.5	4SP(5D)4P
142.2464	-4.223	2837.950	2.5	D7 (5D)4F	73143.288	3.5	4P (1G)2G	142.7931	-4.197	21812.055	1.5	D6S (3P)4P	91843.470	1.5	5P (5D)6P
142.2497	-7.178	8391.938	2.5	D6S (5D)4D	96356.960	3.5	4SP(3G)2F	142.8285	-3.698	25981.629	3.5	D6S (3G)4G	95995.690	2.5	4SP(5P)4D
142.2518	-3.264	25981.629	3.5	D6S (3G)4G	96279.490	2.5	4P (3F)4F	142.8350	-4.953	23317.633	2.5	D5S2(7S)6S	93328.480	1.5	4P (3F)4F
142.2532	-1.144	23031.300	1.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	142.8359	-6.288	8680.454	1.5	D6S (5D)4D	78690.846	2.5	4P (1D)2D
142.3141	-7.211	21308.040	1.5	D7 (5D)2D	91575.139	2.5	5P (5D)6P	142.8486	-2.228	26352.766	4.5	D6S (3H)2H	96356.960	3.5	4SP(3G)2F
142.3211	-5.378	20516.960	2.5	D7 (5D)2D	90780.621	3.5	5P (5D)4F	142.8670	-4.888	8846.768	0.5	D6S (3D)4D	78841.960	0.5	4P (1D)2P
142.3329	-5.881	1872.567	4.5	D7 (5D)4F	72130.390	4.5	4P (1G)2H	142.9071	-4.163	32875.646	6.5	D6S (1I)2I	102851.200	7.5	4SP(3I)4K
142.3334	-3.734	25981.629	3.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	142.9085	-6.024	20805.770	4.5	D7 (5D)2H	90780.621	3.5	5P (5D)4F
142.3351	-3.254	25805.328	4.5	D6S (3G)4G	96062.060	5.5	4SP(3G)2H	142.9167	-7.153	20516.960	2.5	D7 (5D)2D	90487.810	2.5	5P (5D)6F
142.3691	-3.542	20830.582	2.5	D6S (3P)4P	91070.547	2.5	5P (5D)4F	142.9276	-2.166	22637.205	4.5	D6S (3F)4F	92602.703	3.5	4P (3F)2G
142.3738	-3.627	22409.852	0.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D	142.9276	-2.166	22637.205	4.5	D6S (3F)4F	92602.703	3.5	4P (3F)2G
142.3776	-6.992	25981.629	3.5	D6S (3G)4G	96217.420	3.5	4SP(5P)4D	142.9391	-1.906	22939.358	2.5	D6S (3F)4F	92899.200	2.5	4P (3F)4D
142.4013	-2.755	26055.423	2.5	D6S (3G)4G	96217.420	3.5	4SP(3G)2F	142.9592	-6.157	20830.582	2.5	D6S (3P)4P	90780.621	3.5	5P (5D)4F
142.4060	-3.714	2430.097	3.5	D7 (5D)4F	72651.876	3.5	4P (3D)4D	142.9618	-5.933	22409.852	0.5	D6S (3P)4P	92358.610	1.5	4SP(5G)4F
142.4084	-3.607	2430.097	3.5	D7 (5D)4F	72650.658	4.5	4P (3D)4F	142.9792	-5.156	26055.423	2.5	D6S (3G)4G	95995.690	2.5	4SP(5P)4D
142.4143	-4.308	20830.582	2.5	D6S (3P)4P	91048.256	1.5	5P (5D)4D	143.0005	-7.187	384.790	3.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F
142.4158	-3.090	2837.950	2.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F	143.0167	-2.520	2430.097	3.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F
142.4278	-3.366	32909.905	5.5	D6S (1I)2I	103120.900	6.5	4SP(3I)4I	143.0286	-3.600	38214.507	1.5	D6S (1D)2D	108130.600	2.5	220DD
142.4309	-1.307	38164.194	2.5	D6S (1D)2D	108373.800	3.5	260DD	143.0515	-4.681	22409.852	0.5	D6S (3P)4P	92314.758	0.5	5P (5D)4P
142.4349	-4.368	31364.440	1.5	D6S (3D)4D	101573.900	1.5	4SP(5D)4P	143.0598	-6.919	21308.040	1.5	D7 (5D)2D	91208.887	1.5	5P (5D)4F
142.4366	-4.586	25787.598	1.5	D6S (3P)2P	95995.690	2.5	4SP(5P)4D	143.0781	-0.301	26170.181	5.5	D6S (3H)2H	96062.060	5.5	4SP(3G)2H
142.4391	-2.207	31368.450	0.5	D6S (3D)4D	101573.900	1.5	4SP(5D)4P	143.0781	-0.301	26170.181	5.5	D6S (3H)2H	96062.060	5.5	4SP(3G)2H
142.4598	-1.929	13673.185	1.5	D7 (5D)4P	83868.450	2.5	4P (1F)2D	143.0893	-0.367	26352.766	4.5	D6S (3H)2H	96239.200	4.5	4SP(3G)2H
142.4663	-1.929	22939.358	2.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D	143.0922	-2.652	22810.357	3.5	D6S (3F)4F	92895.374	2.5	4P (3P)2D
								143.1006	-5.243	20516.960	2.5	D7 (5D)2D	90397.868	3.5	5P (5D)4D
								143.1201	-4.107	20340.300	5.5	D7 (5D)2H	90211.700	5.5	4P (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
143.1272	-2.462	23031.300	1.5	D6S (3F)4F	92899.200	2.0	2.5	4P (3F)4D	143.7457	-4.769	20830.582	2.5	D6S (3P)4P	90397.868	3.5	5P (5D)4D	143.8074	-8.190	18360.646	1.5	D7 (5D)2P	87898.120	0.5	4SP(5G)6F
143.1339	-3.710	26352.766	4.5	D6S (3H)2H	96217.420	3.5	4.5	4SP(5P)4D	143.8133	-2.604	2430.097	3.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	143.8133	-2.604	2430.097	3.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P
143.1368	-7.393	21711.917	3.5	D6S (3H)4H	91575.139	2.5	2.5	5P (5D)6P	143.8133	-2.583	22637.205	4.5	D6S (3F)4F	92171.716	4.5	4P (3F)2G	143.8133	-2.583	22637.205	4.5	D6S (3F)4F	92171.716	4.5	4P (3F)2G
143.1516	-7.419	667.683	2.5	D6S (5D)6D	70523.706	3.5	3.5	4P (3G)2G	143.8198	-3.847	21308.040	1.5	D7 (5D)2D	90839.480	0.5	4P (3P)4P	143.8198	-3.847	21308.040	1.5	D7 (5D)2D	90839.480	0.5	4P (3P)4P
143.1591	-3.600	33501.253	3.5	D6S (1G)2G	103334.100	2.5	2.5	4SP(3D)2F	143.8241	-2.775	22637.205	4.5	D6S (3F)4F	92166.600	5.5	4SP(5G)4H	143.8241	-2.775	22637.205	4.5	D6S (3F)4F	92166.600	5.5	4SP(5G)4H
143.2032	-4.852	13474.411	2.5	D7 (5D)4P	83305.251	3.5	3.5	4P (1F)2G	143.8498	-3.149	22637.205	4.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F	143.8498	-3.149	22637.205	4.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F
143.2343	-3.395	22409.852	0.5	D6S (3P)4P	92225.538	1.5	1.5	5P (5D)4F	143.8558	-3.459	2837.950	2.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F	143.8558	-3.459	2837.950	2.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F
143.2379	-4.370	2837.950	2.5	D7 (5D)4F	72651.876	3.5	3.5	4P (3D)4D	143.8558	-3.459	2837.950	2.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F	143.8558	-3.459	2837.950	2.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F
143.2413	-4.752	23317.633	2.5	D5S2(7S)6S	93129.900	3.5	3.5	4P (3F)4D	143.8563	-3.237	33466.463	4.5	D6S (1G)2G	102980.300	5.5	4SP(3I)4I	143.8563	-3.237	33466.463	4.5	D6S (1G)2G	102980.300	5.5	4SP(3I)4I
143.2492	-2.668	2430.097	3.5	D7 (5D)4F	72238.513	2.5	2.5	4P (3D)4F	143.8723	-4.635	22409.852	0.5	D6S (3P)4P	91915.950	1.5	4SP(5D)6F	143.8723	-4.635	22409.852	0.5	D6S (3P)4P	91915.950	1.5	4SP(5D)6F
143.2496	-3.968	20830.582	2.5	D6S (3F)4F	90638.822	2.5	2.5	5P (5D)4D	143.8807	-3.404	3117.461	1.5	D7 (5D)4F	72619.490	2.5	4P (3D)4D	143.8807	-3.404	3117.461	1.5	D7 (5D)4F	72619.490	2.5	4P (3D)4D
143.2527	-5.087	8680.454	1.5	D6S (5D)4D	78487.153	1.5	1.5	4P (1D)2D	143.8955	-5.828	20805.770	4.5	D7 (5D)2H	90300.625	3.5	5P (5D)6F	143.8955	-5.828	20805.770	4.5	D7 (5D)2H	90300.625	3.5	5P (5D)6F
143.2532	-4.818	22409.852	0.5	D6S (3P)4P	92216.320	1.5	1.5	4P (3P)2D	143.9058	-3.473	22810.357	3.5	D6S (3F)4F	92300.277	4.5	4SP(5D)6F	143.9058	-3.473	22810.357	3.5	D6S (3F)4F	92300.277	4.5	4SP(5D)6F
143.2611	-4.209	26055.423	2.5	D6S (3G)4G	95858.050	1.5	1.5	4P (3P)4D	143.9159	-4.378	33466.463	4.5	D6S (1G)2G	102951.500	4.5	4SP(3I)4I	143.9159	-4.378	33466.463	4.5	D6S (1G)2G	102951.500	4.5	4SP(3I)4I
143.2679	-3.854	22637.205	4.5	D6S (3F)4F	92432.136	5.5	5.5	4SP(5D)6F	143.9272	-2.392	22637.205	4.5	D6S (3F)4F	92116.780	4.5	4SP(5G)4H	143.9272	-2.392	22637.205	4.5	D6S (3F)4F	92116.780	4.5	4SP(5G)4H
143.2822	-1.699	22810.357	3.5	D6S (3F)4F	92602.703	3.5	3.5	4P (3F)2G	143.9427	-1.288	22810.357	3.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4H	143.9427	-1.288	22810.357	3.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4H
143.2875	-0.851	22637.205	4.5	D6S (3F)4F	92426.980	4.5	4.5	4SP(5G)4F	143.9469	-5.078	20830.582	2.5	D6S (3P)4P	90300.625	3.5	5P (5D)6F	143.9469	-5.078	20830.582	2.5	D6S (3P)4P	90300.625	3.5	5P (5D)6F
143.2923	-5.682	7955.299	3.5	D6S (5D)4D	77742.730	2.5	2.5	4P (1D)2F	143.9600	-2.575	22810.357	3.5	D6S (3F)4F	92274.120	2.5	4P (3F)4P	143.9600	-2.575	22810.357	3.5	D6S (3F)4F	92274.120	2.5	4P (3F)4P
143.3000	-6.331	20516.960	2.5	D7 (5D)2D	90300.625	3.5	3.5	5P (5D)6F	143.9760	-6.776	21711.917	3.5	D6S (3H)4H	91167.937	3.5	5P (5D)6P	143.9760	-6.776	21711.917	3.5	5P (5D)6P			
143.3044	-2.171	2837.950	2.5	D7 (5D)4F	72619.490	2.5	2.5	4P (3D)4D	143.9842	-5.877	22637.205	4.5	D6S (3F)4F	92089.260	3.5	4SP(5G)4H	143.9842	-5.877	22637.205	4.5	D6S (3F)4F	92089.260	3.5	4SP(5G)4H
143.3423	-3.617	21812.055	1.5	D6S (3P)4P	91575.139	2.5	2.5	5P (5D)6P	143.9880	-2.957	33501.253	3.5	D6S (1G)2G	102951.500	4.5	4SP(3I)4I	143.9880	-2.957	33501.253	3.5	D6S (1G)2G	102951.500	4.5	4SP(3I)4I
143.3426	-7.487	20830.582	2.5	D6S (3F)4F	90593.497	1.5	1.5	5P (5D)6F	144.0074	-5.477	22409.852	0.5	D6S (3P)4P	91850.722	0.5	4SP(5D)6F	144.0074	-5.477	22409.852	0.5	D6S (3P)4P	91850.722	0.5	4SP(5D)6F
143.3444	-3.774	31811.822	2.5	D7 (5D)2F	101573.900	1.5	1.5	4SP(5D)4F	144.0225	-3.855	22409.852	0.5	D6S (3P)4P	91843.470	1.5	5P (5D)6P	144.0225	-3.855	22409.852	0.5	D6S (3P)4P	91843.470	1.5	5P (5D)6P
143.3568	-2.191	8391.938	2.5	D6S (5D)4D	78137.364	3.5	3.5	4P (1D)2F	144.0462	-4.728	23031.300	1.5	D6S (3F)4F	92453.460	0.5	4P (3F)4D	144.0462	-4.728	23031.300	1.5	D6S (3F)4F	92453.460	0.5	4P (3F)4D
143.3786	-9.609	143.3786	-9.609						144.0510	-3.236	30388.542	4.5	D6S (3G)2G	99808.400	3.5	4P (1G)2G	144.0510	-3.236	30388.542	4.5	D6S (3G)2G	99808.400	3.5	4P (1G)2G
143.4164	-8.028	20340.300	5.5	D7 (5D)2H	90067.347	4.5	4.5	5P (5D)6F	144.0775	-2.260	20805.770	4.5	D7 (5D)2H	90211.700	5.5	4P (3F)4G	144.0775	-2.260	20805.770	4.5	D7 (5D)2H	90211.700	5.5	4P (3F)4G
143.4259	-3.575	38164.194	2.5	D6S (1D)2D	107886.600	3.5	3.5	2000D	144.0911	-2.771	2837.950	2.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F	144.0911	-2.771	2837.950	2.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F
143.4366	-3.476	33466.463	4.5	D6S (1G)2G	103183.700	3.5	3.5	4SP(3D)2F	144.0988	-5.792	21812.055	1.5	D6S (3P)4F	92329.890	2.5	4SP(5G)4F	144.0988	-5.792	21812.055	1.5	D6S (3P)4F	92329.890	2.5	4SP(5G)4F
143.4529	-2.837	26352.766	4.5	D6S (3H)2H	96062.060	5.5	5.5	4SP(3G)2H	144.1119	-1.519	22939.358	2.5	D6S (3F)4F	91199.746	0.5	5P (5D)4D	144.1119	-1.519	22939.358	2.5	D6S (3F)4F	91199.746	0.5	5P (5D)4D
143.4552	-2.762	22939.358	2.5	D6S (3F)4F	92647.510	1.5	1.5	4P (3F)4D	144.1178	-4.596	21812.055	1.5	D6S (3P)4F	92695.374	2.5	4P (3P)2D	144.1178	-4.596	21812.055	1.5	D6S (3P)4F	92695.374	2.5	4P (3P)2D
143.4669	-1.850	27620.412	2.5	D6S (3F)2F	97326.270	1.5	1.5	4SP(3F)2P	144.1384	-4.832	23317.633	2.5	D5S2(7S)6S	89890.373	3.5	4P (3F)4G	144.1384	-4.832	23317.633	2.5	D5S2(7S)6S	89890.373	3.5	4P (3F)4G
143.4714	-3.604	2430.097	3.5	D7 (5D)4F	72130.390	4.5	4.5	4P (1G)2H	144.1474	-3.465	20516.960	2.5	D7 (5D)2D	98957.120	4.5	4P (1G)2G	144.1474	-3.465	20516.960	2.5	D7 (5D)2D	98957.120	4.5	4P (1G)2G
143.4746	-5.204	18360.646	1.5	D7 (5D)2P	88059.380	2.5	2.5	4SP(3P)6D	144.1725	-3.239	22810.357	3.5	D6S (3F)4F	91070.547	1.5	5P (5D)6F	144.1725	-3.239	22810.357	3.5	D6S (3F)4F	91070.547	1.5	5P (5D)6F
143.4996	-1.565	2837.950	2.5	D7 (5D)4F	72524.566	1.5	1.5	4P (3D)4D	144.1782	-5.434	21711.917	3.5	D6S (3H)4H	91270.547	2.5	5P (5D)4F	144.1782	-5.434	21711.917	3.5	D6S (3H)4H	91270.547	2.5	5P (5D)4F
143.5082	-4.461	33501.253	3.5	D6S (1G)2G	103183.700	3.5	3.5	4SP(3D)2F	144.1945	-7.326	8391.938	2.5	D6S (5D)4D	77742.730	2.5	4P (1D)2F	144.1945	-7.326	8391.938	2.5	D6S (5D)4D	77742.730	2.5	4P (1D)2F
143.5460	-2.709	23031.300	1.5	D6S (3F)4F	92695.374	2.5	2.5	4P (3P)2D	144.2090	-4.290	22810.357	3.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F	144.2090	-4.290	22810.357	3.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F
143.5475	-2.171	22939.358	2.5	D6S (3F)4F	92602.703	3.5	3.5	4P (3F)2G	144.2105	-1.861	22939.358	2.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4F	144.2105	-1.861	22939.358	2.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4F
143.5481	-3.057	22637.205	4.5	D6S (3F)4F	92300.277	4.5	4.5	4SP(5D)6F	144.2165	-7.814	21308.040	1.5	D7 (5D)2D	90648.217	0.5	5P (5D)6F	144.2165	-7.814	21308.040	1.5	D7 (5D)2D	90648.217	0.5	5P (5D)6F
143.5601	-6.325	20830.582	2.5	D6S (3P)4P	90487.810	2.5	2.5	5P																

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
144.3537	-4.861	25805.328	4.5	D6S (3G)4G	95079.640	3.5	4P (3F)2F	145.0015	-6.432	23317.633	2.5	D5S2(7S)6S	92282.460	3.5	4SF(5G)4F	
144.3716	-7.698	384.790	3.5	D6S (5D)6D	69650.484	2.5	4SP(3G)2F	145.0020	-1.655	27314.922	3.5	D6S (3F)4F	96279.490	2.5	4SF(3G)2F	
144.3737	-0.991	90388.542	4.5	D6S (3G)2G	90653.220	4.5	4SP(3G)2G	145.0114	-4.172	21251.608	6.5	D6S (3H)4H	90211.700	5.5	4P (3F)4G	
144.3802	-8.936	20805.770	4.5	D7 (5D)2H	90067.347	4.5	5P (5D)6F	145.0160	-3.942	25805.328	4.5	D6S (3G)4G	94763.219	3.5	4SF(5D)6P	
144.3866	-4.332	23787.598	1.5	D6S (3P)2P	95046.100	2.5	4P (3F)2F	145.0190	-3.895	23317.633	2.5	D5S2(7S)6S	92274.120	2.5	4P (3P)4P	
144.3866	-4.181	21812.055	1.5	D6S (3P)4P	91070.547	2.5	5P (5D)4F	145.0197	-4.091	21430.359	5.5	D6S (3H)4H	90386.528	4.5	5P (3D)4F	
144.4010	-2.751	23787.598	1.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P	145.0293	-3.152	25787.598	1.5	D6S (3F)2F	94739.170	1.5	4SF(3G)2H	
144.4106	-3.639	30388.542	4.5	D6S (3G)2G	99635.520	3.5	4SP(3G)2G	145.0372	-2.707	33501.253	3.5	D6S (1G)2G	102449.100	2.5	4SF(3D)2D	
144.4193	-2.785	18360.646	1.5	D7 (5D)2P	92274.120	2.5	4P (3F)4P	145.0500	-8.136	667.683	2.5	D6S (5D)6D	69606.552	3.5	4P (3G)2F	
144.4218	-6.942	20805.770	4.5	D7 (5D)2H	87602.250	1.5	4SP(5G)6F	145.0860	-6.239	20516.960	2.5	D7 (5D)2D	89444.458	2.5	4SF(5P)6P	
144.4314	-4.093	20805.770	4.5	D7 (5D)2H	87602.250	1.5	4SP(5G)6F	145.0812	-6.150	21711.917	3.5	D6S (3H)4H	90638.822	2.5	5P (3D)4D	
144.4331	-4.524	21812.055	1.5	D6S (3P)4P	91048.256	1.5	5P (5D)4D	145.0840	-4.104	3117.461	1.5	D7 (5D)4F	72043.026	1.5	4P (3D)4P	
144.4366	-8.252	384.790	3.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	145.0846	-4.004	26932.748	0.5	D6S (3F)2F	95858.050	1.5	4SF(5P)4D	
144.4478	-6.725	22939.358	2.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F	145.0868	-2.461	27314.922	3.5	D6S (3F)2F	96239.200	4.5	4SF(3G)2H	
144.4841	-6.725	18360.646	1.5	D7 (5D)2P	87572.431	2.5	4SP(5G)6F	145.1017	-3.397	31483.176	3.5	D6S (3D)4D	100400.360	2.5	4SF(3P)2D	
144.4870	-4.375	20516.960	2.5	D7 (5D)2D	89727.342	2.5	4P (3F)4G	145.1104	-2.813	25787.598	1.5	D6S (3P)2P	94700.660	2.5	4P (3F)2D	
144.4981	-2.327	2837.950	2.5	D7 (5D)4F	92018.729	2.5	4SP(5D)6F	145.1212	-3.566	23317.633	2.5	D5S2(7S)6S	92225.538	1.5	5P (3D)4P	
144.5108	-6.187	21581.638	4.5	D6S (3H)4H	72043.026	1.5	4P (3D)4F	145.1292	-4.799	22939.358	2.5	D6S (3F)4F	91843.470	1.5	5P (3D)6P	
144.5207	-4.593	23031.300	1.5	D6S (3H)4H	90780.621	3.5	5P (5D)4F	145.1326	-3.219	27314.922	3.5	D6S (3F)2F	96217.420	3.5	4SF(5P)4D	
144.5312	-6.193	21711.917	3.5	D6S (3H)4H	90901.124	2.5	5P (5D)4P	145.1432	-3.546	25787.598	1.5	D6S (3P)2P	94685.090	2.5	4SF(5D)6P	
144.5400	-2.985	23031.300	1.5	D6S (3F)4F	92216.320	1.5	4P (3P)2D	145.1447	-6.892	20830.582	2.5	D6S (3P)4P	89727.342	2.5	4P (3F)4G	
144.5509	-6.564	21308.040	1.5	D7 (5D)2D	90487.810	2.5	5P (5D)6F	145.1616	-2.960	30764.485	3.5	D6S (3G)2G	99653.220	4.5	4SF(3G)2G	
144.6134	-3.470	22939.358	2.5	D6S (3F)4F	92089.260	3.5	4SP(5G)4H	145.1702	-3.931	23031.300	1.5	D6S (3F)4F	91915.950	1.5	4SF(5D)6F	
144.6618	-3.511	2837.950	2.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	145.1930	-4.277	33466.463	4.5	D6S (1G)2G	102340.300	5.5	4SF(31)4K	
144.6737	-3.909	3117.461	1.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F	145.1989	-0.870	30764.485	3.5	D6S (3G)2G	99635.520	3.5	4SF(3G)2G	
144.6793	-5.707	20805.770	4.5	D7 (5D)2H	89625.940	1.5	4SP(5P)6P	145.2271	-3.332	3117.461	1.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	
144.6990	-5.644	20516.960	2.5	D7 (5D)2D	89625.940	1.5	4SP(5P)6P	145.2725	-6.419	21812.055	1.5	D6S (3P)4P	90648.217	0.5	5P (5D)6F	
144.7220	-4.130	25981.629	3.5	D6S (3G)4G	95079.640	3.5	4P (3F)2F	145.2750	-4.524	26932.748	0.5	D6S (3P)2P	95767.700	0.5	4SF(5P)4D	
144.7272	-2.105	3117.461	1.5	D7 (5D)4F	72212.978	0.5	4P (3F)2F	145.2923	-4.069	21812.055	1.5	D6S (3P)4P	90638.822	2.5	5P (5D)4D	
144.7322	-3.934	23787.598	1.5	D6S (3P)2P	94880.740	0.5	4SP(5D)4P	145.3078	-3.344	23031.300	1.5	D6S (3F)4F	91850.722	0.5	4SF(5D)6F	
144.7407	-3.898	21812.055	1.5	D6S (3P)4P	90901.124	2.5	5P (5D)4P	145.3111	-3.839	21812.055	1.5	D6S (3H)4H	90397.868	3.5	5P (5D)4D	
144.7454	-3.828	21812.055	1.5	D6S (3P)4P	90898.873	1.5	4P (3P)4P	145.3146	-5.249	21581.638	4.5	D6S (3H)4H	90397.868	3.5	5P (5D)4D	
144.7501	-2.290	20805.770	4.5	D7 (5D)2H	89890.373	3.5	4P (3F)4G	145.3188	-6.132	20516.960	2.5	D7 (5D)2D	89331.195	1.5	5P (5D)6D	
144.7610	-4.084	22939.358	2.5	D6S (3F)4F	92018.729	2.5	4SP(5D)6F	145.3231	-5.456	23031.300	1.5	D6S (3F)4F	91843.470	1.5	5P (5D)6P	
144.7642	-5.991	18886.780	0.5	D7 (5D)2P	87964.650	1.5	4SP(5P)6D	145.3385	-7.004	21581.638	4.5	D6S (3H)4H	90386.528	4.5	5P (3D)4F	
144.7834	-5.872	21711.917	3.5	D6S (3H)4H	90780.621	3.5	5P (5D)4F	145.3509	-4.637	22409.852	2.5	D6S (3P)4P	91208.887	1.5	4SF(5P)6P	
144.7922	-4.518	25981.629	3.5	D6S (3G)4G	95046.100	2.5	4P (3F)2F	145.3586	-3.946	20830.582	2.5	D6S (3P)4P	89625.940	1.5	4SF(5P)6P	
144.7968	-7.042	8680.454	1.5	D6S (5D)4D	77742.730	2.5	4P (1D)2F	145.3702	-5.188	22409.852	0.5	D6S (3P)4P	91199.746	0.5	5P (3D)4D	
144.8021	-6.040	20830.582	2.5	D6S (3P)4P	89890.373	3.5	4P (3F)4G	145.3745	-8.808	862.613	1.5	D6S (5D)6D	69650.484	2.5	4P (3G)2F	
144.8194	-3.000	3117.461	1.5	D7 (5D)4F	72168.998	1.5	4P (3D)4F	145.3877	-4.864	25981.629	3.5	D6S (3G)4G	94763.219	3.5	4SF(5D)6P	
144.8354	-0.967	30764.485	3.5	D6S (3G)2G	99808.400	3.5	4P (1G)2G	145.3881	-5.676	21812.055	1.5	D6S (3F)4P	90593.497	1.5	5P (5D)6F	
144.8393	-0.563	27314.922	3.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	145.3998	-4.074	21430.359	5.5	D6S (3H)4H	90211.700	5.5	4P (3F)4G	
144.8415	-5.200	23317.633	2.5	D5S2(7S)6S	92358.610	1.5	4SP(5G)4F	145.4088	-4.415	21711.917	3.5	D6S (3H)4H	90487.810	2.5	5P (5D)6F	
144.8521	-3.507	38164.440	1.5	D6S (1D)2D	100400.360	2.5	4SP(3P)2D	145.4002	-4.822	36252.918	2.5	D6S (3D)2D	105028.600	3.5	4SF(31)4H	
144.8603	-3.958	38164.440	1.5	D6S (1D)2D	107196.200	2.5	180DD	145.4233	-8.825	22810.357	3.5	D6S (3F)4F	91575.139	3.5	5P (5D)6P	
144.8700	-3.101	26055.423	2.5	D6S (3P)4P	90839.480	0.5	4P (3F)4P	145.4311	-0.665	25428.784	5.5	D6S (3G)4G	94189.880	5.5	4SF(5G)4G	
144.8767	-4.321	26055.423	2.5	D6S (3G)4G	95079.640	3.5	4P (3F)2F	145.4323	-4.949	107219.500	4.5	D7 (4P)2F	38458.981	4.5	4P (5D)6D	
144.8915	-2.676	31387.948	2.5	D6S (3D)4D	100400.360	2.5	4SP(3P)2D	145.4564	-8.122	18886.780	0.5	D7 (5D)2P	87635.920	4.5	4SF(5P)6D	
144.9018	-4.220	23317.633	2.5	D5S2(7S)6S	92329.890	2.5	4SP(5G)4F	145.4680	-1.943	27620.412	2.5	D6S (3F)2F	96356.960	3.5	4SF(3G)2F	
144.9037	-6.128	18886.780	0.5	D7 (5D)2P	87898.120	0.5	4SP(5G)6F	145.4830	-8.122	18886.780	0.5	D7 (5D)2P	87635.920	4.5	4SF(5P)6D	
144.9246	-4.234	38164.440	1.5	D6S (1D)2D	107165.600	3.5	170DD	145.5035	-2.750	26352.766	4.5	D6S (3H)2H	95079.640	3.5	4P (3F)2F	
144.9430	-1.527	30764.485	3.5	D6S (3G)2G	99757.120	4.5	4P (1G)2G	145.5186	-2.182	25428.784	5.5	D6S (3G)4G	94148.510	4.5	4SF(5G)4G	
144.9471	-3.765	26055.423	2.5	D6S (3G)4G	95046.100	2.5	4P (3F)2F	145.5201	-3.874	25981.629	3.5	D6S (3G)4G	94700.660	2.5	4P (3F)2D	
144.9539	-7.027	23031.300	1.5	D6S (3F)4F	92018.729	2.5	4SP(5D)6F	145.5202	-4.202	21581.638	4.5	D6S (3H)4H	90300.625	3.5	5P (5D)6F	
144.9616	-4.396	26055.423	2.5	D6S (3G)4G	95039.200	1.5	4P (3P)2P	145.5231	-3.352	384.790	3.5	D6S (5D)6D	69102.380	2.5	4SF(5S)4P	
144.9637	-7.575	667.683	2.5	D6S (5D)6D	69650.484	2.5	4P (3G)2F	145.5276	-6.878	18886.780	0.5	D7 (5D)2P	87602.250	1.5	4SF(5G)6F	
144.9767	-3.187	22939.358	2.5	D6S (3F)4F	91915.950	1.5	4SP(5D)6F									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
145.5439	-6.259	26055.423	2.5	D6S (3G)4G	94763.219	3.5	4SP(5D)6P	146.3468	17111.917	3.5	D6S (3H)4H	146.3468	-4.369	17111.917	3.5	D6S (3H)4H	90042.779	4.5	4P (3F)4G
145.5531	-4.088	25981.629	3.5	D6S (3G)4G	94685.090	2.5	4SP(5D)6P	146.3588	31483.176	3.5	D6S (3D)4D	146.3588	-4.579	31483.176	3.5	D6S (3D)4D	99802.400	3.5	4P (1G)2G
145.5581	-2.975	23317.633	2.5	D5S2(7S)6S	92018.720	2.5	4SP(5D)6F	146.3592	977.053	0.5	D6S (5D)6D	146.3592	-3.516	977.053	0.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4P
145.5625	-3.929	38164.194	2.5	D6S (1D)2D	106863.200	3.5	160DD	146.3640	20805.770	4.5	D7 (5D)2H	146.3640	-8.411	20805.770	4.5	D7 (5D)2H	89128.561	3.5	4SP(5P)6P
145.5902	-6.205	21711.917	3.5	D6S (3H)4H	90397.868	3.5	5P (5D)4D	146.3745	21308.040	1.5	D7 (5D)2D	146.3745	-5.747	21308.040	1.5	D7 (5D)2D	89625.940	1.5	4SP(5P)6P
145.5949	-4.627	26055.423	2.5	D6S (3G)4G	94739.170	2.5	4SP(5P)4P	146.3942	21581.638	4.5	D6S (3H)4H	146.3942	-3.971	21581.638	4.5	D6S (3H)4H	89890.373	3.5	4P (3F)4G
145.6012	-5.405	27314.922	3.5	D6S (3F)2F	95995.690	2.5	4SP(5P)4D	146.4172	20830.582	2.5	D6S (3P)4P	146.4172	-5.022	20830.582	2.5	D6S (3P)4P	9128.561	3.5	4SP(5P)6P
145.6118	-5.946	21812.055	1.5	D6S (3P)4P	90487.810	2.5	5P (5D)6F	146.4367	20830.582	2.5	D6S (3P)4P	146.4367	-3.835	20830.582	2.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D
145.6142	-6.860	21711.917	3.5	D6S (3H)4H	90386.528	4.5	5P (5D)4F	146.4468	20340.300	5.5	D7 (5D)2H	146.4468	-6.816	20340.300	5.5	D7 (5D)2H	89614.520	4.5	4SP(5P)6D
145.6186	-3.796	21231.608	6.5	D6S (3H)4H	89924.175	5.5	5P (5D)6F	146.4688	31483.176	3.5	D6S (3D)4D	146.4688	-4.684	31483.176	3.5	D6S (3D)4D	99757.120	4.5	4P (1G)2G
145.6472	-0.695	27620.412	2.5	D6S (3F)2F	96279.490	2.5	4SP(3G)2F	146.4782	22939.358	2.5	D6S (3F)4F	146.4782	-3.278	22939.358	2.5	D6S (3F)4F	91208.887	1.5	5P (5D)4F
145.6640	-4.166	1872.567	4.5	D7 (5D)4F	70523.706	3.5	4P (3G)2G	146.4817	22810.357	3.5	D6S (3G)4G	146.4817	-2.065	22810.357	3.5	D6S (3G)4G	94073.240	3.5	4SP(5G)4G
145.6765	-5.823	26055.423	2.5	D6S (3G)4G	94700.660	2.5	4P (3F)2D	146.4983	2317.633	2.5	D5S2(7S)6S	146.4983	-3.510	2317.633	2.5	D5S2(7S)6S	91070.547	2.5	5P (5D)6P
145.6910	-4.247	22409.852	0.5	D6S (3P)4P	91048.256	1.5	5P (5D)4D	146.5040	2830.163	2.5	D6S (3F)4F	146.5040	-0.606	2830.163	2.5	D6S (3F)4F	91575.139	2.5	5P (5D)6P
145.6940	-4.378	21430.359	5.5	D6S (3H)4H	90067.347	4.5	5P (5D)6F	146.5149	23805.328	4.5	D6S (3G)4G	146.5149	-3.521	23805.328	4.5	D6S (3G)4G	94057.773	4.5	4SP(5D)6D
145.6966	-5.896	22939.358	2.5	D6S (3F)4F	91575.139	2.5	5P (5D)6P	146.5335	25787.598	1.5	D6S (3P)2P	146.5335	-4.268	25787.598	1.5	D6S (3P)2P	94031.378	0.5	4SP(5D)6D
145.6995	-4.320	667.683	2.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4P	146.5421	862.613	1.5	D6S (5D)6D	146.5421	-3.550	862.613	1.5	D6S (5D)6D	99102.380	2.5	4SP(5S)4P
145.7087	-4.134	21581.638	4.5	D6S (3H)4H	90211.700	5.5	4P (3F)4G	146.5451	22409.852	0.5	D6S (3P)4P	146.5451	-6.607	22409.852	0.5	D6S (3P)4P	90648.217	0.5	5P (5D)6F
145.7096	-4.273	26055.423	2.5	D6S (3G)4G	94685.090	2.5	4SP(5D)6P	146.5467	27620.412	2.5	D6S (3F)2F	146.5467	-4.517	27620.412	2.5	D6S (3F)2F	95858.050	1.5	4SP(5P)4D
145.7110	-3.304	25428.784	5.5	D6S (3G)4G	94037.773	4.5	4SP(5D)6D	146.5629	23981.629	3.5	D6S (3G)4G	146.5629	-4.879	23981.629	3.5	D6S (3G)4G	94211.739	2.5	4SP(5P)4P
145.7431	-3.776	20830.582	2.5	D6S (3P)4P	89444.458	2.5	4SP(5P)6P	146.5661	22939.358	2.5	D6S (3F)4F	146.5661	-5.526	22939.358	2.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P
145.7462	-4.469	21430.359	5.5	D6S (3H)4H	90042.779	4.5	4P (3F)4G	146.5845	22409.852	0.5	D6S (3P)4P	146.5845	-4.205	22409.852	0.5	D6S (3P)4P	90629.902	1.5	4P (3P)4S
145.7479	-7.987	20516.960	2.5	D7 (5D)2D	89128.561	3.5	4SP(5P)6P	146.6101	30388.542	4.5	D6S (3G)2G	146.6101	-2.828	30388.542	4.5	D6S (3G)2G	98596.160	4.5	4SP(5D)4F
145.7673	-6.442	20516.960	2.5	D7 (5D)2D	89119.457	2.5	5P (5D)6D	146.6263	23787.598	1.5	D6S (3P)2P	146.6263	-4.589	23787.598	1.5	D6S (3P)2P	93988.170	2.5	4SP(5G)4G
145.7790	-4.400	27620.412	2.5	D6S (3F)2F	96217.420	3.5	4SP(5P)4D	146.6627	22409.852	0.5	D6S (3P)2P	146.6627	-5.827	22409.852	0.5	D6S (3P)2P	86547.490	2.5	4P (1F)2F
145.7966	-6.252	21711.917	3.5	D6S (3H)4H	90326.925	3.5	4SP(5S)4P	146.6634	18360.646	1.5	D7 (5D)2P	146.6634	-2.434	18360.646	1.5	D7 (5D)2P	86543.974	1.5	4P (3P)4D
145.8484	-4.612	862.613	1.5	D6S (5D)6D	69426.980	0.5	4SP(5S)4P	146.6739	23805.328	4.5	D6S (3G)4G	146.6739	-4.569	23805.328	4.5	D6S (3G)4G	93987.457	3.5	4SP(5D)6D
145.8588	-4.866	107219.500	4.5	4P2(7P)8P	38660.043	3.5	4P (5D)6D	146.6793	21711.917	3.5	D6S (3H)4H	146.6793	-5.455	21711.917	3.5	D6S (3H)4H	89890.373	3.5	4P (3F)4G
145.8920	-6.892	23031.300	1.5	D6S (3F)4F	91575.139	2.5	5P (5D)6P	146.6798	23031.300	1.5	D6S (3P)4P	146.6798	-3.245	23031.300	1.5	D6S (3P)4P	91208.887	1.5	5P (5D)4F
145.9199	-6.205	22637.205	4.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P	146.6920	106836.000	3.5	4P2(7P)8P	146.6920	-4.278	106836.000	3.5	4P2(7P)8P	38660.043	3.5	4P (5D)6D
145.9304	-0.861	23317.633	2.5	D5S2(7S)6S	91843.470	1.5	5P (5D)6P	146.6920	31483.176	3.5	D6S (3D)4D	146.6920	-4.945	31483.176	3.5	D6S (3D)4D	99653.220	4.5	4SP(3G)2G
145.9637	-2.448	30388.542	4.5	D6S (3G)2G	89898.710	3.5	4P (1G)2F	146.6954	23031.300	1.5	D6S (3F)4F	146.6954	-4.669	23031.300	1.5	D6S (3F)4F	91199.746	0.5	5P (5D)4D
145.9841	-4.000	20830.582	2.5	D6S (3P)4P	89331.195	1.5	5P (5D)6D	146.6988	23981.629	3.5	D6S (3G)4G	146.6988	-1.693	23981.629	3.5	D6S (3G)4G	94148.510	4.5	4SP(5G)4G
145.9986	-5.955	21430.359	5.5	D6S (3H)4H	89924.175	5.5	5P (5D)6F	146.7065	21308.040	1.5	D7 (5D)2D	146.7065	-6.623	21308.040	1.5	D7 (5D)2D	89471.365	0.5	5P (5D)6D
146.0088	-3.478	22409.852	0.5	D6S (3P)4P	90898.873	1.5	4P (3P)4P	146.7215	26055.423	2.5	D6S (3G)4G	146.7215	-4.056	26055.423	2.5	D6S (3G)4G	94211.739	2.5	4SP(5P)4P
146.0159	-5.147	21581.638	4.5	D6S (3H)4H	90067.347	4.5	5P (5D)6F	146.7409	30388.542	4.5	D6S (3G)2G	146.7409	-3.664	30388.542	4.5	D6S (3G)2G	98535.850	3.5	4SP(5D)4F
146.0683	-4.608	21581.638	4.5	D6S (3H)4H	90042.779	4.5	4P (3F)4G	146.7493	22637.205	4.5	D6S (3F)4F	146.7493	-3.780	22637.205	4.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F
146.0922	-5.167	977.053	0.5	D6S (5D)6D	69426.980	0.5	4SP(5S)4P	146.7644	21308.040	1.5	D7 (5D)2D	146.7644	-8.245	21308.040	1.5	D7 (5D)2D	89444.458	2.5	4SP(5P)6P
146.1090	-3.737	1872.567	4.5	D7 (5D)4F	70314.604	4.5	4P (3G)2G	146.7691	30764.485	3.5	D6S (3G)2G	146.7691	-2.979	30764.485	3.5	D6S (3G)2G	98898.710	3.5	4P (1G)2F
146.1145	-3.580	862.613	1.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4P	146.7757	23939.358	2.5	D6S (3F)4F	146.7757	-3.357	23939.358	2.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F
146.1247	-3.211	667.683	2.5	D6S (5D)6D	69102.380	2.5	4SP(5S)4P	146.8237	22939.358	2.5	D6S (3F)4F	146.8237	-4.096	22939.358	2.5	D6S (3F)4F	91048.256	1.5	5P (5D)4D
146.1355	-3.729	22409.852	0.5	D6S (3P)4P	90839.480	0.5	4P (3P)4P	146.8290	26932.748	0.5	D6S (3P)2P	146.8290	-2.873	26932.748	0.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P
146.1472	-3.269	25787.598	1.5	D6S (3P)2P	94211.739	2.5	4SP(5P)4D	146.8567	2430.097	3.5	D7 (5D)4F	146.8567	-4.466	2430.097	3.5	D7 (5D)4F	70523.706	3.5	4P (3G)2G
146.1551	-4.582	31387.948	2.5	D6S (3D)4D	99808.400	3.5	4P (1G)2G	146.8610	25981.629	3.5	D6S (3G)4G	146.8610	-1.065	25981.629	3.5	D6S (3G)4G	94073.240	3.5	4SP(5G)4G
146.1576	-3.256	21308.040	1.5	D7 (5D)2D	89727.342	2.5	4P (3F)4G	146.8628	22810.357	3.5	D6S (3F)4F	146.8628	-4.499	22810.357	3.5	D6S (3F)4F	90901.124	2.5	5P (5D)4F
146.1765	-7.469	26352.766	4.5	D6S (3H)2H	94763.219	3.5	4SP(5D)6P	146.8943	25428.784	5.5	D6S (3G)4G	146.8943	-4.499	25428.784	5.5	D6S (3G)4G	94057.773	4.5	4SP(5D)6D
146.1840	-1.868	18360.646	1.5	D7 (5D)2P	86767.577	2.5	4P (3P)4D	146.9383	146.9383	-1.298	25787.598	1.5	D6S (3P)						

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
147.0222	-3.396	23031.300	1.5	D6S (3F)4F	91048.256	1.5	5P (3D)4D	147.0222	-3.863	21308.040	1.5	D7 (5D)2D	89003.460	0.5	4P (3F)2S
147.0255	-3.854	21711.917	3.5	D6S (3H)4H	89727.342	2.5	5P (3F)4F	147.7269	-6.211	20516.960	2.5	D7 (5D)2D	88209.450	3.5	4SP (5F)6D
147.0447	-2.133	25981.629	3.5	D6S (3G)4G	93988.170	2.5	4SP (5G)4G	147.7311	-7.691	22939.358	2.5	D6S (3F)4F	90629.902	1.5	4P (3F)4S
147.0462	-4.951	25981.629	3.5	D6S (3G)4G	93987.457	3.5	4SP (5D)6D	147.7416	-3.123	2837.950	2.5	D7 (5D)4F	70523.760	3.5	4P (3F)2G
147.0528	-2.407	30388.542	4.5	D6S (3G)2G	98391.330	3.5	4SP (5D)4D	147.7491	-1.680	25805.328	4.5	D6S (3G)4G	93487.650	3.5	4P (3F)4F
147.0571	-7.234	0.000	4.5	D6S (5D)6D	68000.788	4.5	4P (3G)2F	147.7558	-1.680	25805.328	4.5	D6S (3G)4G	93484.580	4.5	4P (3F)4F
147.0662	-1.286	31811.822	2.5	D7 (5D)2F	99808.400	3.5	4P (1G)2G	147.7597	-3.646	22810.357	3.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F
147.1057	-4.691	26170.181	5.5	D6S (3H)2H	94148.510	4.5	4SP (5G)4G	147.7903	-3.408	22637.205	4.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F
147.1085	-4.501	106836.000	3.5	4P2 (7P)8P	38858.958	2.5	4P (5D)6D	147.7993	-4.308	21812.055	1.5	D6S (3F)4F	89471.365	0.5	5P (5D)6D
147.1232	-3.393	22810.357	3.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F	147.8039	-2.285	18886.780	0.5	D7 (5D)2P	86543.974	1.5	4P (3F)4D
147.1416	-3.957	22939.358	2.5	D6S (3F)4F	90901.124	2.5	5P (5D)4F	147.8105	-0.735	31999.048	3.5	D7 (5D)2F	99635.220	4.5	4SP (3G)2G
147.1456	-5.381	7955.299	3.5	D6S (3D)2F	75915.215	2.5	4P (3D)2F	147.8106	-4.457	22939.358	2.5	D6S (3F)4F	90593.497	1.5	5P (5D)6F
147.1464	-5.773	22939.358	2.5	D6S (3D)4D	90898.873	1.5	4P (3F)4F	147.8292	-4.961	7955.299	3.5	D6S (5D)4D	75600.931	3.5	4P (3D)2F
147.1714	-3.426	26932.748	0.5	D6S (3P)2P	94880.740	0.5	4SP (5P)4P	147.8344	-1.641	31364.440	1.5	D6S (3D)4D	99007.700	0.5	4SP (5D)4D
147.2064	-1.159	26055.423	2.5	D6S (3G)4G	93988.170	2.5	4SP (5G)6D	147.8432	-1.565	31368.450	0.5	D6S (3D)4D	99007.700	0.5	4SP (5D)4D
147.2372	-8.919	20805.770	4.5	D7 (5D)2H	88723.400	4.5	5P (5D)6D	147.8492	-1.565	31368.450	0.5	D6S (3D)4D	99007.700	0.5	4SP (5D)4D
147.2423	-7.838	21812.055	1.5	D6S (3P)4P	89727.342	2.5	4P (3F)4F	147.8531	-6.284	26352.766	4.5	D6S (3H)2H	93987.457	3.5	4SP (5D)6D
147.2819	-6.027	8680.454	1.5	D6S (5D)4D	96577.482	0.5	4P (1S)2P	147.8581	-4.416	147.8581	-4.416	4P (1S)2P	93987.457	3.5	4SP (5D)6D
147.2966	-2.784	30388.542	4.5	D6S (3G)2G	98278.770	5.5	4P (1G)2H	147.8703	-3.433	30764.485	3.5	D6S (3G)2G	98391.330	3.5	4SP (5D)4D
147.3023	-3.027	26170.181	5.5	D6S (3H)2H	91208.887	1.5	5P (5D)4F	147.8920	-5.582	23031.300	1.5	D6S (3F)4F	90648.217	0.5	5P (5D)6F
147.3409	-4.486	23031.300	1.5	D6S (3F)4F	94057.773	4.5	4SP (5D)6D	147.8940	-7.736	384.790	3.5	D6S (5D)6D	68000.788	4.5	4P (3G)2H
147.3458	-4.873	23031.300	1.5	D6S (3F)4F	90901.124	2.5	5P (5D)4P	147.9120	-6.003	25787.598	1.5	D6S (3P)2P	93395.360	2.5	4P (3F)4F
147.3833	-0.414	23317.633	2.5	D5S2 (7S)6S	91167.873	3.5	5P (5D)6P	147.9125	-4.433	23031.300	1.5	D6S (3F)4F	90629.902	1.5	4P (3F)4S
147.4029	-3.839	25981.629	3.5	D6S (3G)4G	93830.979	2.5	4SP (5D)6D	147.9215	-6.643	23031.300	1.5	D6S (3F)4F	98354.660	2.5	4SP (5D)4F
147.4119	-4.595	36126.387	1.5	D6S (3D)2D	90780.621	3.5	5P (5D)4F	147.9255	-3.846	30764.485	3.5	D6S (3G)2G	98391.330	3.5	4SP (5D)4D
147.4227	-4.328	20764.485	3.5	D6S (3G)2G	98596.650	4.5	4SP (5D)4F	147.9563	-5.873	22810.357	3.5	D6S (3F)4F	90397.868	3.5	5P (5D)4P
147.4307	-3.585	22810.357	3.5	D6S (3F)4F	90638.822	2.5	5P (5D)4D	147.9651	-3.302	23317.633	2.5	D5S2 (7S)6S	90901.124	2.5	5P (5D)4P
147.4411	-1.307	31811.822	2.5	D7 (5D)2F	99635.520	3.5	4SP (3G)2G	147.9701	-3.211	23317.633	2.5	D5S2 (7S)6S	90898.878	4.5	4P (3G)2H
147.4624	-5.785	21812.055	1.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D	147.9812	-3.912	22810.357	3.5	D6S (3F)4F	90386.528	4.5	5P (5D)4F
147.4678	-9.250	21308.040	1.5	D7 (5D)2D	94189.880	0.5	4SP (5G)4G	147.9848	-2.141	22637.205	4.5	D6S (3F)4F	90386.528	4.5	5P (5D)4F
147.4723	-1.377	31999.048	3.5	D7 (5D)2H	9808.450	3.5	4P (1G)2G	148.0118	-4.009	23031.300	1.5	D6S (3F)4F	90593.497	1.5	5P (5D)6F
147.4736	-8.522	20805.770	4.5	D7 (5D)2H	88614.520	4.5	4SP (5P)6P	148.0452	-5.966	22939.358	2.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F
147.4748	-7.035	23031.300	1.5	D6S (3F)4F	90839.480	0.5	4P (3P)4P	148.0551	-5.493	20516.960	2.5	D7 (5D)2D	88059.380	2.5	4SP (5F)6D
147.4787	-3.729	26932.748	0.5	D6S (3P)2P	94739.170	1.5	4SP (5P)4P	148.0581	-7.174	25787.598	1.5	D6S (3P)2P	93328.480	1.5	4P (3D)2F
147.5019	-2.950	26352.766	4.5	D6S (3H)2H	94148.510	4.5	4SP (5G)4G	148.0971	-6.322	8391.938	2.5	D6S (5D)4D	75915.215	2.5	4P (3D)2F
147.5254	-4.491	26055.423	2.5	D6S (3G)4G	93840.340	1.5	4SP (5D)6D	148.1062	-4.726	21812.055	1.5	D6S (3P)4P	89331.195	1.5	5P (5D)6D
147.5458	-4.639	26055.423	2.5	D6S (3G)4G	93830.979	2.5	4SP (5D)6D	148.1123	-6.370	0.000	4.5	D6S (5D)6D	67516.332	5.5	4P (3G)2H
147.5549	-3.285	30764.485	3.5	D6S (3G)2G	98535.850	3.5	4SP (5D)4F	148.1349	-1.817	25981.629	3.5	D6S (3G)4G	93487.810	3.5	4P (3F)4F
147.5694	-1.180	27314.922	3.5	D6S (3F)2F	95079.640	3.5	4P (3F)2F	148.1441	-3.384	16369.360	3.5	D7 (5D)2G	83871.184	4.5	4P (1F)2G
147.5782	-4.107	22637.205	4.5	D6S (3F)4F	90397.868	3.5	5P (5D)4D	148.1501	-3.747	16369.360	3.5	D7 (5D)2G	83868.450	2.5	4P (1F)2D
147.5839	-1.251	31999.048	3.5	D7 (5D)2H	99579.120	4.5	4P (1G)2G	148.1695	-3.372	22810.357	3.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F
147.5951	-3.405	23317.633	2.5	D5S2 (7S)6S	91070.547	2.5	5P (5D)4F	148.2294	-4.025	23317.633	2.5	D5S2 (7S)6S	90780.621	3.5	5P (5D)4F
147.6030	-3.105	22637.205	4.5	D6S (3F)4F	90386.528	4.5	5P (5D)4F	148.2347	-4.094	15844.650	4.5	D7 (5D)2G	83305.251	3.5	4P (1G)2H
147.6219	-3.066	30764.485	3.5	D6S (3G)2G	98505.100	2.5	4SP (5D)4D	148.2377	-2.668	27620.412	2.5	D6S (3F)2F	95079.640	3.5	4P (3F)2F
147.6364	-4.383	1872.956	4.5	D7 (5D)4F	69606.552	3.5	4P (3G)2F	148.2437	-5.193	22939.358	2.5	D6S (3F)4F	90397.868	3.5	5P (5D)4D
147.6395	-7.050	21711.917	3.5	D6S (3H)4H	76129.446	1.5	4P (1S)2P	148.2602	-4.325	23031.300	1.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F
147.6425	-2.408	27314.922	3.5	D6S (3F)2F	69606.552	3.5	4P (3G)2F	148.2617	-5.648	27314.922	3.5	D6S (3F)2F	94763.219	3.5	4SP (5D)6P
147.6435	-4.830	8846.768	0.5	D6S (5D)4D	89444.458	2.5	4SP (5P)6P	148.2630	-6.475	20516.960	2.5	D7 (5D)2D	87964.650	1.5	4SP (3F)6D
147.6437	-4.169	23317.633	2.5	D5S2 (7S)6S	95046.100	2.5	4P (3F)2P	148.2670	-3.005	26055.423	2.5	D6S (3G)4G	93487.810	3.5	4P (3F)4F
147.6658	-3.679	26352.766	4.5	D6S (3H)2H	76577.482	0.5	4P (1S)2P	148.2930	-3.845	22637.205	4.5	D6S (3F)4F	90067.347	4.5	5P (5D)6F
147.6996	-5.632	26352.766	4.5	D6S (3H)2H	94073.240	3.5	4SP (5G)4G	148.3114	-1.296	27620.412	2.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F
147.7117	-4.165	22939.358	2.5	D6S (3H)4H	94057.773	4.5	4SP (5D)6D	148.3266	-2.448	27620.412	2.5	D6S (3F)2F	95039.200	1.5	4P (3F)2F
					90638.822	2.5	5P (5D)4D	148.3313	-7.437	21711.917	3.5	D6S (3H)4H	89128.561	3.5	4SP (5F)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
148.3338	-3.416	31483.176	3.5	D6S (3D)4D	98898.710	3.5	4P (1G)2F	149.0757	-3.500	22810.357	3.5	D6S (3G)4F	89890.373	3.5	4P (3F)4G
148.3377	-1.591	25981.629	3.5	D6S (3G)4G	93395.360	2.5	4P (3F)4F	149.0880	-3.184	26055.423	2.5	D6S (3G)4G	93129.900	3.5	4P (3F)4D
148.3514	-7.831	21711.917	3.5	D6S (3H)4H	89119.457	2.5	5P (5D)6D	149.1098	-4.619	27620.412	2.5	D6S (3F)2F	94685.090	2.5	4SP(5D)6F
148.3554	-1.311	31364.440	1.5	D6S (3D)4D	98770.140	1.5	4SP(5D)4D	149.1168	-5.116	22409.852	0.5	D6S (3F)4P	89471.365	0.5	4P (5D)6D
148.3557	-3.692	22637.205	4.5	D6S (3F)4F	90042.779	4.5	4P (3F)4G	149.1303	-7.179	20316.960	2.5	D7 (5D)2D	87572.431	2.5	4SP(5G)6F
148.3599	-7.334	20805.770	4.5	D7 (5D)2H	88209.450	3.5	4SP(5D)6D	149.1365	-1.520	31483.176	3.5	D6S (3D)4D	98535.850	3.5	4SP(5D)4F
148.3642	-1.571	31368.450	0.5	D6S (3D)4D	98770.140	1.5	4SP(5D)4D	149.1387	-2.979	105711.730	2.5	5D (5D)6S	38660.043	3.5	4P (5D)6D
148.3994	-1.767	27314.922	3.5	D6S (3F)2F	94700.660	2.5	4P (3F)2D	149.1805	-8.213	21581.638	4.5	D6S (3H)4H	88614.520	4.5	4P (5D)6D
148.4072	-1.491	31387.948	2.5	D6S (3D)4D	98770.140	1.5	4SP(5D)4D	149.2049	-1.913	31483.176	3.5	D6S (3D)4D	98505.100	2.5	4SP(5P)6D
148.4145	-6.078	20830.582	2.5	D6S (3D)4F	88209.450	3.5	4SP(5P)6D	149.2077	-5.883	20316.960	2.5	D7 (5D)2D	87537.652	3.5	4SP(5G)6F
148.4337	-3.608	27314.922	3.5	D6S (3F)2F	94685.090	2.5	4SP(5D)6D	149.2227	-4.191	449915.046	3.5	D6S (1F)2F	111929.000	2.5	290DD
148.4533	-3.929	22939.358	2.5	D6S (3F)4F	90300.825	3.5	5P (5D)6F	149.2282	-6.842	21711.917	3.5	D6S (3H)4H	88723.400	4.5	5P (5D)6D
148.5003	-1.813	26055.423	2.5	D6S (3G)4G	93395.360	2.5	4P (3F)4F	149.2462	-1.455	31387.948	2.5	D6S (3D)4D	98391.330	3.5	4SP(5D)4D
148.5342	-1.745	25805.328	4.5	D6S (3G)4G	93129.900	3.5	4P (3F)4D	149.2463	-4.046	25428.784	5.5	D6S (3G)4G	92432.136	5.5	4SP(5D)6F
148.5416	-3.417	23317.633	2.5	D5S2(7S)6S	90638.822	2.5	5P (5D)4D	149.2522	-7.991	20340.300	5.5	D7 (5D)2F	87340.983	5.5	4SP(5G)6F
148.5566	-2.716	26170.181	5.5	D6S (3H)2H	93484.580	4.5	4P (3F)4F	149.2550	-4.992	44929.550	2.5	D6S (1F)2F	111929.000	2.5	290DD
148.5613	-3.661	23317.633	2.5	D5S2(7S)6S	90629.902	1.5	4P (3F)4S	149.2578	-1.024	25428.784	5.5	D6S (3G)4G	92426.980	4.5	4SP(5G)4F
148.5721	-4.466	21812.055	1.5	D6S (3F)4F	89119.457	2.5	5P (5D)6D	149.2755	-1.666	31364.440	1.5	D6S (3D)4D	98350.660	2.5	4SP(5D)4F
148.6038	-5.662	21430.359	5.5	D6S (3H)4H	88723.400	4.5	5P (5D)6D	149.2916	-4.074	23317.633	2.5	D5S2(7S)6S	90354.625	3.5	5P (5D)6F
148.6172	-2.761	22637.205	4.5	D6S (3F)4F	89924.175	5.5	5P (5D)6F	149.3120	-2.567	31364.440	1.5	D6S (3D)4D	98338.280	1.5	4SP(5P)4S
148.6267	-4.967	8846.768	0.5	D6S (5D)4D	76129.446	1.5	4P (1S)2P	149.3210	-2.872	31368.450	0.5	D6S (3D)4D	98354.660	2.5	4SP(5D)4F
148.6417	-5.118	23317.633	2.5	D5S2(7S)6S	90593.497	1.5	5P (5D)6F	149.3279	-1.100	31387.948	2.5	D6S (3D)4D	98338.280	1.5	4SP(5P)4S
148.6479	-1.530	26035.423	2.5	D6S (3G)4G	93328.480	1.5	4P (3F)4F	149.3466	-3.460	31811.822	2.5	D7 (5D)2F	98770.140	1.5	4SP(5D)4F
148.6505	-7.043	21581.638	4.5	D6S (3H)4H	88853.533	3.5	5P (5D)6D	149.3629	-2.295	22939.358	2.5	D6S (3F)4F	89890.373	3.5	4P (3F)4G
148.6834	-4.358	22810.357	3.5	D6S (3F)4F	90067.347	4.5	5P (5D)6D	149.3645	-2.417	31387.948	2.5	D6S (3D)4D	98338.280	1.5	4SP(5P)4S
148.6919	-4.767	22637.205	4.5	D6S (3F)4F	89890.373	3.5	4P (3F)4G	149.3967	-2.150	16369.360	3.5	D7 (5D)2G	83305.251	3.5	4P (1G)2F
148.7326	-7.433	8680.454	1.5	D6S (5D)4D	75915.215	2.5	4P (3D)2F	149.4081	-1.751	36252.918	2.5	D6S (3D)2D	103183.700	3.5	4SP(3D)2F
148.7378	-2.168	22810.357	3.5	D6S (3F)4F	90042.779	4.5	4P (3F)4G	149.4292	-4.339	22409.852	0.5	D6S (3P)4F	98331.195	1.5	5P (5D)6D
148.7458	-4.985	20830.582	2.5	D6S (3P)4F	88059.380	2.5	4SP(5P)6D	149.4376	-2.216	25981.629	3.5	D6S (3G)4G	92899.200	2.5	4P (3F)4D
148.7739	-4.770	22409.852	0.5	D6S (3P)4F	89625.940	1.5	4SP(5P)6P	149.4586	-0.623	22810.357	3.5	D6S (3F)4F	89727.342	2.5	4P (3F)4G
148.7896	-6.582	8391.938	2.5	D6S (5D)4D	75600.931	3.5	4P (3D)2F	149.4599	-3.009	25787.598	1.5	D6S (3D)4D	98391.330	3.5	4SP(5D)4D
148.7924	-2.149	36126.387	1.5	D6S (3D)2D	103334.100	2.5	4SP(3D)2F	149.4788	-2.708	33501.253	3.5	D6S (1G)2I	92300.277	4.5	4SP(5D)6F
148.8286	-5.749	21812.055	1.5	D6S (3P)4F	89003.460	0.5	4P (3P)2S	149.4839	-3.905	27314.922	3.5	D6S (3F)2F	94211.739	2.5	4SP(5P)4F
148.8446	-5.252	21430.359	5.5	D6S (3H)4H	88614.520	4.5	4SP(5P)6F	149.5406	-2.717	25428.784	5.5	D6S (3G)4G	92300.277	4.5	4SP(5D)6F
148.8617	-4.599	2430.097	3.5	D7 (5D)4F	69606.552	3.5	4P (3G)2F	149.5406	-1.719	31483.176	3.5	D6S (3D)4D	98354.660	2.5	4SP(5D)4F
148.8756	-4.260	23317.633	2.5	D5S2(7S)6S	90487.810	2.5	5P (5D)6F	149.5665	-4.605	25787.598	1.5	D6S (3P)2P	92647.510	1.5	4P (3F)4D
148.9242	-1.976	25981.629	3.5	D6S (3G)4G	93129.900	3.5	4P (3F)4D	149.5824	-2.586	105711.730	2.5	5D (5D)6S	38858.958	2.5	4P (5D)6D
148.9250	-2.943	31387.948	2.5	D6S (3F)2F	98535.850	3.5	4SP(5D)4F	149.5949	-2.833	32909.905	5.5	D6S (1I)2I	99757.120	4.5	4P (1G)2G
148.9363	-7.236	27620.412	2.5	D6S (3H)4H	88723.400	4.5	5P (5D)6D	149.6026	-2.575	26055.423	2.5	D6S (3G)4G	92899.200	2.5	4P (3F)4D
148.9389	-6.456	21711.917	3.5	D6S (3H)4H	88853.533	3.5	4SP(5D)4D	149.6254	-3.715	27314.922	3.5	D6S (3F)2F	94148.510	4.5	4SP(5G)4G
148.9410	-1.711	31364.440	1.5	D6S (3D)4D	98505.100	2.5	4SP(5D)4D	149.6254	-3.715	27314.922	3.5	D6S (3F)2F	94148.510	4.5	4SP(5G)4G
148.9539	-3.663	26352.766	4.5	D6S (3H)2H	93487.650	3.5	4P (3F)4F	149.6299	-2.906	31364.440	1.5	D6S (3D)4D	98196.000	1.5	4SP(5D)4F
148.9557	-5.641	20830.582	2.5	D6S (3P)4F	87964.650	1.5	4SP(5P)6D	149.6389	-3.696	31368.450	0.5	D6S (3D)4D	98196.000	1.5	4SP(5D)4F
148.9607	-4.423	26352.766	4.5	D6S (3H)2H	93484.580	4.5	4P (3F)4F	149.6526	-0.853	25428.784	5.5	D6S (3G)4G	92250.210	6.5	4SP(5G)4H
148.9614	-5.931	20340.300	5.5	D7 (5D)2H	8471.765	4.5	4SP(5G)6F	149.6660	-3.952	109473.650	4.5	4SD(7S)8D	42658.224	3.5	4P (5D)6P
148.9896	-3.877	27620.412	2.5	D6S (3F)2F	94739.170	1.5	4SP(5P)4F	149.6725	-4.573	2837.950	2.5	D7 (5D)4F	9650.484	2.5	4P (3G)2F
148.9932	-1.332	31387.948	2.5	D6S (3D)4D	98505.100	2.5	4SP(5D)4D	149.6826	-3.206	31387.948	2.5	D6S (3D)4D	98196.000	1.5	4SP(5D)4F
149.0014	-6.921	31483.176	3.5	D6S (3D)4D	98596.650	4.5	4SP(5D)4F	149.6894	-4.154	109463.220	3.5	4SD(7S)8D	42658.224	3.5	4P (5D)6P
149.0055	-2.730	25787.598	1.5	D6S (3P)2P	92899.200	2.5	4P (3F)4D	149.7065	-1.707	25805.328	4.5	D6S (3G)4G	92602.703	3.5	4P (3F)2G
149.0343	-3.921	26932.748	0.5	D6S (3P)2P	94031.378	0.5	4SP(5D)6D	149.7073	-4.635	109455.250	2.5	4SD(7S)8D	42658.224	3.5	4P (5D)6P
149.0604	-1.008	31811.822	2.5	D7 (5D)2F	98898.710	3.5	4P (1G)2H	149.7241	-3.469	105449.540	3.5	5D (5D)4G	38660.043	3.5	4P (5D)6D
149.0605	-2.791	30764.485	3.5	D6S (3G)2G	87851.350	4.5	4P (1G)2H	149.7275	-3.529	22939.358	2.5	D6S (3F)4F	89727.342	2.5	4P (3F)4G
149.0640	-7.247	20516.960	2.5	D7 (5D)2D	87602.250	1.5	4SP(5G)6F	149.7519	-3.790	26352.766	4.5	D6S (3P)2H	93129.900	3.5	4P (3F)4D
149.0731	-2.209	36252.918	2.5	D6S (3D)2D	103334.100	2.5	4SP(3D)2F	149.7638	-3.522	105630.750	2.5	5D (5D)4G	38858.958	2.5	4P (5D)6D
149.0752	-2.834	27620.412	2.5	D6S (3F)2F	94700.660	2.5	4P (3F)2D	149.7641	-5.202	20830.582	2.5	D6S (3P)4F	87602.250	1.5	4SP(5G)6F
149.0752	-3.326	23317.633	2.5	D5S2(7S)6S	90397.868	3.5	5P (5D)6D								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
149.7710	-5.011	2837.950	2.5	D7	(5D)4F	69606.552	3.5	4P	(3G)2F	150.3874	-3.698	25805.328	4.5	D6S	(3G)4G
149.7941	-3.280	27314.922	3.5	D6S	(3F)2F	94073.240	3.5	4SP	(5G)4G	150.3955	-5.116	22637.205	4.5	D6S	(3F)4F
149.8079	-3.185	105211.140	4.5	5D	(5D)4G	88458.981	4.5	4P	(5P)6D	150.4064	-4.617	25787.598	1.5	D6S	(3P)2F
149.8079	-6.642	21308.040	1.5	D7	(5D)2D	88059.380	2.5	4SP	(5P)6D	150.4277	-1.419	25805.328	4.5	D6S	(3G)4G
149.8277	-3.045	32909.905	5.5	D6S	(11)2I	99653.220	4.5	4SP	(3G)2G	150.4571	-7.629	2837.950	2.5	D7	(5D)4F
149.8286	-2.225	25428.784	5.5	D6S	(3G)4G	92171.716	4.5	4P	(3F)2G	150.4585	-6.327	0.000	4.5	D6S	(5D)6D
149.8288	-7.703	27314.922	3.5	D6S	(3F)2F	94057.773	4.5	4SP	(5P)6D	150.4827	-4.714	27620.412	2.5	D6S	(3F)2F
149.8310	-4.717	20830.582	2.5	D6S	(3F)4F	87572.431	2.5	4SP	(5G)6F	150.4996	-2.684	25981.629	3.5	D6S	(3G)4G
149.8348	-3.648	37227.326	0.5	D6S	(18)2S	103967.490	0.5	4SP	(3P)2H	150.5116	-6.337	23031.300	1.5	D6S	(3F)4F
149.8401	-3.932	25428.784	5.5	D6S	(3G)4G	92166.650	5.5	4SP	(5G)4H	150.5164	-4.015	25787.598	1.5	D6S	(3P)2F
149.8534	-6.568	20805.770	4.5	D7	(5D)2H	87537.652	3.5	4SP	(5G)6F	150.5373	-4.304	25787.598	1.5	D6S	(3P)2F
149.8710	-3.334	31811.822	2.5	D7	(5D)2F	98535.850	3.5	4SP	(5D)4F	150.5701	-2.010	104873.230	3.5	5D	(5D)4D
149.8941	-2.607	25981.629	3.5	D6S	(3G)4G	92695.374	2.5	4P	(3P)2D	150.5726	-8.376	23031.300	1.5	D6S	(3F)4F
149.9091	-5.677	20830.582	2.5	D6S	(3P)4F	87537.652	3.5	4SP	(5G)6F	150.5736	-1.802	20516.960	2.5	D7	(5D)2D
149.9284	-2.655	105711.730	2.5	5D	(5D)6S	39013.206	1.5	4P	(5D)6D	150.5770	-7.271	862.613	1.5	D6S	(5D)6D
149.9339	-2.448	23031.300	1.5	D6S	(3F)4F	89727.342	2.5	4P	(3F)4G	150.5804	-6.590	23317.633	2.5	D5S2	(7S)6S
149.9479	-4.924	108804.667	3.5	5S	(3D)4D	42114.818	4.5	4P	(5D)6F	150.5808	-3.885	104868.500	4.5	5D	(5D)6G
149.9520	-3.033	25428.784	5.5	D6S	(3G)4G	92116.780	4.5	4SP	(5G)4H	150.5897	-3.147	105065.630	3.5	5D	(5D)6G
149.9552	-9.285	22939.358	2.5	D6S	(3F)4F	89625.940	1.5	4SP	(5P)6F	150.5923	-2.167	104863.430	5.5	5D	(5D)4G
149.9852	-4.431	27314.922	3.5	D6S	(3F)2F	93988.170	2.5	4SP	(5D)4G	150.6121	-3.740	26932.748	0.5	D6S	(3P)2F
149.9868	-4.756	27314.922	3.5	D6S	(3F)2F	93988.170	2.5	4SP	(5D)6D	150.6199	-4.643	31999.048	3.5	D7	(5D)2F
149.9872	-8.610	0.000	4.5	D6S	(5D)6D	66672.334	3.5	4P	(3G)4H	150.6209	-5.526	22939.358	2.5	D6S	(3F)4F
149.9874	-7.578	2430.097	3.5	D7	(5D)4F	69102.380	2.5	4SP	(5S)4P	150.6383	-3.086	31811.822	2.5	D7	(5D)2F
150.0018	-7.366	20805.770	4.5	D7	(5D)2H	87471.765	4.5	4SP	(3G)6F	150.6536	-0.651	36126.387	1.5	D6S	(3D)2D
150.0018	-5.544	25787.598	1.5	D6S	(3F)2F	92453.460	0.5	4P	(3F)4G	150.6540	-5.149	0.000	4.5	D6S	(5D)6D
150.0226	-5.939	21308.040	1.5	D7	(5D)2D	87964.650	1.5	4SP	(5P)6D	150.6756	-2.715	27620.412	2.5	D6S	(3F)2F
150.0340	-3.266	7955.299	3.5	D6S	(5D)4D	74606.841	2.5	4P	(3P)2D	150.6772	-5.875	27620.412	2.5	D6S	(3F)2F
150.0601	-2.889	26055.423	2.5	D6S	(3G)4G	92695.374	2.5	4P	(3P)2D	150.6787	-3.170	25805.328	4.5	D6S	(3G)4G
150.0733	-6.089	22810.357	3.5	D6S	(3F)4F	89444.458	2.5	4SP	(3P)6F	150.6903	-0.922	25805.328	4.5	D6S	(3G)4G
150.0875	-5.109	21581.638	4.5	D6S	(3H)4H	88209.450	3.5	4SP	(5P)6D	150.7032	-2.942	31999.048	3.5	D7	(5D)2F
150.0897	-2.542	25805.328	4.5	D6S	(3G)4G	92432.136	5.5	4SP	(5D)6F	150.7185	-3.243	25805.328	4.5	D6S	(3G)4G
150.1014	-1.601	25805.328	4.5	D6S	(3G)4G	92426.980	4.5	4SP	(5G)4F	150.7199	-1.546	25981.629	3.5	D6S	(3G)4G
150.1027	-2.166	25981.629	3.5	D6S	(3G)4G	92602.703	3.5	4P	(3F)2G	150.7217	-5.346	21711.716	1.5	D6S	(3F)2F
150.1106	-4.790	105630.750	2.5	5D	(5D)4D	67000.517	2.5	4P	(3P)2D	150.7231	-3.950	102025.970	2.5	5D	(5D)6G
150.1147	-7.152	384.790	3.5	D6S	(5D)6D	38458.981	4.5	4P	(5D)6D	150.7342	-3.172	33466.463	4.5	D6S	(1G)2G
150.1352	-3.763	105065.630	3.5	5D	(5D)6G	67273.826	1.5	4P	(5D)6D	150.7549	-5.968	667.683	2.5	D6S	(5D)6D
150.1363	-7.252	667.683	2.5	D6S	(5D)6D	67273.826	1.5	4P	(3F)2D	150.7779	-1.592	21308.040	1.5	D7	(5D)2D
150.1556	-3.405	31999.048	3.5	D6S	(3F)4F	89596.650	4.5	4SP	(5D)4F	150.7872	-2.724	25981.629	3.5	D6S	(3G)4G
150.1646	-5.345	22409.852	0.5	D6S	(3F)4F	89003.460	0.5	4P	(3P)2S	150.7882	-6.505	22810.357	3.5	D6S	(3F)4F
150.1680	-2.332	26055.423	2.5	D6S	(3G)4G	92647.510	1.5	4P	(3F)4D	150.8035	-3.257	25805.328	4.5	D6S	(3G)4G
150.1697	-4.411	27620.412	2.5	D6S	(3F)2F	94211.739	2.5	4SP	(5P)4F	150.8079	-8.079	3117.461	1.5	D7	(5D)4F
150.1714	-3.720	1054449.540	3.5	5D	(5D)4G	38858.958	2.5	4P	(5D)6D	150.8107	-1.873	23317.633	2.5	D5S2	(7S)6S
150.1725	-7.930	21308.040	1.5	D7	(5D)2D	87898.120	0.5	4SP	(3G)6F	150.8133	-4.373	33501.253	3.5	D6S	(1G)2G
150.1749	-9.936	0.000	4.5	D6S	(5D)6D	66589.008	4.5	4P	(3G)4H	150.8223	-1.690	26055.423	2.5	D6S	(3G)4G
150.2116	-7.026	23317.633	2.5	D5S2	(7S)6S	92358.610	1.5	4SP	(5G)4F	150.8277	-1.815	25981.629	3.5	D6S	(3F)4F
150.2155	-5.634	25787.598	1.5	D6S	(3P)2F	92358.610	3.5	4P	(5G)4F	150.8298	-6.319	23031.300	1.5	D6S	(3F)4F
150.2605	-2.916	105211.140	4.5	5D	(5D)4G	38660.043	3.5	4P	(5D)6D	150.8369	-6.759	977.053	0.5	D6S	(5D)6D
150.2691	-6.573	26055.423	2.5	D6S	(3G)4G	92602.703	3.5	4P	(3P)2G	150.8427	-6.720	21308.040	1.5	D7	(5D)2D
150.2791	-4.766	31811.822	2.5	D7	(5D)2F	98354.660	2.5	4SP	(5D)4F	150.8466	-2.288	25981.629	3.5	D6S	(3G)4G
150.2804	-4.600	25787.598	1.5	D6S	(3P)2F	92329.598	2.5	4SP	(5G)4F	150.8508	-4.772	33466.463	4.5	D6S	(1G)2G
150.2928	-3.215	31999.048	3.5	D7	(5D)2F	98355.850	3.5	4SP	(5G)4F	150.8579	-7.794	384.790	3.5	D6S	(5D)6D
150.2964	-9.145	20805.770	4.5	D7	(5D)2H	87340.983	5.5	4SP	(5G)6F	150.8661	-4.584	25805.328	4.5	D6S	(3G)4G
150.3013	-3.471	3117.461	1.5	D7	(5D)4F	69650.484	2.5	4P	(3G)2F	150.8661	-4.584	25805.328	4.5	D6S	(3G)4G
150.3145	-7.246	25787.598	1.5	D6S	(3P)2F	92314.778	0.5	5P	(5D)4F	150.8857	-3.682	102288.530	1.5	5D	(5D)6G
150.3396	-4.904	27314.922	3.5	D6S	(3F)2F	93830.959	2.5	4SP	(5D)6D	150.8877	-2.044	26055.423	2.5	D6S	(3G)4G
150.3644	-6.627	22939.358	2.5	D6S	(3F)4F	89444.458	2.5	4SP	(5P)6F	150.9005	-1.870	105127.770	2.5	5D	(5D)4D
150.3815	-7.604	21711.716	1.5	D6S	(3H)4H	88209.450	3.5	4SP	(5P)6D	150.9105	-6.239	2837.950	2.5	D7	(5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
150.9106	-6.605	21308.040	1.5	D7 (5D)2D	87572.431	2.5	4SP(5G)6F	-7.377	151.3130	-7.377	23031.300	1.5	D6S (3F)4F	89119.457	2.5	5P (5D)6D
150.9162	-4.749	26170.181	5.5	D6S (3H)2H	92432.136	5.5	4SP(5D)6F	-4.090	151.3175	-4.090	22637.205	4.5	D6S (3F)4F	88723.400	0.5	5P (5D)6D
150.9279	-2.225	26170.181	5.5	D6S (3H)2H	92426.980	4.5	4SP(5G)4F	-7.431	151.3317	-7.431	21812.055	1.5	D6S (3P)4F	87898.120	0.5	4SP(5G)6F
150.9300	-3.926	33501.253	3.5	D6S (1G)2G	99757.120	4.5	4P (1G)2G	-3.280	151.3307	-3.280	27314.922	3.5	D6S (3F)2F	93395.360	2.5	4P (3F)4F
150.9414	-1.557	36252.918	2.5	D6S (3D)2D	102503.810	1.5	4SP(3D)2D	-1.860	151.3317	-1.860	26170.181	5.5	D6S (3H)2H	92250.210	6.5	4SP(5G)4H
150.9420	-1.958	20516.960	2.5	D7 (3P)4D	86767.577	2.5	4P (3P)4D	-4.133	151.3332	-4.133	26352.766	4.5	D6S (3H)2H	92432.136	5.5	4SP(5D)6F
150.9435	-4.352	26352.766	4.5	D6S (3H)2H	92602.703	3.5	4P (3F)2G	-8.895	151.3426	-8.895	92426.980	4.5	4SP(5G)4F	93395.360	2.5	4P (3F)4F
150.9495	-4.771	21812.055	1.5	D6S (3P)4F	88059.380	2.5	4SP(5P)6D	-8.808	151.3704	-8.808	25787.598	1.5	D6S (3P)2P	91850.722	0.5	4SP(5D)6F
150.9515	-2.511	104705.420	3.5	D5 (5D)6D	38458.981	4.5	4P (5D)6D	-6.352	151.3870	-6.352	25787.598	1.5	D6S (3P)2P	91850.722	0.5	4SP(5D)6F
150.9587	-9.152	23787.598	1.5	D6S (3P)2P	92018.729	2.5	4SP(5D)6F	-1.508	151.4111	-1.508	104705.420	3.5	D5 (5D)6D	38660.040	3.5	4P (5D)6D
150.9957	-2.805	26055.423	2.5	D6S (3G)4G	92282.460	3.5	4SP(5G)4F	-3.454	151.4161	-3.454	22810.357	3.5	D6S (3F)4F	88853.533	3.5	5P (3D)6D
151.0012	-4.327	109463.220	3.5	4SD(7S)8D	43238.586	2.5	4P (5D)6P	-5.537	151.4202	-5.537	21430.359	5.5	D6S (3H)4H	87471.765	4.5	4SP(5D)6F
151.0119	-4.813	27620.412	2.5	D6S (3F)2F	93840.340	1.5	4SP(5D)6D	-3.721	151.4300	-3.721	25981.629	3.5	D6S (3C)4G	92018.729	2.5	4SP(5D)6F
151.0148	-2.801	26055.423	2.5	D6S (3G)4G	93274.120	2.5	4P (3P)4F	-1.179	151.4375	-1.179	26055.423	2.5	D6S (3G)4G	92089.260	3.5	4SP(5G)4H
151.0184	-3.257	105230.290	0.5	D5 (5D)4D	39013.206	1.5	4P (5D)6D	-2.249	151.4451	-2.249	20516.960	2.5	D7 (5D)2D	86547.490	2.5	4P (1F)2F
151.0194	-4.254	109455.250	2.5	4SD(7S)8D	43238.586	2.5	5P (5D)6P	-3.277	151.4532	-3.277	20516.960	2.5	D7 (5D)2D	86547.490	2.5	4P (1F)2F
151.0202	-4.429	22637.205	4.5	D6S (3F)4F	88853.533	3.5	4P (3D)2D	-1.615	151.4824	-1.615	104873.230	3.5	D5 (5D)4D	38858.958	2.5	4P (5D)6D
151.0273	-1.356	104873.230	3.5	D5 (5D)4D	74606.841	2.5	4P (5D)6D	-3.986	151.4840	-3.986	23317.633	2.5	D5S2(7S)6S	89331.195	1.5	5P (3D)6D
151.0324	-4.394	109449.530	1.5	4SD(7S)8D	38660.043	3.5	4P (5D)6D	-7.496	151.4859	-7.496	0.000	4.5	D6S (5D)6D	66012.750	4.5	4P (3G)4H
151.0333	-5.049	27620.412	2.5	D6S (3F)2F	93830.979	2.5	4SP(5D)6D	-4.504	151.5045	-4.504	667.683	2.5	D6S (5D)6D	66012.750	4.5	4P (3G)4H
151.0381	-2.255	104868.500	4.5	D5 (5D)6G	38660.043	3.5	4P (5D)6D	-4.713	151.5171	-4.713	18360.646	1.5	D7 (5D)2P	84359.800	1.5	4P (1F)2D
151.0422	-2.037	105065.630	3.5	D5 (5D)6G	38858.958	2.5	4P (5D)6D	-3.078	151.5234	-3.078	26170.181	5.5	D6S (3H)2H	92166.600	5.5	4SP(5G)4H
151.0478	-6.505	384.790	3.5	D6S (5D)6D	66589.008	4.5	4P (3G)4H	-4.538	151.5324	-4.538	384.790	3.5	D6S (5D)6D	66377.283	3.5	4P (3G)4F
151.0661	-0.455	36252.918	2.5	D6S (3D)2D	102449.100	2.5	4SP(3D)2D	-8.215	151.5498	-8.215	3117.461	1.5	D7 (5D)4F	69102.380	2.5	4SP(5S)4P
151.0743	-2.553	105205.790	2.5	D5 (5D)6G	39013.206	1.5	4P (5D)6D	-5.152	151.5672	-5.152	22637.205	4.5	D6S (3F)4F	88614.520	4.5	4SP(5P)6D
151.0800	-1.998	25981.629	3.5	D6S (3G)4G	92171.716	4.5	4P (3F)2G	-6.959	151.5791	-6.959	23031.300	1.5	D6S (3F)4F	89003.460	0.5	4P (3P)2S
151.0820	-7.945	22939.358	2.5	D6S (3F)4F	89128.561	3.5	4SP(5P)6P	-1.484	151.5859	-1.484	104828.160	2.5	D5 (5D)6D	89003.460	0.5	4P (3P)2S
151.0876	-4.054	33466.463	4.5	D6S (1G)2G	99653.220	4.5	4SP(3G)2G	-0.898	151.5877	-0.898	30388.542	4.5	D6S (3G)2G	96356.960	3.5	4SP(3G)2F
151.0925	-6.796	3117.461	1.5	D7 (5D)4F	69302.090	1.5	4SP(5S)4P	-1.018	151.5937	-1.018	20516.960	2.5	D7 (5D)2D	86482.750	2.5	4SP(5D)6F
151.1028	-6.605	22939.358	2.5	D6S (3F)4F	89119.457	2.5	5P (5D)6D	-4.671	151.5994	-4.671	26055.423	2.5	D6S (3G)4G	96356.960	3.5	4SP(3G)2F
151.1197	-4.864	27314.922	3.5	D6S (3F)2F	93487.650	3.5	4P (3F)4F	-3.295	151.6028	-3.295	31364.440	1.5	D6S (3D)4D	97326.270	1.5	4SP(3P)2P
151.1201	-3.673	25981.629	3.5	D6S (3G)4G	92154.165	3.5	4SP(5D)6F	-3.998	151.6120	-3.998	31368.450	0.5	D6S (3D)4D	97326.270	1.5	4SP(3P)2P
151.1256	-4.888	26055.423	2.5	D6S (3G)4G	92225.538	1.5	5P (5D)4F	-0.849	151.6162	-0.849	21581.638	4.5	D6S (3H)4H	87537.652	3.5	4SP(5G)6F
151.1267	-4.056	27314.922	3.5	D6S (3F)2F	93484.580	4.5	4P (3F)4F	-6.622	151.6238	-6.622	104411.690	4.5	D5 (5D)6D	38458.981	4.5	4P (3D)6D
151.1280	-2.921	33466.463	4.5	D6S (1G)2G	99635.520	3.5	4SP(3G)2G	-2.763	151.6357	-2.763	26352.766	4.5	D6S (3H)2H	92300.277	4.5	4SP(5D)6F
151.1467	-2.538	26055.423	2.5	D6S (3G)4G	92216.320	1.5	4P (3P)2D	-4.151	151.6378	-4.151	26170.181	5.5	D6S (3H)2H	92116.780	4.5	4SP(5G)4H
151.1656	-7.622	21812.055	1.5	D6S (3P)4F	87964.650	1.5	4SP(5P)6D	-6.109	151.6416	-6.109	667.683	2.5	D6S (5D)6D	66612.656	1.5	4P (3G)4F
151.1671	-2.576	33501.253	3.5	D6S (1G)2G	99653.220	4.5	4SP(3G)2G	-5.698	151.6569	-5.698	31387.948	2.5	D6S (3D)4D	97326.270	1.5	4SP(3P)2P
151.1797	-4.021	108804.667	3.5	D5 (3D)4D	42658.224	3.5	4P (5D)6P	-2.966	151.6730	-2.966	20830.582	2.5	D6S (3P)4F	86767.577	2.5	4P (3P)4F
151.1992	-5.997	862.613	1.5	D6S (5D)6D	67000.517	2.5	4P (3F)2D	-2.966	151.6767	-2.966	0.000	4.5	D6S (5D)6D	65931.334	3.5	4P (3G)4G
151.2001	-5.385	384.790	3.5	D6S (5D)6D	66522.304	2.5	4P (3G)4F	-4.895	151.6843	-4.895	26352.766	4.5	D6S (3H)2H	92282.460	3.5	4SP(5G)4F
151.2055	-1.073	25981.629	3.5	D6S (3G)4G	92116.780	4.5	4SP(5G)4H	-0.974	151.6945	-0.974	8680.454	1.5	D6S (5D)4D	74606.841	2.5	4P (3D)2D
151.2075	-2.928	104593.270	5.5	D5 (5D)6G	38458.981	4.5	4P (5D)6D	-5.740	151.7124	-5.740	22939.358	2.5	D6S (3F)4F	38458.981	4.5	4P (3D)6D
151.2075	-3.187	33501.253	3.5	D6S (1G)2G	99635.520	3.5	4SP(3G)2G	-5.112	151.7150	-5.112	22810.357	3.5	D6S (3F)4F	88853.533	3.5	5P (5D)6D
151.2171	-4.047	26170.181	5.5	D6S (3H)2H	92300.277	4.5	4SP(5D)6F	-4.438	151.7206	-4.438	21430.359	5.5	D6S (3H)4H	87340.411	2.5	4SP(5D)6F
151.2211	-7.054	25787.598	1.5	D6S (3P)2P	91915.990	1.5	4SP(5D)6F	-6.681	151.7278	-6.681	21430.359	5.5	D6S (3H)4H	87340.411	2.5	4SP(5D)6F
151.2214	-3.535	1872.567	4.5	D7 (5D)4F	68000.788	4.5	4P (3G)2D	-4.457	151.7608	-4.457	27620.412	2.5	D6S (3F)2F	93487.650	3.5	4P (3F)4F
151.2246	-1.755	23317.633	2.5	D5S2(7S)6S	89444.458	2.5	4SP(5P)6P	-4.375	151.8205	-4.375	26055.423	2.5	D6S (3G)4G	91915.990	1.5	4SP(5D)6F
151.2313	-5.985	20803.770	4.5	D7 (5D)2H	86929.649	3.5	4P (3P)4D	-4.729	151.8360	-4.729	21711.917	3.5	D6S (3H)4H	87372.431	2.5	4SP(5G)6F
151.2379	-3.130	105230.290	0.5	D5 (5D)4D	39013.206	1.5	4P (5D)6D	-5.559	151.8439	-5.559	13474.411	2.5	D7 (5D)4F	79331.500	3.5	4SP(5S)6P
151.2526	-2.260	105127.770	2.5	D5 (5D)4D	39013.206	1.5	4P (5D)6D	-3.947	151.8496	-3.947	667.683	2.5	D6S (5D)6D	66522.304	2.5	4P (3C)4F
151.2685	-3.306	25981.629	3.5	D6S (3G)4G	74498.037	1.5	4P (3D)2D	-2.420	151.8550	-2.420	31999.048	3.5	D7 (5D)2P	97851.350	4.5	4P (1G)2H
151.2719	-4.683	8391.938	2.5	D6S (5D)4D	74498.037	1.5	4P (3D)2D	-3.947	151.8588	-3.947	30388.542	4.5	D6S (3G)2G	96239.200	4.5	4SP(3G)2H
151.2881	-2.174	20830.582	2.5	D6S (3P)4F	86929.649	3.5	4P (3P)4F	-1.120	151.8684	-1.120	104705.420	3.5	D5 (5D)6D	38858.958	2.5	4P (3D)6D
151.2888	-2.321	26055.423	2.5	D6S (3G)4G	92154.165	3.5	4SP(5D)6F	-4.474	151.9090	-4.474	30388.542	4.5	D6S (3G)2G	96217.420	3.5	4SP(5P)4D
151.3103	-3.209	21251.608	6.5	D6S (3H)4H	87340.983	5.5	4SP									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
151.9206	-5.545	21812.055	1.5	D6S (3F)4P	87635.920	0.5	4SP(5P)6D	152.5078	-2.225	13673.185	1.5	D7 (5D)4P	79243.600	1.5	4P (1D)2P	
151.9319	-4.404	26352.766	4.5	D6S (3H)2H	92171.716	4.5	4P (3F)2G	152.5146	-1.314	104426.460	2.5	5D (5D)6F	38858.958	2.5	4P (5D)6D	
151.9350	-4.751	8680.454	1.5	D6S (5D)4D	74498.057	1.5	4P (3D)2D	152.5179	-4.999	108804.667	3.5	5S (3D)4D	43238.586	2.5	4P (5D)6P	
151.9411	-4.423	27314.922	3.5	D6S (3F)2F	93129.900	3.5	4P (3F)4D	152.5407	-5.892	0.000	4.5	D6S (3P)2H	65556.280	4.5	4P (3H)2H	
151.9412	-0.904	104828.160	2.5	5D (5D)6D	39013.206	1.5	4P (5D)6D	152.5441	-5.409	22409.852	0.5	D6S (3P)4P	87964.650	1.5	4SP(5P)2H	
151.9437	-2.520	26352.766	4.5	D6S (3H)2H	92171.716	4.5	4P (3F)2G	152.5633	-5.327	384.790	3.5	D6S (5D)6D	38458.981	3.5	4P (5D)6D	
151.9504	-1.743	23317.633	2.5	D5S2(7S)6S	89128.561	3.5	4SP(5P)6P	152.5743	-0.961	104000.810	3.5	5D (5D)6P	38458.981	3.5	4P (5D)6D	
151.9510	-4.056	13474.411	2.5	D7 (5D)4P	79285.110	2.5	4SP(5S)6P	152.5881	-4.927	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	5P (5D)6D	
151.9661	-6.869	22810.357	3.5	D6S (3F)4F	88614.520	4.5	4SP(5G)6H	152.6205	-0.732	104380.940	3.5	5D (5D)6F	38858.958	2.5	4P (5D)6D	
151.9715	-3.582	23317.633	2.5	D5S2(7S)6S	89119.457	2.5	5P (5D)6D	152.6225	-1.048	104630.430	1.5	5D (5D)6P	39109.307	0.5	4P (5D)6D	
151.9725	-6.394	26352.766	4.5	D6S (3H)2H	92154.165	3.5	4SP(5D)6F	152.6235	-5.168	26932.748	0.5	D6S (3P)2P	92453.460	0.5	4P (3F)4D	
151.9850	-7.051	7955.299	3.5	D6S (5D)4D	73751.282	4.5	4P (1I)2H	152.6258	-7.739	30764.485	3.5	D6S (3G)2G	91575.139	2.5	5P (5D)6F	
151.9983	-5.303	21812.055	1.5	D6S (3P)4P	87602.250	1.5	4SP(5G)6F	152.6368	-1.071	30764.485	3.5	D6S (3G)2G	96279.490	2.5	4SP(3G)2F	
152.0033	-5.877	26055.423	2.5	D6S (3G)4G	91843.470	1.5	5P (5D)6P	152.6381	-3.764	31811.822	2.5	D7 (5D)2F	97326.270	1.5	4SP(3P)2P	
152.0045	-5.650	25787.598	1.5	D6S (3P)2F	91575.139	2.5	5P (5D)6P	152.6496	-5.172	27620.412	2.5	D6S (3F)2F	93129.900	3.5	4P (3F)4D	
152.0336	-5.041	27620.412	2.5	D6S (3F)2F	93395.360	2.5	4P (3F)4F	152.6536	-0.840	18360.646	1.5	D7 (5D)2P	83868.450	2.5	4P (1F)2D	
152.0409	-3.942	13474.411	2.5	D7 (5D)4P	79246.170	1.5	4SP(5S)6P	152.6913	-0.451	103950.590	4.5	5D (5D)6F	38458.981	4.5	4P (5D)6D	
152.0469	-2.889	13474.411	2.5	D7 (5D)4P	79246.170	1.5	4SP(5S)6P	152.6991	-5.795	22409.852	0.5	D6S (3P)4P	87898.120	0.5	4SP(5G)6F	
152.0533	-1.056	104426.460	2.5	5D (5D)6F	38858.958	2.5	4P (5D)6D	152.7198	-1.264	104588.710	1.5	5D (5D)6D	39109.307	0.5	4P (5D)6D	
152.0673	-6.536	21812.055	1.5	D6S (3H)2H	79243.600	1.5	4P (5D)6D	152.7239	-0.212	103936.600	5.5	5D (5D)6F	38458.981	4.5	4P (5D)6D	
152.0685	-6.177	21711.917	3.5	D6S (3H)4H	87471.765	4.5	4SP(5G)6F	152.7307	-0.961	30764.485	3.5	D6S (3G)2G	96239.200	4.5	4SP(3G)2H	
152.0696	-5.754	21581.638	4.5	D6S (3H)4H	87340.983	5.5	4SP(5G)6F	152.7347	-1.125	18886.780	0.5	D7 (5D)2P	84359.800	1.5	4P (1F)2D	
152.0844	-3.945	38214.507	1.5	D6S (1D)2D	10396.490	0.5	4SP(3P)2S	152.7645	-0.805	104120.270	2.5	5D (5D)6P	38660.043	3.5	4P (5D)6D	
152.0874	-0.595	104411.690	4.5	5D (5D)6D	38660.043	3.5	4P (5D)6D	152.7661	-1.843	21308.040	1.5	D7 (5D)2P	86767.577	2.5	4P (3P)4D	
152.0912	-7.079	862.613	1.5	D6S (5D)6D	66612.656	1.5	4P (3G)4F	152.8298	-3.459	33466.463	4.5	D6S (1G)2G	98898.710	3.5	4P (1G)2F	
152.1024	-1.260	104757.110	0.5	5D (5D)6D	92013.206	1.5	4P (5D)6D	152.8448	-3.284	26932.748	0.5	D6S (3P)2P	92358.610	1.5	4SP(5G)4F	
152.1225	-3.846	26352.766	4.5	D6S (3H)2H	92154.165	3.5	4SP(5G)6F	152.8554	-5.066	25787.598	1.5	D6S (3P)2P	91208.887	1.5	5P (5D)4F	
152.1381	-1.123	104588.710	1.5	5D (5D)6D	38858.958	2.5	4P (5D)6D	152.8742	-1.006	104426.460	2.5	5D (5D)6F	39013.206	1.5	4P (5D)6F	
152.1586	-2.646	104380.940	3.5	5D (5D)6F	92089.260	3.5	4SP(5G)4H	152.8761	-1.843	21308.040	1.5	D7 (5D)2P	86767.577	2.5	4P (3P)4D	
152.1678	-3.989	20830.582	2.5	D6S (3P)4P	86547.490	2.5	4P (1F)2F	152.8805	-6.921	667.683	2.5	D6S (5D)6D	66078.269	2.5	4P (3G)4G	
152.1728	-5.059	26932.748	0.5	D6S (3P)2P	92647.510	1.5	4P (3F)4D	152.8979	-1.936	32875.646	6.5	D6S (1I)2I	98278.770	5.5	4P (1G)2H	
152.1760	-3.655	20830.582	2.5	D6S (3P)4P	86543.974	1.5	4P (3P)4D	152.9073	-4.665	22810.357	3.5	D6S (3F)4F	88898.710	3.5	4SP(5P)6D	
152.1848	-4.874	667.683	2.5	D6S (5D)6D	66377.283	3.5	4P (3G)4F	152.9111	-2.558	33501.253	3.5	D6S (1G)2G	98898.710	3.5	4P (1G)2F	
152.1883	-3.743	93328.480	1.5	4P (3F)4F	66377.283	3.5	4P (3F)4F	152.9378	-7.467	862.613	1.5	D6S (5D)6D	66248.660	0.5	4P (3P)2S	
152.2162	-4.097	27620.412	2.5	D6S (3F)2F	93328.480	1.5	4P (3F)4F	152.9473	-4.508	26932.748	0.5	D6S (3P)2P	92314.758	0.5	5P (5D)4P	
152.2221	-6.408	0.000	4.5	D6S (5D)6D	66078.269	2.5	4P (3G)4G	152.9509	-1.946	27314.922	3.5	D6S (3F)2F	92695.374	2.5	4P (3P)2D	
152.2377	-4.802	32909.905	5.5	D6S (1I)2I	98596.650	4.5	4SP(5D)4F	152.9904	-5.863	25805.328	4.5	D6S (3G)4G	91167.937	3.5	5P (5D)6P	
152.2604	-4.299	20805.770	4.5	D7 (5D)2H	86482.750	3.5	4P (1F)2F	153.0268	-4.804	21581.638	4.5	D6S (3H)4H	86929.649	3.5	4P (3P)4D	
152.2684	-0.828	30388.542	4.5	D6S (3G)2G	96062.060	5.5	4SP(3G)2H	153.0425	-4.890	13904.824	0.5	D7 (5D)4P	79246.170	1.5	4SP(5S)6P	
152.3004	-5.513	862.613	1.5	D6S (5D)6D	66522.304	2.5	4P (3G)4F	153.0485	-4.200	104000.810	3.5	5D (5D)6P	38660.043	3.5	4P (5D)6D	
152.3199	-6.435	8846.768	0.5	D6S (5D)4D	86482.750	3.5	4P (1F)2F	153.0902	-2.900	36252.918	2.5	D6S (3D)2D	101573.900	1.5	4SP(5D)4P	
152.3280	-1.323	104757.110	0.5	5D (5D)6D	93109.307	0.5	4P (3D)2D	153.1130	-4.632	384.790	3.5	D6S (5D)6D	65696.038	4.5	4P (3G)4G	
152.3374	-2.246	1872.567	4.5	D7 (5D)4F	74498.057	1.5	4P (5D)6D	153.1563	-4.254	26932.748	0.5	D6S (3P)2P	92225.538	1.5	5P (5D)4P	
152.3563	-6.576	977.053	0.5	D6S (5D)6D	66612.656	1.5	4P (3G)4F	153.1615	-0.689	103950.590	4.5	5D (5D)6F	38458.981	4.5	4P (5D)6D	
152.3741	-4.793	384.790	3.5	D6S (5D)6D	66012.750	1.5	4P (3G)4F	153.1680	-4.857	103751.660	5.5	4D (3H)4H	86929.649	3.5	4P (5D)6D	
152.3990	-1.677	104630.430	1.5	5D (5D)6P	39013.206	1.5	4P (5D)6D	153.1779	-3.532	26932.748	0.5	D6S (3F)2P	92216.320	1.5	4P (3P)2D	
152.4113	-4.789	13673.185	1.5	D7 (5D)4P	79285.110	2.5	4SP(5S)6P	153.1794	-5.454	25787.598	1.5	D6S (3P)2P	91070.547	2.5	5P (5D)4F	
152.4541	-6.319	25981.629	3.5	D6S (3G)4G	91575.139	2.5	5P (5D)6P	153.1891	-5.310	27620.412	2.5	D6S (3F)2F	92899.200	2.5	4P (3F)4D	
152.4565	-2.035	30764.485	3.5	D6S (3G)2G	96356.960	3.5	4SP(3G)2F	153.1957	-3.600	37227.326	0.5	D6S (1S)2S	102503.810	1.5	4SP(3D)2D	
152.4756	-4.010	27314.922	3.5	D6S (3F)2F	92899.200	2.5	4P (3F)4D	153.1957	-3.781	36126.387	1.5	D6S (3D)2D	101402.380	0.5	4SP(5D)4P	
152.4854	-6.341	0.000	4.5	D6S (5D)6D	66580.041	5.5	4P (3G)4G	153.2060	-8.243	977.053	0.5	D6S (5D)6D	66248.660	0.5	4P (3P)2S	
152.4960	-1.314	104588.710	1.5	5D (5D)6D	39013.206	1.5	4P (5D)6D	153.2095	-5.883	22939.358	2.5	D6S (3F)4F	88209.450	3.5	4SP(5P)6D	
152.5018	-5.169	13673.185	1.5	D7 (5D)4P	79246.170	1.5	4P (3G)4G									
152.5035	-5.086	22637.205	4.5	D6S (3F)4F	88209.450	3.5	4SP(5P)6D									
152.5072	-3.069	2430.097	3.5	D7 (5D)4F	68000.788	4.5	4P (3G)2H									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
154.6481	-3.122	13474.411	2.5	D7	(5D)4P	78137.364	3.5	4P	(1D)2F	155.2874	-4.014	155.2874	-4.014	155.2874	-4.014
154.6481	-8.328	8391.938	2.5	D6S	(5D)4D	73054.881	2.5	4P	(1G)2F	155.3160	-3.958	155.3160	-3.958	155.3160	-3.958
154.6482	-6.037	22939.358	2.5	D6S	(3F)4F	97202.250	1.5	4SP	(5G)6F	155.3406	-6.250	155.3406	-6.250	155.3406	-6.250
154.6502	-4.724	27620.412	2.5	D6S	(3F)2F	92282.460	3.5	4SP	(5G)4F	155.3412	-5.679	155.3412	-5.679	155.3412	-5.679
154.6518	-5.498	22810.357	3.5	D6S	(3F)4F	87471.765	4.5	4SP	(5G)6F	155.3811	-0.804	155.3811	-0.804	155.3811	-0.804
154.6618	-3.402	25981.629	3.5	D6S	(3G)4G	90638.822	2.5	5P	(5D)4D	155.3813	-2.472	155.3813	-2.472	155.3813	-2.472
154.6702	-4.131	27620.412	2.5	D6S	(3F)2F	92274.120	2.5	4P	(3P)4P	155.3999	-3.346	155.3999	-3.346	155.3999	-3.346
154.6862	-3.310	23317.633	2.5	D5S2	(7S)6S	87964.650	1.5	4SP	(5P)6D	155.4084	-3.403	155.4084	-3.403	155.4084	-3.403
154.7064	-3.077	25428.784	5.5	D6S	(3G)4G	90067.347	4.5	5P	(5D)6F	155.4184	-5.672	155.4184	-5.672	155.4184	-5.672
154.7196	-4.482	22939.358	2.5	D6S	(3F)4F	87572.431	2.5	4SP	(5G)6F	155.4187	-3.936	155.4187	-3.936	155.4187	-3.936
154.7239	-1.866	31364.440	1.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.4231	-4.108	155.4231	-4.108	155.4231	-4.108
154.7408	-4.397	8391.938	2.5	D6S	(3D)4D	73016.147	3.5	4P	(1G)2F	155.4252	-3.854	155.4252	-3.854	155.4252	-3.854
154.7652	-4.490	25428.784	5.5	D6S	(3G)4G	90042.779	4.5	4P	(3F)4G	155.4751	-3.446	155.4751	-3.446	155.4751	-3.446
154.7802	-1.530	31387.948	2.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.4843	-2.093	155.4843	-2.093	155.4843	-2.093
154.7865	-3.682	27620.412	2.5	D6S	(3F)2F	92225.538	1.5	5P	(5D)4F	155.5318	-6.563	155.5318	-6.563	155.5318	-6.563
154.7877	-5.452	23031.300	1.5	D6S	(3F)4F	87635.920	0.5	4SP	(5P)6D	155.5393	-3.212	155.5393	-3.212	155.5393	-3.212
154.8012	-6.395	22939.358	2.5	D6S	(3F)4F	92337.033	3.5	4P	(5D)6F	155.5469	-3.252	155.5469	-3.252	155.5469	-3.252
154.8086	-2.175	27620.412	2.5	D6S	(3F)2F	92216.320	1.5	4P	(3P)2D	155.5575	-2.417	155.5575	-2.417	155.5575	-2.417
154.8166	-4.222	25805.328	4.5	D6S	(3G)4G	90397.868	3.5	5P	(5D)4D	155.5582	-3.639	155.5582	-3.639	155.5582	-3.639
154.8204	-3.234	1872.567	4.5	D7	(5D)4F	66463.528	5.5	4P	(3G)4H	155.5616	-3.608	155.5616	-3.608	155.5616	-3.608
154.8386	-3.968	26055.423	2.5	D6S	(3G)4G	90638.822	2.5	5P	(5D)4D	155.5655	-1.483	155.5655	-1.483	155.5655	-1.483
154.8411	-2.781	13904.824	0.5	D7	(5D)4F	78487.153	1.5	4P	(1D)2D	155.5683	-2.798	155.5683	-2.798	155.5683	-2.798
154.8438	-3.532	25805.328	4.5	D6S	(3G)4G	90386.528	4.5	5P	(5D)4F	155.5787	-5.139	155.5787	-5.139	155.5787	-5.139
154.8545	-3.593	21812.055	1.5	D6S	(3F)4F	86388.820	0.5	4P	(3P)4S	155.5840	-2.629	155.5840	-2.629	155.5840	-2.629
154.8599	-5.968	26055.423	2.5	D6S	(3G)4G	90629.902	1.5	4P	(3P)4S	155.5977	-4.422	155.5977	-4.422	155.5977	-4.422
154.8655	-3.308	10880.667	3.5	5S	(3D)4D	44232.512	4.5	4P	(5D)4F	155.6009	-4.671	155.6009	-4.671	155.6009	-4.671
154.8664	-4.821	23031.300	1.5	D6S	(3F)4F	87602.250	1.5	4SP	(5G)6F	155.6129	-3.689	155.6129	-3.689	155.6129	-3.689
154.8697	-2.458	2430.097	3.5	D7	(5D)4F	67000.517	2.5	4P	(3F)2D	155.6173	-8.798	155.6173	-8.798	155.6173	-8.798
154.8916	-3.285	107219.500	4.5	4P2	(7P)8P	42658.224	3.5	4P	(5D)6F	155.6180	-3.776	155.6180	-3.776	155.6180	-3.776
154.9303	-2.385	31811.822	2.5	D7	(5D)2F	96356.960	3.5	4SP	(3G)2F	155.6192	-3.133	155.6192	-3.133	155.6192	-3.133
154.9400	-5.730	23031.300	1.5	D6S	(3F)4F	87572.431	2.5	4SP	(5G)6F	155.6304	-3.298	155.6304	-3.298	155.6304	-3.298
154.9473	-3.700	26055.423	2.5	D6S	(3G)4G	90593.497	1.5	5P	(5D)6F	155.6360	-4.172	155.6360	-4.172	155.6360	-4.172
154.9577	-4.087	27620.412	2.5	D6S	(3F)2F	92154.165	3.5	4SP	(5D)6F	155.6536	-4.857	155.6536	-4.857	155.6536	-4.857
155.0087	-1.948	31483.176	3.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.6608	-4.126	155.6608	-4.126	155.6608	-4.126
155.0180	-3.313	8680.454	1.5	D6S	(5D)4D	73189.110	1.5	4P	(3D)2P	155.6659	-3.234	155.6659	-3.234	155.6659	-3.234
155.0224	-5.646	8680.454	1.5	D6S	(5D)4D	73187.280	0.5	4P	(3D)2P	155.6724	-2.232	155.6724	-2.232	155.6724	-2.232
155.0239	-3.131	25981.629	3.5	D6S	(3G)4G	90487.810	2.5	5P	(5D)6F	155.6794	-4.871	155.6794	-4.871	155.6794	-4.871
155.0498	-2.821	1872.567	4.5	D7	(5D)4F	66377.283	3.5	4P	(3G)4F	155.6964	-3.578	155.6964	-3.578	155.6964	-3.578
155.0501	-2.789	25805.328	4.5	D6S	(3G)4G	89924.175	5.5	5P	(5D)6F	155.7073	-7.625	155.7073	-7.625	155.7073	-7.625
155.0541	-1.817	31364.440	1.5	D6S	(3D)4D	90300.625	3.5	5P	(5D)6F	155.7147	-3.321	155.7147	-3.321	155.7147	-3.321
155.0638	-1.984	31368.450	0.5	D6S	(3D)4D	95858.050	1.5	4SP	(5P)4D	155.7187	-3.230	155.7187	-3.230	155.7187	-3.230
155.1107	-1.756	31387.948	2.5	D6S	(3D)4D	95858.050	1.5	4SP	(5P)4D	155.7236	-3.979	155.7236	-3.979	155.7236	-3.979
155.1137	-2.943	27620.412	2.5	D6S	(3F)2F	92089.260	3.5	4SP	(5G)4H	155.8024	-3.264	155.8024	-3.264	155.8024	-3.264
155.1165	-0.973	31811.822	2.5	D7	(5D)2F	96279.490	2.5	4SP	(3G)2F	155.8172	-4.371	155.8172	-4.371	155.8172	-4.371
155.1659	-5.733	384.790	3.5	D6S	(5D)6D	64831.943	4.5	4P	(3F)2G	155.8237	-6.178	155.8237	-6.178	155.8237	-6.178
155.1783	-7.155	667.683	2.5	D6S	(5D)6D	65109.679	3.5	4P	(3F)2G	155.8448	-6.882	155.8448	-6.882	155.8448	-6.882
155.1930	-2.188	2837.950	2.5	D7	(5D)4F	67273.826	1.5	4P	(3F)2D	155.8541	-1.252	155.8541	-1.252	155.8541	-1.252
155.2015	-3.802	26055.423	2.5	D6S	(3G)4G	90487.810	2.5	5P	(5D)6F	155.8630	-3.591	155.8630	-3.591	155.8630	-3.591
155.2404	-4.514	26352.766	4.5	D6S	(3H)2H	90780.621	3.5	5P	(5D)4F	155.8691	-1.207	155.8691	-1.207	155.8691	-1.207
155.2641	-5.207	25805.328	4.5	D6S	(3G)4G	90397.868	3.5	5P	(5D)4F	155.8691	-1.207	155.8691	-1.207	155.8691	-1.207
155.2660	-4.973	31811.822	2.5	D7	(5D)2F	96217.420	3.5	4SP	(5P)4D	155.8909	-2.751	155.8909	-2.751	155.8909	-2.751
155.2677	-4.907	25981.629	3.5	D6S	(3G)4G	90386.528	4.5	5P	(5D)4F	155.9034	-2.599	155.9034	-2.599	155.9034	-2.599
155.2716	-1.856	31364.440	1.5	D6S	(3D)4D	95767.700	0.5	4SP	(5P)4D	155.9085	-0.350	155.9085	-0.350	155.9085	-0.350
155.2813	-1.960	31368.450	0.5	D6S	(3D)4D	95767.700	0.5	4SP	(5P)4D	155.9232	-3.038	155.9232	-3.038	155.9232	-3.038
155.2836	-7.498	27620.412	2.5	D6S	(3F)2F	92018.729	2.5	4SP	(5D)6F	155.9269	-1.955	155.9269	-1.955	155.9269	-1.955
										155.9593	-4.885	155.9593	-4.885	155.9593	-4.885

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
155.9604	-6.048	25803.328	4.5	D6S	(3G)4G	89924.175	5.5	5P	(5D)6F	156.6882	-0.568	1872.567	4.5	D7	(5D)4F
155.9685	-7.342	26932.748	0.5	D6S	(3P)2P	91048.256	1.5	5P	(5D)4D	156.7365	-3.444	30388.542	4.5	D6S	(3G)2G
155.9936	-4.613	103118.400	1.5	6S	(5D)4D	39013.206	1.5	4P	(5D)6D	156.7666	-2.458	102802.312	2.5	6S	(5D)4D
156.0252	-1.237	2430.097	3.5	D7	(5D)4F	66522.304	2.5	4P	(3G)4F	156.7962	-2.721	8391.938	2.5	D6S	(5D)4F
156.0410	-4.841	25981.629	3.5	D6S	(3G)4G	90067.347	4.5	5P	(5D)6F	156.8020	-1.266	2837.950	2.5	D7	(5D)4F
156.0426	-3.796	25805.328	4.5	D6S	(3G)4G	89890.373	3.5	4P	(3F)4G	156.8382	-5.675	30388.542	4.5	D6S	(3G)2G
156.0804	-2.989	13673.185	1.5	D7	(5D)4P	77742.730	2.5	4P	(1D)2F	156.8437	-6.119	667.683	2.5	D6S	(5D)6D
156.1009	-4.640	25981.629	3.5	D6S	(3G)4G	90042.779	4.5	4P	(3F)4G	156.8489	-4.767	27314.922	3.5	D6S	(3F)2F
156.1067	-2.232	1872.567	4.5	D7	(5D)4F	65931.334	3.5	4P	(3G)4G	156.8529	-3.857	26170.181	5.5	D6S	(3H)2H
156.1259	-4.298	108804.667	3.5	5S	(3D)4D	44753.799	3.5	4P	(5D)4F	156.8646	-2.437	8680.454	1.5	D6S	(5D)4D
156.1372	-3.822	31811.822	2.5	D7	(5D)2F	95858.050	1.5	4SP	(5P)4D	156.8733	-3.718	25981.629	3.5	D6S	(3G)4G
156.1400	-6.458	26352.766	4.5	D6S	(3H)2H	90397.868	3.5	5P	(5D)4D	156.8944	-4.484	22810.357	3.5	D6S	(3F)4F
156.1487	-3.219	26170.181	5.5	D6S	(3H)2H	90211.700	5.5	4P	(3F)4G	156.8965	-6.032	23031.300	1.5	D6S	(3F)4F
156.1502	-4.829	0.000	4.5	D6S	(5D)6D	64040.886	3.5	4P	(3F)4G	156.9005	-2.190	102394.718	3.5	6S	(5D)4D
156.1509	-5.971	384.790	3.5	D6S	(5D)6D	64425.408	2.5	4P	(3F)2F	156.9463	-4.267	44915.046	3.5	D6S	(1F)2F
156.1676	-5.814	26352.766	4.5	D6S	(3H)2H	90386.528	4.5	5P	(5D)4F	156.9478	-6.893	26932.748	0.5	D6S	(3P)2P
156.2014	-3.358	108804.667	3.5	5S	(3D)4D	44784.761	2.5	4P	(5D)4D	156.9499	-5.652	26352.766	4.5	D6S	(3H)2H
156.2270	-1.220	7955.299	3.5	D6S	(5D)4D	71964.710	2.5	4P	(3D)4P	156.9675	-1.073	1872.567	4.5	D7	(5D)4F
156.2278	-3.025	103118.400	1.5	6S	(5D)4D	39109.307	0.5	4P	(5D)6D	156.9794	-5.527	384.790	3.5	D6S	(5D)6D
156.2531	-7.411	30764.485	3.5	D6S	(3G)2G	94763.219	3.5	4SP	(5D)6P	156.9821	-3.633	44929.550	2.5	D6S	(1F)2F
156.2582	-3.662	31999.048	3.5	D7	(5D)2F	95995.690	2.5	4SP	(5P)4D	156.9866	-4.612	44929.550	2.5	D6S	(1F)2F
156.2737	-5.952	22939.358	2.5	D6S	(3F)4F	86929.649	3.5	4P	(3P)4D	156.9929	-5.113	26932.748	0.5	D6S	(3P)2P
156.3014	-2.997	22409.852	0.5	D6S	(3F)4D	86388.820	0.5	4P	(3P)4D	157.0105	-3.792	26352.766	4.5	D6S	(3H)2H
156.3197	-6.682	862.613	1.5	D6S	(5D)6D	64834.073	1.5	4P	(3P)2P	157.0236	-2.836	30388.542	4.5	D6S	(3G)2G
156.3327	-5.652	26932.748	0.5	D6S	(5D)6D	90898.873	1.5	4P	(3P)4P	157.0236	-1.467	102394.718	3.5	6S	(5D)6D
156.3475	-5.183	8391.938	2.5	D6S	(5D)4D	72352.024	3.5	4P	(3D)4F	157.0244	-0.441	2837.950	2.5	D7	(5D)4F
156.3545	-3.394	22810.357	3.5	D6S	(3F)4F	86767.577	2.5	4P	(3P)4F	157.0259	-6.433	25787.598	1.5	D6S	(3P)2F
156.3606	-7.129	27620.412	2.5	D6S	(3F)2F	91575.139	2.5	5P	(5D)6P	157.0260	-2.338	1872.567	4.5	D7	(5D)4F
156.3751	-4.509	0.000	4.5	D6S	(5D)6D	63948.790	4.5	4P	(3F)4G	157.0406	-3.471	8846.768	0.5	D6S	(5D)4D
156.3774	-4.823	26352.766	4.5	D6S	(3H)2H	90300.625	3.5	5P	(5D)6F	157.0498	-1.492	102334.112	2.5	6S	(5D)6D
156.3790	-0.278	2430.097	3.5	D7	(5D)4F	66377.283	3.5	4P	(3G)4F	157.0539	-4.331	22810.357	3.5	D6S	(3F)4F
156.3871	-7.847	862.613	1.5	D6S	(5D)6D	64806.488	0.5	4P	(3P)2P	157.0551	-2.370	26055.423	2.5	D6S	(3G)4G
156.3884	-3.363	102802.312	2.5	6S	(5D)4D	38858.958	2.5	4P	(5D)6D	157.0617	-7.268	30388.542	4.5	D6S	(3G)2G
156.3972	-6.352	25787.598	1.5	D6S	(3P)2P	89727.342	2.5	4P	(3F)4G	157.0827	-6.459	26932.748	0.5	D6S	(3P)2P
156.3990	-5.096	8680.454	1.5	D6S	(5D)4D	72619.490	2.5	4P	(3D)4D	157.0891	-4.801	31387.948	2.5	D6S	(3D)4D
156.4060	-2.602	30764.485	3.5	D6S	(3G)2G	94700.660	2.5	4P	(3F)2D	157.0923	-6.235	25787.598	1.5	D6S	(3P)2P
156.4070	-2.259	102394.718	3.5	6S	(5D)4D	38458.981	4.5	4P	(5D)6D	157.0941	-5.381	384.790	3.5	D6S	(5D)6D
156.4441	-6.331	30764.485	3.5	D6S	(3G)2G	94685.090	2.5	4SP	(5D)6P	157.0956	-4.734	44915.046	3.5	D6S	(1F)2F
156.4731	-2.282	25981.629	3.5	D6S	(3G)4G	89890.373	3.5	4P	(3F)4G	157.1006	-1.612	102666.694	0.5	6S	(5D)6D
156.4780	-4.845	26932.748	0.5	D6S	(3P)2P	90839.480	0.5	4P	(3P)4P	157.1061	-4.076	31387.948	2.5	D6S	(3D)4D
156.4907	-5.337	384.790	3.5	D6S	(5D)6D	64286.345	3.5	4P	(3F)2F	157.1065	-1.657	8391.938	2.5	D6S	(5D)4D
156.5015	-4.493	26170.181	5.5	D6S	(3H)2H	90067.347	4.5	5P	(5D)6F	157.1137	-2.536	2430.097	3.5	D7	(5D)4F
156.5192	-4.737	48039.090	2.5	D7	(5D)2D	111929.000	2.5	290DD		157.1186	-6.933	667.683	2.5	D6S	(5D)6D
156.5360	-2.029	3117.461	1.5	D7	(5D)4D	67000.517	2.5	4P	(3F)2D	157.1200	-5.301	23317.633	2.5	D5S2	(7S)6S
156.5525	-3.994	0.000	4.5	D6S	(5D)6D	63876.317	5.5	4P	(3F)4G	157.1216	-4.478	22939.358	2.5	D6S	(3F)4F
156.5617	-6.099	26170.181	5.5	D6S	(3H)2H	90042.779	4.5	4P	(3F)4G	157.2213	-3.599	22939.358	2.5	D6S	(3F)4F
156.5952	-5.078	26352.766	4.5	D6S	(3H)2H	90211.700	5.5	4P	(3F)4G	157.2354	-5.900	30388.542	4.5	D6S	(3G)2G
156.5999	-6.641	977.053	0.5	D6S	(5D)6D	64834.073	1.5	4P	(3P)2P	157.2391	-3.876	106836.000	3.5	4P2	(7P)8P
156.6097	-6.386	27314.922	3.5	D6S	(3F)2F	91167.937	3.5	5P	(5D)6P	157.2414	-4.026	31483.176	3.5	D6S	(3D)4D
156.6160	-3.888	44929.550	2.5	D6S	(1F)2F	108780.000	1.5	270DD		157.2612	-4.330	27620.412	2.5	D6S	(3F)2F
156.6255	-4.957	89924.175	5.5	D6S	(5D)4D	72238.513	2.5	4P	(3D)4F	157.2668	-5.398	27314.922	3.5	D6S	(3F)2F
156.6280	-4.447	22637.205	4.5	D6S	(3F)4F	86482.750	3.5	4P	(1F)2F	157.2749	-2.245	8846.768	0.5	D6S	(5D)4D
156.6315	-2.450	8680.454	1.5	D6S	(5D)4D	72524.566	1.5	4P	(3D)4D	157.2756	-2.738	2430.097	3.5	D7	(5D)4F
156.6346	-1.984	20516.960	2.5	D7	(5D)2D	84359.800	1.5	4P	(1F)2D	157.2756	-2.738	8391.938	2.5	D6S	(5D)4D
156.6457	-5.987	25787.598	1.5	D6S	(3P)2P	89625.940	1.5	4P	(1F)2D	157.3000	-1.819	8391.938	2.5	D6S	(5D)4D
156.6540	-4.094	26055.423	2.5	D6S	(3G)4G	89890.373	3.5	4P	(3F)4G	157.3021	-1.723	102030.912	3.5	6S	(5D)6D
156.6554	-3.370	2837.950	2.5	D7	(5D)4F	66672.334	3.5	4P	(3F)4G	157.3034	-5.492	26352.766	4.5	D6S	(3H)2H
156.6705	-4.478	22939.358	2.5	D6S	(5D)4F	86767.577	2.5	4P	(3P)4D	157.3056	-7.706	26055.423	2.5	D6S	(3G)4G
										157.3218	-4.842	384.790	3.5	D6S	(5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
157.3244	-4.727	31483.176	3.5	D6S (3D)4D	95046.100	2.5	4P (3F)2F	157.9199	-6.850	157.9199	4.5	D6S (3C)4G	89128.561	3.5	4SP(3P)6P
157.3247	-8.231	862.613	1.5	D6S (5D)6D	64425.408	2.5	4P (3F)2F	157.9224	-3.487	8846.768	0.5	D6S (5D)4D	72168.998	1.5	4P (5D)4F
157.3365	-6.141	8680.454	1.5	D6S (5D)4D	72238.513	2.5	4P (3D)4F	157.9257	-1.310	102334.112	2.5	6S (5D)6D	39013.206	1.5	4P (5D)6D
157.3381	-2.120	102666.694	0.5	6S (5D)6D	39109.307	1.5	4P (5D)6D	157.9260	-4.981	105288.847	6.5	4D (3F)4H	41968.046	5.5	4P (3D)6F
157.3428	-4.558	36252.918	2.5	D6S (3D)2D	99808.400	3.5	4P (1G)2G	157.9264	-3.097	31364.440	1.5	D6S (3D)4D	94685.090	2.5	4SP(5D)6P
157.3625	-9.190	27620.412	2.5	D6S (3F)2F	91167.937	3.5	5P (5D)6P	157.9462	-4.234	31387.948	2.5	D6S (3D)4D	94700.660	2.5	4P (3F)2D
157.3723	-8.977	27877.598	1.5	D6S (3P)2P	89331.195	1.5	5P (5D)6D	157.9519	-3.849	105711.730	2.5	5D (5D)6S	47401.302	1.5	4P (5D)6D
157.3728	-4.621	22939.358	2.5	D6S (3F)4F	86482.750	3.5	4P (1F)2F	157.9538	-3.896	44929.550	2.5	D6S (1F)2F	108239.200	3.5	240DD
157.3828	-1.211	2837.950	2.5	D7 (5D)4F	66377.283	3.5	4P (3G)4F	157.9560	-3.758	30764.485	3.5	D6S (3G)2G	94073.240	3.5	4SP(5G)4G
157.3871	-7.254	26352.766	4.5	D6S (3H)2H	89890.978	3.5	4P (3F)4G	157.9850	-2.471	31387.948	2.5	D6S (3D)4D	94685.090	2.5	4SP(5D)6P
157.3917	-2.066	102394.718	3.5	6S (5D)4D	38858.353	2.5	4P (5D)6D	157.9880	-3.478	105630.750	2.5	5D (5D)4G	42334.822	2.5	4P (5D)6F
157.3997	-1.980	8680.454	1.5	D6S (5D)4D	72212.978	0.5	4P (3D)4P	157.9913	-3.925	25428.784	5.5	D6S (3G)4G	88723.400	4.5	5P (5D)6D
157.4038	-0.461	20340.300	5.5	D7 (5D)2H	83871.184	4.5	4P (1F)2G	157.9946	-6.733	30764.485	3.5	D6S (3G)2G	94057.773	4.5	4SP(3D)6D
157.4049	-2.979	102543.648	1.5	6S (5D)6D	39013.206	1.5	4P (1F)2G	158.0172	-2.820	8680.454	1.5	D6S (5D)4D	71964.710	2.5	4P (3D)4P
157.4079	-5.315	20830.582	2.5	D6S (3P)4P	84359.800	1.5	4P (1F)2D	158.0260	-6.327	27620.412	2.5	D6S (3F)2F	90901.124	2.5	5P (5D)4P
157.4399	-2.975	31364.440	1.5	D6S (3D)4D	94880.740	0.5	4SP(5P)4P	158.0277	-3.007	31483.176	3.5	D6S (3D)4D	94763.219	3.5	4SP(3D)6P
157.4402	-4.400	23031.300	1.5	D6S (3F)4F	86547.490	2.5	4P (1F)2F	158.0317	-5.525	27620.412	2.5	D6S (3F)2F	90998.873	1.5	4P (3F)4P
157.4489	-4.317	23031.300	1.5	D6S (3F)4F	86543.974	1.5	4P (3F)4D	158.0384	-6.389	26055.423	2.5	D6S (3G)4G	89331.195	1.5	5P (5D)6D
157.4498	-2.293	31368.450	0.5	D6S (3D)4D	94880.740	0.5	4SP(5P)4P	158.0582	-2.631	31811.822	2.5	D7 (5D)2F	95079.640	3.5	4P (3F)2F
157.4772	-1.432	2430.097	3.5	D7 (5D)4F	65931.334	3.5	4P (3G)4G	158.0629	-0.492	2430.097	3.5	D7 (5D)4F	65896.038	4.5	4P (5D)6F
157.4822	-0.555	3117.461	1.5	D7 (5D)4F	66612.656	1.5	4P (3G)4G	158.1200	-0.436	105211.140	4.5	5D (5D)4G	41968.046	5.5	4P (5D)6F
157.5026	-1.132	1872.567	4.5	D7 (5D)4F	65363.595	5.5	4P (3H)2H	158.1270	-2.776	2837.950	2.5	D7 (5D)4F	66078.269	2.5	4P (3G)4G
157.5087	-2.919	8680.454	1.5	D6S (5D)4D	72168.998	1.5	4P (3D)4F	158.1290	-0.770	101698.489	4.5	6S (5D)6D	38458.989	4.5	4P (5D)6D
157.5129	-6.845	15844.650	4.5	D7 (5D)2G	79331.500	3.5	4SP(5S)6P	158.1350	-0.871	1872.567	4.5	D7 (5D)4F	65109.671	3.5	4P (3F)2D
157.5420	-1.706	102334.112	2.5	6S (5D)6D	38858.958	2.5	4P (5D)6D	158.1421	-1.078	31811.822	2.5	D7 (5D)2F	95046.100	2.5	4P (3F)2F
157.5431	-3.819	105711.730	2.5	5D (5D)6S	42237.033	3.5	4P (5D)6F	158.1531	-7.160	23317.633	2.5	D582 (7S)6S	86547.490	2.5	4P (1F)2F
157.5654	-5.616	27314.922	3.5	D6S (3F)2F	90780.621	3.5	5P (5D)4F	158.1542	-2.792	105630.750	2.5	5D (5D)4G	42401.302	1.5	4P (5D)6F
157.5726	-6.982	25981.629	3.5	D6S (3G)4G	89444.458	2.5	4SP(5P)6P	158.1593	-1.460	31811.822	2.5	D7 (5D)2F	95039.200	1.5	4P (3F)2P
157.5827	-4.090	44915.046	3.5	D6S (1F)2F	90873.800	3.5	260DD	158.1619	-7.641	23317.633	2.5	D582 (7S)6S	86543.974	1.5	4P (3F)4D
157.6041	-8.295	27620.412	2.5	D6S (3F)2F	91070.547	2.5	5P (5D)4F	158.1658	-6.149	862.613	1.5	D6S (5D)6D	64087.418	2.5	4P (3F)4G
157.6046	-6.439	23317.633	2.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D	158.1686	-2.505	30764.485	3.5	D6S (3G)2G	93988.170	2.5	4SP(5G)4G
157.6112	-6.019	30764.485	3.5	D6S (3G)2G	94211.739	2.5	4SP(5P)4P	158.1704	-7.197	30764.485	3.5	D6S (3G)2G	93987.457	3.5	4SP(3D)6D
157.6187	-3.238	44929.550	2.5	D6S (1F)2F	108373.800	3.5	260DD	158.1881	-4.220	25787.598	1.5	D6S (1F)2F	89003.460	0.5	4P (3P)2S
157.6239	-2.690	102543.648	1.5	6S (5D)6D	39109.307	1.5	250DD	158.1889	-2.751	44915.046	3.5	D6S (1F)2F	108130.000	2.5	4P (3P)2S
157.6595	-5.085	27620.412	2.5	D6S (3F)2F	91048.256	1.5	5P (5D)4D	158.1965	-3.082	105449.540	3.5	5D (5D)4G	42237.033	3.5	4P (5D)6F
157.6796	-6.317	667.683	2.5	D6S (5D)6D	64087.418	2.5	4P (3F)4G	158.2231	-3.379	31483.176	3.5	D6S (3D)4D	94685.090	2.5	4SP(5D)6P
157.7046	-3.005	38164.194	2.5	D6S (1D)2D	101573.900	1.5	4SP(5D)6P	158.2252	-4.395	44929.550	2.5	D6S (1F)2F	108130.000	2.5	220DD
157.7167	-1.223	3117.461	1.5	D7 (5D)4F	66522.304	2.5	4P (3G)4F	158.2372	-2.659	8846.768	0.5	D6S (5D)4D	72043.026	1.5	4P (3D)4P
157.7360	-4.639	105630.750	2.5	5D (5D)4G	42237.033	3.5	4P (5D)6F	158.2582	-4.145	38214.507	1.5	D6S (1D)2D	101402.380	0.5	4SP(5D)4P
157.7685	-4.190	30764.485	3.5	D6S (3G)2G	89444.458	2.5	4SP(5P)6P	158.2958	-4.685	25428.784	5.5	D6S (3G)4G	88614.520	4.5	4SP(3P)6D
157.7720	-3.738	36252.918	2.5	D6S (3D)2D	99635.520	3.5	4SP(3G)2G	158.2998	-1.273	27314.922	3.5	D6S (3F)2F	90487.810	2.5	5P (5D)6F
157.7903	-4.016	31387.948	2.5	D6S (3D)4D	94763.219	3.5	4SP(5D)6P	158.3152	-6.437	23317.633	2.5	D582 (7S)6S	86482.750	3.5	4P (1F)2F
157.7916	-2.135	31364.440	1.5	D6S (3D)4D	94739.170	1.5	4SP(5P)4P	158.3275	-6.332	27620.412	2.5	D6S (3F)2F	90780.621	3.5	5P (5D)4F
157.7954	-5.527	667.683	2.5	D6S (5D)6D	64040.886	3.5	4P (3F)4G	158.3608	-6.823	25981.629	3.5	D6S (3G)4G	89128.561	3.5	4SP(5P)6P
157.8012	-1.198	102030.912	3.5	6S (5D)6D	38660.043	3.5	4P (5D)6D	158.3837	-5.539	25981.629	3.5	D6S (3G)4G	89119.457	2.5	5P (5D)6D
157.8016	-2.075	31368.450	0.5	D6S (3D)4D	94739.170	1.5	4SP(5P)4P	158.4003	-4.819	3117.461	1.5	D7 (5D)4F	66248.660	0.5	4P (3P)2S
157.8128	-2.076	8846.768	0.5	D6S (5D)4D	72212.978	0.5	4P (3D)4P	158.4129	-2.312	2430.097	3.5	D7 (5D)4F	65556.280	4.5	4P (3H)2H
157.8219	-1.886	8680.454	1.5	D6S (5D)4D	72043.026	1.5	4P (3D)4P	158.4416	-2.160	105449.540	3.5	5D (5D)4G	42334.822	2.5	4P (5D)6F
157.8345	-3.868	23031.300	1.5	D6S (3F)4F	86388.820	0.5	4P (3P)4D	158.4808	-3.690	30388.542	4.5	D6S (3G)2G	93487.650	3.5	4P (3F)4F
157.8495	-0.700	20516.960	2.5	D7 (5D)2D	83868.450	2.5	4P (1F)2D	158.4878	-2.774	105211.140	4.5	5D (5D)4G	42114.818	4.5	4P (3F)4F
157.8502	-2.879	31387.948	2.5	D6S (3D)4D	94739.170	1.5	4SP(5P)4P	158.4886	-3.262	30388.542	4.5	D6S (3G)2G	93484.580	4.5	4P (3G)4G
157.8913	-4.502	105449.540	3.5	5D (5D)4G	42114.818	4.5	4P (5D)6F	158.4952	-0.584	2837.950	2.5	D7 (5D)4F	65931.334	3.5	4P (3G)4G
157.8984	-6.390	25787.598	1.5	D6S (3P)2P	89119.457	2.5	5P (5D)6D	158.5214	-5.044	27314.922	3.5	D6S (3F)2F	90397.868	3.5	5P (5D)4D
157.9048	-4.087	32909.905	5.5	D6S (11)2I	96239.200	4.5	4SP(3G)2H	158.5274	-0.786	31999.048	3.5	D7 (5D)2F	95079.640	3.5	4P (3F)2F
157.9176	-3.940	44915.046	3.5	D6S (1F)2F	108239.200	3.5	240DD	158.5305	-4.570	105414.180	2.5	4D (3F)4G	42334.822	2.5	4P (5D)6F
157.9183	-4.524	27314.922	3.5	D6S (3F)2F	90638.822	2.5	5P (5D)4D	158.5461	-8.519	26055.423	2.5	D6S (3G)4G	89128.561	3.5	4SP(5P)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
158.5500	-7.712	27314.922	3.5	D6S	90386.528	4.5	5P (5D)4F	159.2598	-3.010	105230.290	0.5	5D	(5D)4D	42439.822	0.5	4P	(5D)6F
158.5628	-7.551	30764.485	3.5	D6S	93830.979	2.5	4SP(5D)6D	159.2654	-3.432	20516.960	2.5	D7	(5D)2G	83305.251	3.5	4P	(1F)2G
158.5655	-2.161	20805.770	4.5	D7	83871.184	4.5	4P (1F)2G	159.2909	-3.383	33501.253	3.5	D6S	(1G)2G	96279.490	2.5	4SP	(3G)2F
158.5690	-6.381	26055.423	2.5	D6S	89119.457	2.5	5P (5D)6D	159.2929	-6.889	27620.412	2.5	D6S	(3F)2F	90397.868	3.5	5P	(5D)4D
158.5943	-4.207	105291.010	3.5	4D	42237.033	3.5	4P (5D)6F	159.2971	-9.495	26352.766	4.5	D6S	(3H)2H	89128.561	3.5	4SP	(5P)6P
158.5955	-1.073	105711.730	2.5	5D	42658.224	3.5	4P (5D)6F	159.3048	-2.994	33466.463	4.5	D6S	(1G)2G	96239.200	4.5	4SP	(3G)2H
158.5999	-0.758	21308.040	1.5	D7	84359.800	1.5	4P (1F)2D	159.3054	-4.895	107219.500	4.5	4P2	(7F)8P	44446.878	3.5	4P	(5D)4D
158.6052	-2.352	44915.046	3.5	D6S	107964.700	4.5	210DD	159.3412	-3.079	104873.230	3.5	5D	(5D)4D	42114.818	4.5	4P	(5D)6F
158.6088	-4.801	25805.328	4.5	D6S	88853.533	3.5	5P (5D)6D	159.3532	-1.062	108668.500	4.5	5D	(5D)6G	42114.818	4.5	4P	(5D)6F
158.6117	-2.411	31999.048	3.5	D7	95046.100	2.5	4P (3F)2F	159.3564	-6.713	27314.922	3.5	D6S	(3F)2F	90067.347	4.5	5P	(5D)6F
158.6288	-4.970	105155.090	4.5	4D	42114.818	4.5	4P (5D)6F	159.3601	-3.671	33466.463	4.5	D6S	(1G)2G	96217.420	3.5	4SP	(5P)4D
158.6334	-1.291	101698.489	4.5	6S	38660.043	3.5	4P (5D)6D	159.3661	-1.518	104863.430	5.5	D6S	(5D)4G	42114.818	4.5	4P	(5D)6F
158.6348	-3.771	20830.582	2.5	D6S	83868.450	2.5	4P (1F)2D	159.3685	-9.929	25981.629	3.5	D6S	(3G)4G	88723.400	4.5	5P	(5D)6D
158.6838	-6.334	27620.412	2.5	D6S	90638.822	2.5	5P (5D)6D	159.3845	-3.378	30388.542	4.5	D6S	(3G)2G	93129.900	3.5	4P	(3F)4D
158.7063	-5.035	27620.412	2.5	D6S	90629.902	1.5	4P (3P)4S	159.3932	-3.048	33501.253	3.5	D6S	(1G)2G	96239.200	4.5	4SP	(3G)2H
158.7662	-5.599	27314.922	3.5	D6S	90300.625	3.5	5P (5D)6F	159.4113	-0.334	105065.630	3.5	5D	(5D)6G	42334.822	2.5	4P	(5D)6F
158.7954	-1.708	105211.140	4.5	5D	42237.033	3.5	4P (5D)6F	159.4170	-2.256	13483.176	3.5	D6S	(3D)4D	94211.739	2.5	4SP	(5P)4P
158.7980	-5.233	27620.412	2.5	D6S	90593.497	1.5	5P (5D)6F	159.4188	-4.654	27314.922	3.5	D6S	(3F)2F	90042.779	4.5	4P	(3F)4G
158.7994	-2.612	105630.750	2.5	5D	42658.224	3.5	4P (5D)6P	159.4223	-3.025	105127.770	2.5	5D	(5D)4D	42401.302	1.5	4P	(3F)4F
158.8019	-3.783	44915.046	3.5	D6S	107886.600	3.5	200DD	159.4307	-3.744	30764.485	3.5	D6S	(3G)2G	93487.650	3.5	4P	(3F)4F
158.8089	-2.095	105205.790	2.5	5D	42237.033	3.5	4P (5D)6F	159.4385	-6.024	30764.485	3.5	D6S	(3G)2G	93487.650	3.5	4P	(3F)4F
158.8256	-8.125	16369.360	3.5	D7	79331.500	3.5	4SP(5S)8P	159.4855	-0.701	31999.048	3.5	D7	(5D)2F	94700.660	2.5	4P	(3F)2D
158.8290	-0.786	3117.461	1.5	D7	66078.269	2.5	4P (3G)4G	159.4976	-5.451	862.613	1.5	D6S	(5D)6D	63559.488	0.5	4P	(3F)4D
158.8326	-3.060	1872.567	4.5	D7	64831.943	4.5	4P (3F)2G	159.5070	-6.579	26932.748	0.5	D6S	(3F)2F	89625.940	1.5	4SP	(5P)6P
158.8394	-2.942	44929.550	2.5	D6S	107886.600	3.5	200DD	159.5251	-2.659	31999.048	3.5	D7	(5D)2F	94685.090	2.5	4SP	(5D)6P
158.8406	-4.517	105291.010	3.5	4D	42334.822	2.5	4P (5D)6F	159.5271	-2.545	31387.948	2.5	D6S	(3D)4D	94073.240	3.5	4SP	(5G)4G
158.8469	-2.141	105288.530	3.5	5D	42334.822	2.5	4P (5D)6G	159.5400	-9.560	27620.412	2.5	D6S	(3F)2F	90300.625	3.5	5P	(5D)6F
158.8542	-2.244	105065.630	3.5	5D	42114.818	4.5	4P (5D)6F	159.5416	-3.163	2430.097	3.5	D7	(5D)4F	65109.679	3.5	4P	(3F)2G
158.8594	-3.685	105063.550	5.5	4D	42114.818	4.5	4P (5D)6F	159.5592	-3.697	13904.824	0.5	D7	(5D)4P	76577.460	0.5	4P	(18)2P
158.8688	-2.889	0.000	4.5	D6S	62945.038	3.5	4P (3F)4G	159.5738	-3.155	31364.440	1.5	D6S	(3D)4D	94031.378	0.5	4SP	(5D)6D
158.9134	-3.074	31811.822	2.5	D7	94739.170	1.5	4P (5P)4P	159.5779	-2.498	31483.176	3.5	D6S	(5G)4G	94148.510	4.5	4SP	(5G)4G
158.9368	-5.150	25805.328	4.5	D6S	88723.400	4.5	5P (5D)6D	159.5857	-6.063	31368.450	0.5	D6S	(3D)4D	94031.378	0.5	4SP	(5D)6D
158.9369	-3.833	105155.090	4.5	4D	42237.033	3.5	4P (5D)6F	159.6041	-4.960	13474.411	2.5	D7	(5D)4P	76129.446	1.5	4P	(18)2P
158.9427	-5.923	16369.360	3.5	D7	79285.110	2.5	4SP(5S)8P	159.6276	-2.849	36252.918	2.5	D6S	(3D)2D	98898.710	3.5	4P	(1G)2F
158.9717	-5.569	13673.185	1.5	D7	76577.482	0.5	4P (18)2P	159.6328	-3.152	36126.387	1.5	D6S	(3D)2D	98770.140	1.5	4SP	(5D)4D
158.9814	-2.714	104868.500	4.5	5D	41968.046	5.5	4P (5D)6F	159.6521	-2.035	104873.230	3.5	5D	(5D)4D	42237.033	3.5	4P	(5D)6F
158.9942	-2.501	104863.430	5.5	5D	41968.046	5.5	4P (5D)6F	159.6605	-6.534	25981.629	3.5	D6S	(3G)4G	88614.520	4.5	4SP	(5P)6D
159.0059	-2.739	105127.770	2.5	5D	42237.033	3.5	4SP(3G)2F	159.6642	-0.197	104868.500	4.5	5D	(5D)6G	42237.033	3.5	4P	(5D)6F
159.0107	-1.932	31811.822	2.5	D7	94700.660	2.5	4P (3F)4D	159.6657	-3.345	30764.485	3.5	D6S	(3G)2G	93395.360	2.5	4P	(3F)4F
159.0124	-3.843	384.790	3.5	D6S	63272.976	2.5	4P (3F)4D	159.6801	-1.310	104593.270	5.5	5D	(5D)6G	41968.046	5.5	4P	(5D)6F
159.0148	-1.068	105288.530	1.5	5D	42401.302	1.5	4P (5D)6F	159.6839	-2.855	31364.440	1.5	D6S	(3D)4D	93988.170	2.5	4SP	(5G)4G
159.0298	-2.522	36126.387	1.5	D6S	99007.700	0.5	4SP(5D)6D	159.7309	-4.918	667.683	2.5	D6S	(5D)6D	63465.109	1.5	4P	(3F)4D
159.0501	-3.924	31811.822	2.5	D7	94685.090	2.5	4P (5D)6F	159.7380	-6.579	862.613	1.5	D6S	(5D)6D	63465.109	1.5	4P	(3F)4D
159.0536	-5.860	25981.629	3.5	D6S	88853.533	3.5	5P (5D)6D	159.7438	-3.208	31387.948	2.5	D6S	(3D)4D	93988.170	2.5	4SP	(5G)4G
159.0559	-0.939	105205.790	2.5	5D	42334.822	2.5	4P (5D)6F	159.7457	-4.015	31387.948	2.5	D6S	(3D)4D	93987.457	3.5	4SP	(5D)6D
159.0650	-7.939	27620.412	2.5	D6S	90487.810	2.5	5P (5D)6F	159.7556	-3.179	33466.463	4.5	D6S	(1G)2G	96062.060	5.5	4SP	(3G)2H
159.0945	-2.048	33501.253	3.5	D6S	96356.960	3.5	4SP(3G)2F	159.7556	-3.179	33466.463	4.5	D6S	(1G)2G	96062.060	5.5	4SP	(3G)2H
159.1123	-0.677	105288.530	1.5	5D	42439.822	0.5	4P (5D)6F	159.7671	-2.694	104868.500	4.5	5D	(5D)6D	42237.033	3.5	4P	(5D)6F
159.1158	-3.200	31364.440	1.5	D6S	94211.739	2.5	4SP(5P)4P	159.7684	-2.728	104705.420	3.5	5D	(5D)6D	42114.818	4.5	4P	(5D)6F
159.1622	-2.995	105230.290	0.5	5D	42401.302	1.5	4P (5D)6F	159.7698	-3.272	31483.176	3.5	D6S	(3D)4D	94073.240	3.5	4SP	(5G)4G
159.1632	-0.981	105065.630	3.5	5D	42237.033	3.5	4P (5D)6G	159.7892	-5.394	977.053	0.5	D6S	(5D)6D	63559.488	0.5	4P	(3F)4D
159.1754	-2.353	31387.948	2.5	D6S	94211.739	2.5	4SP(5P)4P	159.8071	-4.152	27314.922	3.5	D6S	(3F)2F	98990.373	3.5	4P	(3F)4G
159.2124	-5.114	25805.328	4.5	D6S	88614.520	4.5	4SP(5P)6D	159.8093	-4.150	31483.176	3.5	D6S	(3D)4D	94057.773	4.5	4SP	(5D)6D
159.2243	-0.485	105205.790	2.5	5D	42401.302	1.5	4P (5D)6G	159.8251	-5.012	7955.299	3.5	D6S	(5D)4D	70523.706	3.5	4P	(3G)2G
159.2422	-4.664	667.683	2.5	D6S	63465.109	1.5	4P (3F)4D	159.8455	-3.163	21308.040	1.5	D7	(5D)2D	83868.450	2.5	4P	(1F)2D
159.2536	-4.474	105127.770	2.5	5D	42334.822	2.5	4P (5D)6F	159.8459	-3.795	384.790	3.5	D6S	(5D)6D	62945.038	3.5	4P	(3F)4D
159.2577	-4.306	105449.540	3.5	5D	42658.224	3.5	4P (5D)6P	159.8639	-5.165	26170.181	5.5	D6S	(3H)2H	88723.400	4.5	5P	(5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	EVEN E	J	LABEL	ODD E	J	LABEL
159.8646	-3.812	105211.140	4.5	5D (5D)4G	42658.224	3.5	4P (5D)6P	-6.491	160.5864	25787.598	1.5	D6S (3P)2F	86059.380	2.5	4SP(5P)6D
159.8779	-5.586	21812.055	1.5	D6S (3P)4P	84359.820	3.5	4P (1F)2D	-8.966	160.5865	2837.950	2.5	D7 (5D)4F	65109.679	3.5	4P (3F)2G
159.8783	-4.439	105205.790	2.5	5D (5D)6G	42658.224	3.5	4P (5D)6P	-5.006	160.5911	27620.412	2.5	D6S (3F)2F	89890.373	3.5	4P (3F)4G
159.9012	-6.483	26932.748	0.5	D6S (3P)2P	89471.365	0.5	5P (5D)6D	-2.370	160.6010	104380.940	3.5	5D (5D)6F	42114.818	4.5	4P (5D)6F
159.9017	-1.902	104873.230	3.5	5D (5D)4D	42334.822	2.5	4P (5D)6F	-6.973	160.6122	26352.766	4.5	D6S (3H)2H	88614.520	4.5	4SP(5P)6D
159.9559	-2.742	36252.918	2.5	D6S (3D)2D	98770.140	1.5	4SP(5D)4D	-4.810	160.6130	31811.822	2.5	D7 (5D)2F	94073.240	3.5	4SP(5G)4G
159.9872	-4.934	31483.176	3.5	D6S (3D)4D	93988.170	2.5	4SP(5D)6D	-2.480	160.6325	104588.710	1.5	5D (5D)6D	42334.822	2.5	4P (5D)6F
159.9890	-3.468	31483.176	3.5	D6S (3D)4D	93987.457	3.5	4SP(5D)6D	-3.562	160.6369	36252.918	2.5	D6S (3D)2D	98505.100	2.5	4SP(5D)4D
159.9980	-7.066	26332.766	4.5	D6S (3H)2H	83305.251	3.5	5P (5D)6P	-5.107	160.6411	44915.046	3.5	D6S (1F)2F	107165.600	3.5	170DD
160.0013	-0.612	20805.770	4.5	D7 (5D)2H	83305.251	3.5	4P (1F)2G	-3.132	160.6631	13673.185	1.5	D7 (5D)4F	75915.215	2.5	4P (3D)2F
160.0142	-3.804	33501.253	3.5	D6S (1G)2G	95959.690	2.5	4SP(5P)4D	-2.054	160.6786	44929.530	2.5	D6S (1F)2F	42401.302	1.5	4P (5D)6F
160.0171	-1.484	104828.160	2.5	5D (5D)6D	42334.822	2.5	4P (5D)6F	-3.905	160.6965	36126.387	1.5	D6S (3D)2D	98358.466	2.5	4SP(5P)6D
160.0306	-5.207	977.053	0.5	D6S (5D)6D	63465.109	1.5	4P (3F)4D	-6.028	160.6998	25981.629	3.5	D6S (3G)4G	88209.450	3.5	4SP(5P)6D
160.0552	-0.077	104593.270	5.5	5D (5D)6G	42114.818	4.5	4P (5D)6F	-3.416	160.7081	13904.824	0.5	D7 (5D)4P	76129.446	1.5	4P (1S)2P
160.0617	-3.060	31364.440	1.5	D6S (3D)4D	93840.340	1.5	4SP(5D)6D	-1.033	160.7329	104873.230	3.5	5D (5D)4D	42658.224	3.5	4P (5D)6P
160.0649	-6.276	20830.582	2.5	D6S (3P)4P	83305.251	3.5	4P (1F)2G	-4.774	160.7351	30388.542	4.5	D6S (3G)2G	92602.703	3.5	4P (3F)2G
160.0720	-4.246	31368.450	0.5	D6S (3D)4D	93840.340	1.5	4SP(5D)6D	-3.005	160.7389	31999.048	3.5	D7 (5D)2F	94211.739	2.5	4SP(5P)4D
160.0780	-1.600	105127.770	2.5	5D (5D)4D	42658.224	3.5	4P (5D)6P	-3.093	160.7410	36126.387	1.5	D6S (3D)2D	98338.280	1.5	4SP(5P)4S
160.0857	-4.977	31364.440	1.5	D6S (3D)4D	93830.979	2.5	4SP(5D)6D	-1.755	160.7434	105449.540	3.5	5D (5D)4G	43238.586	2.5	4P (5D)6P
160.1121	-3.747	13673.185	1.5	D7 (5D)4P	76129.446	1.5	4P (1S)2P	-2.902	160.7960	104630.430	1.5	5D (5D)6F	42439.822	0.5	4P (5D)6F
160.1220	-3.568	31387.948	2.5	D6S (3D)4D	93840.340	1.5	4SP(5D)6D	-1.755	160.7990	104426.460	2.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
160.1426	-5.477	26170.181	5.5	D6S (3H)2H	88614.520	4.5	4SP(5P)6D	-1.664	160.8043	104588.710	1.5	5D (5D)6D	42401.302	1.5	4P (5D)6F
160.1444	-2.085	104411.690	4.5	5D (5D)6D	41968.046	5.5	4P (5D)6F	-4.945	160.8083	38214.507	1.5	D6S (1D)2D	100400.360	2.5	4SP(5G)4G
160.1460	-3.042	31387.948	2.5	D6S (3D)4D	93830.979	2.5	4SP(5D)6D	-3.832	160.8329	31811.822	2.5	D7 (5D)2F	93988.170	2.5	4SP(5P)6D
160.1516	-4.024	21430.359	5.5	D6S (3H)4H	83871.184	4.5	4P (1F)2D	-0.290	160.8451	0.000	4.5	D6S (5D)6D	62171.615	3.5	4SP(7S)6P
160.1517	-4.662	13474.411	2.5	D7 (5D)4P	75915.215	2.5	4P (3D)2F	-1.053	160.8494	1872.567	4.5	D7 (5D)4F	64040.886	3.5	4P (3F)4G
160.1875	-2.695	104828.160	2.5	5D (5D)6D	42401.302	1.5	4P (3F)2F	-6.019	160.8771	17171.917	3.5	D6S (3H)4H	83871.184	4.5	4P (1F)2G
160.2210	-2.265	1872.962	4.5	D7 (5D)4F	64286.345	3.5	4P (5D)6F	-1.780	160.8801	0.000	4.5	D6S (5D)6D	62158.110	4.5	4P (3F)4F
160.2245	-4.665	27314.922	3.5	D6S (3F)2F	89727.342	2.5	4P (3F)4G	-4.605	160.8841	21711.917	3.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D
160.2298	-4.788	862.613	1.5	D6S (5D)6D	63272.976	2.5	4P (3F)4D	-6.274	160.8841	21711.917	3.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D
160.2374	-4.795	105065.630	3.5	5D (5D)6G	42658.224	3.5	4P (5D)6P	-7.897	160.8906	26055.423	2.5	D6S (3H)4H	88209.450	3.5	4SP(5P)6D
160.2458	-5.018	25805.328	4.5	D6S (3G)4G	88209.450	3.5	4SP(5P)6D	-4.922	160.9024	31999.048	3.5	D7 (5D)2F	94148.510	4.5	4SP(5G)4G
160.2517	-2.104	2430.097	3.5	D7 (5D)4F	64831.943	4.5	4P (3F)2G	-2.140	160.9039	104588.710	1.5	5D (5D)6D	42439.822	0.5	4P (5D)6F
160.2566	-4.232	31811.822	2.5	D7 (5D)2F	94211.739	2.5	4SP(5P)4D	-1.020	160.9168	104380.940	3.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
160.2596	0.031	104366.820	6.5	5D (5D)6G	41968.046	5.5	4P (5D)6F	-7.897	160.9311	36252.918	2.5	D6S (3F)2F	92899.200	2.5	4SP(5P)6P
160.2604	-8.773	26932.748	0.5	D6S (3P)2P	88723.400	4.5	5P (5D)6D	-4.922	160.9406	30764.485	3.5	D6S (3G)2G	70523.706	3.5	4P (3G)2G
160.2765	-2.346	105630.750	2.5	5D (5D)4G	98505.100	2.5	4SP(5D)4D	-5.748	160.9483	8391.938	2.5	D6S (5D)4D	89444.458	2.5	4SP(5P)6P
160.3111	-3.359	36126.387	1.5	D6S (3D)2D	98505.100	2.5	4SP(5D)4D	-8.228	160.9540	27314.922	3.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6P
160.3319	-6.869	26332.766	4.5	D6S (3H)2H	88723.400	4.5	5P (5D)6D	-3.383	160.9619	13474.411	2.5	D7 (5D)4F	75600.931	3.5	4P (3D)2F
160.3320	-3.662	104705.420	3.5	5D (5D)6D	42334.822	2.5	4P (5D)6F	-4.197	161.0033	25787.598	1.5	D6S (3P)2P	87898.120	0.5	4SP(5G)6F
160.3453	-3.888	30764.485	3.5	D6S (3G)2G	93129.900	3.5	4P (3F)4D	-8.228	161.0126	161.0126	-4.197	161.0126	-4.197	161.0126	-4.197
160.3610	-4.593	7955.299	3.5	D6S (5D)4D	70314.600	4.5	4P (3G)2G	-3.890	161.0261	36252.918	2.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6P
160.3700	-4.450	104737.110	0.5	5D (5D)6D	42401.302	1.5	4P (5D)6F	-1.560	161.0314	161.0314	-1.560	161.0314	-1.560	161.0314	-1.560
160.3906	-3.872	31483.176	3.5	D6S (3D)4D	93830.979	2.5	4SP(5D)6D	-4.896	161.0317	161.0317	-4.896	161.0317	-4.896	161.0317	-4.896
160.4559	-3.353	0.000	4.5	D6S (5D)6D	62322.431	3.5	4P (3H)2G	-1.389	161.0523	104426.460	2.5	5D (5D)6F	42334.822	2.5	4P (5D)6F
160.4583	-1.790	16369.360	3.5	D7 (5D)2G	78690.846	2.5	4P (1D)2D	-0.681	161.0545	105711.730	2.5	5D (5D)6S	43620.957	1.5	4P (5D)6P
160.4691	-1.958	104737.110	0.5	5D (5D)6D	42439.822	0.5	4P (5D)6F	-2.733	161.0686	36252.918	2.5	D6S (3D)2D	98338.280	1.5	4SP(5P)6D
160.5005	-4.234	384.790	3.5	D6S (5D)6D	62689.880	2.5	4P (3P)4D	-5.084	161.0744	0.000	4.5	D6S (5D)6D	62083.108	4.5	4P (3H)2G
160.5217	-0.902	104411.690	4.5	5D (5D)6F	42114.818	4.5	4P (5D)6F	-7.043	161.0883	25981.629	3.5	D6S (3G)4G	88059.380	2.5	4SP(5P)6D
160.5250	-3.157	104630.430	1.5	5D (5D)6P	42334.822	2.5	4P (5D)6F	-0.857	161.0923	1872.567	4.5	D7 (5D)4F	63948.790	4.5	4P (3F)4G
160.5278	-5.191	667.683	2.5	D6S (5D)6D	62962.205	1.5	4P (3P)4D	-3.578	161.0975	31999.048	3.5	D7 (5D)2F	94073.240	3.5	4SP(5G)4G
160.5324	-0.696	15844.650	4.5	D7 (5D)2F	78137.364	3.5	4P (3P)4D	-6.14	161.1066	26932.748	0.5	D6S (3P)2S	89003.260	0.5	4P (3P)2S
160.5406	-6.390	21581.638	4.5	D6S (3H)4H	83871.184	4.5	4P (1F)2G	-3.242	161.1094	36126.387	1.5	D6S (3D)2D	98196.000	1.5	4SP(5D)4F
160.5576	-3.865	36252.918	2.5	D6S (3D)2D	98535.850	3.5	4SP(5D)4F	-2.834	161.1201	0.000	4.5	D6S (5D)6D	62066.450	2.5	4P (3F)4D
160.5622	-4.133	44915.046	3.5	D6S (1F)2F	107196.200	2.5	180DD	-6.337	161.1437	21812.055	1.5	D6S (3P)4D	83868.450	2.5	4P (1F)2D
160.5720	-4.407	667.683	2.5	D6S (5D)6D	62945.038	3.5	4P (3F)4D	-4.769	161.1605	105288.530	1.5	5D (5D)6G	43238.586	2.5	4P (5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
161.1766	-1.755	104705.420	3.5	5D (5D)6D	42658.224	3.5	4P (5D)6P	161.8484	-3.742	50142.786	2.5	D6S (3F)4F	111929.000	2.5	290DD
161.1704	-2.107	104380.940	3.5	5D (5D)6F	42334.822	2.5	4P (5D)6F	161.8504	-1.783	104120.270	2.5	5D (5D)6P	42334.822	2.5	4P (5D)6F
161.1770	-4.976	30388.542	4.5	D6S (3G)2G	92432.136	5.5	4SP(5D)6F	161.8520	-8.044	25787.598	1.5	D6S (3P)2P	87572.431	2.5	4SP(5G)6F
161.1786	-3.996	25428.784	5.5	D6S (3G)4G	87471.765	4.5	4SP(5G)6F	161.8532	-4.542	103731.660	5.5	4D (3H)4H	41968.046	5.5	4P (5D)6F
161.1904	-3.871	30388.542	4.5	D6S (3G)2G	92426.980	4.5	4SP(5G)6F	161.8564	-2.915	30388.542	4.5	D6S (3G)2G	92171.716	4.5	4P (5D)6F
161.2099	-1.485	31364.440	1.5	D6S (3D)4D	93395.360	2.5	4P (3F)4F	161.8637	-4.820	37227.326	0.5	D6S (1S)2S	99007.700	0.5	4SP(5D)4D
161.2162	-3.790	31811.822	2.5	D7 (5D)2F	93840.340	1.5	4SP(5D)6D	161.8698	-3.833	30388.542	4.5	D6S (3G)2G	92166.600	5.5	4SP(5G)4H
161.2249	-2.005	104426.460	2.5	5D (5D)6F	42401.802	1.5	4P (5D)6F	161.8822	-5.397	384.790	3.5	D6S (5D)6D	62158.110	4.5	4P (3F)4F
161.2326	-4.240	667.683	2.5	D6S (5D)6D	62689.880	2.5	4P (3P)4D	161.8955	-0.906	104426.460	2.5	5D (5D)6F	42458.224	3.5	4P (3F)4F
161.2649	-2.120	105630.750	2.5	5D (5D)4G	43620.957	1.5	4P (5D)6P	161.8961	-1.922	16369.360	3.5	D7 (5D)2G	78137.364	3.5	4P (1D)2F
161.2710	-2.211	31387.948	2.5	D6S (3D)4D	93395.360	2.5	4P (3F)4F	161.8993	-3.527	384.790	3.5	D6S (5D)6D	62151.561	2.5	4P (3F)4F
161.2759	-7.873	27620.412	2.5	D6S (3F)2F	89625.940	1.5	4SP(5P)6P	161.9024	-6.331	30388.542	4.5	D6S (3G)2G	92154.165	3.5	4SP(5D)6F
161.2787	-3.748	31483.176	3.5	D6S (3D)4D	93487.650	3.5	4P (3F)4F	161.9072	-1.507	104000.810	3.5	5D (5D)6P	42237.033	3.5	4P (5D)6F
161.2800	-6.648	26055.423	2.5	D6S (3G)4G	88059.380	2.5	4SP(5P)6D	161.9342	-0.593	104411.690	4.5	5D (5D)6D	42458.224	3.5	4P (5D)6P
161.2806	-0.376	1872.567	4.5	D7 (5D)4F	63876.317	5.5	4P (3F)4G	161.9644	-1.861	31387.948	2.5	D6S (3D)4D	93129.900	3.5	4P (3F)4D
161.2867	-1.367	31483.176	3.5	D6S (3D)4D	93484.580	4.5	4P (3F)4F	161.9664	-3.614	50187.813	3.5	D6S (3F)4F	111929.000	2.5	290DD
161.3004	-3.959	2837.950	2.5	D7 (5D)4F	64834.073	1.5	4P (3P)2P	161.9672	-3.502	48039.090	2.5	D7 (5D)2D	109780.000	1.5	280DD
161.3025	-3.424	2430.097	3.5	D7 (5D)4F	64425.408	2.5	4P (3F)2F	161.9897	-4.059	25805.328	4.5	D6S (3G)4G	87537.652	3.5	4SP(5G)6F
161.3186	-4.451	31999.048	3.5	D7 (5D)2F	93988.170	2.5	4SP(5G)4G	162.0004	-3.811	30388.542	4.5	D6S (3G)2G	92116.780	4.5	4SP(5G)4H
161.3290	-5.269	977.053	0.5	D6S (5D)6D	62962.205	1.5	4P (3P)4D	162.0061	-3.544	0.000	4.5	D6S (5D)6D	61726.077	3.5	4P (3P)4D
161.3357	-1.137	103950.590	4.5	5D (5D)6F	41968.046	5.5	4P (5D)6F	162.0126	-4.408	21581.638	4.5	D6S (3H)4H	83305.224	3.5	4P (1F)2G
161.3722	-0.491	103936.600	5.5	5D (5D)6F	41968.046	5.5	4P (5D)6F	162.0149	-0.695	104380.940	3.5	5D (5D)6F	42658.224	3.5	4P (5D)6P
161.3757	-2.777	105205.790	2.5	5D (5D)6G	43238.586	2.5	4P (5D)6P	162.0247	-2.001	104120.270	2.5	5D (5D)6P	42401.302	1.5	4P (5D)6F
161.3776	-8.286	862.613	1.5	D6S (5D)6D	62829.075	0.5	4P (3P)4D	162.0309	-3.284	3117.461	1.5	D7 (5D)4F	64834.073	1.5	4P (3P)2P
161.3839	-2.034	31364.440	1.5	D6S (3D)4D	93328.480	1.5	4P (3F)4F	162.0321	-5.000	50212.826	2.5	D6S (3F)4F	111929.000	2.5	290DD
161.4206	-6.395	22409.852	0.5	D6S (3P)4P	84359.800	1.5	4P (1F)2D	162.0390	-1.795	103950.590	4.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
161.4253	-3.941	444915.046	3.5	D6S (1F)2F	106863.200	3.5	160DD	162.0462	-7.621	27620.412	2.5	D6S (3F)2F	89331.195	1.5	5P (5D)6D
161.4385	-4.755	36252.918	2.5	D6S (3D)2D	98196.000	1.5	4SP(5D)4F	162.0727	-4.954	30388.542	4.5	D6S (3G)2G	92083.108	4.5	4SP(5G)4H
161.4452	-3.193	31387.948	2.5	D6S (3D)4D	93328.480	1.5	4P (3F)4F	162.0872	-4.229	7955.299	3.5	D6S (5D)4D	69650.484	2.5	4P (3G)2F
161.4527	-4.056	384.790	3.5	D6S (5D)6D	62322.431	3.5	4P (3P)2D	162.1034	-3.423	3117.461	1.5	D7 (5D)4F	64806.487	0.5	4P (3P)2P
161.4631	-2.791	30764.485	3.5	D6S (3G)2G	92695.374	2.5	4P (3F)4F	162.1252	-3.433	384.790	3.5	D6S (5D)6D	62065.521	3.5	4P (3F)4F
161.5191	-4.895	25428.784	5.5	D6S (3G)4G	87340.983	5.5	4SP(5G)6F	162.1598	-3.557	105288.530	1.5	5D (5D)6G	43620.957	1.5	4P (5D)6P
161.5191	-3.551	31483.176	3.5	D6S (3D)4D	93395.360	2.5	4P (3F)4F	162.1628	-5.311	25805.328	4.5	D6S (5D)6P	42334.822	2.5	4P (5D)6F
161.5203	-6.257	30388.542	4.5	D6S (3G)2G	92300.277	4.5	4SP(5D)6F	162.1639	-1.942	104000.810	3.5	5D (5D)6P	42334.822	2.5	4P (1G)2G
161.5268	-5.739	26055.423	2.5	D6S (3G)4G	87964.650	1.5	4SP(5P)6D	162.1686	-0.598	384.790	3.5	D6S (5D)6D	62049.025	2.5	4SP(7S)6P
161.5668	-3.667	30388.542	4.5	D6S (3G)2G	92282.460	3.5	4SP(5G)4F	162.1731	-6.372	30764.485	3.5	D6S (3G)2G	92426.980	4.5	4SP(5G)4F
161.5791	-2.569	105127.770	2.5	5D (5D)4D	43238.586	2.5	4P (5D)6P	162.1867	-1.873	2430.097	3.5	D7 (5D)4F	64087.418	2.5	4P (3F)4G
161.5875	-1.171	104000.810	3.5	5D (5D)6P	42114.818	4.5	4P (5D)6F	162.1935	-4.894	667.683	2.5	D6S (5D)6D	62322.431	3.5	4P (3H)2G
161.5946	-1.309	104120.270	2.5	5D (5D)6P	42237.033	3.5	4P (5D)6F	162.2027	-5.315	7955.299	3.5	D6S (5D)4D	69606.552	3.5	4P (3G)2F
161.6640	-7.598	26352.766	4.5	D6S (3H)2H	88209.450	3.5	4SP(5P)6D	162.2212	-3.044	38164.194	2.5	D6S (1D)2D	99808.400	3.5	4P (1G)2G
161.6652	-1.627	2430.097	3.5	D7 (5D)4F	64286.345	3.5	4P (3F)2F	162.2406	-4.305	103751.660	5.5	4D (3H)4H	42114.818	4.5	4P (5D)6F
161.6734	-1.804	50075.910	1.5	D6S (3F)4F	111929.000	2.5	290DD	162.2464	-0.780	104873.230	3.5	5D (5D)4D	43238.586	2.5	4P (5D)6P
161.6762	-7.257	977.053	0.5	D6S (5D)6D	62829.075	0.5	4P (3P)4D	162.3029	-2.432	33466.463	4.5	D6S (1G)2G	95079.640	3.5	4P (3F)2F
161.6859	-7.891	25787.598	1.5	D6S (3P)2P	87635.920	0.5	4SP(5P)6D	162.3092	-0.997	2430.097	3.5	D7 (5D)4F	64040.886	3.5	4P (3F)4G
161.7123	-2.898	30764.485	3.5	D6S (3G)2G	92602.703	3.5	4P (3F)2G	162.3552	-6.042	21711.927	3.5	D6S (3H)4H	83305.251	3.5	4P (1F)2G
161.7149	-1.939	108804.667	3.5	5S (3D)4D	46967.444	2.5	4P (5D)4P	162.3619	-4.361	25981.629	3.5	D6S (3G)4G	87572.431	2.5	4SP(5G)6F
161.7187	-0.975	103950.590	4.5	5D (5D)6F	42114.818	4.5	4P (5D)6F	162.3651	-1.403	104828.160	2.5	5D (5D)6D	43238.586	2.5	4P (5D)6P
161.7287	-4.033	31999.048	3.5	D7 (5D)2F	93830.979	2.5	4SP(5D)6D	162.3707	-1.631	2837.950	2.5	D7 (5D)4F	64425.408	2.5	4P (3F)2F
161.7409	-4.908	862.613	1.5	D6S (5D)6D	62689.880	2.5	4P (3P)4D	162.3714	-6.335	0.000	4.5	D6S (5D)6D	61587.214	5.5	4P (3H)4I
161.7415	-1.703	105065.630	3.5	5D (5D)6G	43238.586	2.5	4P (5D)6P	162.3776	-2.948	105205.790	2.5	5D (5D)6G	43620.957	1.5	4P (5D)6P
161.7494	-8.713	27620.412	2.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6F	162.3811	-3.451	31811.822	2.5	D7 (5D)2F	93395.360	2.5	4P (3F)4F
161.7553	-2.005	103936.600	5.5	5D (5D)6F	42114.818	4.5	4P (5D)6F	162.3946	-2.822	33501.253	3.5	D6S (1G)2G	95079.640	3.5	4P (3F)2F
161.7739	-7.226	25787.598	1.5	D6S (3P)2P	87602.250	1.5	4SP(5G)6F	162.3987	-4.098	667.683	2.5	D6S (3G)2G	92244.520	1.5	4P (3F)4F
161.7766	-6.015	27314.922	3.5	D6S (3F)2F	89128.561	3.5	4SP(5P)6P	162.4289	-3.153	30764.485	3.5	D6S (3G)2G	92329.890	2.5	4SP(5G)4F
161.8004	-0.875	27314.922	3.5	D6S (3F)2F	89119.467	2.5	5P (5D)6D	162.4536	-4.839	25981.629	3.5	D6S (3G)4G	87537.652	3.5	4SP(5G)6F
161.8468	-6.832	384.790	3.5	D6S (5D)6D	62171.615	3.5	4SP(7S)6P								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
162.4779	-4.898	26055.423	2.5	D6S (3G)4G	87602.250	1.5	4SP(5G)6F	163.1879	-2.652	31368.450	0.5	D6S (3D)4D	92647.510	1.5	4P (3F)4D
162.4831	-2.579	33501.253	3.5	D6S (1G)2G	95046.100	2.5	4P (3F)2F	163.2188	-4.033	977.053	0.5	D6S (5D)6D	62244.520	1.5	4P (3F)4F
162.4996	-9.520	27314.922	3.5	D6S (3F)2F	88853.533	3.5	5P (5D)6F	163.2257	-2.609	105711.730	2.5	5D (5D)6S	44446.878	3.5	4P (5D)4D
162.5070	-5.485	30764.485	3.5	D6S (3G)2G	92300.277	4.5	4SP(5D)6F	163.2307	-2.564	862.613	1.5	D6S (5D)6D	62125.600	1.5	4P (3F)2D
162.5074	-5.266	25805.328	4.5	D6S (3G)4G	87340.983	5.5	4SP(5G)6F	163.2398	-3.031	31387.948	2.5	D6S (3D)4D	92647.510	1.5	4P (3F)4D
162.5098	-2.518	31364.440	1.5	D6S (3D)4D	92899.200	2.5	4P (3F)4F	163.2425	-6.303	8391.938	2.5	D6S (5D)4D	69650.484	2.5	4P (3G)2F
162.5203	-3.636	103763.270	5.5	4D (3F)2H	44232.512	2.5	4P (5D)4F	163.2450	-6.012	30764.485	3.5	D6S (3G)2G	92018.729	2.5	4SP(5D)6F
162.5522	-0.584	2430.097	3.5	D7 (5D)4F	63948.790	4.5	4P (3F)4G	163.2667	-1.305	2837.950	2.5	D7 (5D)4F	64087.418	2.5	4P (3F)4G
162.5541	-3.256	30764.485	3.5	D6S (3G)2G	92282.460	3.5	4SP(5G)4F	163.2957	-4.058	32909.905	5.5	D6S (11)21	94148.510	4.5	4SP(5G)4G
162.5567	-5.107	26055.423	2.5	D6S (3G)4G	87572.431	1.5	4SP(5G)6F	163.3080	-4.318	22637.205	4.5	D6S (3F)4F	83871.184	4.5	4P (1F)2G
162.5576	-2.292	31811.822	2.5	D7 (5D)2F	93328.480	1.5	4P (3F)4F	163.3103	-9.625	27620.412	2.5	D6S (3F)2F	88853.533	3.5	5P (5D)6D
162.5682	-7.805	0.000	4.5	D6S (5D)6D	61512.634	4.5	4P (3H)4I	163.3532	-1.440	105449.540	3.5	5D (5D)4G	44232.512	4.5	4P (5D)4F
162.5719	-1.812	31387.948	2.5	D6S (3D)4D	92899.200	2.5	4P (3F)4D	163.3593	-2.440	31387.948	2.5	D6S (3D)4D	92602.703	3.5	4P (3F)2G
162.5762	-4.062	30764.485	3.5	D6S (3G)2G	92274.120	2.5	4P (3F)4F	163.3597	-5.557	8391.938	2.5	D6S (5D)4D	69606.552	3.5	4P (3G)2F
162.5801	-7.780	27620.412	2.5	D6S (3F)2F	89128.561	3.5	4SP(5F)6P	163.3661	-3.381	31483.176	3.5	D6S (3D)4D	92695.374	2.5	4P (3F)2D
162.5836	-1.809	105127.770	2.5	5D (5D)4D	43620.957	1.5	4P (5D)6P	163.3795	-1.016	104828.160	2.5	5D (5D)6D	43620.957	1.5	4P (5D)6P
162.5912	-1.610	667.683	2.5	D6S (5D)6D	62171.615	3.5	4SP(7S)6P	163.3909	-0.779	2837.950	2.5	D7 (5D)4F	64040.886	3.5	4P (3F)4G
162.6042	-8.455	27620.412	2.5	D6S (3F)2F	89119.457	2.5	5P (5D)6D	163.3990	-2.387	36126.387	1.5	D6S (3D)2D	97326.270	1.5	4SP(3F)2P
162.6277	-6.271	23981.629	3.5	D6S (3G)4G	87471.765	4.5	4SP(5G)6F	163.4003	-2.946	33501.253	3.5	D6S (1G)2G	94700.660	2.5	4P (3F)2D
162.6318	-3.057	31999.048	3.5	D7 (5D)2F	93487.650	3.5	4P (3F)4F	163.4311	-1.438	104426.460	2.5	5D (5D)6F	43238.586	2.5	4P (5D)6P
162.6399	-2.810	31999.048	3.5	D7 (5D)2F	93484.580	4.5	4P (3F)4F	163.4350	-1.228	862.613	1.5	D6S (5D)6D	62049.025	2.5	4SP(7S)6P
162.6443	-3.712	667.683	2.5	D6S (5D)6D	62151.561	2.5	4P (3F)4F	163.4391	-5.901	26352.766	4.5	D6S (3H)2H	87537.652	3.5	4SP(5G)6F
162.6486	-7.229	26055.423	2.5	D6S (3G)4G	87537.652	3.5	4SP(5G)6F	163.4419	-4.668	33501.253	3.5	D6S (3H)2H	87537.652	3.5	4SP(5G)6F
162.6775	-2.657	38164.194	2.5	D6S (1D)2D	99635.520	3.5	4SP(3G)2G	163.4476	-5.841	26170.181	5.5	D6S (3G)2G	94360.980	2.5	4SP(5D)6F
162.6894	-0.857	104705.420	3.5	5D (5D)6D	43238.586	2.5	4P (5D)6P	163.4486	-3.400	105398.852	5.5	4D (3F)4H	44232.512	4.5	4P (5D)4F
162.7020	-1.534	104120.270	2.5	5D (5D)6P	42658.224	3.5	4P (5D)6P	163.5140	-6.346	0.000	4.5	D6S (5D)6D	61156.835	3.5	4P (3H)4H
162.7130	-2.747	667.683	2.5	D6S (5D)6D	62125.600	1.5	4P (3F)2D	163.5362	-2.718	977.053	0.5	D6S (5D)6D	62125.600	1.5	4P (3F)2D
162.7382	-1.343	2837.950	2.5	D7 (5D)4F	64286.345	3.5	4P (3F)2F	163.5401	-0.242	7955.299	3.5	D6S (5D)4D	69102.380	2.5	4SP(5S)4P
162.8122	-5.182	22939.358	2.5	D6S (3F)4F	84359.800	1.5	4P (1F)2D	163.5527	-3.296	104380.940	3.5	5D (5D)6F	43238.586	2.5	4P (5D)6P
162.8240	-4.624	31483.176	3.5	D6S (3D)4D	92899.200	2.5	4P (3F)4D	163.5693	-1.345	104757.110	0.5	5D (5D)6D	43620.957	1.5	4P (5D)6P
162.8440	-7.541	27314.922	3.5	D6S (3F)2F	88723.400	4.5	5P (5D)6D	163.5793	-2.448	13474.411	2.5	D7 (5D)4F	74606.841	2.5	4P (3D)2D
162.8473	-6.089	30764.485	3.5	D6S (3G)2G	92171.716	4.5	4P (3F)2G	163.5835	-4.572	31999.048	3.5	D7 (5D)2F	93129.900	3.5	4P (3F)4D
162.8722	-4.219	667.683	2.5	D6S (5D)6D	62065.521	3.5	4P (3F)4F	163.5916	-6.689	384.790	3.5	D6S (5D)6D	61512.634	4.5	4P (3H)4I
162.8781	-2.490	31999.048	3.5	D7 (5D)2F	93399.360	2.5	4P (3F)4F	163.6010	-4.622	25805.328	4.5	D6S (3G)4G	86929.649	3.5	4P (3F)4D
162.8881	-1.230	104630.430	1.5	5D (5D)6P	43238.586	2.5	4P (5D)6P	163.6138	-2.341	31483.176	3.5	D6S (3D)4D	92453.460	0.5	4P (3F)4D
162.8938	-6.492	30764.485	3.5	D6S (3G)2G	92154.165	3.5	4SP(5D)6F	163.6152	-8.332	26352.766	4.5	D6S (3H)2H	87471.765	4.5	4SP(5G)6F
162.9145	-3.888	862.613	1.5	D6S (5D)6D	62244.520	1.5	4P (3F)4F	163.6331	-0.885	862.613	1.5	D6S (5D)6D	61974.933	1.5	4SP(7S)6P
162.9160	-0.745	667.683	2.5	D6S (5D)6D	62049.025	2.5	4SP(7S)6P	163.6520	-3.570	47674.721	1.5	D7 (5D)2D	108780.000	1.5	270DD
162.9371	-0.640	16369.360	3.5	D7 (5D)2G	77742.730	2.5	4P (1D)2F	163.6955	-3.289	31364.440	1.5	D6S (3D)4D	92453.460	0.5	4P (3F)4D
162.9931	-3.931	30764.485	3.5	D6S (3G)2G	92116.780	4.5	4SP(5G)4H	163.6999	-3.634	31811.822	2.5	D7 (5D)2F	92899.200	2.5	4P (3F)4D
163.0189	-1.244	104000.810	1.5	5D (5D)6P	43238.586	2.5	4P (5D)6P	163.7063	-3.022	31368.450	0.5	D6S (3D)4D	92453.460	0.5	4P (3F)4D
163.0223	-4.131	384.790	3.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D	163.7375	-2.104	105524.461	4.5	4D (3F)4H	44446.878	3.5	4P (5D)4D
163.0499	-2.238	31364.440	1.5	D6S (3D)4D	92695.374	2.5	4P (3F)2D	163.7399	-0.646	1872.567	4.5	D7 (5D)4F	62945.038	3.5	4P (3F)4D
163.0563	-4.463	23031.300	1.5	D6S (3F)4F	84359.800	1.5	4P (1F)2D	163.7711	-4.449	22810.357	3.5	D6S (3F)4F	83871.184	4.5	4P (1F)2G
163.0840	-3.789	31811.822	2.5	D7 (5D)2F	93129.900	3.5	4P (3F)4D	163.7774	-3.405	105291.010	3.5	4D (3F)4G	44232.512	4.5	4P (5D)4F
163.0840	-3.789	31811.822	2.5	D7 (5D)2F	94189.880	5.5	4SP(5G)4H	163.7776	-4.710	667.683	2.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D
163.1110	-1.509	32875.646	6.5	D6S (11)21	64425.408	2.5	4P (3F)2F	163.7776	-4.710	667.683	2.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D
163.1124	-2.659	31387.948	2.5	D6S (3D)4D	92695.374	2.5	4P (3F)2D	163.7776	-4.710	667.683	2.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D
163.1128	-1.061	667.683	2.5	D6S (5D)6D	61974.933	1.5	4SP(7S)6P	163.7776	-4.710	667.683	2.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D
163.1279	-5.261	26170.181	5.5	D6S (3H)2H	87471.765	4.5	4SP(5G)6F	163.7776	-4.710	667.683	2.5	D6S (5D)6D	61726.077	3.5	4P (3F)4D
163.1332	-7.745	27314.922	3.5	D6S (3F)2F	88614.520	4.5	4SP(5P)6D	163.9273	-2.094	105449.540	3.5	5D (5D)4G	44446.878	3.5	4P (5D)4D
163.1525	-1.448	103950.590	4.5	5D (5D)6P	42658.224	3.5	4P (5D)6P	163.9401	-1.030	977.053	0.5	D6S (5D)6D	61974.933	1.5	4SP(7S)6P
163.1536	-4.223	103524.461	4.5	4D (3F)4F	44232.512	4.5	4P (5D)4F	163.9501	-2.049	31364.440	1.5	D6S (3D)4D	92358.610	1.5	4SP(5G)4F
163.1616	-4.238	862.613	1.5	D6S (5D)6D	62151.561	2.5	4P (3F)4F	163.9609	-1.456	31368.450	0.5	D6S (3D)4D	92358.610	1.5	4SP(5G)4F
163.1772	-2.059	31364.440	1.5	D6S (3D)4D	92647.510	1.5	4P (3F)4D	163.9628	-6.184	0.000	4.5	D6S (5D)6D	60989.444	4.5	4P (3H)4H
163.1854	-4.658	32909.905	5.5	D6S (11)21	94189.880	5.5	4SP(5G)4G	163.9661	-7.576	26352.766	4.5	D6S (3H)2H	87340.983	5.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
163.9882	-4.133	25787.598	1.5	D6S (3P)2P	86767.577	2.5	4P (3P)4D	164.4756	-2.030	31483.176	3.5	D6S (3D)4D	92282.460	3.5	4SP(5G)4F	
163.9919	-0.875	105211.140	4.5	5D (5D)4G	44232.512	4.5	4P (5D)4F	164.4982	-2.317	31483.176	3.5	D6S (3D)4D	92274.120	2.5	4P (3P)4P	
164.0133	-3.158	31387.948	2.5	D6S (3D)4D	92358.610	1.5	4SP(5G)4F	164.4984	-2.665	31811.822	2.5	D7 (5D)2F	92602.703	3.5	4P (3F)2G	
164.0150	-5.196	8680.454	1.5	D6S (5D)4D	69650.484	2.5	4P (3G)2F	164.5017	-2.173	18782.567	4.5	D7 (5D)4F	92662.244	5.5	4P (3P)2I	
164.0152	-0.800	3117.461	1.5	D7 (5D)4F	64087.418	2.5	4P (3F)2F	164.5116	-5.206	25981.629	3.5	D6S (3G)4G	86767.577	2.5	4P (3P)4D	
164.0211	-2.213	104588.710	1.5	5D (5D)6D	43620.957	1.5	4P (5D)6P	164.5181	-4.634	103118.400	1.5	6S (5D)4D	42334.822	2.5	4P (5D)6F	
164.0223	-3.288	105414.180	2.5	4D (3F)4G	44446.878	3.5	4P (5D)4D	164.5294	-7.274	30388.540	4.5	D6S (3G)2G	91167.937	3.5	5P (3D)6P	
164.0273	-1.276	26932.748	0.5	D6S (3D)4D	92329.890	2.5	4SP(5G)4F	164.5493	-6.107	384.790	3.5	D6S (5D)6D	61156.835	3.5	4P (3H)4H	
164.0307	-6.339	0.000	4.5	D6S (5D)6D	60956.781	3.5	4P (3H)4G	164.5531	-3.177	105224.461	4.5	4D (3F)4H	44753.799	3.5	4P (3D)4F	
164.0681	-2.800	31364.440	1.5	D6S (3D)4D	92314.758	0.5	5P (5D)4P	164.5704	-0.927	105211.140	4.5	5D (5D)4G	44446.878	3.5	4P (5D)4D	
164.0742	-5.534	25981.629	3.5	D6S (3G)4G	86929.649	3.5	4P (3P)4D	164.5759	-0.062	104000.810	3.5	5D (5D)6P	43238.586	2.5	4P (5D)6P	
164.0788	-2.895	31368.450	0.5	D6S (3D)4D	92314.758	0.5	5P (5D)4P	164.5823	-6.071	25787.598	1.5	D6S (3P)2P	86547.490	2.5	4P (1F)2F	
164.0856	-0.769	31483.176	3.5	D6S (3D)4D	92426.980	4.5	4SP(5G)4F	164.5918	-4.337	25787.598	1.5	D6S (3P)2P	86543.974	1.5	4P (3F)4D	
164.0906	-1.993	31387.948	2.5	D6S (3D)4D	92329.890	2.5	4SP(5G)4F	164.6185	-0.934	8680.454	1.5	D6S (5D)4D	69426.980	0.5	4SP(5S)4P	
164.1129	-4.080	13673.185	1.5	D7 (5D)4F	74606.841	2.5	4P (3D)2D	164.6241	-7.029	27314.922	3.5	D6S (3F)2F	88059.380	2.5	4SP(5P)6D	
164.1252	-4.750	22939.358	2.5	D6S (3F)4F	83868.450	2.5	4P (1F)2D	164.6337	-4.607	48039.090	2.5	D7 (5D)2D	108780.000	1.5	2700D	
164.1309	-3.741	105711.730	2.5	5D (5D)6S	44784.761	2.5	4P (5D)4D	164.6510	-2.189	38164.194	2.5	D6S (1D)2D	98989.710	3.5	4P (1G)2F	
164.1377	-4.937	18360.646	1.5	D7 (5D)2P	79285.110	2.5	4SP(5S)6P	164.6706	-4.592	102842.119	4.5	5S (3G)4G	42114.818	4.5	4P (5D)6F	
164.1428	-3.567	105155.090	4.5	5S (3F)4G	44232.512	4.5	4P (5D)4F	164.6811	-3.670	33466.463	4.5	D6S (1G)2G	94189.880	5.5	4SP(5G)4G	
164.1681	-4.844	99573.225	4.5	5S (3F)4G	38660.043	3.5	4P (5D)6D	164.6983	-2.802	103118.400	1.5	D6S (3G)4G	86767.577	2.5	4P (3D)4D	
164.1762	-0.529	8391.938	2.5	D6S (5D)4D	93902.090	1.5	4SP(5S)4P	164.7163	-0.895	8391.938	2.5	D6S (5D)4D	69102.380	2.5	4SP(5S)4P	
164.1775	-1.956	31364.440	1.5	D6S (3D)4D	92274.120	2.5	4P (3F)4D	164.7224	-3.200	384.790	3.5	D6S (5D)6D	61093.413	2.5	4P (5D)4D	
164.2032	-2.435	31999.048	3.5	D7 (5D)2F	92899.200	2.5	4P (3F)4D	164.7360	-7.117	26932.748	0.5	D6S (3F)2P	87635.920	0.5	4SP(5P)6D	
164.2184	-7.752	27314.922	3.5	D6S (3F)2F	88209.460	3.5	4SP(5G)4F	164.7528	-3.182	47674.721	1.5	D7 (5D)2D	108971.700	1.5	2500D	
164.2184	-1.119	31387.948	2.5	D6S (3D)4D	92282.460	3.5	4SP(5P)6D	164.7546	-0.415	31999.048	3.5	D7 (5D)2F	92695.374	2.5	4P (5D)2F	
164.2371	-6.094	0.000	4.5	D6S (5D)6D	60887.598	5.5	4P (3H)4H	164.7562	-0.886	105449.540	3.5	5D (5D)4G	44753.799	3.5	4P (5D)4F	
164.2409	-2.343	31387.948	2.5	D6S (3D)4D	92274.120	2.5	4P (3P)4D	164.7758	-1.974	31483.176	3.5	D6S (3D)4D	92171.716	4.5	4P (3F)2G	
164.2427	-5.607	18360.646	1.5	D7 (5D)2P	79246.170	1.5	4SP(5S)6P	164.7934	-4.174	33466.463	4.5	D6S (1G)2G	94148.510	4.5	4P (5G)4G	
164.2480	-1.978	31811.822	2.5	D7 (5D)2F	92695.374	2.5	4P (3P)2D	164.7965	-1.160	105127.770	2.5	5D (5D)4D	44446.878	3.5	4P (5D)4D	
164.2496	-0.808	18360.646	1.5	D7 (5D)2P	79243.600	1.5	4P (1D)2P	164.8016	-3.768	49100.976	0.5	D6S (3F)4P	109780.000	1.5	2800D	
164.2530	-1.611	104120.270	2.5	5D (5D)6P	43232.586	2.5	4P (5D)6P	164.8028	-3.137	103118.400	1.5	6S (5D)4D	42439.822	0.5	4P (5D)6F	
164.2658	-2.344	105630.750	2.5	5D (5D)4G	44753.799	3.5	4P (5D)4F	164.8059	-4.793	25805.328	4.5	D6S (3G)4G	86482.750	3.5	4P (1F)2F	
164.2997	-3.621	103265.694	0.5	6S (5D)4D	42401.302	1.5	4P (3P)4D	164.8234	-4.412	31483.176	3.5	D6S (3D)4D	92154.165	3.5	4SP(5D)6F	
164.3086	-2.736	31364.440	1.5	D6S (3D)4D	92225.538	1.5	5P (5D)4P	164.8275	-7.441	26932.748	0.5	D6S (3F)2P	87602.250	1.5	4SP(5G)6F	
164.3194	-4.420	31368.450	0.5	D6S (3D)4D	92225.538	1.5	5P (5D)4P	164.8314	-5.738	22637.205	4.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	
164.3335	-3.188	31364.440	1.5	D6S (3D)4D	92216.320	1.5	4P (3P)2D	164.8395	-3.818	105711.730	2.5	5D (5D)6S	45044.168	1.5	4P (5D)4D	
164.3443	-2.471	31368.450	0.5	D6S (3D)4D	92216.320	1.5	4P (3P)2D	164.8403	-1.127	105449.540	3.5	5D (5D)4G	44784.761	2.5	4P (5D)4D	
164.3474	-2.400	31483.176	3.5	D6S (3D)4D	92329.890	2.5	4P (3P)4D	164.8522	-4.598	105414.180	2.5	4D (3F)4G	44753.799	3.5	4P (3D)4F	
164.3494	-2.096	105630.750	2.5	5D (5D)4G	44446.878	3.5	4P (5D)4D	164.8615	-5.875	384.790	3.5	D6S (5D)6D	61041.748	2.5	4P (3H)4G	
164.3544	-2.686	105291.010	3.5	4D (3F)4G	63272.976	2.5	4P (3F)4D	164.8688	-4.425	31364.440	1.5	D6S (3D)4D	92018.729	2.5	4SP(5D)6F	
164.3578	-0.721	2430.097	3.5	D7 (5D)4F	92225.538	1.5	5P (5D)4P	164.8879	-4.420	33501.253	3.5	D6S (1G)2G	94148.510	4.5	4SP(5G)4G	
164.3721	-2.333	31387.948	2.5	D6S (3D)4D	92647.510	1.5	4P (3F)4D	164.9057	-1.636	104873.230	3.5	5D (5D)4D	44232.512	4.5	4P (5D)4F	
164.3732	-5.306	23031.300	1.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	164.9186	-2.629	104868.500	4.5	D6S (3D)4D	44232.512	4.5	4P (5D)4F	
164.3772	-2.850	31811.822	2.5	D7 (5D)2F	44753.799	3.5	4P (5D)4F	164.9258	-2.905	105711.730	2.5	5D (5D)6S	45079.879	2.5	4P (5D)4F	
164.3774	-3.857	105589.420	3.5	4D (3F)4H	44232.512	4.5	4P (5D)4F	164.9298	-2.472	105711.730	2.5	5D (5D)6S	45079.879	2.5	4P (5D)4F	
164.3841	-3.455	105065.630	3.5	5D (5D)6G	38858.958	2.5	4P (5D)6D	164.9324	-0.062	104863.430	5.5	5D (5D)4G	44232.512	4.5	4P (5D)4F	
164.3898	-1.927	105063.550	5.5	4D (3F)4G	44446.878	3.5	4P (5D)4D	164.9364	-3.166	105414.180	2.5	4D (3F)4G	44784.761	2.5	4P (5D)4D	
164.3942	-4.987	93988.337	3.5	5S (3F)4F	38858.958	2.5	4P (5D)6D	164.9426	-0.801	2837.950	2.5	D7 (5D)4F	63465.109	1.5	4P (3F)4D	
164.3994	-4.081	31387.948	2.5	D6S (3D)4D	92216.320	1.5	4P (3P)2D	164.9472	-5.237	0.000	4.5	D6S (5D)6D	60625.449	5.5	4P (3H)4G	
164.4037	-3.137	103265.694	0.5	6S (5D)4D	42439.822	0.5	4P (5D)6F	164.9576	-0.826	8680.454	1.5	D6S (5D)4D	69302.090	1.5	4SP(5S)4P	
164.4064	-3.175	13673.185	1.5	D7 (5D)4F	74498.057	1.5	4P (3D)2D	164.9655	-3.365	105065.630	3.5	5D (5D)6G	44446.878	3.5	4P (5D)4D	
164.4274	-2.934	31483.176	3.5	D6S (3D)4D	92300.277	4.5	4SP(5D)6F	164.9855	-3.561	33466.463	4.5	D6S (1G)2G	94073.240	3.5	4SP(5G)4G	
164.4449	-7.441	30764.485	3.5	D6S (3G)2G	91575.139	2.5	5P (5D)6P	165.0027	-3.805	102842.119	4.5	5S (3G)4G	42237.033	3.5	4P (5D)6F	
164.4541	-5.223	0.000	4.5	D6S (5D)6D	60807.230	4.5	4P (3H)4G									
164.4588	-2.592	104426.460	2.5	5D (5D)6P	43620.957	1.5	4P (5D)6P									
164.4611	-4.202	105589.420	3.5	4D (3F)4H	44784.761	2.5	4P (5D)4D									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
165.0038	-6.551	384.790	3.5	D6S (5D)6D	60989.444	4.5	4P (3H)4H	165.5253	-2.572	31811.822	2.5	D7 (5D)2F	92225.538	1.5	5P (5D)4P	
165.0065	-3.251	31999.048	3.5	D7 (5D)2F	92602.703	3.5	4P (3F)2G	165.5506	-0.541	31811.822	2.5	D7 (5D)2F	92216.320	1.5	4P (3P)2D	
165.0132	-5.033	25787.598	1.5	D6S (3P)2P	86388.820	0.5	4P (3P)4D	165.5535	-8.010	30764.485	3.5	D6S (3G)2G	91167.937	3.5	5P (5D)6P	
165.0349	-4.515	13904.824	0.5	D7 (5D)4P	74498.057	1.5	4P (3D)2D	165.5594	-1.983	105155.090	4.5	4D (3F)4G	42753.799	3.5	4P (5D)4F	
165.0433	-4.761	48039.090	2.5	D7 (5D)2D	108629.250	2.5	4SP(3G)4G	165.5601	-2.981	102802.312	2.5	6S (5D)4D	447401.302	1.5	4P (5D)6F	
165.0464	-8.646	27620.412	2.5	D6S (3F)2F	88209.450	3.5	4SP(5P)6D	165.5846	-5.129	30388.542	4.5	D6S (3G)2G	90780.621	3.5	5P (5D)4F	
165.0530	-1.538	105630.750	2.5	5D (5D)4G	45044.168	1.5	4P (5D)4D	165.6142	-1.706	104828.160	2.5	5D (5D)6D	44446.878	3.5	4P (5D)4D	
165.0704	-0.935	8846.768	0.5	D6S (5D)4D	69426.980	0.5	4SP(5S)4P	165.6340	-7.095	667.683	2.5	D6S (5D)6D	61041.748	2.5	4P (3H)4G	
165.0795	-5.149	26352.766	4.5	D6S (3H)2H	86929.649	3.5	4P (3F)4D	165.6343	-3.881	105127.770	2.5	5D (5D)4D	44753.799	3.5	4P (5D)4F	
165.0928	-6.038	384.790	3.5	D6S (5D)6D	60956.781	3.5	4P (3H)4G	165.6452	-2.990	105414.180	2.5	4D (3F)4G	45044.168	1.5	4P (5D)4D	
165.0928	-4.785	33501.253	3.5	D6S (1G)2G	94073.240	3.5	4SP(5G)4G	165.6461	-0.425	105409.540	3.5	5D (5D)4G	45079.879	2.5	4P (5D)4F	
165.1095	-5.306	25981.629	3.5	D6S (3G)4G	86547.490	2.5	4P (1F)2F	165.6565	-4.616	22939.358	2.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	
165.1111	-3.280	102802.312	2.5	6S (5D)4D	42237.033	3.5	4P (5D)6F	165.6706	-1.466	104593.270	5.5	5D (5D)6G	44232.512	4.5	4P (5D)4F	
165.1374	-4.346	38214.507	1.5	D6S (1D)2D	98770.140	1.5	4SP(5D)4D	165.6743	-7.526	18886.780	0.5	D7 (5D)2P	79246.170	1.5	4SP(5S)6P	
165.1504	-1.078	105630.750	2.5	5D (5D)4G	45079.879	2.5	4P (5D)4F	165.6814	-3.656	18886.780	0.5	D7 (5D)2P	79243.600	1.5	4P (1D)2P	
165.1505	-7.567	23317.633	2.5	D5S2(7S)6S	83868.450	2.5	4P (1F)2D	165.6844	-3.811	977.053	0.5	D6S (5D)6D	61332.764	1.5	4P (3P)4P	
165.1596	-4.982	31368.450	0.5	D6S (3D)4D	91915.930	1.5	4SP(5D)6F	165.7065	-1.909	3117.461	1.5	D7 (5D)4F	63465.109	1.5	4P (3F)4D	
165.1615	-1.361	31811.822	2.5	D7 (5D)2F	92358.610	1.5	4SP(5G)4F	165.7159	-6.924	27620.412	2.5	D6S (3F)2F	87964.650	1.5	4SP(3P)6D	
165.1877	-2.705	105291.010	3.5	4D (3F)4G	44753.799	3.5	4P (5D)4F	165.7249	-0.509	105630.750	2.5	5D (5D)4G	45289.801	1.5	4P (5D)4F	
165.2399	-2.373	31811.822	2.5	D7 (5D)2F	92329.890	2.5	4SP(5G)4F	165.7432	-2.923	108191.600	1.5	230DD	98505.100	2.5	4SP(5D)4D	
165.2432	-4.848	47674.721	1.5	D7 (5D)2D	108191.600	1.5	230DD	165.7478	-4.106	48039.090	2.5	D7 (3F)4D	45079.879	2.5	4P (5D)4F	
165.2484	-4.786	2430.097	3.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	165.7527	-1.324	31999.048	3.5	D7 (5D)2F	78690.846	2.5	4P (1D)2D	
165.2632	-3.262	105589.420	3.5	4D (3F)4H	45079.879	2.5	4P (5D)4F	165.7545	-0.684	18360.646	1.5	D7 (5D)2P	78690.846	2.5	4P (1D)2D	
165.2722	-2.789	105291.010	3.5	4D (3F)4G	44784.761	2.5	4P (5D)4D	165.8049	-3.069	105065.630	3.5	5D (5D)6G	44753.799	3.5	4P (5D)4F	
165.2790	-3.921	105288.530	1.5	5D (5D)6G	44784.761	2.5	4P (1F)2F	165.8208	-5.059	30764.485	3.5	D6S (3G)2G	91070.547	2.5	5P (5D)4F	
165.2862	-5.421	25981.629	3.5	D6S (3G)4G	86482.750	3.5	4P (5D)6P	165.8401	-2.459	1872.567	4.5	D7 (5D)6D	62171.615	3.5	4SP(7S)6P	
165.2911	-2.999	104120.270	2.5	5D (5D)6P	43620.937	1.5	4P (5D)6F	165.8675	-6.878	667.683	2.5	D6S (5D)6D	60956.781	3.5	4P (3H)4G	
165.3032	-5.166	22810.357	3.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	165.8772	-1.009	1872.567	4.5	D7 (5D)4F	62158.110	4.5	4P (3F)4F	
165.3109	-4.585	26055.423	2.5	D6S (3G)4G	86547.490	2.5	4P (1F)2F	165.8831	-3.497	31999.048	3.5	D7 (5D)2F	92282.460	3.5	4SP(5G)4F	
165.3189	-8.743	667.683	2.5	D6S (5D)6D	61156.835	3.5	4P (3H)4H	165.8928	-2.098	102394.718	3.5	6S (5D)4D	44114.818	4.5	4P (5D)6F	
165.3205	-7.775	26055.423	2.5	D6S (3G)4G	86543.974	1.5	4P (3P)4D	165.9061	-1.859	31999.048	3.5	D7 (5D)2F	92274.120	2.5	4P (3P)4P	
165.3250	-3.256	33501.253	3.5	D6S (1G)2G	93988.170	0.5	4SP(5G)4G	165.9327	-1.597	102666.694	0.5	6S (5D)6D	42401.302	1.5	4P (5D)6F	
165.3403	-1.249	18360.646	1.5	D7 (5D)2P	78841.960	2.5	4P (1D)2P	165.9482	-0.594	2430.097	3.5	D7 (5D)4F	62689.880	2.5	4P (3F)4D	
165.3695	-2.596	104705.420	3.5	5D (5D)6D	44232.512	4.5	4P (5D)4F	165.9516	-0.795	104705.420	3.5	5D (5D)6D	44446.878	3.5	4P (5D)4D	
165.3708	-3.651	862.613	1.5	D6S (5D)6D	61332.764	1.5	4P (3P)4P	165.9544	-5.988	27314.922	3.5	D6S (3F)2F	87572.431	2.5	4SP(5G)6F	
165.3709	-3.529	102584.963	5.5	5S (3G)4G	42334.822	2.5	4P (5D)6F	165.9906	-2.904	105288.530	1.5	5D (5D)6G	45044.168	1.5	4P (5D)4D	
165.3781	-2.440	102802.312	2.5	6S (5D)4D	92274.120	2.5	4P (3P)4P	166.0280	-5.593	862.613	1.5	D6S (5D)6D	61093.413	2.5	4P (3P)2D	
165.3923	-4.011	31811.822	2.5	D7 (5D)2F	44753.799	3.5	4P (5D)4F	166.0388	-1.542	102666.694	0.5	6S (5D)6D	42433.982	0.5	4P (5D)6F	
165.4059	-0.319	105211.140	4.5	5D (5D)4G	44753.799	3.5	4P (5D)4F	166.0503	-7.747	27314.922	3.5	D6S (3F)2F	87573.652	3.5	4SP(5G)6F	
165.4099	-4.286	47674.721	1.5	D7 (5D)2D	108130.600	2.5	220DD	166.0822	-2.213	105291.010	3.5	4D (3F)4G	45079.879	2.5	4P (5D)4F	
165.4109	-4.699	31387.948	2.5	D6S (3D)4D	91843.470	1.5	5P (5D)6P	166.0839	-1.508	1872.567	4.5	D7 (5D)4F	62083.108	4.5	4P (3H)2G	
165.4114	-1.633	8846.768	0.5	D6S (5D)4D	69302.090	1.5	4SP(5S)4P	166.0886	-1.231	102543.648	1.5	6S (5D)6D	42334.822	2.5	4P (5D)6F	
165.4205	-4.491	105205.790	2.5	5D (5D)6G	44753.799	3.5	4P (5D)4F	166.1127	-4.534	48039.090	2.5	D7 (5D)2D	108239.200	3.5	240DD	
165.4263	-1.788	1872.567	4.5	D7 (5D)4F	62322.431	3.5	4P (3H)2G	166.1324	-1.197	1872.567	4.5	D7 (5D)4F	62065.521	3.5	4P (3F)4F	
165.4478	-0.988	3117.461	1.5	D7 (5D)4F	63559.488	0.5	4P (3F)4D	166.1513	-3.809	38164.194	2.5	D6S (1D)2D	98354.660	2.5	4SP(5D)4F	
165.4562	-8.870	27620.412	2.5	D6S (3F)2F	88059.380	2.5	4SP(5P)6D	166.1533	-1.282	105230.290	0.5	5D (5D)4D	45044.168	1.5	4P (5D)4D	
165.4629	-4.888	103094.730	3.5	4S5S(7S)8S	42658.224	3.5	4P (5D)6P	166.1574	-4.949	102842.119	4.5	5S (3G)4G	42658.224	3.5	4P (5D)6P	
165.4670	-2.283	32372.950	2.5	D7 (5D)4F	63272.976	2.5	4P (3F)4D	166.1706	-6.945	862.613	1.5	D6S (5D)6D	61041.748	2.5	4P (3H)4G	
165.4864	-2.938	31999.048	3.5	D7 (5D)2F	92426.980	4.5	4SP(5G)4F	166.1884	-7.479	862.613	1.5	D6S (5D)6D	61035.287	0.5	4P (3P)4P	
165.4886	-6.088	26055.423	2.5	D6S (3G)4G	86482.750	3.5	4P (1F)2F	166.1884	-2.339	31999.048	3.5	D7 (5D)2F	92171.716	4.5	4P (3F)2G	
165.4907	-0.862	104873.230	3.5	5D (5D)4D	44446.878	3.5	4P (5D)4D	166.2198	-2.222	105205.790	2.5	5D (5D)6G	45044.168	1.5	4P (5D)4D	
165.4924	-5.402	667.683	2.5	D6S (5D)6D	61093.413	2.5	4P (3P)2D	166.2289	-2.137	102394.718	3.5	6S (5D)4D	42237.033	3.5	4P (5D)6F	
165.5014	-7.335	384.790	3.5	D6S (5D)6D	61093.413	2.5	4P (3P)2D	166.2321	-7.243	27314.922	3.5	D6S (3F)2F	87471.765	4.5	4SP(5G)6F	
165.5028	-2.024	105711.730	2.5	5D (5D)6S	60807.230	4.5	4P (3H)4G									
165.5028	-1.852	8680.454	1.5	D6S (5D)4D	45289.801	1.5	4P (5D)4F									
165.5037	-1.993	104868.500	4.5	5D (5D)6G	44446.878	3.5	4P (5D)4D									
165.5053	-3.246	105205.790	2.5	5D (5D)6G	44784.761	2.5	4P (5D)4D									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
166.2358	-2.668	3117.461	1.5	D7	(5D)4F	63272.976	2.5	4P	(3F)4D	166.9001	-0.812	102030.912	3.5	6S	(5D)6D
166.2425	-0.880	36126.387	1.5	D6S	(3D)2D	96279.490	2.5	4SF	(3G)2F	166.9004	-3.258	102505.790	2.5	5D	(5D)6G
166.2441	-4.889	48039.090	2.5	D7	(5D)2D	108191.600	1.5	230DD		166.9112	-4.835	30388.542	3.5	D6S	(3G)2G
166.2554	-2.910	104380.940	3.5	5D	(5D)6F	42658.224	3.5	4P	(5D)4F	166.9663	-1.981	2430.097	3.5	D7	(5D)4F
166.2674	-2.729	102802.312	2.5	6S	(5D)4D	42658.224	3.5	4P	(5D)6P	167.0012	-2.943	103118.400	1.5	6S	(5D)6P
166.2722	-1.397	102543.648	1.5	6S	(5D)6D	42401.302	1.5	4P	(5D)6F	167.0165	-5.546	30764.485	3.5	D6S	(3G)2G
166.2783	-4.277	38214.507	1.5	D6S	(1D)2D	98354.660	2.5	4SF	(5D)4F	167.0305	-3.402	36126.387	1.5	D6S	(3D)2D
166.2880	-6.056	30764.485	3.5	D6S	(3G)2G	90901.124	2.5	5P	(5D)4F	167.0746	-0.403	1872.567	3.5	D7	(5D)4F
166.3060	-4.406	26352.766	4.5	D6S	(3H)2H	86482.750	3.5	4P	(1F)2F	167.0790	-1.421	2837.950	2.5	D7	(5D)4F
166.3160	-1.121	18360.646	1.5	D7	(5D)2P	78487.153	1.5	4P	(1D)2D	167.0965	-2.762	104630.430	1.5	5D	(5D)6F
166.3219	-2.276	105414.180	2.5	4D	(3F)4G	45289.801	1.5	4P	(5D)4F	167.0991	-1.510	3117.461	1.5	D7	(5D)4F
166.3222	-0.898	2837.950	2.5	D7	(5D)4F	62962.205	1.5	4P	(3F)4D	167.0999	-4.169	31364.440	1.5	D6S	(3D)4D
166.3236	-4.137	38214.507	1.5	D6S	(1D)2D	98338.280	1.5	4SF	(5F)4S	167.1111	-3.035	31368.450	0.5	D6S	(3D)4D
166.3356	-2.428	104873.230	3.5	5D	(5D)4D	44753.799	3.5	4P	(5D)4F	167.1180	-3.011	103127.770	2.5	5D	(5D)4F
166.3403	-3.267	31999.048	3.5	D7	(5D)2F	92116.780	4.5	4SF	(5G)4H	167.1254	-3.989	31364.440	1.5	D6S	(3D)4D
166.3487	-1.990	104868.500	4.5	5D	(5D)6G	44753.799	3.5	4P	(5D)4F	167.1366	-4.006	31368.450	0.5	D6S	(3D)4D
166.3697	-2.388	2837.950	2.5	D7	(5D)4F	62945.038	3.5	4P	(3F)4D	167.1593	-7.463	30388.542	4.5	D6S	(3G)2G
166.3782	-0.728	36252.918	2.5	D6S	(3D)2D	96356.960	3.5	4SF	(3G)2F	167.2130	-3.027	104588.710	1.5	5D	(5D)6D
166.3788	-2.173	102543.648	1.5	6S	(5D)6D	42439.822	0.5	4P	(5D)6F	167.2412	-1.409	102030.912	3.5	6S	(5D)6D
166.3923	-3.243	44929.550	2.5	D6S	(1F)2F	105028.600	3.5	4SF	(31)4H	167.2427	-3.102	104873.230	3.5	5D	(5D)4D
166.3974	-0.998	37227.326	0.5	D6S	(1S)2S	97326.270	1.5	4SF	(3F)2P	167.2689	-2.453	31387.948	2.5	D6S	(3D)4D
166.4116	-4.482	102334.112	2.5	6S	(5D)6D	42237.033	3.5	4P	(5D)6F	167.2801	-4.586	31387.948	2.5	D6S	(3D)4D
166.4129	-3.048	48039.090	2.5	D7	(5D)2D	91575.139	2.5	5P	(5D)6P	167.3128	-2.974	104000.810	3.5	5D	(5D)6F
166.4348	-1.825	105127.770	2.5	5D	(5D)4D	108130.600	2.5	220DD		167.3464	-0.125	15844.650	4.5	D7	(5D)2G
166.4390	-2.511	105288.530	1.5	5D	(5D)6G	45044.168	1.5	4P	(5D)4D	167.3688	-3.299	104828.160	2.5	5D	(5D)6D
166.4604	-3.288	104828.160	2.5	5D	(5D)6D	44753.799	3.5	4P	(5D)4F	167.3878	-6.405	2430.097	3.5	D7	(5D)4F
166.5005	-3.104	102394.718	3.5	6S	(5D)4D	42334.822	2.5	4P	(5D)6F	167.4019	-1.913	102394.718	3.5	6S	(5D)4D
166.5051	-7.688	977.053	0.5	D6S	(5D)6D	61035.287	0.5	4P	(3F)4F	167.4070	-7.128	667.683	2.5	D6S	(5D)6D
166.5337	-2.099	105127.770	2.5	5D	(5D)4D	45079.879	2.5	4P	(5D)4F	167.4188	-0.659	101698.489	4.5	6S	(5D)6D
166.5404	-5.670	7955.299	3.5	D6S	(5D)4D	80000.788	4.5	4P	(3G)2H	167.4256	-1.301	2430.097	3.5	D7	(5D)4F
166.5462	-2.029	104828.160	2.5	5D	(5D)6D	44784.761	2.5	4P	(5D)4D	167.4388	-5.404	30764.485	3.5	D6S	(3G)2G
166.5929	-2.031	36252.918	2.5	D6S	(3G)2G	96279.490	2.5	4SF	(3G)2F	167.4440	-3.806	2430.097	3.5	D7	(5D)4F
166.6005	-1.411	105230.290	0.5	5D	(5D)4D	45206.450	0.5	4P	(5D)4D	167.4535	-2.480	103950.590	4.5	5D	(5D)6F
166.6038	-4.146	44915.046	3.5	D6S	(1F)2F	104937.800	4.5	4SF	(31)4H	167.4630	-2.970	13474.411	2.5	D7	(5D)4F
166.6078	-4.146	33466.463	4.5	D6S	(1G)2G	93487.650	3.5	4P	(3F)4F	167.4631	-3.806	1872.567	4.5	D7	(5D)4F
166.6164	-3.428	33466.463	4.5	D6S	(1G)2G	93484.580	4.5	4P	(3F)4F	167.4679	-4.561	104757.110	0.5	5D	(5D)6D
166.6179	-6.664	384.790	3.5	D6S	(5D)6D	60402.342	2.5	4P	(3F)4P	167.4716	-1.071	3117.461	1.5	D7	(5D)4F
166.6219	-6.611	30764.485	3.5	D6S	(3G)2G	90780.621	3.5	5P	(5D)4F	167.4871	-3.348	31364.440	1.5	D6S	(3D)4D
166.6408	-5.481	30388.542	4.5	D6S	(3G)2G	90397.868	3.5	5P	(5D)4D	167.4927	-2.628	103936.600	5.5	5D	(5D)6F
166.6686	-1.345	102334.112	2.5	6S	(5D)6D	42334.822	2.5	4P	(5D)6F	167.5152	-2.668	102030.912	3.5	6S	(5D)6D
166.6702	-3.636	105288.530	1.5	5D	(5D)6G	45289.801	1.5	4P	(5D)4F	167.5170	-4.382	31483.176	3.5	D6S	(3D)4D
166.6723	-6.863	30388.542	4.5	D6S	(3G)2G	90386.528	4.5	5P	(5D)4F	167.5470	-4.382	104120.270	2.5	5D	(5D)6F
166.7011	-9.974	23317.633	2.5	D5S2	(7S)6S	83305.251	3.5	4P	(1F)2G	167.5496	-3.315	31364.440	1.5	D6S	(3D)4D
166.7063	-2.653	105065.630	3.5	5D	(5D)6G	45079.879	2.5	4P	(5D)4F	167.5530	-3.296	31387.948	2.5	D6S	(3D)4D
166.7171	-6.255	27620.412	2.5	D6S	(3F)2F	87602.250	1.5	4SF	(5G)6F	167.5609	-4.100	31368.450	0.5	D6S	(3D)4D
166.7234	-2.226	104426.460	2.5	5D	(5D)6F	44446.878	3.5	4P	(5D)4F	167.5637	-7.860	30388.542	4.5	D6S	(3G)2G
166.7645	-2.158	104411.690	4.5	5D	(5D)6D	44446.878	3.5	4P	(5D)4D	167.5719	-1.857	102334.112	2.5	6S	(5D)6D
166.7753	-4.506	36252.918	2.5	D6S	(3D)2D	96217.420	3.5	4SF	(5P)4D	167.5789	-4.905	104120.270	2.5	5D	(5D)6F
166.7913	-0.864	18886.780	0.5	D7	(5D)2P	78841.960	0.5	4P	(1D)2P	167.5809	-4.625	104426.460	2.5	5D	(5D)6F
166.8001	-7.266	27620.412	2.5	D6S	(3F)2F	87572.431	2.5	4SF	(5G)6F	167.5916	-1.667	13474.411	2.5	D7	(5D)4F
166.8012	-2.172	104705.420	3.5	5D	(5D)6D	44753.799	3.5	4P	(5D)4F	167.6058	-4.269	33466.463	4.5	D6S	(1G)2G
166.8286	-3.771	104174.270	5.5	4D	(3H)4I	44232.512	4.5	4P	(5D)4F	167.6166	-4.079	31387.948	2.5	D6S	(3D)4D
166.8321	-2.352	105230.290	0.5	5D	(5D)4D	45289.801	1.5	4P	(5D)4F	167.6224	-3.258	104411.690	4.5	5D	(5D)6D
166.8500	-1.684	104380.940	3.5	5D	(5D)6F	44446.878	3.5	4P	(5D)4D	167.6327	-3.510	30388.542	4.5	D6S	(3G)2G
166.8535	-2.260	102334.112	2.5	6S	(5D)6D	42401.302	1.5	4P	(5D)6F	167.6361	-1.564	2430.097	3.5	D7	(5D)4F
166.8874	-2.018	104705.420	3.5	5D	(5D)6D	44784.761	2.5	4P	(5D)4D	167.6594	-3.514	103265.694	0.5	6S	(5D)4D
166.8969	-8.325	27620.412	2.5	D6S	(3F)2F	87537.652	3.5	4SF	(5G)6F	167.6679	-2.471	104426.460	2.5	5D	(5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
167.6690	-4.018	36126.387	1.5	D6S (3D)2D	95767.700	0.5	4SP(5P)4D	168.5384	-3.974	2837.950	2.5	D7 (5D)4F	62171.615	3.5	4SP(7S)6P
167.6725	-3.565	1872.567	4.5	D7 (5D)4F	61512.634	4.5	4P (3H)4I	168.5954	-1.170	2837.950	2.5	D7 (5D)4F	62151.561	2.5	4P (3F)4F
167.6805	-2.430	50142.786	2.5	D6S (3F)4F	109780.000	1.5	280DD	168.6078	-4.522	27620.412	2.5	D6S (3F)2F	86929.649	3.5	4P (3P)4D
167.6856	-1.867	2430.097	3.5	D7 (5D)4F	62065.521	3.5	5P (5D)4D	168.6197	-1.701	102543.648	1.5	6S (5D)6D	43238.586	2.5	4P (5D)6P
167.6913	-6.309	30764.485	3.5	D6S (3G)2G	90397.868	3.5	5P (5D)4D	168.6259	-8.170	30764.485	3.5	D6S (3G)2G	90067.347	4.5	5P (5D)6F
167.7089	-2.583	104380.940	3.5	5D (5D)6F	44753.799	3.5	4P (5D)4F	168.6310	-4.877	104380.940	3.5	5D (5D)6F	45079.879	2.5	4P (5D)4F
167.7134	-3.086	104705.420	3.5	5D (5D)6D	45079.879	2.5	4P (5D)4F	168.6372	-4.070	104588.710	1.5	5D (5D)6D	45289.801	1.5	4P (5D)4F
167.7232	-7.539	30764.485	3.5	D6S (3G)2G	90386.528	4.5	5P (5D)4F	168.6413	-3.277	31483.176	3.5	D6S (3D)4D	90780.621	3.5	5P (5D)4F
167.7320	-5.443	2430.097	3.5	D7 (5D)4F	62049.025	2.5	4SP(7S)6P	168.6455	-1.033	2430.097	3.5	D7 (5D)4F	61726.077	3.5	4P (5D)4F
167.7438	-3.417	27314.922	3.5	D6S (3F)2F	86929.649	3.5	4P (3P)4D	168.6598	-4.701	32875.646	6.5	D6S (11)2I	92166.600	5.5	4SP(5G)4H
167.7536	-5.774	26932.748	0.5	D6S (3P)2P	86543.974	1.5	4P (3F)4D	168.6692	-1.652	2837.950	2.5	D7 (5D)4F	62125.600	1.5	4P (3P)2D
167.7708	-3.860	36252.918	2.5	D6S (3D)2D	95858.050	1.5	4SP(5P)4D	168.6788	-1.890	13904.824	0.5	D7 (5D)4P	73189.110	1.5	4P (3D)2P
167.7842	-0.709	18886.780	0.5	D7 (5D)2F	78487.153	1.5	4P (1D)2D	168.6788	-2.591	1872.567	4.5	D7 (5D)4F	61156.835	3.5	4P (3H)4H
167.7960	-4.310	104380.940	3.5	5D (5D)6F	44784.761	2.5	4P (5D)4D	168.6840	-2.606	13904.824	0.5	D7 (5D)4F	73187.820	0.5	4P (3D)2P
167.8239	-4.313	104630.430	1.5	5D (5D)6P	45044.168	1.5	4P (5D)4D	168.6958	-5.370	30764.485	3.5	D6S (3G)2G	90042.779	4.5	4P (3F)4G
167.8312	-1.670	101698.489	4.5	6S (5D)6D	42114.818	4.5	4P (5D)6F	168.7069	-3.289	31364.440	1.5	D6S (3D)4D	90638.822	2.5	5P (5D)4D
167.8402	-2.433	13474.411	2.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F	168.7107	-2.839	49506.934	1.5	D6S (3F)4P	108780.000	1.5	270DD
167.8629	-3.035	3117.461	1.5	D7 (5D)4F	62689.880	2.5	4P (3P)4D	168.7323	-4.311	31364.440	1.5	D6S (3D)4D	90629.902	1.5	4P (3P)4S
167.8777	-2.808	50212.826	2.5	D6S (3P)4P	109780.000	1.5	280DD	168.7427	-4.431	32909.905	5.5	D6S (11)2I	92171.716	4.5	4P (3F)2G
167.8874	-2.269	102802.312	2.5	6S (5D)4D	43238.586	2.5	4P (5D)4D	168.7438	-4.977	31368.450	5.5	D6S (3D)4D	90229.902	1.5	4P (3P)4S
167.9243	-3.944	104757.110	0.5	5D (5D)6D	45206.450	0.5	4P (5D)4D	168.7573	-4.138	32909.905	5.5	D6S (11)2I	92166.600	5.5	4SP(5G)4H
167.9378	-0.272	16369.360	3.5	D7 (5D)2G	75915.215	2.5	4P (3D)2F	168.7739	-4.328	31387.948	2.5	D6S (3D)4D	90638.822	2.5	5P (5D)4D
167.9415	-3.268	104588.710	1.5	5D (5D)6D	45044.168	1.5	4P (5D)4D	168.7849	-3.078	104000.810	3.5	D5 (5D)6P	44753.799	3.5	4P (3D)4F
167.9494	-1.091	13474.411	2.5	D7 (5D)4P	73016.147	3.5	4P (1G)2F	168.7849	-3.078	104000.810	3.5	D5 (5D)6P	44753.799	3.5	4P (3D)4F
167.9589	-4.018	104828.160	2.5	5D (5D)6D	45289.801	1.5	4P (5D)4F	168.8360	-4.236	31364.440	1.5	D6S (3D)4D	90593.497	1.5	5P (5D)6F
167.9637	-6.019	30764.485	3.5	D6S (3G)2G	90300.625	3.5	5P (5D)6F	168.8463	-1.899	2837.950	2.5	D7 (5D)4F	62065.521	3.5	4P (3F)4F
167.9666	-9.289	30388.542	4.5	D6S (3G)2G	89924.175	5.5	5P (5D)6F	168.8475	-4.274	31368.450	0.5	D6S (3D)4D	90593.497	1.5	5P (5D)6F
168.0132	-2.844	103751.660	5.5	4D (3H)4H	44232.512	4.5	4P (5D)4F	168.8475	-4.274	31368.450	0.5	D6S (3D)4D	90593.497	1.5	5P (5D)6F
168.0190	-4.949	32909.905	5.5	D6S (11)2I	92426.980	4.5	4SP(5G)4F	168.8731	-3.687	104000.810	3.5	D5 (5D)6P	44784.761	2.5	4P (5D)4D
168.0223	-4.661	13673.185	1.5	D7 (5D)4P	73189.110	1.5	4P (3D)2P	168.8873	-3.085	2837.950	2.5	D7 (5D)4F	62049.025	2.5	4SP(7S)6P
168.0274	-4.026	13673.185	1.5	D7 (5D)4P	73187.280	0.5	4P (3D)2P	168.9225	-4.665	103983.510	3.5	5S (3G)2G	44784.761	2.5	4P (5D)4D
168.0364	-4.013	31387.948	2.5	D6S (3D)4D	90901.124	2.5	5P (5D)4F	168.9371	-2.409	33501.253	3.5	D6S (1G)2G	92695.374	2.5	4P (3P)2D
168.0567	-3.041	103950.590	4.5	5D (5D)6F	44446.878	3.5	4P (5D)4D	168.9721	-2.988	102802.312	2.5	D6S (5D)4D	43620.957	1.5	4P (5D)6P
168.0621	-4.360	30388.542	4.5	D6S (3G)2G	89890.373	3.5	4P (3F)4G	168.9832	-1.400	13474.411	2.5	D7 (5D)4P	72651.876	3.5	4P (3D)4D
168.0744	-2.884	103118.400	1.5	6S (5D)4D	43620.957	1.5	4P (5D)6P	169.0108	-2.549	27314.922	3.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F
168.1111	-1.480	2837.950	2.5	D7 (5D)4F	62322.431	3.5	4P (3H)2G	169.0272	-3.278	38164.194	2.5	D6S (1D)2D	97326.270	1.5	4SP(3P)2P
168.1378	-3.577	31364.440	1.5	D6S (3D)4D	90839.480	0.5	4P (3P)4P	169.0414	-4.249	48039.090	2.5	D7 (5D)2D	107196.200	2.5	180DD
168.1491	-3.482	31368.450	0.5	D6S (3D)4D	90839.480	0.5	4P (3P)4P	169.0442	-2.209	102394.718	3.5	6S (5D)4D	43238.586	2.5	4P (5D)6P
168.1762	-4.671	101698.489	4.5	6S (5D)6D	42237.033	3.5	4P (5D)6F	169.0698	-3.381	27620.412	2.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D
168.1914	-5.463	26932.748	0.5	D6S (3P)2P	86388.820	0.5	4P (3P)4D	169.0758	-0.986	13474.411	2.5	D7 (5D)4P	72619.490	2.5	4P (3D)4D
168.2011	-4.688	27314.922	3.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D	169.0989	-3.065	2837.950	2.5	D7 (5D)4F	61974.933	1.5	4SP(7S)6P
168.2822	-3.732	104630.430	1.5	5D (5D)6P	45206.450	0.5	4P (5D)4D	169.0989	-3.065	104426.460	2.5	D5 (5D)6F	45289.801	1.5	4P (5D)4F
168.2993	-3.555	31483.176	3.5	D6S (3D)4D	90901.124	2.5	5P (5D)4D	169.1289	-4.542	48039.090	2.5	D7 (5D)2D	107165.600	3.5	170DD
168.3315	-2.101	2837.950	2.5	D7 (5D)4F	62244.520	1.5	4P (3F)4F	169.1289	-4.542	48039.090	2.5	D7 (5D)2D	107165.600	3.5	170DD
168.3560	-4.482	33501.253	3.5	D6S (1G)2G	92899.200	2.5	4P (3F)4D	169.1307	-3.727	30764.485	3.5	D6S (3D)4D	90487.810	2.5	5P (5D)6F
168.3709	-3.317	31387.948	2.5	D6S (3D)4D	90780.621	3.5	5P (5D)4F	169.1379	-3.480	31364.440	1.5	D6S (3D)4D	90487.810	2.5	5P (5D)6F
168.4004	-3.671	104426.460	2.5	5D (5D)6F	45044.168	1.5	4P (5D)4D	169.1564	-2.041	1872.567	4.5	D7 (5D)4F	60989.444	4.5	4P (3H)4H
168.4005	-4.134	104588.710	1.5	5D (5D)6D	45206.450	0.5	4P (5D)4D	169.1639	-3.074	50157.452	4.5	D6S (3F)4F	109271.710	5.5	4SP(3I)2I
168.4010	-1.533	18360.646	1.5	D7 (5D)2P	77742.730	2.5	4P (1D)2F	169.1711	-4.712	38214.507	1.5	D6S (1D)2D	97326.270	1.5	4SP(3P)2P
168.4021	-2.451	13673.185	1.5	D7 (5D)4P	73054.881	2.5	4P (1G)2F	169.2006	-4.634	33501.253	3.5	D6S (1G)2G	92602.703	3.5	4P (3F)2G
168.4223	-3.648	32875.646	6.5	D6S (11)2I	92250.210	6.5	4P (1G)2F	169.2051	-3.991	31387.948	2.5	D6S (3D)4D	90487.810	2.5	5P (5D)6F
168.4276	-1.602	102030.912	3.5	6S (5D)6D	42658.224	3.5	4P (5D)6P	169.2175	-1.411	102334.112	2.5	6S (3P)4P	108191.600	1.5	230DD
168.4452	-3.344	104120.270	2.5	5D (5D)6P	44753.799	3.5	4P (5D)4F	169.2316	-2.692	49100.976	0.5	D6S (3P)4P	108191.600	1.5	230DD
168.5017	-3.189	104426.460	2.5	5D (5D)6F	45079.879	2.5	4P (5D)4F	169.2418	-4.808	31811.822	2.5	D7 (5D)2F	90898.873	1.5	4P (3P)4P
168.5331	-3.164	104120.270	2.5	5D (5D)6P	44784.761	2.5	4P (5D)4D	169.2499	-2.401	1872.567	4.5	D7 (5D)4F	60956.781	3.5	4P (3H)4G
								169.2547	-3.376	2430.097	3.5	D7 (5D)4F	61512.634	4.5	4P (3H)4I

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
169.2732	-3.570	104120.270	2.5	5D (5D)6P	45044.168	1.5	4P (5D)	170.3031	-3.879	50187.813	3.5	D6S (3F)4F	108906.640	3.5	4SP(3G)4H
169.3476	-1.194	13474.411	2.5	D7 (5D)4F	72524.566	1.5	4P (3D)4D	170.3083	-7.960	7955.299	3.5	D6S (5D)4D	66672.334	3.5	4P (3G)4H
169.3602	-1.575	102666.694	0.5	6S (3D)6D	43620.957	1.5	4P (5D)6P	170.3196	-1.754	102334.112	2.5	6S (5D)6D	43620.957	1.5	4P (5D)6P
169.3617	-4.613	7955.299	3.5	D6S (5D)4D	67000.517	2.5	4P (3F)2D	170.3243	-3.617	50157.452	4.5	D6S (3F)4F	108868.980	4.5	4SP(3G)4H
169.3756	-3.432	104120.270	2.5	5D (5D)6P	45079.879	2.5	4P (5D)6P	170.3459	-2.414	50075.910	1.5	D6S (3F)4F	108780.000	1.5	270DD
169.3759	-0.988	101698.489	4.5	6S (5D)6D	42658.224	3.5	4P (5D)6P	170.3735	-2.218	13474.411	2.5	D7 (5D)4F	72168.998	1.5	4P (3D)4F
169.3936	-1.505	3117.461	1.5	D7 (5D)4F	62151.561	2.5	4P (3F)4F	170.3972	-5.232	977.053	0.5	D6S (5D)6D	59663.456	1.5	4P (3F)4S
169.4484	-2.502	1872.567	4.5	D7 (3D)4F	60887.598	5.5	4P (3H)4H	170.4023	-2.399	49506.934	1.5	D6S (3P)4F	108191.600	1.5	230DD
169.4630	-3.766	31387.948	2.5	D6S (3D)4D	90397.868	3.5	5P (3D)4D	170.4124	-3.238	50187.813	3.5	D6S (3F)4F	108868.980	4.5	4SP(3G)4H
169.4681	-1.964	3117.461	1.5	D7 (5D)4F	62125.600	1.5	4P (3P)2D	170.4159	-9.085	30764.485	3.5	D6S (3G)2G	89444.458	2.5	4SP(5P)6P
169.5037	-5.087	667.668	3.5	D6S (5D)6D	59673.342	1.5	4P (3P)4S	170.4435	-4.739	33501.253	3.5	D6S (1G)2G	92171.716	4.5	4P (3F)2G
169.5983	-4.291	30764.485	3.5	D6S (3G)2G	89727.456	2.5	4P (3F)4S	170.4643	-1.669	2430.097	3.5	D7 (5D)4F	61093.413	2.5	4P (3P)2D
169.5983	-4.291	30764.485	3.5	D6S (3G)2G	89727.456	2.5	4P (3F)4S	170.4643	-3.251	105630.750	2.5	5D (5D)4G	46967.444	2.5	4P (5D)4P
169.6459	-1.539	13673.185	1.5	D7 (5D)4F	92426.980	4.5	4SP(5G)4F	170.4945	-4.846	33501.253	3.5	D6S (1G)2G	92154.165	3.5	4SP(5D)6F
169.6794	-0.984	1872.567	4.5	D7 (5D)4F	60807.230	4.5	4P (3H)4H	170.4976	-2.921	50157.452	4.5	D6S (3F)4F	108809.310	5.5	4SP(3G)4H
169.6884	-4.362	3117.461	1.5	D7 (5D)4F	62049.025	2.5	4SP(7S)6P	170.5021	-4.110	33466.463	4.5	D6S (1G)2G	92116.780	4.5	4SP(5G)4H
169.7013	-2.535	27620.412	2.5	D6S (3F)2F	86547.490	2.5	4P (1F)2F	170.5402	-2.074	50142.786	2.5	D6S (3F)4F	108780.000	1.5	270DD
169.7052	-4.407	33501.253	3.5	D6S (1G)2G	92426.980	4.5	4SP(5G)4F	170.5504	-5.453	7955.299	3.5	D6S (5D)4D	66589.008	4.5	4P (3G)4H
169.7114	-5.246	27620.412	2.5	D6S (3F)2F	86543.974	1.5	4P (3P)4D	170.5590	-4.685	37227.326	0.5	D6S (1S)2S	95858.050	1.5	4SP(5P)4D
169.7139	-1.511	102543.648	1.5	6S (5D)6D	43620.957	1.5	4P (5D)6P	170.5796	-3.186	49506.934	1.5	D6S (3P)4F	108130.600	2.5	220DD
169.7190	-4.629	104000.810	3.5	5D (5D)6P	45079.879	2.5	4P (5D)4F	170.5910	-2.823	13904.824	0.5	D7 (5D)4P	72524.566	1.5	4P (3P)4D
169.7225	-1.817	36126.387	1.5	D6S (3D)2D	95046.100	2.5	4P (3F)2F	170.6112	-4.190	36126.387	1.5	D6S (3D)2D	94739.170	1.5	4SP(5P)4F
169.7369	-3.639	31483.176	3.5	D6S (3D)4D	90397.868	3.5	5P (5D)4D	170.6145	-1.869	2430.097	3.5	D7 (5D)4F	61041.748	2.5	4P (3H)4G
169.7424	-2.273	36126.387	1.5	D6S (3D)2D	95039.200	1.5	4P (3P)2P	170.6205	-3.325	102842.119	4.5	5S (3G)4G	44232.512	4.5	4P (5D)4F
169.7428	-3.089	31387.948	2.5	D6S (3D)4D	90300.625	3.5	5P (5D)6F	170.6235	-2.724	8391.938	2.5	D6S (5D)4D	67000.317	2.5	4P (3F)2D
169.7688	-4.332	103983.510	3.5	5S (3G)2G	45079.879	2.5	4P (5D)4F	170.6678	-2.888	8680.454	1.5	D6S (5D)4D	72524.566	1.5	4P (3F)2D
169.7696	-2.982	31483.176	3.5	D6S (3D)4D	90386.528	4.5	5P (5D)4F	170.6834	-3.728	33501.253	3.5	D6S (1G)2G	92089.260	3.5	4SP(5G)4H
169.8135	-1.834	2837.950	2.5	D7 (5D)4F	61726.077	3.5	4P (3P)4D	170.6946	-3.419	36126.387	1.5	D6S (3D)2D	90067.347	4.5	5P (5D)6F
169.8315	-4.093	8391.938	2.5	D6S (5D)4D	67273.826	1.5	4P (3F)2D	170.7234	-3.710	36126.387	1.5	D6S (3D)2D	94700.660	2.5	4P (3F)2D
169.8438	-1.730	13474.411	2.5	D7 (5D)4F	72352.024	3.5	4P (3D)4F	170.7295	-3.230	25787.598	1.5	D6S (3P)2P	84359.800	1.5	4P (1F)2D
169.8809	-3.194	49506.934	1.5	D6S (3P)4F	108371.700	1.5	250DD	170.7399	-1.059	13474.411	2.5	D7 (5D)4P	72043.026	1.5	4P (3D)4P
169.8879	-3.482	27620.412	2.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F	170.7441	-3.321	50212.826	2.5	D6S (3P)4F	108780.000	1.5	270DD
169.9020	-3.950	3117.461	1.5	D7 (5D)4F	61974.933	1.5	4SP(7S)6P	170.7446	-3.153	7955.299	3.5	D6S (5D)4D	66522.304	2.5	4P (3G)4F
169.9088	-3.512	103608.909	4.5	5S (3G)2G	44753.799	3.5	4P (5D)4F	170.7495	-2.650	13673.185	1.5	D7 (5D)4P	72238.513	2.5	4P (3D)4F
169.9195	-1.083	13673.185	1.5	D7 (5D)4F	72524.566	1.5	4P (3D)4D	170.7662	-4.124	34483.176	3.5	D6S (3D)4D	90042.779	4.5	4P (3F)4G
169.9799	-4.540	104120.270	2.5	5D (5D)6P	45289.801	1.5	4P (5D)4F	170.7669	-1.294	2430.097	3.5	D7 (5D)4F	60989.444	4.5	4P (3H)4H
169.9852	-3.358	33501.253	3.5	D6S (1G)2G	92329.890	2.5	4SP(5G)4F	170.7688	-4.012	36126.387	1.5	D6S (3D)2D	94685.090	2.5	4SP(5D)6P
169.9908	-1.634	36252.918	2.5	D6S (3D)2D	95079.640	3.5	4P (3F)2F	170.7845	-2.363	50075.910	1.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G
170.0158	-3.865	31811.822	2.5	D7 (5D)2F	90629.902	1.5	4P (3P)4S	170.8223	-4.781	37227.326	0.5	D6S (1S)2S	95767.700	0.5	4SP(5P)4D
170.0176	-4.404	31483.176	3.5	D6S (3D)4D	90300.625	3.5	5P (5D)6F	170.8240	-0.923	13673.185	1.5	D7 (5D)4P	72212.978	0.5	4P (3D)4G
170.0260	-5.442	20516.960	2.5	D7 (5D)2D	79331.500	3.5	4SP(5S)6P	170.8622	-0.996	2430.097	3.5	D7 (5D)4F	60956.781	3.5	4P (3H)4G
170.0656	-5.014	862.613	1.5	D6S (5D)6D	59663.456	1.5	4P (3P)4S	170.8675	-1.265	13904.824	0.5	D7 (5D)4P	72429.711	0.5	4P (3D)4D
170.0877	-3.086	36252.918	2.5	D6S (3D)2D	95046.100	2.5	4P (3F)2F	170.9331	-4.516	31387.948	2.5	D6S (3D)4D	89890.373	3.5	4P (3F)4G
170.0902	-1.345	102030.912	3.5	6S (5D)6D	43238.586	2.5	4P (5D)6P	170.9375	-5.348	20830.582	2.5	D6S (3P)4F	79331.500	3.5	4SP(5S)6P
170.1077	-1.942	36252.918	2.5	D6S (3D)2D	95039.200	1.5	4P (3P)2P	170.9524	-3.949	13673.185	1.5	D7 (5D)4P	72168.998	1.5	4P (3D)4F
170.1224	-4.903	33501.253	3.5	D6S (1G)2G	92274.120	3.5	4P (3P)4F	170.9553	-1.766	2837.950	2.5	D7 (5D)4F	61332.764	1.5	4P (3P)4P
170.1465	-4.042	33501.253	3.5	D6S (1G)2G	92274.120	3.5	4P (3P)4F	170.9685	-0.547	13474.411	2.5	D7 (5D)4P	71964.710	2.5	4P (3D)4P
170.1602	-5.467	20516.960	2.5	D7 (5D)2D	79285.110	2.5	4SP(5S)6P	170.9744	-2.436	50142.786	2.5	D6S (3F)4F	108631.090	3.5	4SP(3G)4G
170.1719	-2.232	13474.411	2.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F	170.9797	-2.959	50142.786	2.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G
170.1726	-3.615	50142.786	2.5	D6S (3F)4F	108906.640	3.5	4SP(3G)4G	170.9804	-3.843	36252.918	2.5	D6S (3D)2D	94639.170	1.5	4SP(5P)4F
170.1939	-1.719	13673.185	1.5	D7 (5D)4F	72429.711	0.5	4P (3D)4D	170.9925	-2.674	105449.540	3.5	5D (5D)4G	46967.444	2.5	4P (5D)4P
170.2002	-4.666	36126.387	1.5	D6S (3D)2D	94880.740	0.5	4SP(5P)4F	171.0172	-4.186	50157.452	4.5	D6S (3F)4F	108631.090	3.5	4SP(3G)4G
170.2044	-0.137	1872.567	4.5	D7 (5D)4F	60625.449	5.5	4P (3H)4G	171.0425	-7.395	30388.542	4.5	D6S (3G)2G	88853.533	3.5	5P (5D)6D
170.2293	-3.166	105711.730	2.5	5D (5D)6F	46967.444	2.5	4P (5D)4F	171.0731	-5.700	20830.582	2.5	D6S (3P)4F	79285.110	2.5	4SP(5S)6P
170.2417	-7.253	30388.542	4.5	D6S (3G)2G	89128.561	3.5	4SP(5P)6P	171.0930	-2.017	36252.918	2.5	D6S (3D)2D	94700.660	2.5	4P (3F)2D
170.2730	-5.688	20516.960	2.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P	171.0960	-4.954	105474.180	2.5	4D (3F)4G	46967.444	2.5	4P (5D)4P
170.2802	-2.642	2430.097	3.5	D7 (5D)4F	61156.835	3.5	4P (3H)4H	171.1061	-2.958	50187.813	3.5	D6S (3F)4F	108631.090	3.5	4SP(3G)4G
170.2805	-2.369	20516.960	2.5	D7 (5D)2D	79243.600	1.5	4P (1D)2P	171.1086	-3.464	25428.784	5.5	D6S (3G)4G	83871.184	4.5	4P (1F)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
171.1115	-4.060	50187.813	3.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G	172.1516	-2.070	102842.119	4.5	5S (3G)4G	44753.799	3.5	4P (5D)4F
171.1386	-3.556	36252.918	2.5	D6S (3D)2D	94685.090	2.5	4SP(5D)6P	172.1604	-4.076	36126.387	1.5	D6S (3D)2D	94821.739	2.5	4SP(5P)4P
171.1536	-3.005	8846.768	0.5	D6S (5D)4D	67273.826	1.5	4P (3F)2D	172.1710	-1.904	50157.452	4.5	D6S (3F)4F	108239.200	3.5	240DD
171.1684	-2.153	7955.299	3.5	D6S (5D)4D	66377.283	3.5	4P (3G)4F	172.1738	-2.369	25787.598	1.5	D6S (3F)2P	83868.450	2.5	4P (1F)2D
171.1793	-4.407	50212.826	2.5	D6S (3P)4P	108631.090	3.5	4SP(3G)4G	172.1806	-3.912	31811.822	2.5	D7 (5D)2F	89890.373	3.5	4P (3F)4G
171.1872	-4.504	20830.582	2.5	D6S (3F)4F	79246.170	1.5	4SP(5S)6P	172.1934	-1.508	103118.400	1.5	6S (5D)4D	45044.168	1.5	4P (5D)4D
171.1945	-3.003	50157.452	4.5	D6S (3F)4F	108570.560	4.5	4SP(3G)4G	172.2182	-3.549	25805.328	4.5	D6S (3G)4G	83871.184	4.5	4P (1F)2G
171.1947	-5.056	20830.582	2.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P	172.2379	-1.785	103265.694	0.5	6S (5D)4D	45206.450	0.5	4P (5D)4D
171.2195	-2.623	44929.550	2.5	D6S (1F)2F	103334.100	2.5	4SP(3D)2F	172.2432	-4.758	7955.299	3.5	D6S (5D)4D	60412.750	4.5	4P (3G)4F
171.2468	-2.791	102842.119	4.5	5S (3G)4G	44446.878	3.5	4P (5D)4D	172.2460	-4.741	31387.948	2.5	D6S (3D)4D	89444.458	2.5	4SP(5P)6P
171.2835	-2.392	50187.813	3.5	D6S (3F)4F	108570.560	4.5	4SP(3G)4G	172.2514	-3.779	50075.910	1.5	D6S (3F)4F	108130.600	2.5	220DD
171.3000	-0.420	2430.097	3.5	D7 (5D)4F	60807.230	4.5	4P (3H)4G	172.2557	-4.083	38164.194	2.5	D6S (1D)2D	96217.420	3.5	4SP(5P)4D
171.3214	-2.138	13673.185	1.5	D7 (5D)4F	72043.026	1.5	4P (3D)4P	172.2612	-2.193	50187.813	3.5	D6S (3F)4F	108239.200	3.5	240DD
171.3383	-7.679	30764.485	3.5	D6S (3G)2G	89128.561	3.5	4SP(5P)6P	172.2688	-4.068	50142.786	2.5	D6S (3F)4F	108191.600	1.5	230DD
171.3636	-2.595	102802.312	2.5	6S (5D)4D	44446.878	3.5	4P (5D)4D	172.2697	-0.858	102802.312	2.5	6S (5D)4D	44753.799	3.5	4P (5D)4F
171.3650	-8.251	30764.485	3.5	D6S (3G)2G	89119.457	2.5	5P (5D)6D	172.2994	-1.016	103118.400	1.5	6S (5D)4D	45079.879	2.5	4P (5D)4F
171.3724	-1.894	102584.963	5.5	5S (3G)4G	44232.512	4.5	4P (5D)4F	172.3354	-2.322	50212.826	2.5	D6S (3F)4P	108239.200	3.5	240DD
171.4277	-2.099	103118.400	1.5	6S (5D)4D	44784.761	2.5	4P (5D)4D	172.3616	-1.190	102802.312	2.5	6S (5D)4D	44784.761	2.5	4P (5D)4D
171.4489	-2.134	50157.452	4.5	D6S (3G)2G	88723.400	4.5	5P (5D)6D	172.4500	-3.653	50142.786	2.5	D6S (3F)4F	108130.600	2.5	220DD
171.4620	-3.327	105111.730	2.5	D6S (1F)2F	47389.779	1.5	4P (5D)4P	172.4574	-1.795	8391.938	2.5	D6S (5D)4D	66377.283	3.5	4P (3G)4F
171.4676	-3.070	8680.454	1.5	D6S (5D)4D	67000.517	2.5	4P (3F)2D	172.4769	-2.226	172.4769	-2.226				
171.4710	-1.557	2837.950	2.5	D7 (5D)4F	61156.835	3.5	4P (3H)4H	172.4820	-6.310	21308.040	1.5	D7 (5D)2D	79285.110	2.5	4SP(5S)6P
171.5026	-3.151	13904.824	0.5	D7 (5D)4P	72212.978	0.5	4P (3D)4P	172.4853	-2.950	3117.461	1.5	D7 (5D)4F	65931.334	3.5	4P (3G)4G
171.5137	-4.779	26055.423	2.5	D6S (3G)4G	84359.800	1.5	4P (3F)2D	172.4885	-1.734	103265.694	0.5	6S (5D)4D	61093.413	2.5	4P (3F)2D
171.5390	-4.086	50075.910	1.5	D6S (3F)4F	108371.700	1.5	250DD	172.4855	-1.230	103265.694	0.5	6S (5D)4D	45289.801	1.5	4P (5D)4F
171.5515	-0.730	13673.185	1.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	172.4963	-1.499	2430.097	3.5	D7 (5D)4F	60402.342	1.5	4P (3P)4P
171.5843	-6.113	8391.938	2.5	D6S (5D)4D	66672.334	3.5	4P (3G)4H	172.5024	-1.404	20516.960	2.5	D7 (5D)2D	78487.153	1.5	4P (1D)2D
171.6189	-2.861	44915.046	3.5	D6S (1F)2F	103183.700	3.5	4SP(3D)2F	172.5363	-3.525	30764.485	3.5	D6S (3G)2G	88723.400	4.5	5P (5D)6D
171.6321	-1.712	13904.824	0.5	D7 (5D)4F	72168.998	1.5	4P (3D)4F	172.5690	-0.945	102394.718	3.5	6S (5D)4D	44446.878	3.5	4P (5D)4D
171.6577	-1.734	2837.950	2.5	D7 (5D)4F	61093.413	2.5	4P (3P)2D	172.5840	-2.017	50187.813	3.5	D6S (3F)4F	108130.600	2.5	220DD
171.7004	-3.681	105630.750	2.5	D6S (5D)4G	47389.779	1.5	4P (5D)4P	172.5979	-5.655	21308.040	1.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P
171.7082	-4.184	105205.790	2.5	D6S (5D)6G	46967.444	2.5	4P (5D)4P	172.5979	-5.655	21308.040	1.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P
171.7107	-2.274	16369.360	3.5	D7 (5D)2G	74606.841	2.5	4P (3D)2D	172.6056	-0.811	21308.040	1.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P
171.7298	-3.331	50142.786	2.5	D6S (3F)4F	108373.800	3.5	260DD	172.6156	-2.391	8680.454	1.5	D6S (5D)4D	66612.656	1.5	4P (3G)4F
171.7360	-2.223	50142.786	2.5	D6S (3F)4F	108371.700	1.5	250DD	172.6392	-0.725	3117.461	1.5	D7 (5D)4F	61041.748	2.5	4P (3H)4G
171.7446	-7.934	30388.542	4.5	D6S (3G)2G	88614.520	4.5	4SP(5P)6D	172.6584	-2.722	3117.461	1.5	D7 (5D)4F	61035.287	0.5	4P (3P)4P
171.7578	-2.049	103265.694	0.5	6S (5D)4D	45044.168	1.5	4P (5D)4D	172.6586	-2.935	50212.826	2.5	D6S (3P)4P	108130.600	2.5	220DD
171.7716	-1.999	18360.646	1.5	D7 (5D)2P	66577.482	0.5	4P (1S)2P	172.6653	-2.350	31811.822	2.5	D7 (5D)2F	89727.342	2.5	4P (3F)4G
171.7761	-2.486	3117.461	1.5	D7 (5D)4F	61332.764	1.5	4P (3P)4P	172.6759	-1.757	103118.400	1.5	6S (5D)4D	45206.450	0.5	4P (5D)4D
171.8101	-1.333	2837.950	2.5	D7 (5D)4F	76577.482	0.5	4P (1S)2P	172.6943	-1.068	15844.650	4.5	D7 (5D)2G	73751.282	4.5	4P (1I)2H
171.8427	-2.360	38164.194	2.5	D6S (1D)2D	69356.960	3.5	4SP(3G)2F	172.6967	-4.662	104873.230	3.5	5D (5D)4D	46967.444	2.5	4P (5D)4P
171.8627	-3.746	50187.813	3.5	D6S (3F)4F	108373.800	3.5	260DD	172.7427	-4.468	25981.629	3.5	D6S (3G)4G	93988.170	2.5	4SP(5G)4G
171.8984	-0.942	20516.960	2.5	D7 (5D)2D	78690.846	2.5	4P (1D)2D	172.7497	-4.217	102334.112	2.5	6S (5D)6D	44446.878	3.5	4P (5D)4D
171.9330	-0.769	102394.718	3.5	6S (5D)4D	44232.512	4.5	4P (5D)4F	172.7509	-5.326	25981.629	3.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D
171.9385	-1.266	105127.770	2.5	5D (5D)4D	46967.444	2.5	4P (5D)4P	172.8256	-2.011	36126.387	1.5	D6S (3D)2D	93988.170	2.5	4SP(5G)4G
171.9428	-4.392	50212.826	2.5	D6S (3P)4P	108371.700	1.5	250DD	172.8288	-2.011	104828.160	2.5	5D (5D)6D	46967.444	2.5	4P (5D)4P
172.0039	-0.896	13904.824	0.5	D7 (5D)4P	72043.026	1.5	4P (3D)4P	172.8302	-3.515	20830.582	2.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D
172.0271	-2.205	8391.938	2.5	D6S (5D)4D	66522.304	2.5	4P (3G)4F	172.8607	-8.058	30764.485	3.5	D6S (3G)2G	88614.520	4.5	4SP(5P)6D
172.0427	-2.003	15844.650	4.5	D7 (5D)2G	73969.767	5.5	4P (1I)2I	172.8852	-1.959	8680.454	1.5	D6S (5D)4D	66522.304	2.5	4P (3G)4F
172.0490	-4.537	7955.299	3.5	D6S (5D)4D	69678.269	2.5	4P (3G)4G	172.8892	-1.974	105230.490	0.5	6S (5D)4D	47389.779	1.5	4P (5D)4F
172.0613	-0.585	2837.950	2.5	D7 (5D)4F	60956.781	3.5	4P (3H)4G	172.9162	-4.225	38164.194	2.5	D6S (1D)2D	95995.690	2.5	4SP(5P)4D
172.0706	-4.342	50075.910	1.5	D6S (3F)4F	108191.600	1.5	230DD	172.9248	-1.852	103118.400	1.5	6S (5D)4D	45289.801	1.5	4P (5D)4F
172.0717	-3.224	38164.194	2.5	D6S (1D)2D	96279.440	2.5	4SP(3G)2F	172.9478	-8.852	30388.542	4.5	D6S (3G)2G	88209.450	3.5	4SP(5P)6D
172.1224	-2.654	105065.630	3.5	5D (5D)6G	46967.444	2.5	4P (5D)4P	172.9496	-2.550	36252.918	2.5	D6S (3D)2D	94073.240	3.5	4SP(5G)4G
172.1277	-3.860	50142.786	2.5	D6S (3F)4F	108239.200	3.5	240DD	172.9625	-3.823	105205.790	2.5	5D (5D)6G	47389.779	1.5	4P (5D)4F
172.1495	-8.635	30764.485	3.5	D6S (3G)2G	88853.533	3.5	5P (5D)6D	172.9714	-5.827	26055.423	2.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
172.9748	-3.214	37227.326	0.5	D6S (1S)2S	95039.200	1.5	4P (3P)2P	173.8574	-3.558	26352.766	4.5	D6S (3H)2H	83871.184	4.5	4P (1F)2G
172.9887	-2.261	50157.452	4.5	D6S (3F)4F	107964.700	4.5	210DD	173.8608	-4.459	99918.569	1.5	5S (3F)4F	42401.302	1.5	4P (5D)6F
173.0152	-1.924	102030.912	3.5	6S (5D)6D	44232.512	4.5	4P (5D)4F	173.8752	-3.694	102802.312	2.5	6S (5D)4D	45289.801	1.5	4P (5D)4F
173.0396	-2.020	50187.813	3.5	D6S (3F)4F	107964.700	4.5	210DD	173.8772	-4.708	37227.326	0.5	D6S (1S)2S	94739.170	1.5	4SP(5P)4P
173.1038	-1.322	18360.646	1.5	D7 (5D)2P	76129.446	1.5	4P (1S)2P	173.9133	-3.996	25803.328	4.5	D6S (3G)4G	83305.251	3.5	4P (1F)2G
173.1125	-2.109	8846.768	0.5	D6S (5D)4D	66612.656	1.5	4P (3G)4F	173.9146	-2.598	102543.648	1.5	6S (5D)6D	45044.168	1.5	4P (5D)4D
173.1336	-0.829	15844.650	4.5	D7 (5D)2G	73603.500	5.5	4P (11)2H	173.9456	-4.182	99824.045	2.5	5S (3F)4F	42334.822	0.5	4P (5D)6F
173.1358	-1.571	102802.312	2.5	6S (5D)4D	45044.168	1.5	4P (5D)4D	173.9773	-4.310	99139.569	1.5	5S (3F)4F	42439.822	0.5	4P (5D)6F
173.1606	-6.052	21581.638	4.5	D6S (3H)4H	79331.500	3.5	4SP(5S)6P	173.9946	-5.295	21812.055	1.5	D6S (3P)4P	79285.110	2.5	4SP(5S)6P
173.1787	-2.722	50142.786	2.5	D6S (3F)4F	107886.600	3.5	200DD	174.0160	-2.876	101698.489	4.5	6S (5D)6D	44232.512	1.5	4P (5D)4F
173.1879	-1.818	7955.299	3.5	D6S (5D)4D	65696.038	4.5	4P (3G)4G	174.0227	-3.217	102543.648	1.5	6S (5D)6D	45079.879	2.5	4P (5D)4F
173.1883	-4.827	31387.948	2.5	D6S (3D)4D	93830.979	2.5	4SP(5P)6P	174.0334	-3.113	102666.694	0.5	6S (5D)6D	45206.450	0.5	4P (5D)4D
173.1962	-1.162	105127.770	2.5	5D (5D)4D	47389.779	1.5	4P (5D)4P	174.0371	-4.280	104426.460	2.5	5D (5D)6F	46967.444	2.5	4P (5D)4F
173.1962	-0.970	104705.420	3.5	5D (5D)6D	46967.444	2.5	4P (5D)4P	174.0389	-4.229	99573.225	4.5	5S (3F)4F	42114.818	4.5	4P (5D)6F
173.2044	-3.496	36252.918	2.5	D6S (3D)2D	93888.170	2.5	107886.600	174.0605	-4.031	99688.337	3.5	5S (3F)4F	42237.033	3.5	4P (5D)6F
173.2227	-1.986	50157.452	4.5	D6S (3F)4F	107886.600	3.5	200DD	174.0797	-8.071	30764.485	3.5	D6S (3G)2G	88209.450	3.5	4SP(5P)6D
173.2253	-3.428	31999.048	3.5	D7 (5D)2F	89727.342	2.5	4P (3F)4G	174.0996	-2.077	104828.160	2.5	5D (5D)6D	47389.779	1.5	4P (5D)4P
173.2429	-1.894	102802.312	2.5	6S (5D)4D	45079.879	2.5	4P (3D)4F	174.1125	-4.500	21812.055	1.5	D6S (3P)4P	79246.170	1.5	4SP(5S)6P
173.2964	-4.848	36126.387	1.5	D6S (3D)2D	93830.979	2.5	4SP(5D)6D	174.1203	-3.924	26932.748	0.5	D6S (3P)2P	84359.800	1.5	4P (1F)2D
173.3072	-2.058	26170.181	5.5	D6S (3H)2H	83871.184	4.5	4P (1F)2G	174.1340	-2.558	99824.045	2.5	5S (3F)4F	42401.302	1.5	4P (5D)6F
173.3139	-2.664	50187.813	3.5	D6S (3F)4F	107886.600	3.5	200DD	174.1470	-4.170	104380.940	3.5	5D (5D)6F	46967.444	2.5	4P (5D)4F
173.3287	-4.494	38164.194	2.5	D6S (1D)2D	95858.050	1.5	4SP(5P)4D	174.1751	-2.430	99573.225	4.5	5S (3F)4F	42114.818	4.5	4P (5D)6F
173.3382	-2.856	18886.780	0.5	D7 (5D)2P	76577.482	0.5	4P (1S)2P	174.2103	-3.725	8846.768	0.5	D6S (5D)4D	66248.660	0.5	4P (3P)2S
173.3425	-3.438	49506.934	1.5	D6S (3F)4P	107196.200	2.5	180DD	174.2227	-3.022	8680.454	1.5	D6S (5D)4D	66078.269	2.5	4P (3G)4G
173.3513	-3.429	8391.938	2.5	D6S (5D)4D	60778.269	2.5	4P (3G)4G	174.2682	-1.932	21308.040	1.5	D7 (5D)2D	78690.846	2.5	4P (1D)2G
173.3890	-2.892	50212.826	2.5	D6S (3P)4P	107886.600	3.5	200DD	174.2709	-0.804	16369.360	3.5	D7 (5D)2G	73751.282	4.5	4P (11)2H
173.4215	-2.504	104630.430	1.5	5D (5D)6P	46967.444	2.5	4P (5D)4P	174.2862	-4.227	102666.694	0.5	6S (5D)6D	45289.801	1.5	4P (5D)4F
173.4408	-4.613	20830.582	2.5	D6S (3F)4P	78487.153	1.5	4P (1D)2D	174.3060	-4.593	31483.176	3.5	D6S (3D)4D	88853.533	3.5	5P (5D)6D
173.4504	-0.853	54275.637	2.5	D5S2(7S)4G	111929.000	2.5	290DD	174.3152	-3.398	104757.110	0.5	5D (5D)6D	47389.779	1.5	4P (5D)4P
173.4732	-2.142	54283.220	3.5	D5S2(7S)4G	111929.000	2.5	290DD	174.3572	-4.082	99688.337	3.5	5S (3F)4F	42334.822	2.5	4P (5D)6F
173.4744	-3.945	31483.176	3.5	D6S (3D)4D	89128.561	3.5	4SP(5P)6P	174.4068	-3.125	102543.648	1.5	6S (5D)6D	45206.450	0.5	4P (5D)4D
173.4800	-4.136	38214.507	1.5	D6S (1D)2D	95858.050	1.5	4SP(3P)4D	174.4099	-4.277	99573.225	4.5	5S (3F)4F	42237.033	3.5	4P (5D)6F
173.4879	-2.352	102394.718	3.5	6S (5D)4D	44753.799	3.5	4P (5D)4F	174.4103	-4.939	32875.646	6.5	D6S (11)21	90211.700	5.5	4P (3F)4G
173.4936	-3.904	31364.440	1.5	D6S (3D)4D	89003.460	0.5	4P (3P)2S	174.4239	-2.584	20805.770	4.5	D7 (5D)2H	78137.364	3.5	4P (1D)2F
173.5018	-4.976	31483.176	3.5	D6S (3D)4D	89119.457	2.5	5P (5D)6D	174.4482	-3.681	25981.629	3.5	D6S (3G)4G	83305.251	3.5	4P (1F)2G
173.5057	-3.793	31368.450	0.5	D6S (3D)4D	89003.460	0.5	4P (3P)2S	174.4994	-4.243	20830.582	2.5	D6S (3P)4P	78137.364	3.5	4P (1F)2G
173.5432	-4.696	102666.694	0.5	6S (5D)6D	45044.168	1.5	4P (5D)4D	174.5242	-1.652	15844.650	4.5	D7 (5D)2G	73143.288	3.5	4P (1G)2G
173.5470	-2.627	104588.710	1.5	5D (5D)6D	46967.444	2.5	4P (5D)4P	174.5356	-7.893	30764.485	3.5	D6S (3G)2G	88059.380	2.5	4SP(5P)6D
173.5496	-1.553	20516.960	2.5	D7 (5D)2D	78137.364	3.5	4P (1D)2F	174.5507	-2.823	102334.112	2.5	6S (5D)6D	45044.168	1.5	4P (5D)4D
173.5521	-7.195	21711.917	3.5	D6S (3H)4H	79331.500	3.5	4SP(5S)6P	174.5661	-3.341	3117.461	1.5	D7 (5D)4F	60402.342	2.5	4P (3P)4P
173.5811	-1.615	102394.718	3.5	6S (5D)4D	44784.761	2.5	4P (5D)4D	174.5898	-3.740	102030.912	3.5	6S (5D)6D	44753.799	3.5	4P (5D)4F
173.5984	-1.440	105230.290	0.5	D6S (5D)4D	47626.076	0.5	4P (3D)2H	174.6146	-3.352	36126.387	1.5	D6S (3D)2D	93395.360	2.5	4P (3F)4F
173.6082	-3.582	7955.299	3.5	D6S (5D)4D	65556.280	4.5	4P (5D)4D	174.6676	-2.646	101698.489	4.5	6S (5D)6D	44446.878	3.5	4P (5D)4D
173.6490	-4.247	36252.918	2.5	D6S (3D)2D	93840.340	1.5	4SP(5D)6D	174.6730	-4.822	26055.423	2.5	D6S (3G)4G	83305.251	3.5	4P (1F)2G
173.6592	-1.625	102030.912	3.5	6S (5D)6D	44446.878	3.5	4P (5D)4D	174.6818	-0.190	15844.650	4.5	D7 (5D)2G	73091.590	4.5	4P (1G)2G
173.6705	-2.521	102334.112	2.5	6S (5D)6D	44753.799	3.5	4P (5D)4F	174.6842	-2.833	102030.912	3.5	6S (5D)6D	44784.761	2.5	4P (5D)4D
173.6773	-4.384	36252.918	2.5	D6S (3D)2D	93830.979	2.5	4SP(5D)6D	174.6949	-1.930	18886.780	0.5	D7 (5D)2P	76129.446	1.5	4P (1S)2P
173.6887	-2.817	44929.550	2.5	D6S (1F)2F	102503.810	1.5	4SP(3D)2D	174.7010	-2.255	104630.430	1.5	5D (5D)6P	40430.430	1.5	4P (5D)4P
173.6919	-0.829	21711.917	3.5	D6S (3H)4H	79285.110	2.5	4SP(5S)6P	174.7224	-4.535	99332.102	4.5	5S (3H)2H	47389.779	1.5	4P (5D)4P
173.7070	-4.047	8680.454	1.5	D6S (5D)4D	66248.660	0.5	4P (3P)2S	174.7464	-2.865	20516.960	2.5	D7 (5D)2D	77742.730	2.5	4P (5D)6F
173.7185	-2.551	2837.950	2.5	D7 (5D)4F	60402.342	2.5	4P (3P)4P	174.7724	-4.535	99332.102	4.5	5S (3H)2H	47389.779	1.5	4P (5D)4P
173.7482	-2.551	18360.646	1.5	D7 (5D)2P	75915.215	2.5	4P (3D)2F	174.7724	-4.535	99332.102	4.5	5S (3H)2H	47389.779	1.5	4P (5D)4P
173.7523	-4.645	38214.507	1.5	D6S (1D)2D	95767.700	0.5	4SP(3P)4D	174.8284	-3.367	104588.710	1.5	5D (5D)6D	42114.818	4.5	4P (5D)6F
173.7639	-2.095	102334.112	2.5	6S (5D)6D	44784.761	2.5	4P (5D)4D	174.8890	-2.401	21308.040	1.5	D7 (5D)2D	78487.153	1.5	4P (1D)2D
173.7940	-2.431	8391.938	2.5	D6S (3D)4D	65931.334	3.5	4P (3G)4G	174.9123	-1.224	15844.650	4.5	D7 (5D)2G	73016.147	3.5	4P (1G)2G
173.8101	-2.996	44915.046	3.5	D6S (1F)2F	102449.100	2.5	4SP(3D)2D	174.9358	0.283	109463.220	3.5	4SD(7S)8P	52299.390	2.5	4SP(7S)8P
173.8105	-3.636	21308.040	1.5	D7 (5D)2P	78841.960	0.5	4P (1D)2P	174.9602	0.283	109463.220	3.5	4SD(7S)8P	52299.390	2.5	4SP(7S)8P
173.8539	-4.002	44929.550	2.5	D6S (1F)2F	102449.100	2.5	4SP(3D)2D	174.9647	-4.331	7955.299	3.5	D6S (5D)4D	65109.679	3.5	4P (3F)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
174.9695	-2.837	104120.270	2.5	5D (5D)6P	46967.444	2.5	4P (5D)4P	176.3826	-4.871	31364.440	1.5	D6S (3D)4D	88059.380	2.5	4SP(5P)6D
174.9777	0.298	109449.530	1.5	4SD(7S)8D	52299.390	2.5	4SP(7S)8P	176.3846	-3.924	22637.205	4.5	D6S (3F)4F	79331.500	3.5	4SP(5S)6P
174.9809	-7.728	30388.542	4.5	D6S (3G)2G	87537.652	3.5	4SP(5G)6F	176.4119	-0.939	16369.360	3.5	D7 (5D)2G	73054.881	2.5	4P (1G)2F
175.0353	-3.672	31483.176	3.5	D6S (3D)4D	88614.520	4.5	4SP(5P)6D	176.4443	-3.813	21812.055	1.5	D6S (3P)4P	78487.153	1.5	4P (1D)2D
175.0362	-4.087	104757.110	0.5	5D (5D)6D	47626.076	0.5	4P (5D)4P	176.4481	-4.108	99332.102	4.5	5S (3H)2H	42658.224	3.5	4P (1D)2P
175.0691	-3.478	50075.910	1.5	D6S (3F)4F	107196.200	2.5	180DD	176.5325	-1.014	16369.360	3.5	D7 (5D)2G	73016.147	3.5	4P (1G)2F
175.1465	-4.492	99332.102	4.5	5S (3H)2H	42237.033	3.5	4P (5D)6F	176.5341	-3.968	36252.918	2.5	D6S (3D)2D	92899.200	2.5	4P (3F)4D
175.1828	-6.585	30388.542	4.5	D6S (3G)2G	87471.765	4.5	4SP(5G)6F	176.5401	-4.938	44929.550	2.5	D6S (1F)2F	101573.900	1.5	4SP(3D)4P
175.2063	-4.033	36252.918	2.5	D6S (3D)2D	93328.480	1.5	4P (3F)4F	176.6778	-4.964	31364.440	1.5	D6S (3D)4D	87964.650	1.5	4SP(5P)6D
175.2388	-3.740	54870.528	2.5	D6S (3F)2F	111929.000	2.5	290DD	176.7238	-4.903	99824.045	2.5	5S (3F)4F	43238.586	2.5	4P (5D)6P
175.2743	-2.937	50142.786	2.5	D6S (3F)4F	107196.200	2.5	180DD	176.7524	-4.559	33466.463	4.5	D6S (1G)2G	90462.779	4.5	4P (3F)4G
175.2870	-3.794	13474.411	2.5	D7 (5D)4P	70523.706	3.5	4P (3G)2G	176.7566	-3.841	38164.194	2.5	D6S (1D)2D	94739.170	1.5	4SP(5P)4P
175.3258	-2.926	104426.460	2.5	5D (5D)6F	47389.779	1.5	4P (5D)4P	176.7753	-3.342	36126.387	1.5	D6S (3D)2D	92695.374	2.5	4P (3P)2D
175.3360	-2.918	104000.810	3.5	5D (5D)6P	46967.444	2.5	4P (5D)4P	176.8151	-3.553	27314.922	3.5	D6S (3F)2F	83871.184	4.5	4P (1F)2G
175.3466	-4.397	99688.337	3.5	5S (3F)4F	42658.224	3.5	4P (5D)6P	176.8168	-4.119	21581.638	4.5	D6S (3H)4H	78137.364	3.5	4P (1F)2F
175.3624	-4.139	54904.222	3.5	D6S (3F)2F	111929.000	2.5	290DD	176.8236	-2.920	27314.922	3.5	D6S (3F)2F	83868.450	2.5	4P (1F)2D
175.3684	-1.966	50142.786	2.5	D6S (3F)4F	107165.600	3.5	170DD	176.8472	-3.380	3117.461	1.5	D7 (5D)4F	59663.456	1.5	4P (3P)4S
175.4128	-2.654	50187.813	3.5	D6S (3F)4F	107165.600	3.5	170DD	176.8625	-3.798	30388.542	4.5	D6S (3G)2G	86929.649	3.5	4P (3F)4D
175.4252	-3.567	104630.430	1.5	5D (5D)6P	47626.076	0.5	4P (5D)4P	176.8770	-2.240	38164.194	2.5	D6S (1D)2D	94700.660	2.5	4P (3F)4D
175.4252	-3.567	104630.430	1.5	5D (5D)6P	47626.076	0.5	4P (5D)4P	176.8887	-2.558	50157.452	4.5	D6S (3F)4F	106890.170	5.5	4SP(3I)2H
175.4898	-3.320	50212.826	2.5	D6S (3P)4P	107196.200	2.5	180DD	176.8983	-4.940	31368.450	0.5	D6S (1D)2D	87898.120	0.5	4SP(5G)6F
175.5035	-5.480	21711.917	3.5	D6S (3H)4H	78690.846	2.5	4P (1D)2D	176.9139	-4.040	38214.507	1.5	D6S (1D)2D	94739.170	1.5	4SP(5P)4P
175.5070	-3.528	50187.813	3.5	D6S (3F)4F	107165.600	3.5	170DD	176.9249	-4.867	22810.357	3.5	D6S (3F)4F	79331.500	3.5	4SP(5S)6P
175.5360	-4.560	104588.710	1.5	5D (5D)6D	47626.076	0.5	4P (5D)4P	176.9250	-4.943	36126.387	1.5	D6S (3D)2D	92647.510	1.5	4P (3F)4D
175.5841	-4.094	50212.826	2.5	D6S (3P)4P	107165.600	3.5	170DD	176.9275	0.771	109486.150	5.5	4SD(7S)8D	52965.820	4.5	4SP(7S)8P
175.5850	-1.992	26352.766	4.5	D6S (3H)2H	47626.076	0.5	4P (5D)4P	176.9666	0.282	109463.650	4.5	4SD(7S)8D	52965.820	4.5	4SP(7S)8P
175.5851	-7.345	30388.542	4.5	D6S (3G)2G	87340.983	5.5	4SP(5G)6F	176.9681	-1.514	15844.650	4.5	D7 (5D)2G	72352.024	3.5	4P (3D)4F
175.5894	-4.701	102030.912	3.5	D6S (5D)6D	45079.879	2.5	4P (5D)4F	176.9993	-0.418	109463.650	4.5	4SD(7S)8D	52965.820	4.5	4SP(7S)8P
175.6992	-2.508	38164.194	2.5	D6S (1D)2D	95079.640	3.5	4P (3F)2F	177.0345	-3.096	38214.507	1.5	D6S (1D)2D	94700.660	2.5	4P (3F)2D
175.7006	-3.704	99573.225	4.5	5S (3F)4F	42658.224	3.5	4P (5D)6P	177.0745	-3.743	7955.299	3.5	D6S (5D)4D	64425.408	2.5	4P (3F)2F
175.7094	-5.385	20830.582	2.5	D6S (3P)4P	77742.730	2.5	4P (5D)6P	177.0848	-3.743	99688.337	3.5	D6S (3F)4F	44238.586	2.5	4P (3D)6P
175.7743	0.481	109473.650	4.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.1487	-4.124	22810.357	3.5	D6S (3F)4F	79285.110	2.5	4SP(5S)6P
175.8028	-3.445	38164.194	2.5	D6S (1D)2D	95046.100	2.5	4P (3F)2F	177.1716	-4.357	8391.938	2.5	D6S (5D)4D	64834.073	1.5	4P (3P)2P
175.8065	0.400	109463.220	3.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.1726	-4.357	21308.040	1.5	D7 (5D)2D	77742.730	2.5	4P (1D)2F
175.8125	-4.851	21812.055	1.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D	177.2041	-4.711	22409.852	0.5	D6S (3F)4P	78841.960	0.5	4P (1D)2P
175.8180	-3.958	36252.918	2.5	D6S (3D)2D	93129.900	3.5	4P (3F)4D	177.2250	-5.803	21711.917	3.5	D6S (3H)4H	78137.364	3.5	4P (1D)2F
175.8191	-6.189	7955.299	3.5	D6S (5D)4D	64831.943	4.5	4P (3F)2G	177.2298	-3.655	33466.463	4.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
175.8242	-2.218	38164.194	2.5	D6S (1D)2D	95039.200	1.5	4P (3P)2P	177.2513	-0.396	15844.650	4.5	D7 (5D)2G	72261.729	5.5	4P (1G)2H
175.8312	0.025	109455.250	2.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.3220	-3.499	36252.918	2.5	D6S (3D)2D	92647.510	1.5	4P (3F)4D
175.9049	-4.708	50157.452	4.5	D6S (3F)4F	107006.350	4.5	4SP(3I)2H	177.3297	-6.274	22939.358	2.5	D6S (3F)4F	79331.500	3.5	4SP(5S)6P
175.9438	-4.611	22409.852	0.5	D6S (3P)4P	79246.170	1.5	4SP(5S)6P	177.3392	-3.823	33501.253	3.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
175.9518	-4.976	22409.852	0.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P	177.4757	-4.529	22939.358	2.5	D6S (3F)4F	79285.110	2.5	4SP(5S)6P
175.9585	-2.378	38214.507	1.5	D6S (1D)2D	95039.200	1.5	4P (3F)2F	177.5220	-2.587	7955.299	3.5	D6S (5D)4D	64286.345	3.5	4P (3F)2F
175.9773	-2.744	2837.950	2.5	D7 (5D)4F	59663.456	1.5	4P (3F)4S	177.5345	-3.257	36126.387	1.5	D6S (3D)2D	92453.460	0.5	4P (3F)4D
175.9798	-3.079	38214.507	1.5	D6S (1D)2D	95039.200	1.5	4P (3P)2P	177.5984	-4.529	22939.358	2.5	D6S (3F)4F	79246.170	1.5	4SP(5S)6P
175.9897	-4.042	31387.948	2.5	D6S (3D)4D	88209.450	3.5	4SP(5P)6D	177.6065	-4.505	22939.358	2.5	D6S (3F)4F	79243.600	1.5	4P (1D)2P
175.9989	-3.002	50187.813	3.5	D6S (3F)4F	107006.350	4.5	4SP(3I)2H	177.6427	-4.891	47674.721	1.5	D7 (5D)2D	103967.490	0.5	4SP(3P)2S
176.0339	-1.398	15844.650	4.5	D7 (5D)2G	72651.876	3.5	4P (3D)4F	177.6649	-1.664	15844.650	4.5	D7 (5D)2G	72130.390	4.5	4P (1G)2H
176.0377	-1.007	15844.650	4.5	D7 (5D)2G	72650.658	4.5	4P (3D)4F	177.6751	-2.199	16369.360	3.5	D7 (5D)2G	72651.876	3.5	4P (3D)4D
176.1395	-6.953	30764.485	3.5	D6S (3G)2G	87537.652	3.5	4SP(5G)6F	177.6789	-2.566	16369.360	3.5	D7 (5D)2G	72500.658	4.5	4P (3D)4F
176.1406	-4.420	36126.387	1.5	D6S (3D)2D	92899.200	2.5	4P (3F)4D	177.7477	-4.630	100492.020	3.5	5S (3F)2F	44232.512	4.5	4SP(5P)6D
176.2444	-3.233	27620.412	2.5	D6S (3F)2F	84359.800	1.5	4P (1F)2D	177.7657	-6.489	23031.300	1.5	D6S (3F)4F	79285.110	2.5	4SP(5S)6P
176.2721	-3.093	104120.270	2.5	5D (5D)6P	47389.779	1.5	4P (5D)4P	177.7774	-2.753	16369.360	3.5	D7 (5D)2G	72619.490	2.5	4P (3D)4D
176.2977	-1.717	16369.360	3.5	D7 (5D)2G	73091.590	4.5	4P (1G)2G	177.7840	-3.277	27620.412	2.5	D6S (3F)2F	83868.450	2.5	4P (1F)2D
176.3034	-2.197	50142.786	2.5	D6S (3F)4F	106863.200	3.5	160DD	177.7898	-1.561	18360.646	1.5	D7 (5D)2P	74606.841	2.5	4P (3D)2D
176.3117	-5.856	8391.938	2.5	D6S (5D)4D	65109.679	3.5	4P (3F)2G	177.8163	-4.506	31364.440	1.5	D6S (3D)4D	87602.250	1.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
177.8340	-3.210	36126.387	1.5	D6S (3D)2D	179.3884	-5.092	8680.454	1.5	D6S (5D)4D	64425.408	2.5	4P (3F)2F
177.8534	-3.431	33501.253	3.5	D6S (1G)2G	179.4101	-4.359	100492.020	3.5	5S (3F)2F	44753.799	3.5	4P (5D)4F
177.8889	-6.102	23031.300	1.5	D6S (3F)4F	179.4410	-1.618	103118.400	1.5	6S (5D)4D	47389.779	1.5	4P (5D)4F
177.8907	-4.572	31387.948	2.5	D6S (3D)4D	179.4744	-3.650	30764.485	3.5	D6S (3G)2G	86482.750	3.5	4P (1F)2F
177.8970	-5.093	23031.300	1.5	D6S (3F)4F	179.5098	-3.432	100492.020	3.5	5S (3F)2F	44784.761	2.5	4P (5D)4D
177.9095	-4.896	98445.400	4.5	5S (3H)4H	179.5150	-3.803	100749.810	2.5	5S (3F)2F	45044.168	1.5	4P (5D)4D
177.9249	-3.791	36126.387	1.5	D6S (3D)2D	179.5478	-4.183	8391.938	2.5	D6S (5D)4D	64087.418	2.5	4P (3F)4G
177.9851	-4.142	31387.948	2.5	D6S (3D)4D	179.5821	-4.310	27620.412	2.5	D6S (3F)2F	83305.251	3.5	4P (1F)2G
178.0006	-4.784	98294.401	5.5	5S (3H)4H	179.6101	-4.614	38164.194	2.5	D6S (1D)2D	93840.340	1.5	4SP(5D)6D
178.0117	-3.963	13474.411	2.5	D7 (5D)4P	179.6637	-2.392	23031.300	1.5	D6S (3F)4F	78690.846	2.5	4P (1D)2D
178.0463	-4.436	30764.485	3.5	D6S (3G)2G	179.6642	-2.297	47674.721	1.5	D7 (5D)2D	103334.100	2.5	4SP(3D)2F
178.0561	-4.963	98130.131	6.5	5S (3H)4H	179.6979	-2.654	8391.938	2.5	D6S (5D)4D	64040.886	3.5	4P (3F)4G
178.0829	-3.896	8680.454	1.5	D6S (5D)4D	179.7280	-1.733	103265.694	0.5	6S (5D)4D	47626.076	0.5	4P (5D)4P
178.0914	-2.531	103118.400	1.5	6S (5D)4D	179.7627	-5.876	13673.185	1.5	D7 (5D)4P	69302.090	1.5	4SP(5S)4P
178.0953	-4.343	31387.948	2.5	D6S (3D)4D	179.7657	-5.004	13474.411	2.5	D7 (5D)4P	69102.380	2.5	4SP(5S)4P
178.1343	-1.354	18360.646	1.5	D7 (5D)2P	179.8157	-0.399	20516.960	2.5	D7 (5D)2D	76129.446	1.5	4P (1S)2P
178.1511	-3.031	13474.411	2.5	D7 (5D)4P	179.8196	-1.429	18886.780	0.5	D7 (5D)2P	74498.057	1.5	4P (3D)2D
178.1704	-3.844	7955.299	3.5	D6S (5D)4D	179.8712	-5.393	16369.360	3.5	D7 (5D)2G	71964.710	2.5	4P (3D)4P
178.2715	-2.750	30388.542	4.5	D6S (3G)2G	180.0251	-4.408	22939.358	2.5	D6S (3F)4F	46967.444	2.5	4P (5D)4P
178.2851	-2.124	36126.387	1.5	D6S (3D)2D	180.0449	-2.503	31387.948	2.5	D6S (3D)4D	86929.649	3.5	4P (3F)4D
178.2873	-4.749	31483.176	3.5	D6S (3D)4D	180.1083	-5.323	13904.824	0.5	D7 (5D)4P	78487.153	1.5	4P (1D)2D
178.3253	-4.622	22409.852	0.5	D6S (3P)4P	180.1660	-2.567	54275.637	2.5	D5S2(7S)4G	109780.000	1.5	280DD
178.3263	-3.303	36252.918	2.5	D6S (3D)4D	180.1797	-3.838	22637.205	4.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F
178.3979	-4.167	31483.176	3.5	D6S (3D)4D	180.2051	-1.777	103118.400	1.5	6S (5D)4D	47626.076	0.5	4P (5D)4P
178.4276	-4.058	100492.020	3.5	5S (3F)2F	180.2279	-4.541	44915.046	3.5	D6S (1F)2F	100400.360	2.5	4SP(3F)2D
178.4648	-3.067	8391.938	2.5	D6S (5D)4D	180.3101	-3.634	100749.810	2.5	5S (3F)2F	45289.801	1.5	4P (5D)4F
178.4732	-3.790	21711.917	3.5	D6S (3H)4H	180.3236	-5.701	29638.330	1.5	D6S (3F)4F	78487.153	1.5	4P (1D)2D
178.5038	-4.228	36252.918	2.5	D6S (3D)2D	180.3541	-1.633	31483.176	3.5	D6S (3D)4D	86929.649	3.5	4P (3F)4D
178.5272	0.743	23317.633	2.5	D5S2(7S)6S	180.4103	-4.878	13673.185	1.5	D7 (5D)4P	69102.380	2.5	4SP(5S)4P
178.5616	-3.914	30764.485	3.5	D6S (3G)2G	180.4166	-1.160	102394.718	3.5	6S (5D)4D	46967.444	2.5	4P (5D)4P
178.5922	-2.593	7955.299	3.5	D6S (5D)4D	180.4397	-4.661	37227.326	0.5	D6S (1S)2S	92647.510	1.5	4P (3F)4D
178.6023	-5.875	27314.922	3.5	D6S (3F)2F	180.4646	-1.404	100820.312	2.5	6S (5D)4D	47389.779	1.5	4P (5D)4F
178.6078	-4.065	31483.176	3.5	D6S (3D)4D	180.4659	-4.124	100492.020	3.5	5S (3F)2F	45079.879	2.5	4P (5D)4F
178.6119	-4.618	8846.768	0.5	D6S (5D)4D	180.4827	-3.028	8680.454	1.5	D6S (5D)4D	64087.418	2.5	4P (3F)4G
178.6267	-1.767	16369.360	3.5	D7 (5D)2G	180.4952	-2.363	31364.440	1.5	D6S (3D)4D	86767.577	2.5	4P (3D)2F
178.6438	-4.027	13673.185	1.5	D7 (5D)4P	180.5111	-3.511	20516.960	2.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F
178.6588	-4.703	36252.918	2.5	D6S (3D)2D	180.5143	-4.902	13904.824	0.5	D7 (5D)4P	69302.090	1.5	4SP(5S)4P
178.6752	0.619	23317.633	2.5	D5S2(7S)6S	180.5718	-1.918	31387.948	2.5	D6S (3D)4D	86767.577	2.5	4P (3F)4D
178.6829	-4.336	100749.810	2.5	5S (3F)2F	180.5798	-4.631	99824.045	2.5	5S (3F)4F	44446.878	3.5	4P (5D)4D
178.7000	-4.437	8846.768	0.5	D6S (5D)4D	180.5927	-3.555	23317.633	2.5	D5S2(7S)6S	78690.846	2.5	4P (1D)2D
178.7928	-5.097	21812.055	1.5	D6S (3P)4P	180.6141	-2.800	102334.112	2.5	6S (5D)6D	46967.444	2.5	4P (5D)4F
178.7996	0.444	23317.633	2.5	D5S2(7S)6S	180.6988	-2.501	99573.225	4.5	5S (3F)4F	44232.512	4.5	4P (5D)4F
178.8078	-4.570	23317.633	2.5	D5S2(7S)6S	180.7436	-5.632	22810.357	3.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F
178.8619	-4.983	38164.194	2.5	D6S (1D)2D	180.7552	-4.423	38164.194	2.5	D6S (1D)2D	93487.650	3.5	4P (3F)4F
178.9088	-4.084	8391.938	2.5	D6S (5D)4D	180.7740	-4.224	7955.299	3.5	D6S (5D)4D	63272.976	2.5	4P (3F)4D
178.9333	-3.766	22810.357	3.5	D6S (3F)4F	180.8355	-2.742	20830.582	2.5	D6S (3F)4F	76129.446	1.5	4P (1S)2P
178.9680	-2.373	103265.694	0.5	6S (5D)4D	180.8481	-2.742	48039.090	2.5	D7 (5D)2D	103334.100	2.5	4SP(3D)2F
178.9896	-2.199	102802.312	2.5	6S (5D)4D	180.8828	-2.320	31483.176	3.5	D6S (3D)4D	86767.577	2.5	4P (3F)4D
179.0996	-1.676	102802.312	2.5	6S (5D)4D	180.9318	-0.581	21308.040	1.5	D7 (5D)2D	76577.482	0.5	4P (1S)2P
179.1226	-4.457	13474.411	2.5	D7 (5D)4P	181.0235	-3.045	99698.337	3.5	5S (3F)2F	44446.878	3.5	4P (5D)4D
179.1772	-5.996	23031.300	1.5	D6S (3F)4F	181.0572	-4.390	38164.194	2.5	D6S (1D)2D	93395.360	2.5	4P (3F)4F
179.2661	-2.965	30764.485	3.5	D6S (3G)2G	181.1660	-6.175	22939.358	2.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F
179.2961	-4.249	38214.507	1.5	D6S (1D)2D	181.2151	-2.892	31364.440	1.5	D6S (3D)4D	86547.490	2.5	4P (1F)2F
179.3367	-0.497	16369.360	3.5	D7 (5D)2G	181.2266	-2.211	31364.440	1.5	D6S (3D)4D	86543.974	1.5	4P (3F)4D
179.3600	-4.642	13673.185	1.5	D7 (5D)4P	181.2398	-2.372	31368.450	0.5	D6S (3D)4D	86543.974	1.5	4P (3F)4D
179.3674	-4.807	22939.358	2.5	D6S (3F)4F	181.2595	-6.713	23317.633	2.5	D5S2(7S)6S	78487.153	1.5	4P (1D)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
181.2923	-3.168	31387.948	2.5	D6S (3D)4D	86547.490	2.5	4P (1F)2F	182.5488	-2.009	99824.045	2.5	5S (3F)4F	45044.168	1.5	4P (5D)4D
181.3039	-2.185	31387.948	2.5	D6S (3D)4D	86543.974	1.5	4P (3F)4D	182.5671	-3.078	47674.721	1.5	D7 (5D)2D	102449.100	2.5	48P (3D)2F
181.3109	-2.044	102543.648	1.5	6S (5D)6D	47389.779	1.5	4P (5D)4D	182.5805	-3.281	20830.582	3.5	D6S (3F)4P	75600.931	3.5	4P (3D)2F
181.3414	-2.044	48039.090	2.5	D7 (5D)2D	103183.700	3.5	48P (3D)2F	182.5866	-2.733	31999.048	3.5	D7 (5D)2F	86767.577	2.5	4P (3F)4D
181.3769	-4.169	99918.569	1.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	182.5970	-5.303	21812.055	1.5	D6S (3F)4P	76577.482	0.5	4P (1S)2P
181.4015	-1.835	99573.225	4.5	5S (3F)4F	44446.878	3.5	4P (3F)4D	182.6484	-3.830	50187.813	3.5	D6S (3F)4F	104937.800	4.5	48P (3I)4H
181.4295	-3.012	31811.822	2.5	D7 (5D)2F	86929.649	3.5	4P (3P)4D	182.6678	-2.480	99824.045	2.5	5S (3F)4F	45079.879	2.5	4P (5D)4F
181.4422	-4.078	38214.507	1.5	D6S (1D)2D	93328.480	1.5	4P (3F)4F	182.6879	-1.810	44915.046	3.5	D6S (1F)2F	99653.220	4.5	48P (3G)2G
181.4896	-2.841	99332.102	4.5	5S (3H)2H	44232.512	4.5	4P (5D)4F	182.6962	-0.701	31811.822	2.5	D7 (5D)2F	86547.490	2.5	4P (1F)2F
181.5053	-2.958	31387.948	2.5	D6S (3D)4D	86482.750	3.5	4P (1F)2F	182.6999	-2.257	7955.299	3.5	D6S (5D)4D	62689.880	2.5	4P (3F)4D
181.5296	-4.676	37227.326	0.5	D6S (1S)2S	92314.758	0.5	5P (5D)4F	182.7080	-4.476	31811.822	2.5	D7 (5D)2F	86543.974	1.5	4P (3F)4D
181.5388	-5.407	20830.582	2.5	D6S (3P)4P	75915.215	2.5	4P (3D)2F	182.7470	-1.781	44915.046	3.5	D6S (1F)2F	99635.520	3.5	48P (3G)2G
181.5610	-1.115	20516.960	2.5	D7 (5D)2D	75600.931	3.5	4P (3D)2F	182.7601	-3.735	54063.459	0.5	D6S (3F)2P	108780.000	1.5	270DD
181.5766	-2.009	8391.938	2.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D	182.7729	-2.037	8846.768	0.5	D6S (5D)4D	63559.488	0.5	4P (3F)4D
181.5863	-3.318	99824.045	2.5	5S (3F)4F	44753.799	3.5	4P (5D)4F	182.7749	-2.208	99918.569	1.5	5S (3F)4F	45206.450	0.5	4P (5D)4D
181.6058	-3.305	31483.176	3.5	D6S (3D)4D	86547.490	2.5	4P (1F)2F	182.7772	-5.321	23031.300	1.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F
181.6086	-1.883	102030.912	3.5	6S (5D)6D	46967.444	2.5	4P (5D)4P	182.7954	-3.346	44929.550	2.5	D6S (1F)2F	99635.520	3.5	48P (3G)2G
181.6840	-3.742	102666.694	0.5	6S (5D)6D	47626.076	0.5	4P (5D)4P	182.8346	-2.002	18360.646	1.5	D7 (5D)2P	73054.881	2.5	4P (1G)2F
181.6876	-1.680	54232.195	5.5	D5S2(7S)4G	109271.710	5.5	48P (3I)2I	182.8665	-4.952	38214.507	1.5	D6S (1D)2D	92899.200	2.5	4P (3F)4D
181.6884	-2.752	99824.045	2.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	182.8854	-2.010	15844.650	4.5	D7 (5D)2G	70523.706	3.5	4P (3G)2G
181.7376	-2.327	31364.440	1.5	D6S (3D)4D	86388.820	0.5	4P (3F)4D	182.9126	-2.049	31811.822	2.5	D7 (5D)2F	86482.750	3.5	4P (1F)2F
181.7509	-2.370	31368.450	0.5	D6S (3D)4D	86388.820	0.5	4P (3P)4D	182.9513	-3.737	50157.452	4.5	D6S (3F)4F	104816.800	5.5	48P (3I)4H
181.8196	-3.007	31483.176	3.5	D6S (3D)4D	86482.750	3.5	4P (1F)2F	183.0262	0.418	107219.500	4.5	482(7F)8P	52582.510	3.5	48P (7S)8P
181.8241	-3.923	37227.326	0.5	D6S (1S)2S	92225.538	1.5	5P (5D)4F	183.0659	-1.365	54232.195	5.5	D5S2(7S)4G	108868.980	4.5	48P (3G)4H
181.8246	-0.472	54273.641	4.5	D5S2(7S)4G	62945.038	3.5	4P (3F)4D	183.0936	-1.390	183.0462	0.202	54273.641	4.5	D5S2(7S)4G	
181.8521	-1.493	7955.299	3.5	D6S (5D)4D	109271.710	5.5	48P (3I)2I	183.0962	0.202	183.0462	0.202	54273.641	4.5	D5S2(7S)4G	
181.8521	-1.493	7955.299	3.5	D6S (5D)4D	109271.710	5.5	48P (3I)2I	183.0962	0.202	183.0462	0.202	54273.641	4.5	D5S2(7S)4G	
181.9316	-4.106	38164.194	2.5	D6S (1D)2D	93129.900	3.5	4P (3F)4D	183.0717	-0.201	8846.768	0.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D
181.9646	-1.564	31811.822	2.5	D7 (5D)2F	86767.577	2.5	4P (3F)4D	183.0887	-1.987	99688.337	3.5	5S (3F)4F	45079.879	2.5	4P (3D)4F
182.0024	-2.459	102334.112	2.5	6S (5D)6D	47389.779	1.5	4P (5D)4P	183.1218	-3.428	99688.337	3.5	5S (3F)4F	45079.879	2.5	4P (3D)4F
182.0348	-2.351	99688.337	3.5	5S (3F)4F	44753.799	3.5	4P (5D)4F	183.1261	-1.045	21308.040	1.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F
182.0420	-5.498	22810.337	3.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F	183.1658	0.018	54273.641	4.5	D5S2(7S)4G	108868.980	4.5	48P (3G)4H
182.0479	-1.565	31999.048	3.5	D7 (5D)2F	86929.649	3.5	4P (3P)4D	183.1753	-1.873	8680.454	1.5	D6S (5D)4D	63272.976	2.5	4P (3F)4D
182.0911	-3.182	102543.648	1.5	6S (5D)6D	47626.076	0.5	4P (5D)4P	183.1980	0.201	183.1980	0.201	8680.454	1.5	D6S (5D)4D	
182.0914	-0.226	54232.195	5.5	D5S2(7S)4G	109149.680	6.5	48P (3I)2I	183.2230	-3.331	183.2230	-3.331	99332.102	4.5	5S (3H)2H	
182.1179	-3.854	54870.528	2.5	D6S (3F)2F	109780.000	1.5	280DD	183.2270	0.010	183.2270	0.010	86929.649	3.5	D7 (5D)2F	
182.1375	-1.847	99688.337	3.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	183.3076	-1.931	8391.938	2.5	D6S (5D)4D	62945.038	3.5	4P (3F)4D
182.1714	-2.021	44915.046	3.5	D6S (1F)2F	99808.400	3.5	4P (1G)2G	183.3233	-1.931	31999.048	3.5	D7 (5D)2F	86547.490	2.5	4P (1F)2F
182.1964	-4.148	50142.786	2.5	D6S (3F)4F	105028.600	3.5	48P (3I)4H	183.3536	-4.716	49506.934	1.5	D6S (3F)4P	104046.350	2.5	4F(5D)0(3I)
182.1984	-2.246	99332.102	4.5	5S (3H)2H	44446.878	3.5	4P (5D)4D	183.3662	0.252	106836.000	3.5	482(7F)8P	52299.390	2.5	48P (7S)8P
182.2123	-1.749	8391.938	2.5	D6S (5D)4D	63272.976	2.5	4P (3F)4D	183.3710	-4.306	99824.045	2.5	5S (3F)4F	45289.801	1.5	4P (5D)4F
182.2190	-2.060	8680.454	1.5	D6S (5D)4D	63559.488	0.5	4P (3F)4D	183.3710	-4.306	99824.045	2.5	5S (3F)4F	45289.801	1.5	4P (5D)4F
182.2196	-2.088	44929.550	2.5	D6S (1F)2F	99808.400	3.5	4P (1G)2G	183.3813	-1.875	38164.194	2.5	D6S (1D)2D	92647.510	1.5	4P (3F)2D
182.2234	-3.333	54902.315	1.5	D6S (3F)2P	109780.000	1.5	280DD	183.4259	-3.938	57411.065	2.5	D5S2(7S)4P	111929.000	2.5	290DD
182.2343	-2.755	99918.569	1.5	5S (3F)4F	45044.168	1.5	4P (5D)4D	183.4716	-1.299	54273.641	4.5	D5S2(7S)4G	108780.000	1.5	270DD
182.2605	-4.380	49100.976	0.5	D6S (3P)4P	103967.490	0.5	48P (3P)2S	183.4965	0.448	183.4965	0.448	36126.387	1.5	D6S (3D)2D	
182.2790	-3.651	99093.452	5.5	5S (3H)2H	44232.512	4.5	4P (5D)4F	183.5424	-3.937	38164.194	2.5	D6S (1D)2D	92647.510	1.5	4P (3F)2D
182.3418	-2.224	44915.046	3.5	D6S (1F)2F	99571.720	4.5	4P (1G)2G	183.5507	-3.468	38214.507	1.5	D6S (1D)2D	92647.510	1.5	4P (3F)2D
182.3530	-4.510	50187.813	3.5	D6S (3F)4F	105028.600	3.5	48P (3I)4H	183.6051	-3.515	48039.090	2.5	D7 (5D)2D	102503.810	1.5	48P (3D)2D
182.3560	-3.415	99918.569	1.5	5S (3F)4F	45079.879	2.5	4P (5D)4D	183.6935	-3.368	38164.194	2.5	D6S (1D)2D	92647.510	1.5	4P (3F)2D
182.3849	-2.512	47674.721	1.5	D7 (5D)2D	102503.810	1.5	48P (3D)2D	183.7030	-3.607	183.7030	-3.607	57493.321	1.5	D5S2(7S)4P	
182.3870	-1.339	18360.646	1.5	D7 (5D)2P	73189.110	1.5	4P (3D)2P	183.7388	-7.788	183.7388	-7.788	23317.633	2.5	D5S2(7S)6S	
182.3931	-1.608	18360.646	1.5	D7 (5D)2P	73187.280	0.5	4P (3D)2P	183.7897	-2.172	48039.090	2.5	D7 (5D)2D	102449.100	2.5	48P (3D)2D
182.4105	-1.799	21308.040	1.5	D7 (5D)2D	76129.446	1.5	4P (1S)2P								
182.4161	-5.367	23317.633	2.5	D5S2(7S)6S	78137.364	3.5	4P (1D)2F								
182.4171	-3.274	99573.225	4.5	5S (3F)4F	44753.799	3.5	4P (5D)4F								
182.4705	-5.390	22939.358	2.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F								
182.4979	-2.200	20805.770	4.5	D7 (5D)2H	75600.931	3.5	4P (3D)2F								
182.5329	-1.956	8680.454	1.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
183.9013	-3.525	36252.918	2.5	D6S (3D)2D	90629.902	1.5	4P (3F)4S	185.1790	-2.240	38214.507	1.5	D6S (1D)2D	92216.320	1.5	4P (3F)2D	92216.320	1.5	4P (3F)2D	183.9013	-3.525	36252.918	2.5	D6S (3D)2D	90629.902	1.5	4P (3F)4S	185.1790	-2.240	38214.507	1.5	D6S (1D)2D
183.9347	-3.768	7955.299	3.5	D6S (5D)4D	62322.431	3.5	4P (3H)2G	185.1903	-4.343	98445.400	4.5	5S (3H)4H	44446.878	3.5	4P (5D)4D	44446.878	3.5	4P (5D)4D	183.9347	-3.768	7955.299	3.5	D6S (5D)4D	62322.431	3.5	4P (3H)2G	185.1903	-4.343	98445.400	4.5	5S (3H)4H
183.9674	-0.999	54273.641	4.5	D5S2(7S)4G	108631.090	3.5	4SP(3G)4G	185.2412	-1.196	44915.046	3.5	D6S (1F)2F	98898.710	3.5	4P (1G)2F	98898.710	3.5	4P (1G)2F	183.9674	-0.999	54273.641	4.5	D5S2(7S)4G	108631.090	3.5	4SP(3G)4G	185.2412	-1.196	44915.046	3.5	D6S (1F)2F
183.9742	-0.387	54275.637	2.5	D5S2(7S)4G	108631.090	3.5	4SP(3G)4G	185.2459	-2.414	8846.768	0.5	D6S (5D)4D	62829.075	0.5	4P (3F)4D	62829.075	0.5	4P (3F)4D	183.9742	-0.387	54275.637	2.5	D5S2(7S)4G	108631.090	3.5	4SP(3G)4G	185.2459	-2.414	8846.768	0.5	D6S (5D)4D
183.9804	0.180	54275.637	2.5	D5S2(7S)4G	108629.250	2.5	4SP(3G)4G	185.2510	-1.794	44929.550	2.5	D6S (1F)2F	74498.057	1.5	4P (3D)2D	74498.057	1.5	4P (3D)2D	183.9804	0.180	54275.637	2.5	D5S2(7S)4G	108629.250	2.5	4SP(3G)4G	185.2510	-1.794	44929.550	2.5	D6S (1F)2F
183.9999	0.143	54283.220	3.5	D5S2(7S)4G	108629.250	2.5	4SP(3G)4G	185.3034	-0.995	54273.641	4.5	D5S2(7S)4G	108239.200	3.5	4P (1G)2F	108239.200	3.5	4P (1G)2F	183.9999	0.143	54283.220	3.5	D5S2(7S)4G	108629.250	2.5	4SP(3G)4G	185.3034	-0.995	54273.641	4.5	D5S2(7S)4G
184.0061	-0.855	54232.195	5.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.3061	-3.254	54904.222	3.5	D6S (3F)2F	108868.980	4.5	4SP(3G)4H	108868.980	4.5	4SP(3G)4H	184.0061	-0.855	54232.195	5.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.3061	-3.254	54904.222	3.5	D6S (3F)2F
184.0320	-1.308	21812.055	1.5	D6S (3F)2P	76129.446	1.5	4P (1S)2P	185.3102	-4.268	54275.637	2.5	D5S2(7S)4G	108239.200	3.5	240DD	108239.200	3.5	240DD	184.0320	-1.308	21812.055	1.5	D6S (3F)2P	76129.446	1.5	4P (1S)2P	185.3102	-4.268	54275.637	2.5	D5S2(7S)4G
184.1031	-3.112	54063.459	0.5	D6S (3P)2P	108371.700	1.5	250DD	185.3363	-2.381	54283.220	3.5	D5S2(7S)4G	108239.200	3.5	240DD	108239.200	3.5	240DD	184.1031	-3.112	54063.459	0.5	D6S (3P)2P	108371.700	1.5	250DD	185.3363	-2.381	54283.220	3.5	D5S2(7S)4G
184.1341	-3.112	18886.780	0.5	D7 (5D)2P	73189.110	1.5	4P (3D)2P	185.3732	-2.149	16369.360	3.5	D7 (5D)2G	70314.604	3.5	4P (3G)2G	70314.604	3.5	4P (3G)2G	184.1341	-3.112	18886.780	0.5	D7 (5D)2P	73189.110	1.5	4P (3D)2P	185.3732	-2.149	16369.360	3.5	D7 (5D)2G
184.1604	-1.476	18886.780	0.5	D7 (5D)2P	73187.280	0.5	4P (3D)2P	185.4329	-2.709	8391.938	2.5	D6S (5D)4D	62322.431	3.5	4P (3H)2G	62322.431	3.5	4P (3H)2G	184.1604	-1.476	18886.780	0.5	D7 (5D)2P	73187.280	0.5	4P (3D)2P	185.4329	-2.709	8391.938	2.5	D6S (5D)4D
184.1690	-1.776	8391.938	2.5	D6S (5D)4D	62689.880	2.5	4P (3F)4D	185.4738	-3.257	54275.637	2.5	D5S2(7S)4G	108191.600	1.5	230DD	108191.600	1.5	230DD	184.1690	-1.776	8391.938	2.5	D6S (5D)4D	62689.880	2.5	4P (3F)4D	185.4738	-3.257	54275.637	2.5	D5S2(7S)4G
184.1725	-0.109	54273.641	4.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.4962	-3.641	54870.528	2.5	D6S (3F)2P	108780.000	1.5	270DD	108780.000	1.5	270DD	184.1725	-0.109	54273.641	4.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.4962	-3.641	54870.528	2.5	D6S (3F)2P
184.2050	-0.117	54283.220	3.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.5316	-4.670	47674.721	1.5	D7 (5D)2F	101573.900	1.5	4SP(5D)4P	101573.900	1.5	4SP(5D)4P	184.2050	-0.117	54283.220	3.5	D5S2(7S)4G	108570.560	4.5	4SP(3G)4G	185.5316	-4.670	47674.721	1.5	D7 (5D)2F
184.2240	-2.223	8680.454	1.5	D6S (5D)4D	62962.205	1.5	4P (3F)4D	185.6050	-3.805	18360.646	1.5	D7 (5D)2P	72238.513	2.5	4P (3D)2F	72238.513	2.5	4P (3D)2F	184.2240	-2.223	8680.454	1.5	D6S (5D)4D	62962.205	1.5	4P (3F)4D	185.6050	-3.805	18360.646	1.5	D7 (5D)2P
184.3018	-3.237	18360.646	1.5	D7 (5D)2P	72619.490	2.5	4P (3D)4D	185.6356	-3.820	54902.315	1.5	D6S (3P)2P	108780.000	1.5	270DD	108780.000	1.5	270DD	184.3018	-3.237	18360.646	1.5	D7 (5D)2P	72619.490	2.5	4P (3D)4D	185.6356	-3.820	54902.315	1.5	D6S (3P)2P
184.3193	-0.611	107219.500	4.5	4P2(7P)8P	52965.820	4.5	4SP(7S)8P	185.6921	-3.822	8391.938	2.5	D6S (5D)4D	62244.520	1.5	4P (3F)4F	62244.520	1.5	4P (3F)4F	184.3193	-0.611	107219.500	4.5	4P2(7P)8P	52965.820	4.5	4SP(7S)8P	185.6921	-3.822	8391.938	2.5	D6S (5D)4D
184.3199	-0.767	106836.000	3.5	4P2(7P)8P	52582.510	3.5	4SP(7S)8P	185.6839	-2.520	54275.637	2.5	D5S2(7S)4G	108130.600	2.5	220DD	108130.600	2.5	220DD	184.3199	-0.767	106836.000	3.5	4P2(7P)8P	52582.510	3.5	4SP(7S)8P	185.6839	-2.520	54275.637	2.5	D5S2(7S)4G
184.3261	0.148	54232.195	5.5	D5S2(7S)4G	108483.870	5.5	4SP(3G)4G	185.6930	-3.130	18360.646	1.5	D7 (5D)2P	72212.978	0.5	4P (3F)4F	72212.978	0.5	4P (3F)4F	184.3261	0.148	54232.195	5.5	D5S2(7S)4G	108483.870	5.5	4SP(3G)4G	185.6930	-3.130	18360.646	1.5	D7 (5D)2P
184.3693	-4.619	38214.507	1.5	D6S (1D)2D	92453.460	0.5	4P (3F)4D	185.7101	-1.078	54283.220	3.5	D5S2(7S)4G	108130.600	2.5	220DD	108130.600	2.5	220DD	184.3693	-4.619	38214.507	1.5	D6S (1D)2D	92453.460	0.5	4P (3F)4D	185.7101	-1.078	54283.220	3.5	D5S2(7S)4G
184.4463	-4.323	7955.299	3.5	D6S (5D)4D	62171.615	3.5	4SP(7S)6P	185.7798	-4.705	49506.934	1.5	D6S (3P)4P	103334.100	2.5	4SP(3D)2F	103334.100	2.5	4SP(3D)2F	184.4463	-4.323	7955.299	3.5	D6S (5D)4D	62171.615	3.5	4SP(7S)6P	185.7798	-4.705	49506.934	1.5	D6S (3P)4P
184.4580	-4.114	98445.400	4.5	5S (3H)4H	44232.512	4.5	4P (5D)4F	185.8214	-4.191	98568.912	3.5	5S (3H)4H	104773.799	3.5	4P (5D)4F	104773.799	3.5	4P (5D)4F	184.4580	-4.114	98445.400	4.5	5S (3H)4H	44232.512	4.5	4P (5D)4F	185.8214	-4.191	98568.912	3.5	5S (3H)4H
184.4670	-0.093	54273.641	4.5	D5S2(7S)4G	108483.870	5.5	4SP(3G)4G	185.8448	-5.407	18360.646	1.5	D7 (5D)2P	72168.998	1.5	4P (3D)4F	72168.998	1.5	4P (3D)4F	184.4670	-0.093	54273.641	4.5	D5S2(7S)4G	108483.870	5.5	4SP(3G)4G	185.8448	-5.407	18360.646	1.5	D7 (5D)2P
184.4902	-3.955	21711.917	3.5	D6S (3H)4H	62158.110	4.5	4P (3F)4F	185.9284	-4.512	13474.411	2.5	D7 (5D)4F	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	184.4902	-3.955	21711.917	3.5	D6S (3H)4H	62158.110	4.5	4P (3F)4F	185.9284	-4.512	13474.411	2.5	D7 (5D)4F
184.5146	-3.180	7955.299	3.5	D6S (5D)4D	62151.561	2.5	4P (3F)4F	185.8448	-5.407	18360.646	1.5	D7 (5D)2P	72168.998	1.5	4P (3D)4F	72168.998	1.5	4P (3D)4F	184.5146	-3.180	7955.299	3.5	D6S (5D)4D	62151.561	2.5	4P (3F)4F	185.8448	-5.407	18360.646	1.5	D7 (5D)2P
184.5209	-3.911	38164.194	2.5	D6S (1D)2D	92358.610	1.5	4SP(5G)4F	185.8756	-4.465	13474.411	2.5	D7 (5D)4F	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	184.5209	-3.911	38164.194	2.5	D6S (1D)2D	92358.610	1.5	4SP(5G)4F	185.8756	-4.465	13474.411	2.5	D7 (5D)4F
184.6121	-4.195	22409.852	0.5	D6S (3P)4P	76577.482	0.5	4P (1S)2P	185.9746	-1.277	7955.299	3.5	4P (3G)2G	61726.077	3.5	4P (3G)2F	61726.077	3.5	4P (3G)2F	184.6121	-4.195	22409.852	0.5	D6S (3P)4P	76577.482	0.5	4P (1S)2P	185.9746	-1.277	7955.299	3.5	4P (3G)2G
184.6247	-3.005	18360.646	1.5	D7 (5D)2P	72524.566	1.5	4P (3D)4D	185.9557	-2.807	20830.589	3.5	D6S (3P)4P	74606.841	2.5	4P (3F)4F	74606.841	2.5	4P (3F)4F	184.6247	-3.005	18360.646	1.5	D7 (5D)2P	72524.566	1.5	4P (3D)4D	185.9557	-2.807	20830.589	3.5	D6S (3P)4P
184.6574	-0.829	16369.360	3.5	D7 (5D)2G	70523.706	3.5	4P (3G)2G	186.0053	-0.413	15844.650	4.5	D7 (5D)2G	69606.552	3.5	4P (3G)2F	69606.552	3.5	4P (3G)2F	184.6574	-0.829	16369.360	3.5	D7 (5D)2G	70523.706	3.5	4P (3G)2G	186.0053	-0.413	15844.650	4.5	D7 (5D)2G
184.6769	-2.433	8680.454	1.5	D6S (1D)2D	62829.075	0.5	4P (3F)4D	186.0100	-3.608	54870.528	2.5	D6S (3F)2F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G	184.6769	-2.433	8680.454	1.5	D6S (1D)2D	62829.075	0.5	4P (3F)4D	186.0100	-3.608	54870.528	2.5	D6S (3F)2F
184.6923	-2.963	38214.507	1.5	D6S (1D)2D	92358.610	1.5	4SP(5G)4F	186.0132	-2.391	8391.938	2.5	D6S (5D)4D	62151.561	2.5	4P (3F)4F	62151.561	2.5	4P (3F)4F	184.6923	-2.963	38214.507	1.5	D6S (1D)2D	92358.610	1.5	4SP(5G)4F	186.0132	-2.391	8391.938	2.5	D6S (5D)4D
184.7479	-2.824	7955.299	3.5	D6S (5D)4D	62083.108	4.5	4SP(5G)4F	186.0163	-3.410	54870.528	2.5	D6S (3F)2F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G	184.7479	-2.824	7955.299	3.5	D6S (5D)4D	62083.108	4.5	4SP(5G)4F	186.0163	-3.410	54870.528	2.5	D6S (3F)2F
184.7805	-3.368																														

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
186.5554	-2.488	54283.220	3.5	D582(78)4G	107886.600	3.5	200DD	188.0026	-7.366	26055.423	2.5	D6S (3G)4G	79246.170	1.5	4SP(5S)6P		
186.5649	-3.671	13673.185	1.5	D7 (5D)4P	67273.826	1.5	4P (3F)2D	188.0050	-5.251	22939.358	2.5	D6S (3F)4F	76129.446	1.5	4P (1S)2P		
186.6018	-4.341	44915.046	3.5	D6S (1F)2F	98505.100	2.5	4SP(7S)6P	188.0052	-1.130	21308.040	1.5	D7 (5D)2D	74498.057	1.5	4P (3D)2D		
186.6264	-3.449	8391.938	2.5	D6S (5D)4D	61974.933	1.5	4SP(7S)6P	188.0117	-4.281	26055.423	2.5	D6S (3G)4G	79243.600	1.5	4P (1D)2P		
186.6523	-3.502	44929.550	2.5	D6S (1F)2F	98505.100	2.5	4SP(5D)4D	188.0972	-0.394	20805.770	4.5	D7 (5D)2H	73969.767	5.5	4P (11)2I		
186.6923	-3.072	8680.454	1.5	D6S (5D)4D	62244.520	1.5	4P (3F)4F	188.1246	-3.120	18886.780	0.5	D7 (5D)2P	72043.026	1.5	4P (3C)4P		
186.7158	-4.759	7955.299	3.5	D6S (5D)4D	61512.634	4.5	4P (3H)4I	188.1884	-5.043	13474.411	2.5	D7 (5D)4P	66612.656	1.5	4P (3C)4F		
186.7547	-4.969	76577.482	0.5	4P (1S)2P	76577.482	0.5	4P (1S)2P	188.1888	-3.146	7955.299	3.5	D6S (5D)4D	61093.413	2.5	4P (3P)2D		
186.7660	-3.008	18886.780	0.5	D7 (5D)2P	72429.711	0.5	4P (3D)4D	188.2241	-5.176	8846.768	0.5	D6S (5D)4D	61974.933	1.5	4SP(7S)6P		
186.7943	-4.911	48039.020	2.5	D7 (5D)2D	101573.900	1.5	4SP(5D)4F	188.3002	-3.101	30764.485	3.5	D6S (3G)2G	83871.184	4.5	4P (1F)2G		
186.8245	-5.594	25805.328	4.5	D6S (3G)4G	79331.500	3.5	4SP(5S)6P	188.3067	-5.841	22810.357	3.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F		
186.8247	-3.274	13474.411	2.5	D7 (5D)4P	67000.517	2.5	4P (3F)2D	188.3099	-3.928	30764.485	3.5	D6S (3G)2G	83868.450	2.5	4P (1F)2D		
186.9045	-2.917	54870.528	2.5	D6S (3F)2F	108373.800	3.5	260DD	188.3305	-6.219	23031.200	1.5	D6S (3F)4F	76129.446	1.5	4P (1S)2P		
186.9118	-2.830	54870.528	2.5	D6S (3F)2F	108371.700	1.5	250DD	188.3720	-4.154	7955.299	3.5	D6S (5D)4D	61041.748	2.5	4P (3H)4G		
186.9203	-4.856	50212.826	2.5	D6S (3P)4P	103711.570	3.5	4P(5D)2[4]	188.4642	-4.264	54904.222	3.5	D6S (3F)2F	107964.700	4.5	210DD		
186.9246	-8.440	25787.598	1.5	D6S (3P)2P	79285.110	2.5	4SP(5S)6P	188.4859	-2.195	25787.598	1.5	D6S (3P)2P	78841.960	0.5	4P (1D)2P		
186.9542	-3.917	98568.912	3.5	5S (3H)4H	45079.879	2.5	4P (5D)4P	188.5089	-3.531	13474.411	2.5	D7 (5D)4P	66522.304	2.5	4P (3G)4F		
186.9766	-1.472	30388.542	4.5	D6S (3G)2G	83871.184	4.5	4P (1F)2G	188.5148	-2.318	33501.253	3.5	D6S (1G)2G	86547.490	2.5	4P (1F)2F		
186.9988	-3.547	44915.046	3.5	D6S (1F)2F	98391.330	3.5	4SP(5D)4D	188.5337	-3.774	50142.786	2.5	D6S (3F)4F	103183.700	3.5	4SP(3D)2F		
187.0169	-3.547	8680.454	1.5	D6S (5D)4D	62151.561	2.5	4P (3F)4F	188.5578	-4.485	7955.299	3.5	D6S (5D)4D	60989.444	4.5	4P (3H)4H		
187.0229	-3.487	54902.315	1.5	D6S (3P)2P	108371.700	1.5	250DD	188.6213	-2.174	33466.463	4.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F		
187.0446	-2.908	33466.463	4.5	D6S (1G)2G	86929.649	3.5	4P (3P)4D	188.6740	-4.150	7955.299	3.5	D6S (5D)4D	60956.781	3.5	4P (3H)4G		
187.0607	-8.835	25787.598	1.5	D6S (3P)2P	79246.170	1.5	4SP(5S)6P	188.6904	-4.179	49506.934	1.5	D6S (3F)4P	102503.810	1.5	4SP(3D)2D		
187.0697	-1.794	25787.598	1.5	D6S (3P)2P	79243.600	1.5	4P (1D)2P	188.6939	-3.275	50187.813	3.5	D6S (3F)4F	103183.700	3.5	4SP(3D)2F		
187.1077	-2.802	8680.454	1.5	D6S (5D)4D	62125.600	1.5	4P (3P)2D	188.6958	-4.329	31364.440	1.5	D6S (3D)4D	84359.800	1.5	4P (1F)2D		
187.1271	-4.092	44915.046	3.5	D6S (1F)2F	98354.660	2.5	4SP(5D)4F	188.7451	-2.408	33501.253	3.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F		
187.1664	-3.250	33501.253	3.5	D6S (1F)2F	98354.660	2.5	4SP(5D)4F	188.7451	-2.408	33501.253	3.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F		
187.1779	-4.793	44929.550	2.5	D6S (1F)2F	98354.660	2.5	4SP(5D)4F	188.7550	-8.331	26332.766	4.5	D6S (3H)2H	79331.500	3.5	4SP(5S)6P		
187.2274	-2.601	20340.300	5.5	D7 (5D)2H	73751.282	4.5	4P (11)2H	188.7652	-4.036	22939.358	2.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F		
187.2560	-3.146	49100.976	0.5	D6S (3P)4P	102503.810	1.5	4SP(3D)2D	188.7795	-4.111	31387.948	2.5	D6S (3D)4D	84359.800	1.5	4P (1F)2D		
187.2738	-3.007	8846.768	0.5	D6S (5D)4D	67273.826	1.5	4P (3F)4F	188.8010	-4.036	50212.826	2.5	D6S (3P)4P	103183.700	3.5	4SP(3D)2F		
187.3747	-3.568	13904.824	0.5	D7 (5D)4P	67273.826	1.5	4P (3F)2D	188.8085	-3.521	22637.205	4.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F		
187.3758	-4.997	54870.528	2.5	D6S (3F)2F	108239.200	3.5	240DD	188.8734	0.030	20805.770	4.5	D7 (5D)2H	73751.282	4.5	4P (11)2H		
187.3762	-5.098	8680.454	1.5	D6S (5D)4D	62049.025	2.5	4SP(7S)6P	188.8854	-2.051	49506.934	1.5	D6S (3P)4P	102449.100	2.5	4SP(3D)2D		
187.4419	-6.581	25981.629	3.5	D6S (3G)4G	79331.500	3.5	4SP(5S)6P	188.8901	-3.188	8391.938	2.5	D6S (5D)4D	61332.764	1.5	4P (3P)4P		
187.4492	-4.724	54904.222	3.5	D6S (3F)2F	108239.200	3.5	240DD	188.8950	-3.266	13673.185	1.5	D7 (5D)4P	66612.656	1.5	4P (3G)4F		
187.4972	-2.141	8391.938	2.5	D6S (5D)4D	61726.077	3.5	4P (3P)4D	188.9063	-4.010	44915.046	3.5	D6S (1F)2F	97851.350	4.5	4P (1G)2H		
187.5211	-2.577	13673.185	1.5	D7 (5D)4P	67000.517	2.5	4P (3P)4D	188.9625	-2.791	188.9625	-2.791	188.9625	-2.791	180DD	107196.200	2.5	4P (1F)2G
187.5251	-2.361	18886.780	0.5	D7 (5D)2P	72212.978	0.5	4P (3D)2D	188.9625	-2.791	188.9625	-2.791	188.9625	-2.791	180DD	107196.200	2.5	4P (1F)2G
187.6030	-6.212	25981.629	3.5	D6S (3G)4G	79285.110	2.5	4SP(5S)6P	188.9895	-1.503	54283.220	3.5	D5S2(7S)4G	107196.200	2.5	4P (1D)2D		
187.6215	-1.482	21308.040	1.5	D7 (5D)2D	74606.841	2.5	4P (3D)2D	189.0243	-4.378	189.0243	-4.378	189.0243	-4.378	170DD	107196.200	2.5	4P (3D)2D
187.6367	-5.146	8680.454	1.5	D6S (5D)4D	61974.933	1.5	4SP(7S)6P	189.0257	-2.590	13474.411	2.5	D7 (5D)4P	66377.283	3.5	4P (3G)4F		
187.6799	-3.224	18886.780	0.5	D7 (5D)2P	72168.998	1.5	4P (3D)4F	189.0541	-5.026	21711.917	3.5	D6S (3H)4H	74606.841	2.5	4P (3D)2D		
187.6837	-0.619	16369.360	3.5	D7 (5D)2G	69650.484	2.5	4P (3G)2F	189.0647	-2.722	54275.637	2.5	D5S2(7S)4G	107196.200	2.5	4P (3D)2D		
187.6918	-3.157	8846.768	0.5	D6S (5D)4D	62125.600	1.5	4P (3P)2D	189.0718	-2.004	189.0718	-2.004	189.0718	-2.004	170DD	107196.200	2.5	4P (3D)2F
187.7015	-8.120	26055.423	2.5	D6S (3G)4G	79331.500	3.5	4SP(5S)6P	189.0789	-0.836	54283.220	3.5	D5S2(7S)4G	107196.200	2.5	4P (3D)2F		
187.7354	-3.585	44929.550	2.5	D6S (1F)2F	98196.000	1.5	4SP(5D)4F	189.0989	-0.836	54283.220	3.5	D5S2(7S)4G	107196.200	2.5	4P (3D)2F		
187.7359	-3.150	33501.253	3.5	D6S (1G)2G	86767.577	2.5	4P (3P)4D	189.1179	-2.562	13673.185	1.5	D7 (5D)4P	66522.304	2.5	4P (3G)4F		
187.7469	-0.002	20340.300	5.5	D7 (5D)2H	73603.500	5.5	4P (11)2H	189.2078	-3.223	7955.299	3.5	D6S (5D)4D	60807.230	4.5	4P (3H)4G		
187.7485	-4.854	58666.258	3.5	D6S (1G)2G	111929.000	2.5	290DD	189.2179	-2.562	13673.185	1.5	D7 (5D)4P	66522.304	2.5	4P (3G)4F		
187.7645	-3.940	50075.910	1.5	D6S (3F)4F	103334.100	2.5	4SP(3D)2F	189.3120	-4.673	50157.452	4.5	D6S (3F)4F	102980.300	5.5	4SP(3I)4I		
187.8386	-1.812	16369.360	3.5	D7 (5D)2G	69606.552	3.5	4P (3G)2F	189.3516	-6.821	23317.633	2.5	D5S2(7S)6S	76129.446	1.5	4P (1S)2P		
187.8651	-6.882	26055.423	2.5	D6S (3G)4G	79285.110	2.5	4SP(5S)6P	189.4021	-1.179	20805.770	4.5	D7 (5D)2H	73603.500	5.5	4P (11)2H		
187.8700	-2.979	54902.315	1.5	D6S (3P)2P	108130.600	2.5	220DD	189.4126	-5.725	21812.055	1.5	D6S (3F)4F	74606.841	2.5	4P (3D)2F		
187.8768	-2.631	54904.222	3.5	D6S (3F)2F	108130.600	2.5	220DD	189.4278	-3.725	22810.357	3.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F		
187.9645	-3.554	7955.299	3.5	D6S (5D)4D	61156.835	3.5	4P (3H)4H	189.4867	-3.501	54232.195	5.5	D5S2(7S)4G	107006.350	4.5	4SP(3I)2H		
187.9773	-6.088	13474.411	2.5	D7 (5D)4P	66672.334	3.5	4P (3G)4H	189.5199	-4.311	8391.938	2.5	D6S (5D)4D	61156.835	3.5	4P (3H)4H		
188.0006	-3.441	50142.786	2.5	D6S (3F)4F	103334.100	2.5	4SP(3D)2F	189.5243	-4.993	50187.813	3.5	D6S (3F)4F	102991.500	4.5	4SP(3I)4I		

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
189.5688	-0.906	20340.300	5.5	D7 (5D)2H	73091.590	4.5	4P (1G)2G	191.0445	-3.112	13904.824	0.5	D7 (5D)4P	66248.660	0.5	4P (3P)2S
189.6345	-0.902	16369.360	3.5	D7 (5D)2H	69102.380	2.5	4SP(5S)4P	191.0675	-1.048	20805.770	4.5	D7 (5D)2H	73143.288	3.5	4P (1G)2G
189.6356	-2.391	54273.641	4.5	D5S2(7S)4G	107006.350	4.5	4SP(31)2H	191.0875	-4.491	21805.328	4.5	D6S (3G)4G	78137.364	3.5	4P (1D)2F
189.6610	-2.542	47674.721	1.5	D7 (5D)2D	100400.360	2.5	4SP(3P)2D	191.1281	-5.161	21430.359	5.5	D6S (3H)4H	73751.282	1.5	4P (11)2H
189.6701	-2.516	54283.220	3.5	D5S2(7S)4G	107006.350	4.5	4SP(31)2H	191.1555	-7.945	26932.748	0.5	D6S (3P)2P	79246.170	1.5	4SP(5S)6P
189.6880	-7.915	21251.608	6.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	191.1581	-3.629	20830.582	2.5	D6S (3P)4P	73143.288	3.5	4P (1G)2G
189.6985	-4.344	21251.608	6.5	D6S (3H)4H	73966.832	6.5	4P (11)2I	191.1649	-2.655	26932.748	0.5	D6S (3P)2P	79243.600	1.5	4P (1D)2P
189.7201	-4.200	25981.629	3.5	D6S (3G)4G	8690.846	2.5	4P (1D)2D	191.1667	-1.897	20340.300	5.5	D7 (5D)2H	72650.658	4.5	4P (3D)4F
189.7251	-3.312	13904.300	5.5	D7 (5D)4P	66612.656	1.5	4P (3G)4F	191.1815	-4.239	50142.786	2.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
189.7480	-2.765	8391.938	2.5	D6S (5D)4D	61093.413	2.5	4P (3P)2D	191.1995	-1.913	49100.976	0.5	D6S (3P)4P	101462.380	0.5	4SP(5D)4P
189.7549	-2.053	25787.598	1.5	D6S (3P)2P	78487.153	1.5	4P (1D)2D	191.2226	-4.823	54870.528	2.5	D6S (3F)2F	107165.600	3.5	170DD
189.8037	-3.778	21812.055	1.5	D6S (3P)4P	74498.057	1.5	4P (3D)2D	191.2339	-3.669	44904.222	3.5	D6S (3F)2F	107196.200	2.5	180DD
189.8537	-1.211	20516.960	2.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P	191.2376	-3.019	50212.826	2.5	D6S (3P)4P	102503.810	1.5	4SP(3D)2D
189.8918	-5.462	22939.358	2.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F	191.2533	-1.385	57495.321	1.5	D5S2(7S)4P	109780.000	1.5	280DD
189.9252	-3.214	8680.454	1.5	D6S (5D)4D	61332.764	1.5	4P (3P)4P	191.2564	-2.133	20805.770	4.5	D7 (5D)2H	73091.590	4.5	4P (1G)2G
189.9342	-4.180	8391.938	2.5	D6S (5D)4D	61041.748	2.5	4P (3H)4G	191.3459	-4.180	54904.222	3.5	D6S (3F)2F	107163.600	3.5	170DD
189.9861	-3.776	26055.423	2.5	D6S (3G)4G	78690.846	2.5	4P (1D)2D	191.3462	-4.420	50187.813	3.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
190.0190	-2.131	20516.960	2.5	D7 (5D)2D	73143.288	3.5	4P (1G)2G	191.4379	-1.842	50212.826	2.5	D6S (3P)4P	102449.100	2.5	4SP(3D)2D
190.0239	-4.749	38214.507	1.5	D6S (1D)2D	90839.480	0.5	4P (3P)4P	191.4817	-4.365	20830.582	2.5	D6S (3P)4P	73054.881	2.5	4P (1G)2F
190.1001	-5.639	13474.411	2.5	D7 (5D)4P	66078.269	2.5	4P (3G)4G	191.5328	-1.280	20805.770	4.5	D7 (5D)2H	73016.147	3.5	4P (1G)2F
190.1228	-7.952	23317.633	2.5	D5S2(7S)6S	75915.215	2.5	4P (3D)2F	191.5653	-1.571	57578.484	0.5	D5S2(7S)4P	109780.000	1.5	280DD
190.1518	-2.647	54273.641	4.5	D5S2(7S)4G	106863.200	3.5	160DD	191.5792	-3.996	384.790	3.5	D6S (5D)6D	52582.510	3.5	4SP(7S)8P
190.1590	-2.200	54275.637	2.5	D5S2(7S)4G	106863.200	3.5	160DD	191.6130	-4.652	8846.768	0.5	D6S (5D)4D	61035.287	0.5	4P (3P)4P
190.1773	-3.184	0.000	4.5	D6S (5D)6D	52582.510	3.5	4SP(7S)8P	191.6239	-3.489	20830.582	2.5	D6S (3P)4P	73016.147	3.5	4P (1G)2F
190.1827	-4.874	384.790	3.5	D6S (5D)6D	52965.820	4.5	4SP(7S)8P	191.6695	-3.426	21430.359	5.5	D6S (3H)4H	73603.500	5.5	4P (11)2H
190.1865	-0.983	54283.220	3.5	D5S2(7S)4G	106863.200	3.5	160DD	191.6824	-3.236	21430.359	5.5	D6S (3H)4H	73751.282	1.5	4P (11)2H
190.2028	-2.166	13673.185	1.5	D7 (5D)4P	66248.660	0.5	4P (3P)2S	191.7320	-1.356	15844.650	4.5	D7 (5D)2G	68000.788	4.5	4P (3G)2H
190.2412	-3.461	8391.938	2.5	D6S (5D)4D	60956.781	3.5	4P (3H)4G	191.7335	-3.276	25981.629	3.5	D6S (3G)4G	78137.364	3.5	4P (1D)2F
190.3023	-1.990	31811.822	2.5	D7 (5D)2F	84359.800	1.5	4P (1F)2D	191.8100	-0.935	20516.960	2.5	D7 (5D)2D	72651.876	3.5	4P (3D)4D
190.3284	-1.508	30764.485	3.5	D6S (3G)2G	83305.251	3.5	4P (1F)2G	191.9293	-3.390	20516.960	2.5	D7 (5D)2D	72619.490	2.5	4P (3D)4D
190.3333	-4.137	21430.359	5.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	191.9820	-6.843	22409.852	0.5	D6S (3F)2F	107006.350	4.5	4SP(31)2H
190.3387	-4.156	20516.960	2.5	D7 (5D)2D	73054.881	2.5	4P (1G)2F	191.9820	-6.843	22409.852	0.5	D6S (3F)2F	107006.350	4.5	4SP(31)2H
190.3440	-4.183	21430.359	5.5	D6S (3H)4H	73966.832	6.5	4P (11)2I	192.0051	-4.159	26405.423	2.5	D6S (3G)4G	74498.057	1.5	4P (3D)2D
190.4616	-4.971	31364.440	1.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.0604	-1.938	49506.934	1.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P
190.4791	-0.973	20516.960	2.5	D7 (5D)2D	73016.147	3.5	4P (1G)2F	192.0985	-2.426	31811.822	2.5	D7 (5D)2F	83868.450	2.5	4P (1F)2D
190.5270	-3.258	8846.768	0.5	D6S (5D)4D	61332.764	1.5	4P (3P)4P	192.1622	-3.679	21711.917	3.5	D6S (3H)4H	73751.282	1.5	4P (11)2H
190.5470	-4.432	31387.948	2.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.2269	-5.303	21581.638	4.5	D6S (3H)4H	73603.500	5.5	4P (11)2H
190.5745	-1.289	49100.976	0.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P	192.2464	-7.256	27314.922	3.5	D6S (3F)2F	79331.500	3.5	4SP(5S)6P
190.6007	-3.853	38164.194	2.5	D6S (1D)2D	90629.902	1.5	4P (3P)4S	192.2692	-2.786	8391.938	2.5	D6S (5D)4D	60402.342	1.5	4P (3P)4P
190.6288	-1.691	54232.195	5.5	D5S2(7S)4G	106690.170	5.5	4SP(31)2H	192.2796	-2.217	20516.960	2.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D
190.6326	-3.841	13474.411	2.5	D7 (5D)4P	65931.334	3.5	4P (3G)4G	192.4180	-6.577	27314.922	3.5	D6S (3F)2F	79285.110	2.5	4SP(5S)6P
190.6685	-3.131	7955.299	3.5	D6S (5D)4D	60402.342	2.5	4P (3P)4P	192.4595	-4.021	54904.222	3.5	D6S (3F)2F	106863.200	3.5	160DD
190.7242	-4.059	26055.423	2.5	D6S (3G)4G	78487.153	1.5	4P (1D)2D	192.4738	-3.915	25787.598	1.5	D6S (3P)2P	77742.730	2.5	4P (1D)2F
190.7381	-3.581	50075.910	1.5	D6S (3F)4F	102503.810	1.5	4SP(31)2H	192.5987	-0.783	20340.300	5.5	D7 (5D)2H	72261.729	5.5	4P (1G)2H
190.7795	-2.356	54273.641	4.5	D5S2(7S)4G	106690.170	5.5	4SP(31)2H	192.6140	-4.936	31387.948	2.5	D6S (3D)4D	83305.251	3.5	4P (1F)2G
190.7836	-4.614	38214.507	1.5	D6S (1D)2D	90629.902	1.5	4P (3P)4S	192.6232	-5.071	667.683	2.5	D6S (5D)6D	52582.510	3.5	4SP(7S)8P
190.7925	-3.087	8680.454	1.5	D6S (5D)4D	61093.413	2.5	4P (3P)2D	192.6240	-3.623	384.790	3.5	D6S (5D)6D	52299.390	2.5	4SP(7S)8P
190.8212	-4.169	13673.185	1.5	D7 (5D)4P	66078.269	2.5	4P (3G)4G	192.6440	-1.762	26932.748	0.5	D6S (3P)2P	78841.960	0.5	4P (1D)2P
190.8829	-3.854	21581.638	4.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	192.6490	-1.243	49506.934	1.5	D6S (3P)4P	101402.380	0.5	4SP(5D)4P
190.8834	-4.030	31483.176	3.5	D6S (3D)4D	83871.184	4.5	4P (1F)2G	192.6951	-1.849	21308.040	1.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P
190.8933	-3.651	31483.176	3.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.7485	-1.849	21308.040	1.5	D7 (5D)2D	73187.280	0.5	4P (3D)2P
190.9529	-1.510	57411.065	2.5	D5S2(7S)4P	109780.000	1.5	280DD	192.7553	-2.324	21308.040	1.5	D7 (5D)2D	73187.280	0.5	4P (3D)2P
190.9808	-3.363	8680.454	1.5	D6S (5D)4D	61041.748	2.5	4P (3H)4G	192.7817	-2.768	31999.048	3.5	D7 (5D)2F	83871.184	4.5	4P (1F)2G
190.9809	-2.154	48039.090	2.5	D7 (5D)2D	100400.360	2.5	4SP(3P)2D	192.7919	-2.019	31999.048	3.5	D7 (5D)2F	83868.450	2.5	4P (1F)2G
190.9818	-4.142	50142.786	2.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D	192.8785	-2.249	20805.770	4.5	D7 (5D)2H	72651.876	3.5	4P (3D)4D
190.9909	-3.221	20830.582	2.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	192.8830	-2.822	20805.770	4.5	D7 (5D)2H	72650.658	4.5	4P (3D)4F
191.0043	-3.808	8680.454	1.5	D6S (5D)4D	61035.287	0.5	4P (3P)4P	192.9196	-1.637	20516.960	2.5	D7 (5D)2D	72352.024	3.5	4P (3D)4F
191.0151	-3.626	21251.608	6.5	D6S (3H)4H	73603.500	5.5	4P (11)2H	193.0033	-3.813	22810.357	3.5	D6S (3F)4F	74606.841	2.5	4P (3D)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
193.0871	-2.216	20340.300	5.5	D7 (5D)2H	72130.390	2.5	4P (1G)2H	194.7859	-3.372	20830.582	2.5	D6S (3P)4P	72168.998	1.5	4P (3D)4F
193.0915	-3.334	20830.582	2.5	D6S (3P)4P	72619.490	2.5	4P (3D)4D	194.8081	-7.449	22637.205	4.5	D6S (3F)4F	73969.767	5.5	4P (1I)2I
193.1076	-4.400	26352.766	4.5	D6S (3H)2H	78137.364	3.5	4P (1D)2F	194.8383	-1.575	20805.770	4.5	D7 (5D)2H	72130.390	4.5	4P (1G)2H
193.1392	-4.397	37227.326	0.5	D6S (1S)2S	89003.460	0.5	4P (3P)2S	194.8883	-2.328	21308.040	1.5	D7 (5D)2D	72619.490	2.5	4P (1G)2F
193.1646	-1.427	48039.090	2.5	D7 (5D)2D	99808.400	3.5	4P (1G)2D	194.9157	-4.228	21711.917	3.5	D6S (3H)4H	73016.147	3.5	4P (1G)2F
193.1953	-3.582	25981.629	3.5	D6S (3G)4G	77742.730	2.5	4P (1D)2F	194.9228	-4.410	44915.046	3.5	D6S (1F)2F	96217.420	3.5	4SP(3P)4D
193.2485	-0.911	21308.040	1.5	D7 (5D)2D	73054.881	2.5	4P (1G)2F	194.9704	-2.072	18360.646	1.5	D7 (5D)2P	74650.484	2.5	4P (3G)2F
193.3257	-4.116	38164.194	2.5	D6S (1D)2D	89890.373	3.5	4P (3F)4G	194.9728	-6.960	23317.633	2.5	D5S2(7S)6S	74606.841	2.5	4P (3D)2D
193.3417	-2.998	8680.454	1.5	D6S (5D)4D	60402.342	2.5	4P (3F)4P	194.9824	-1.828	57493.431	1.5	D5S2(7S)4P	108780.000	1.5	270DD
193.3430	-2.775	20516.960	2.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F	195.0401	-3.863	8391.938	2.5	D6S (5D)4D	59663.456	1.5	4P (3P)4S
193.3821	-8.654	27620.412	2.5	D6S (3F)2F	79331.500	3.5	4SP(5S)6P	195.0493	-4.071	21812.055	1.5	D6S (3P)4P	73054.881	2.5	4P (1G)2F
193.4461	-2.693	20830.582	2.5	D6S (3P)4P	72524.566	1.5	4P (3D)4D	195.1231	-2.725	21430.359	5.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
193.4711	-3.085	26035.423	2.5	D6S (3G)4G	77742.730	2.5	4P (1D)2F	195.2361	-2.412	57411.065	2.5	D5S2(7S)4P	108631.090	3.5	4SP(3G)4G
193.5296	-1.074	15844.650	4.5	D7 (5D)2G	67516.332	5.5	4P (3G)2H	195.2432	-4.813	57411.065	2.5	D5S2(7S)4P	108629.250	2.5	4SP(3G)4G
193.5453	-4.158	22939.358	2.5	D6S (3F)4F	74606.841	2.5	4P (3D)2D	195.2495	-3.024	21308.040	1.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D
193.5558	-6.759	27620.412	2.5	D6S (3F)2F	79285.110	2.5	4SP(5S)6P	195.2650	-2.334	20830.582	2.5	D6S (3P)4P	72043.026	1.5	4P (3D)4P
193.5688	-4.804	21430.359	5.5	D6S (3H)4H	73091.590	4.5	4P (1G)2G	195.3067	-2.970	57578.484	0.5	D5S2(7S)4P	108780.000	1.5	270DD
193.5784	-3.597	60270.339	3.5	D5S2(7S)4D	111929.000	2.5	290DD	195.3872	-7.777	23317.633	2.5	D5S2(7S)6S	74498.057	1.5	4P (3D)2D
193.6032	-3.036	20516.960	2.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F	195.4618	-2.695	13673.185	1.5	D7 (5D)4P	64834.073	1.5	4P (3D)2P
193.6661	-3.644	13474.411	2.5	D7 (5D)4P	65109.679	3.5	4P (3F)2G	195.5572	-2.645	57493.321	1.5	D5S2(7S)4P	108629.250	2.5	4SP(3G)4G
193.6794	-3.868	667.683	2.5	D6S (5D)6D	52299.390	2.5	4SP(7S)8P	195.5641	-1.580	20830.582	2.5	D6S (3P)4P	71964.710	2.5	4P (3P)2P
193.6805	-1.309	16369.360	3.5	D7 (5D)2G	68000.788	4.5	4P (3G)2H	195.5673	-4.891	13673.185	1.5	D7 (5D)4P	64806.487	0.5	4P (3P)2P
193.7018	-7.887	27620.412	2.5	D6S (3F)2F	79246.170	1.5	4SP(5S)6P	195.6118	-2.601	21308.040	1.5	D7 (5D)2D	72429.711	0.5	4P (3D)4D
193.7114	-2.295	27620.412	2.5	D6S (3F)2F	79243.600	1.5	4P (1D)2P	195.6408	-3.883	22637.205	4.5	D6S (3F)4F	93751.282	4.5	4P (1I)2H
193.8904	-4.533	23031.300	1.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G	195.7123	-4.186	47674.721	1.5	D7 (5D)2D	98770.140	1.5	4SP(7S)8P
193.9370	-4.944	38164.194	2.5	D6S (1D)2D	89727.342	2.5	4P (3F)4G	195.7689	-3.379	44915.046	3.5	D6S (1F)2F	95995.690	2.5	4SP(5P)4D
193.9426	-3.770	21581.638	4.5	D6S (3H)4H	73143.288	3.5	4P (1G)2G	195.8088	-2.968	21581.638	4.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
193.9537	-3.675	22939.358	2.5	D6S (3F)4F	74498.057	1.5	4P (3D)2D	195.8134	-4.763	21581.638	4.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
194.0005	-2.616	20805.770	4.5	D7 (5D)2H	72352.024	3.5	4P (3D)4F	195.8237	-5.287	18360.646	1.5	D7 (5D)2P	64425.408	2.5	4P (3F)2F
194.0765	-1.924	20516.960	2.5	D7 (5D)2D	72043.026	1.5	4P (3D)4F	196.0395	-3.171	21251.608	6.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
194.0939	-3.223	20830.582	2.5	D6S (3P)4P	72352.024	3.5	4P (3D)4F	196.1438	-4.751	8680.454	1.5	D6S (5D)4D	59663.456	1.5	4P (1G)2H
194.1264	-3.939	38214.507	1.5	D6S (1D)2D	89727.342	2.5	4P (3F)4G	196.2081	-7.248	22637.205	4.5	D6S (3F)4F	73603.500	5.5	4P (1I)2H
194.1372	-8.129	21581.638	4.5	D6S (3H)4H	73091.590	4.5	4P (1G)2G	196.2218	-4.645	57411.065	2.5	D5S2(7S)4P	108373.800	3.5	260DD
194.1823	-4.973	50075.910	1.5	D6S (3F)4F	101573.900	1.5	4SP(5D)4P	196.2274	-3.515	32909.905	5.5	D6S (1I)2I	83871.184	4.5	4P (1F)2G
194.1914	-4.101	57411.065	2.5	D5S2(7S)4P	108906.640	3.5	4SP(3G)4H	196.2299	-2.437	57411.065	2.5	D5S2(7S)4P	108371.700	1.5	250DD
194.1995	-2.340	31811.822	2.5	D7 (5D)2F	83305.251	3.5	4P (1F)2G	196.2670	-2.954	13474.411	2.5	D7 (5D)4P	64425.408	2.5	4P (3F)2F
194.2201	-1.928	60441.033	1.5	D5S2(7S)4D	111929.000	2.5	290DD	196.3038	-5.014	18360.646	1.5	D7 (5D)2P	69302.090	1.5	4SP(5S)4P
194.3002	-3.765	23031.300	1.5	D6S (3F)4F	74498.057	1.5	4P (3D)2D	196.3058	-5.312	22810.357	3.5	D6S (3F)4F	73751.282	4.5	4P (1I)2H
194.3410	-4.871	20805.770	4.5	D7 (5D)2H	72261.729	5.5	4P (1G)2H	196.3142	-5.310	21711.917	3.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
194.3720	-3.422	20516.960	2.5	D7 (5D)2D	71964.710	2.5	4P (3D)4P	196.3461	-3.676	21308.040	1.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F
194.3940	-3.134	44915.046	3.5	D6S (1F)2F	96356.960	3.5	4SP(3G)2F	196.3508	-3.933	13904.824	0.5	D7 (5D)4P	64834.073	1.5	4P (3P)2P
194.4134	-4.430	862.613	1.5	D6S (5D)6D	52299.390	2.5	4SP(7S)8P	196.4344	-3.357	21711.917	3.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
194.4220	-3.344	21581.638	4.5	D6S (3H)4H	73016.147	3.5	4P (1G)2F	196.4446	-2.794	44929.550	2.5	D6S (1F)2F	95858.050	1.5	4SP(5P)4D
194.4339	-4.938	21711.917	3.5	D6S (3H)4H	73143.288	3.5	4P (1G)2G	196.4572	-3.188	21711.917	3.5	D6S (3H)4H	72619.490	2.5	4P (3D)4D
194.4488	-3.976	44929.550	2.5	D6S (1F)2F	96356.960	3.5	4SP(3G)2F	196.5471	-2.485	57493.321	1.5	D5S2(7S)4P	108371.700	1.5	250DD
194.5225	-4.575	20830.582	2.5	D6S (3P)4P	72238.513	2.5	4P (3D)4F	196.5471	-2.097	27620.412	2.5	D6S (3F)2F	78487.153	1.5	4P (1D)2D
194.6295	-6.010	21711.917	3.5	D6S (3H)4H	73091.590	4.5	4P (1G)2G	196.6145	-2.609	21308.040	1.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F
194.6437	-1.890	27314.922	3.5	D6S (3P)2F	78690.846	2.5	4P (1D)2D	196.6196	-0.579	48039.090	2.5	D7 (5D)2D	98898.710	3.5	4P (1G)2F
194.6702	-3.768	21812.055	1.5	D6S (3P)4P	73187.280	0.5	4P (3D)2P	196.7289	-4.628	21430.359	5.5	D6S (3H)4H	72261.729	5.5	4P (1G)2H
194.7000	-1.148	50212.826	2.5	D6S (3P)4P	108780.000	1.5	270DD	196.7327	-4.413	47674.721	1.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D
194.7053	-3.248	13474.411	2.5	D7 (5D)4P	64834.073	1.5	4P (3P)2P	196.7414	-3.034	57411.065	2.5	D5S2(7S)4P	108239.200	3.5	240DD
194.7422	-2.567	44929.550	2.5	D6S (1F)2F	96279.490	2.5	4SP(3G)2F	196.7432	-4.012	15844.650	4.5	D7 (5D)2G	66672.334	3.5	4P (3G)4H
194.7687	-3.739	21711.917	3.5	D6S (3H)4H	73054.881	2.5	4P (1G)2G	196.7635	-2.196	27314.922	3.5	D6S (3F)2F	78137.364	3.5	4P (1D)2F
								196.7857	-4.491	8846.768	0.5	D6S (5D)4D	59663.456	1.5	4P (3P)4S

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
196.8042	-1.843	13474.411	2.5	D7	(5D)/4P	64286.345	3.5	4P	(3F)/2F	198.3086	-3.772	1812.055	1.5	D6S	(3P)/4P	72238.513	2.5	4P	(3D)/4F	
196.8216	-2.181	21812.055	1.5	D6S	(3P)/4P	72619.490	2.5	4P	(3F)/4D	198.3297	-2.423	36126.387	1.5	D6S	(3D)/2D	86547.490	2.5	4P	(1F)/2F	
196.8685	-0.226	103094.730	3.5	4S8S(7S)/8S		52299.390	2.5	4S8S(7S)/8P		198.3400	-3.697	21711.917	3.5	D6S	(3H)/4H	72130.390	4.5	4P	(1G)/2H	
196.8767	-2.552	57578.484	0.5	D5S2(7S)/4P		108371.700	1.5	250DD		198.3435	-3.544	36126.387	1.5	D6S	(3D)/2D	86543.974	1.5	4P	(3P)/4D	
196.8896	-1.853	25787.598	1.5	D6S	(3P)/2P	76577.482	0.5	4P	(1S)/2P	198.3524	-5.264	18886.780	0.5	D7	(5D)/2P	69302.970	1.5	4S8S(5S)/4P		
196.8932	-4.181	38214.507	1.5	D6S	(1D)/2D	89003.460	0.5	4P	(3P)/2S	198.3567	-2.883	13673.185	1.5	D7	(5D)/4P	64087.418	2.5	4P	(3F)/4G	
196.9258	-1.243	57411.065	2.5	D5S2(7S)/4P		108191.600	1.5	230DD		198.3941	-2.180	33466.463	4.5	D6S	(1G)/2G	83871.184	4.5	4P	(1F)/2G	
196.9308	-4.007	22409.852	0.5	D6S	(3P)/4P	73189.110	1.5	4P	(3D)/2P	198.4091	-2.320	21812.055	1.5	D6S	(3P)/4P	72212.978	0.5	4P	(3D)/4P	
196.9379	-3.932	22409.852	0.5	D6S	(3P)/4P	73187.280	0.5	4P	(3D)/2P	198.44956	-1.288	22637.405	4.5	D6S	(3F)/4F	73016.147	3.5	4P	(1G)/2F	
196.9652	-2.861	21581.638	4.5	D6S	(3H)/4H	72352.024	3.5	4P	(3D)/4F	198.5311	-3.250	33501.253	3.5	D6S	(1G)/2G	83871.184	4.5	4P	(1F)/2G	
197.0251	-4.947	54273.641	4.5	D5S2(7S)/4G		105028.600	3.5	4S8S(3I)/4H		198.5419	-3.775	21812.055	1.5	D6S	(1G)/2G	83868.450	2.5	4P	(1F)/2D	
197.0328	-0.703	54275.637	2.5	D5S2(7S)/4G		105028.600	3.5	4S8S(3I)/4H		198.5823	-3.340	21812.055	1.5	D6S	(3P)/4P	72168.998	1.5	4P	(3D)/4F	
197.0357	-2.556	13673.185	1.5	D7	(5D)/4P	64425.408	2.5	4P	(3F)/2F	198.6009	-4.264	48039.090	2.5	D7	(5D)/2D	89391.330	3.5	4S8S(5D)/4D		
197.0623	-2.042	54283.220	3.5	D5S2(7S)/4G		105028.600	3.5	4S8S(3I)/4H		198.6419	-1.116	25787.598	1.5	D6S	(3P)/2P	76129.446	1.5	4P	(1S)/2P	
197.0662	-2.206	15844.650	4.5	D7	(5D)/2G	66589.008	4.5	4P	(3C)/4H	198.6771	-2.610	22810.357	3.5	D6S	(3F)/4F	73143.288	1.5	4P	(1G)/2G	
197.0764	-4.450	18360.646	1.5	D7	(5D)/2P	69102.380	2.5	4S8S(5S)/4P		198.7106	-3.585	50075.910	1.5	D6S	(3F)/4F	100400.360	2.5	4S8S(3P)/2D		
197.1026	-3.369	21308.040	1.5	D7	(5D)/2D	72043.026	1.5	4P	(3D)/4P	198.7456	-3.372	48039.090	2.5	D7	(5D)/2D	98354.660	2.5	4S8S(5D)/4F		
197.1627	-2.263	57411.065	2.5	D5S2(7S)/4P		108130.600	2.5	220DD		198.7994	-3.294	16369.360	3.5	D7	(5D)/2G	66672.334	3.5	4P	(3G)/4H	
197.1900	-4.169	21812.055	1.5	D6S	(3P)/4P	72524.566	1.5	4P	(3D)/4D	198.8104	-4.240	48039.090	2.5	D7	(5D)/2D	98338.280	1.5	4S8S(5P)/4S		
197.2000	-6.429	1872.567	4.5	D7	(5D)/4F	52582.510	3.5	4S8S(7S)/8P		198.8425	-3.707	36252.918	2.5	D6S	(3D)/2D	86543.974	1.5	4P	(3P)/4D	
197.2169	-4.720	54232.195	5.5	D5S2(7S)/4G		104937.800	4.5	4S8S(3I)/4H		198.8814	-2.945	22810.357	3.5	D6S	(3F)/4F	73091.590	4.5	4P	(1G)/2G	
197.2385	-3.814	21430.359	5.5	D6S	(3H)/4H	72130.390	4.5	4P	(1G)/2H	198.9557	-4.133	36126.387	1.5	D6S	(3D)/4F	86388.820	0.5	4P	(3P)/4D	
197.2454	-1.143	57493.321	1.5	D5S2(7S)/4P		108191.600	1.5	230DD		198.9750	-3.156	50142.786	2.5	D6S	(3F)/4F	100400.360	2.5	4S8S(3P)/2D		
197.3161	-3.564	21581.638	4.5	D6S	(3H)/4H	72261.729	5.5	4P	(1G)/2H	198.9939	-4.632	21711.917	3.5	D6S	(3H)/4H	71964.710	2.5	4P	(3D)/4P	
197.3167	-4.028	47674.721	1.5	D7	(5D)/2D	86354.660	2.5	4S8S(5D)/4F		199.0060	-2.131	22939.358	2.5	D6S	(3F)/4F	73189.110	1.5	4P	(3D)/2P	
197.3292	-3.064	36252.918	2.5	D6S	(3D)/2D	98929.649	3.5	4P	(3F)/4D	199.0267	-2.637	22810.357	3.5	D6S	(3F)/4F	73054.881	2.5	4P	(1G)/2F	
197.3782	-1.953	54273.641	4.5	D5S2(7S)/4G		104937.800	4.5	4S8S(3I)/4H		199.0804	-2.393	21812.055	1.5	D6S	(3P)/4P	72043.026	1.5	4P	(3D)/4F	
197.4074	-3.616	21308.040	1.5	D7	(5D)/2D	71964.710	2.5	4P	(3D)/4D	199.1253	-2.110	16369.360	3.5	D7	(5D)/2D	66589.008	4.5	4P	(3G)/4H	
197.4155	-0.649	54283.220	3.5	D5S2(7S)/4G		104937.800	4.5	4S8S(3I)/4H		199.1534	-3.020	50187.813	3.5	D6S	(3F)/4F	100400.360	2.5	4S8S(3P)/2D		
197.4475	-2.172	20340.300	5.5	D7	(5D)/2H	70986.877	6.5	4P	(1I)/2K	199.1802	-2.214	22810.357	3.5	D6S	(3F)/4F	73016.147	3.5	4P	(1G)/2F	
197.4677	-3.167	36126.387	1.5	D6S	(3D)/2D	86767.577	2.5	4P	(3P)/4D	199.1876	-3.316	22939.358	2.5	D6S	(3F)/4F	73143.288	3.5	4P	(1G)/2G	
197.4717	-2.441	58631.531	4.5	D6S	(3H)/4H	109271.710	5.5	4S8S(3I)/2I		199.1924	-3.516	58666.258	3.5	D6S	(1G)/2G	108868.980	4.5	4S8S(3G)/4H		
197.4719	-5.591	21711.917	3.5	D6S	(3H)/4H	72352.024	3.5	4P	(3D)/4F	199.2527	-3.176	50212.826	2.5	D6S	(3P)/4D	100400.360	2.5	4S8S(3P)/2D		
197.5068	-4.386	16369.360	3.5	D7	(5D)/2G	67000.517	2.5	4P	(3F)/2D	199.2783	-3.628	21251.508	6.5	D6S	(3H)/4H	71432.680	7.5	4P	(1I)/2K	
197.5548	-1.482	15844.650	4.5	D7	(5D)/2G	66463.528	5.5	4P	(3G)/4H	199.2914	-3.639	58631.531	4.5	D6S	(1G)/2G	108868.980	4.5	4S8S(3G)/4H		
197.5595	-2.477	21812.055	1.5	D6S	(3P)/4P	72429.711	0.5	4P	(3D)/4D	199.3299	-2.408	15844.650	4.5	D7	(5D)/2G	66012.750	4.5	4P	(3G)/4F	
197.5772	-1.105	57578.484	0.5	D5S2(7S)/4P		108191.600	1.5	230DD		199.3438	-2.677	44915.046	3.5	D6S	(1F)/2F	73189.110	1.5	4P	(3D)/2P	
197.5777	-3.233	13474.411	2.5	D7	(5D)/4P	64087.418	2.5	4P	(3F)/4G	199.3697	-4.047	54870.528	2.5	D6S	(3F)/2F	105028.600	3.5	4S8S(3I)/4H		
197.6886	-2.174	54232.195	5.5	D5S2(7S)/4G		104816.800	5.5	4S8S(3I)/4H		199.3707	-2.811	23031.300	1.5	D6S	(3F)/4F	95079.640	3.5	4P	(3F)/2F	
197.7595	-2.401	13474.411	2.5	D7	(5D)/4P	64040.886	3.5	4P	(3F)/4G	199.3780	-2.236	48039.090	2.5	D7	(5D)/2D	98196.000	1.5	4S8S(5D)/4F		
197.8288	-0.742	21581.638	4.5	D6S	(3H)/4H	72130.390	4.5	4P	(1G)/2H	199.3910	-3.506	16369.360	3.5	D7	(5D)/2G	73187.280	0.5	4P	(3D)/2P	
197.8507	-0.589	54273.641	4.5	D5S2(7S)/4G		104816.800	5.5	4S8S(3I)/4H		199.3912	-2.099	21812.055	1.5	D6S	(3P)/4P	71964.710	2.5	4P	(3D)/4P	
197.8623	-5.446	18886.780	0.5	D7	(5D)/2P	69426.980	0.5	4S8S(5S)/4P		199.3922	-7.525	2430.097	3.5	D7	(5D)/4F	52582.510	3.5	4P	(3F)/2F	
197.8798	-9.932	2430.097	3.5	D7	(5D)/4F	52965.820	4.5	4S8S(7S)/8P		199.4014	-3.355	44929.550	2.5	D6S	(1F)/2F	95079.640	3.5	4P	(3F)/2F	
197.8919	-2.853	15844.650	4.5	D7	(5D)/2G	66377.283	3.5	4P	(3G)/4F	199.4772	-3.874	44915.046	3.5	D6S	(1F)/2F	95046.100	2.5	4P	(3F)/2F	
197.9156	-2.970	21711.917	3.5	D6S	(3H)/4H	72238.513	2.5	4P	(3D)/4F	199.4857	-0.010	103094.730	3.5	4S8S(7S)/8S		52965.820	4.5	4S8S(7S)/8P		
197.9364	-3.266	47674.721	1.5	D7	(5D)/2D	98196.000	1.5	4S8S(5D)/4F		199.4908	-3.671	25787.598	1.5	D6S	(3P)/2P	75915.215	2.5	4P	(3D)/2F	
197.9534	-3.207	27620.412	2.5	D6S	(3F)/2D	8137.364	3.5	4P	(1D)/2F	199.5119	-2.256	27620.412	2.5	D6S	(3F)/2P	77742.730	2.5	4P	(1D)/2F	
197.9623	-3.293	36252.918	2.5	D6S	(3D)/2D	86767.577	2.5	4P	(3P)/4D	199.5349	-2.712	44929.550	2.5	D6S	(1F)/2F	95046.100	2.5	4P	(3F)/2F	
197.9719	-0.104	103094.730	3.5	4S8S(7S)/8S		52582.510	3.5	4S8S(7S)/8P		199.5390	-2.955	22939.358	2.5	D6S	(3F)/4F	73054.881	2.5	4P	(1G)/2F	
197.9960	-1.860	22637.405	4.5	D6S	(3F)/4F	73143.288	3.5	4P	(1G)/2G	199.5624	-2.092	22409.852	0.5	D6S	(3P)/4P	75254.566	1.5	4P	(3D)/4D	
198.0325	-3.175	48039.090	2.5	D7	(5D)/2D	98535.850	3.5	4S8S(5D)/4F		199.5624	-3.032	44929.550	2.5	D6S	(1F)/2F	95039.200	1.5	4P	(3P)/2P	
198.1158	-2.651	57411.065	2.5	D5S2(7S)/4P		107886.600	3.5	200DD		199.5624	-3.032	44929.550	2.5	D6S	(1					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
199.9057	-3.103	23031.300	1.5	D6S (3F)4F	73054.881	2.5	4P (1G)2F	201.3662	-1.567	26932.748	0.5	D6S (3F)2P	76577.482	0.5	4P (1S)2P
199.9206	-4.464	22409.852	0.5	D6S (3P)4F	72429.711	0.5	4P (3D)4D	201.3716	-6.520	16369.360	3.5	D7 (5D)2G	66012.750	4.5	4P (3G)4F
199.9370	-4.649	58631.531	4.5	D6S (1G)2C	108631.090	3.5	4SP(3G)4G	201.4131	-2.407	22409.852	0.5	D6S (3P)4P	72043.026	1.5	4P (3D)4P
199.9413	-1.217	22637.205	4.5	D6S (3F)4F	72651.876	3.5	4P (3D)4D	201.4482	-3.184	22637.205	4.5	D6S (3F)4F	72261.729	3.5	4P (1G)2H
199.9462	-1.351	22637.205	4.5	D6S (3F)4F	72650.658	4.5	4P (3D)4D	201.4642	-3.274	50187.813	3.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G
199.9683	-2.924	16369.360	3.5	D7 (5D)2G	66377.283	3.5	4P (3G)4F	201.4694	-3.524	25981.629	3.5	D6S (3G)4G	75600.931	3.5	4P (3D)2F
199.9724	-2.445	13474.411	2.5	D7 (5D)4P	63465.109	1.5	4P (3F)4D	201.5167	-3.950	58631.531	4.5	D6S (1G)2G	108239.200	3.5	240DD
199.9730	-1.289	20516.960	2.5	D7 (5D)2D	70523.706	3.5	4P (3G)2G	201.5487	-0.994	13673.185	1.5	D7 (5D)4P	63272.976	2.5	4P (3F)4D
200.0380	-0.161	20340.300	5.5	D7 (5D)2H	70314.604	4.5	4P (3G)2G	201.5492	-4.508	50157.452	4.5	D6S (3F)4F	99757.120	4.5	4P (1G)2G
200.0760	-4.177	58666.258	3.5	D6S (1G)2C	108631.090	3.5	4SP(3G)4G	201.5958	-3.796	23031.300	1.5	D6S (3F)4F	72619.490	2.5	4P (3D)4D
200.0833	-4.184	58666.258	3.5	D6S (1G)2C	108629.250	2.5	4SP(3G)4G	201.6080	-1.337	22939.358	2.5	D6S (3F)4F	72524.366	1.5	4P (3D)4D
200.1793	-4.156	58631.531	4.5	D6S (1G)2C	108570.560	4.5	4SP(3G)4G	201.6579	-4.389	58666.258	3.5	D6S (1G)2G	108239.200	3.5	240DD
200.2012	-5.238	25981.629	3.5	D6S (3G)4G	75915.215	2.5	4P (3D)2F	201.6726	-3.276	50187.813	3.5	D6S (3F)4F	99757.120	4.5	4P (1G)2G
200.3089	-3.669	49100.976	0.5	D6S (3P)4F	99007.700	0.5	4SP(5D)4D	201.7025	-2.407	16369.360	3.5	D7 (5D)2G	65931.334	3.5	4P (3G)4G
200.3187	-3.277	58666.258	3.5	D6S (1G)2C	108570.560	4.5	4SP(3G)4G	201.7094	-1.365	13904.824	0.5	D7 (5D)4P	63465.109	1.5	4P (3F)4D
200.3198	-1.332	54063.459	0.5	D6S (3P)2P	103967.490	0.5	4SP(3P)2S	201.7255	-4.449	21430.359	5.5	D6S (3H)4H	70986.677	6.5	4P (1I)2K
200.3910	-2.159	13673.185	1.5	D7 (5D)4P	63559.488	0.5	4P (3F)4D	201.7695	-4.608	26055.423	2.5	D6S (3G)4G	75600.931	3.5	4P (3D)2F
200.4505	-7.219	23317.633	2.5	D5S2(7S)6S	73189.110	1.5	4P (3D)2P	201.7852	-1.408	22810.357	3.5	D6S (3F)4F	72352.024	3.5	4P (3D)4F
200.4593	-7.200	2430.097	3.5	D7 (5D)4F	52299.390	2.5	4SP(7S)8P	201.8778	-0.909	15844.650	4.5	D7 (5D)2G	65363.595	5.5	4P (3H)2H
200.4975	-3.651	26055.423	2.5	D6S (3G)4G	75915.215	2.5	4P (3D)2F	201.9190	-2.663	20805.770	4.5	D7 (5D)2H	70314.604	4.5	4P (3G)2G
200.5275	-2.810	58631.531	4.5	D6S (1G)2C	108483.870	5.5	4SP(3G)4G	201.9519	-4.384	49506.934	1.5	D6S (3F)4P	99007.700	0.5	4SP(5D)4D
200.5313	-3.237	15844.650	4.5	D7 (5D)2G	65696.038	4.5	4P (3G)4G	201.9723	-3.264	50157.452	4.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G
200.5710	-3.405	22810.357	3.5	D6S (3F)4F	72651.876	3.5	4P (3D)4D	201.9825	-2.092	23031.300	1.5	D6S (3F)4F	72524.366	1.5	4P (3D)4D
200.5759	-2.298	22810.357	3.5	D6S (3F)4F	72650.658	4.5	4P (3D)4F	201.9829	-6.586	22637.205	4.5	D6S (3F)4F	72130.390	4.5	4P (1G)2H
200.5820	-3.564	33466.463	4.5	D6S (1G)2C	83305.251	3.5	4P (1F)2G	201.9847	-4.433	50142.786	2.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G
200.6349	-5.303	23317.633	2.5	D5S2(7S)6S	73143.288	3.5	4P (1G)2G	202.0049	-4.213	13474.411	2.5	D7 (5D)4P	62945.038	3.5	4P (3F)4D
200.7045	-1.051	22810.357	3.5	D6S (3F)4F	72619.490	2.5	4P (3D)4D	202.0750	-0.801	13474.411	2.5	D7 (5D)4P	62945.038	3.5	4P (3F)4D
200.7222	-2.156	33501.253	3.5	D6S (1G)2C	83305.251	3.5	4P (1F)2G	202.0963	-2.887	50187.813	3.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G
200.7257	-2.552	22409.852	0.5	D6S (3P)4F	72212.978	0.5	4P (3D)4P	202.1007	-3.758	58666.258	3.5	D6S (1G)2G	108130.600	2.5	200DD
200.7441	-1.475	13474.411	2.5	D7 (5D)4F	63272.976	2.5	4P (3F)4D	202.1125	-7.962	2837.950	2.5	D7 (5D)4F	52299.390	2.5	4SP(7S)8P
200.7560	-5.241	25805.328	4.5	D6S (3G)4G	75600.931	3.5	4P (3D)2F	202.1506	-2.425	57411.065	2.5	D5S2(7S)4P	106863.200	3.5	160DD
200.7708	-1.323	13673.185	1.5	D7 (5D)4P	63465.109	1.5	4P (3F)4D	202.1687	-3.520	50187.813	3.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G
200.7963	-2.623	44915.046	3.5	D6S (1F)2F	94700.660	2.5	4P (3F)4D	202.2486	-2.540	22810.357	3.5	D6S (3F)4F	72238.513	2.5	4P (3D)4F
200.7982	-1.797	57411.065	2.5	D5S2(7S)4P	107196.200	2.5	180DD	202.3120	-2.176	22939.358	2.5	D6S (3F)4F	72352.024	3.5	4P (3D)4F
200.8548	-2.781	44929.550	2.5	D6S (1F)2F	94700.660	2.5	4P (3F)2D	202.3704	-1.581	23031.300	1.5	D6S (3F)4F	72429.711	0.5	4P (3D)4D
200.8591	-4.349	44915.046	3.5	D6S (1F)2F	94685.090	2.5	4SP(5D)6P	202.3818	-2.736	60384.370	1.5	D5S2(7S)4D	109780.000	1.5	280DD
200.9031	-3.635	22409.852	0.5	D6S (3P)4F	72168.998	1.5	4P (3D)4F	202.4614	-1.856	60441.033	1.5	D5S2(7S)4D	109780.000	1.5	280DD
200.9177	-4.527	44929.550	2.5	D6S (1F)2F	94685.090	2.5	4SP(5D)6P	202.6317	-1.784	60445.275	2.5	D5S2(7S)4D	109780.000	1.5	280DD
200.9217	-1.144	57411.065	2.5	D5S2(7S)4P	107163.600	3.5	170DD	202.6337	-5.303	23317.633	2.5	D5S2(7S)6S	72651.876	3.5	4P (3D)4D
200.9420	-8.927	2837.950	2.5	D7 (5D)4F	52582.510	3.5	4SP(7S)8P	202.6381	-3.731	58631.531	4.5	D6S (1G)2G	107964.700	4.5	210DD
200.9713	-4.865	58631.531	4.5	D6S (1G)2C	108373.800	3.5	260DD	202.6693	-3.885	16369.360	3.5	D7 (5D)2G	65696.038	4.5	4P (3G)4G
200.9916	-6.427	15844.650	4.5	D7 (5D)2G	73054.881	2.5	4P (3G)4G	202.6648	-2.470	87985.628	2.5	4D (5D)4P	38660.043	3.5	4P (5D)6D
200.9991	-1.016	15844.650	4.5	D7 (5D)2G	65580.041	5.5	4P (3G)4G	202.6921	-3.976	22810.357	3.5	D6S (3F)4F	72130.390	4.5	4P (1G)2H
201.0004	-6.538	21251.608	6.5	D6S (3H)4H	70986.677	6.5	4P (1I)2K	202.7668	-5.965	23317.633	2.5	D5S2(7S)6S	72619.490	2.5	4P (3D)4D
201.0697	-0.332	20805.770	4.5	D7 (5D)2H	70523.706	3.5	4P (3G)2G	202.7779	-1.486	22939.358	2.5	D6S (3F)4F	72238.513	2.5	4P (3D)4F
201.0823	-3.213	22637.205	4.5	D6S (3F)4F	72352.024	3.5	4P (3D)4F	202.7809	-3.362	58666.258	3.5	D6S (1G)2G	107964.700	4.5	210DD
201.0916	-2.846	22939.358	2.5	D6S (3F)4F	72651.876	3.5	4P (3D)4D	202.7820	-3.917	88157.116	1.5	4D (5D)4P	38858.958	2.5	4P (5D)6D
201.0952	-1.636	15844.650	4.5	D7 (5D)2G	65556.280	4.5	4P (3H)2H	202.8196	-2.773	13673.185	1.5	D7 (5D)4P	62962.205	1.5	4P (3F)4D
201.1062	-2.323	16369.360	3.5	D7 (5D)2G	66078.269	2.5	4P (3G)4G	202.8272	-3.202	48039.090	2.5	D7 (5D)2D	97326.270	1.5	4SP(3F)2P
201.1117	-3.948	58666.258	3.5	D6S (1G)2C	108373.800	3.5	260DD	202.9184	-1.638	15844.650	4.5	D7 (5D)2D	65109.679	3.5	4P (3F)2G
201.1306	-1.378	57493.321	1.5	D5S2(7S)4P	107196.200	2.5	180DD	202.9259	-3.083	49506.934	1.5	D6S (3F)4P	98770.140	1.5	4SP(5D)4D
201.1483	-4.694	23317.633	2.5	D5S2(7S)6S	73016.147	3.5	4P (1G)2F	202.9595	-4.219	58631.531	4.5	D6S (1G)2G	107886.600	3.5	200DD
201.1701	-3.737	20830.582	2.5	D6S (3P)4F	70523.706	3.5	4P (3G)2G	202.9879	-3.895	26332.766	4.5	D6S (3H)2H	75600.931	3.5	4P (3D)2F
201.2227	-1.982	22939.358	2.5	D6S (3F)4F	72619.490	2.5	4P (3D)4D	203.0327	-1.544	49100.976	0.5	D6S (3F)4P	98338.280	1.5	4SP(5F)4S
201.2671	-2.485	49100.976	0.5	D6S (3P)4F	98770.140	1.5	4SP(5D)4D	203.0485	-2.820	44915.046	3.5	D6S (1F)2F	94148.510	4.5	4SP(5G)4G
201.2815	-3.445	50142.786	2.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G	203.0643	-3.324	22939.358	2.5	D6S (3F)4F	72168.998	1.5	4P (3D)4F
201.3259	-1.412	13904.824	0.5	D7 (5D)4P	63559.488	0.5	4P (3F)4D	203.1027	-3.884	58666.258	3.5	D6S (1G)2G	107886.600	3.5	200DD
201.3385	-3.748	47674.721	1.5	D7 (5D)2D	97326.270	1.5	4SP(3F)2P	203.1228	-3.835	13474.411	2.5	D7 (5D)4P	62689.880	2.5	4P (3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
206.5642	-2.798	60384.370	0.5	D5S2(7S)4D	108780.000	1.5	270DD	207.5497	-4.490	54283.220	3.5	D5S2(7S)4G	102449.100	2.5	4SP(3D)2D
206.5752	-2.108	50142.786	2.5	D6S (3F)4F	98535.850	3.5	4SP(5D)4F	207.5559	-3.551	25803.328	4.5	D6S (3G)4G	73969.767	5.5	4P (11)2I
206.6009	-1.094	18986.780	0.5	D7 (5D)2F	67273.826	1.5	4P (3F)2D	207.5679	-1.905	18360.646	1.5	D7 (5D)2P	66522.304	2.5	4P (3C)4F
206.6169	-2.537	38164.194	2.5	D6S (1D)2D	86547.490	2.5	4P (1F)2D	207.5740	-1.252	50212.826	2.5	D6S (3F)4F	98328.280	1.5	4SP(5P)4S
206.6378	-2.350	50157.452	4.5	D6S (3F)4F	98535.850	3.5	4SP(5D)4F	207.7419	-4.382	50157.452	4.5	D6S (3F)4F	98278.770	5.5	4P (1G)2H
206.6487	-6.287	13673.185	1.5	D7 (5D)4F	62049.025	2.5	4SP(7S)0F	207.7472	-1.570	50075.910	1.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F
206.6531	-2.555	58631.531	4.5	D6S (3F)4F	107006.350	4.5	4SP(3I)2H	207.7522	-5.961	21308.040	1.5	D7 (5D)2D	69426.980	0.5	4SP(5S)4P
206.7065	-1.521	50142.786	2.5	D6S (3F)4F	108631.090	3.5	4SP(3G)4G	207.8042	-2.686	36252.918	2.5	D6S (3D)2D	84359.800	1.5	4P (1F)2D
206.7132	-2.758	60270.339	3.5	D5S2(7S)4D	108629.250	2.5	4SP(3G)4G	207.8161	-1.957	15844.650	4.5	D7 (5D)2G	63948.790	4.5	4P (3F)4G
206.7211	-3.226	60270.339	3.5	D5S2(7S)4D	108629.250	2.5	4SP(3G)4G	207.8643	-3.980	47674.721	1.5	D7 (5D)2D	95767.700	4.5	4SP(5P)4D
206.7915	-0.637	21308.040	1.5	D7 (5D)2D	98535.850	3.5	4SP(3G)4G	207.9632	-4.190	13904.824	0.5	D7 (5D)4F	61974.933	1.5	4SP(7S)6P
206.8016	-1.000	58666.258	3.5	D6S (1G)2G	69650.484	2.5	4P (3G)2F	207.9781	-4.007	54273.641	4.5	D5S2(7S)4G	102340.300	5.5	4SP(3I)4K
206.8033	-2.665	13904.824	0.5	D7 (5D)4F	107006.350	4.5	4SP(3I)2H	208.0129	-0.903	58631.531	4.5	D6S (1G)2G	106690.170	5.5	4SP(3I)2H
206.8064	-2.603	60441.033	1.5	D5S2(7S)4D	62244.320	1.5	4P (3F)4F	208.0241	-1.254	16369.360	3.5	D7 (5D)2G	64425.408	2.5	4P (3F)2F
206.8245	-2.124	60445.275	2.5	D5S2(7S)4D	108780.000	1.5	270DD	208.0363	-2.359	50142.786	2.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F
206.8320	-1.626	38214.507	1.5	D6S (1D)2D	108780.000	1.5	270DD	208.0621	-4.398	54904.222	3.5	D6S (3F)2F	102951.500	4.5	4SP(3I)4I
206.8471	-4.651	38214.507	1.5	D6S (1D)2D	86547.490	2.5	4P (1F)2F	208.1297	-2.928	15844.650	4.5	D7 (5D)2G	98376.317	5.5	4P (3F)4G
206.8746	-2.864	50212.826	2.5	D6S (3P)4F	98535.850	3.5	4SP(5D)4F	208.1590	-4.674	21581.638	4.5	D6S (3H)4H	69606.552	3.5	4P (3G)2F
206.8769	-3.290	25428.784	5.5	D6S (3G)4G	95995.690	2.5	4SP(5P)4D	208.1662	-3.985	108648.695	6.5	5S (1I)2I	60625.449	5.5	4P (3H)4G
206.8834	-3.585	47674.721	1.5	D7 (5D)2D	73751.282	4.5	4P (1I)2H	208.2781	-3.234	108804.667	3.5	5S (3D)4D	60807.230	4.5	4P (3H)4G
206.8938	-1.470	38164.194	2.5	D6S (1D)2D	95995.690	2.5	4SP(5P)4D	208.2928	-5.524	21308.040	1.5	D7 (5D)2D	69302.090	1.5	4SP(5S)4P
206.8967	-1.478	48039.090	2.5	D7 (5D)2D	86482.750	3.5	4P (1F)2F	208.3220	-2.119	60384.370	0.5	D5S2(7S)4D	108371.700	1.5	250DD
206.9168	-2.678	54870.528	2.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	208.3358	-2.448	44915.046	3.5	D6S (1F)2F	92899.200	2.5	4P (3F)4D
206.9658	-3.794	13673.185	1.5	D7 (5D)4F	103183.700	3.5	4SP(3D)2F	208.3401	-3.211	50212.826	2.5	D6S (3F)4F	98196.000	1.5	4SP(5I)4F
206.9723	-2.186	60270.339	3.5	D5S2(7S)4D	61974.933	1.5	4SP(7S)0F	208.3516	-2.587	27620.412	2.5	D6S (3F)2F	75600.931	3.5	4P (3D)2F
206.9955	-1.319	27620.412	2.5	D6S (3F)2F	108570.560	4.5	4SP(3G)4G	208.3988	-4.390	44929.550	2.5	D6S (1F)2F	92899.200	2.5	4P (3F)4D
207.0064	-3.285	50212.826	2.5	D6S (3F)2F	75915.215	2.5	4P (3D)2F	208.4022	-2.313	60270.339	3.5	D5S2(7S)4D	108239.200	3.5	240DD
207.0332	-1.176	27314.922	3.5	D6S (3F)2F	98505.100	2.5	4SP(5D)4F	208.4522	-4.161	86416.333	3.5	4D (5D)4F	38438.981	4.5	4P (5D)6D
207.0613	-1.287	54904.222	3.5	D6S (3F)2F	75600.931	3.5	4P (3D)2F	208.4555	-3.916	48039.090	2.5	D7 (5D)2D	95995.690	2.5	4SP(5P)4D
207.0644	-2.704	50075.910	1.5	D6S (3F)4F	103183.700	3.5	4SP(3D)2F	208.5018	-2.344	25805.738	4.5	D6S (3G)4G	73751.282	4.5	4P (1I)2H
207.1347	-4.853	50075.910	1.5	D6S (3F)4F	98338.280	1.5	4SP(5P)4S	208.5290	-4.282	86599.738	2.5	D6S (3H)4H	69650.484	2.5	4P (3G)2F
207.1791	-2.128	18360.646	1.5	D7 (5D)2P	69102.380	2.5	4SP(5D)4F	208.5868	-2.588	60441.033	1.5	D5S2(7S)4D	108371.700	1.5	250DD
207.1806	-2.393	13474.411	2.5	D7 (5D)4F	61726.077	3.5	4P (3P)4D	208.5871	-2.020	30764.485	3.5	D6S (3G)2G	78690.846	2.5	4P (1D)2D
207.1940	-2.917	50142.786	2.5	D6S (3F)4F	98391.330	3.5	4SP(3G)4G	208.6279	-3.576	16369.360	3.5	D7 (5D)2G	64286.345	3.5	4P (3F)2F
207.2290	-2.980	48039.090	2.5	D7 (5D)2D	96279.490	2.5	4SP(3G)2F	208.7252	-4.931	21711.917	3.5	D6S (3H)4H	69606.552	3.5	4P (3G)2F
207.2570	-2.411	50157.452	4.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4D	208.7541	-0.674	18360.646	1.5	D7 (5D)2P	66248.660	0.5	4P (3F)2S
207.2590	-1.487	36126.387	1.5	D6S (3D)2D	84359.800	1.5	4P (1F)2D	208.7607	-4.821	22637.205	4.5	D6S (3F)4F	70523.706	3.5	4P (3G)2G
207.2665	-4.278	58631.531	4.5	D6S (1G)2G	108863.200	3.5	160DD	208.7927	-3.385	31364.440	1.5	D6S (3D)4D	79243.600	1.5	4P (1D)2P
207.2816	-4.042	54275.637	2.5	D5S2(7S)4G	102503.810	1.5	4SP(3D)2D	208.8102	-4.408	31368.450	0.5	D6S (3D)4D	79243.600	1.5	4P (1D)2P
207.2939	-2.085	49100.976	0.5	D6S (3P)4F	97326.270	1.5	4SP(3P)2P	208.8752	-2.315	60270.339	3.5	D5S2(7S)4D	108130.600	2.5	220DD
207.3134	-2.136	13904.824	0.5	D7 (5D)4F	62125.600	1.5	4P (3P)2D	208.8835	-3.355	13474.411	2.5	D7 (5D)4P	61332.764	1.5	4P (3P)4P
207.3388	-2.740	44915.046	3.5	D6S (1F)2F	93129.900	3.5	4P (3F)4D	208.8953	-4.389	31387.948	2.5	D6S (3D)4D	79243.600	1.5	4P (1D)2P
207.3516	-2.048	50142.786	2.5	D6S (3F)4F	98354.660	2.5	4SP(5D)4F	208.9118	-4.693	86710.837	1.5	D4 (5D)4F	38858.958	2.5	4P (5D)6D
207.3876	-2.003	50187.813	3.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4D	208.9292	-4.141	108804.667	3.5	5S (3D)4D	60956.781	3.5	4P (3H)4G
207.4189	-1.359	15844.650	4.5	D7 (5D)2G	64040.886	3.5	4P (3F)4G	208.9705	-4.665	21812.055	1.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F
207.4221	-3.227	50142.786	2.5	D6S (3F)4F	98338.280	1.5	4SP(5P)4S	208.9740	-1.998	49506.934	1.5	D6S (3P)4P	97326.270	1.5	4SP(3P)2P
207.4534	-2.942	60441.033	1.5	D5S2(7S)4D	108629.250	2.5	4SP(3G)4G	209.0540	-3.990	48039.090	2.5	D7 (5D)2D	95838.050	1.5	4SP(5P)4D
207.4638	-2.426	60445.275	2.5	D5S2(7S)4D	108631.090	3.5	4SP(3G)4G	209.0556	-3.990	48039.090	2.5	D7 (5D)2D	95838.050	1.5	4SP(5P)4D
207.4717	-3.478	60445.275	2.5	D5S2(7S)4D	108629.250	2.5	4SP(3G)4G	209.0899	-4.860	108804.667	3.5	5S (3D)4D	60989.444	4.5	4P (3H)4H
207.4745	-3.880	47674.721	1.5	D7 (5D)2D	95858.050	1.5	4SP(5P)4D	209.1069	-3.909	60384.370	0.5	D5S2(7S)4D	108191.600	1.5	230DD
207.4953	-2.681	50212.826	2.5	D6S (3P)4F	98391.330	3.5	4SP(5D)4D	209.1403	-1.897	26170.181	5.5	D6S (3H)2H	73969.767	5.5	4P (1I)2I
207.4960	-3.736	48039.090	2.5	D7 (5D)2D	96217.420	3.5	4SP(5P)4D	209.1465	-6.077	25803.328	4.5	D6S (3G)4G	73603.500	5.5	4P (1I)2H
207.5116	-1.759	25428.784	5.5	D6S (3G)4G	73603.500	5.5	4P (1I)2H	209.1532	-2.125	26170.181	5.5	D6S (3H)2H	73966.832	6.5	4P (1I)2I
207.5170	-4.886	54275.637	2.5	D5S2(7S)4G	102449.100	2.5	4SP(3D)2D	209.1633	-6.375	21308.040	1.5	D7 (5D)2D	69102.380	2.5	4SP(5S)4P
207.5455	-2.050	50187.813	3.5	D6S (3F)4F	98354.660	2.5	4SP(5D)4F	209.1651	-1.832	60445.275	2.5	D5S2(7S)4D	108239.200	3.5	240DD
								209.2246	-1.201	44915.046	3.5	D6S (1F)2F	92695.374	2.5	4P (3P)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
209.2714	-7.865	25981.629	3.5	D6S (3G)4G	73751.282	4.5	4P (11)2H	210.7555	-0.710	26170.181	5.5	D6S (3H)2H	73603.500	5.5	4P (11)2H
209.2882	-3.119	44929.550	2.5	D6S (1F)2F	92695.374	2.5	4P (3P)2D	210.7623	-2.430	31811.822	2.5	D7 (5D)2F	79243.600	1.5	4P (1D)2P
209.3009	-4.348	108804.667	3.5	5S (3D)4D	61041.748	2.5	4P (3H)4G	210.7744	-2.064	44929.550	2.5	D6S (1F)2F	92358.610	1.5	4SP(5G)4F
209.3089	-3.695	108648.695	6.5	5S (11)2I	60887.598	5.5	4P (3H)4H	210.7794	-2.162	13904.824	0.5	D7 (5D)4P	61332.764	1.5	4P (3P)4P
209.3300	-3.369	86416.333	3.5	4D (5D)4F	38660.043	3.5	4P (5D)6D	210.8137	-2.015	13673.185	1.5	D7 (5D)4P	61093.413	2.5	4P (3P)2D
209.3551	-3.012	60441.033	1.5	D5S2(7S)4D	108191.600	1.5	230DD	210.8376	-2.133	44915.046	3.5	D6S (1F)2F	92329.890	2.5	4SP(5G)4F
209.3627	-0.982	30388.542	4.5	D6S (3G)2G	78137.364	3.5	4P (1D)2F	210.8405	-3.672	109445.220	2.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.3737	-2.261	60445.275	2.5	D5S2(7S)4D	108191.600	1.5	230DD	210.8759	-3.197	109445.220	2.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.3924	-2.598	36126.387	1.5	D6S (3D)2D	83868.450	2.5	4P (1F)2D	210.8969	-2.056	25787.598	1.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P
209.3980	-3.924	86599.738	2.5	4D (5D)4F	38858.958	2.5	4P (5D)6D	210.9014	-3.054	109449.530	1.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.4634	-2.010	18886.780	0.5	D7 (5D)2P	66612.656	1.5	4P (3G)4F	210.9021	-3.271	44929.550	2.5	D6S (1F)2F	92329.890	2.5	4SP(5G)4F
209.4977	-1.449	16369.360	3.5	D7 (5D)2G	64087.418	2.5	4P (3F)4G	210.9050	-2.469	25787.598	1.5	D6S (3H)2H	73187.280	0.5	4P (11)2H
209.4981	-2.841	44929.550	2.5	D6S (1F)2F	92647.510	1.5	4P (3F)4D	210.9102	-0.746	26352.766	4.5	D6S (3E)2H	73751.282	4.5	4P (11)2H
209.4996	-2.736	18360.646	1.5	D7 (5D)2P	66078.269	2.5	4P (3G)4G	210.9461	-6.361	21711.917	3.5	D6S (3H)4H	69102.380	2.5	4SP(5S)4P
209.5184	-3.431	22810.357	3.5	D6S (3F)4F	70523.706	3.5	4P (3G)2G	211.0244	-2.696	30764.485	3.5	D6S (3G)2G	78137.364	3.5	4P (1D)2F
209.5276	-3.830	108804.667	3.5	5S (3D)4D	61093.413	2.5	4P (3P)2D	211.0311	-0.848	47674.721	1.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F
209.5874	-4.754	86710.837	1.5	4D (5D)4F	39013.206	1.5	4P (5D)6D	211.0436	-2.937	13673.185	1.5	D7 (5D)4P	61041.748	2.5	4P (3H)4G
209.6018	-1.528	60270.339	3.5	D5S2(7S)4D	108130.600	2.5	220DD	211.0487	-2.904	44915.046	3.5	D6S (1F)2F	92282.460	3.5	4SP(5G)4F
209.6229	-2.295	60441.033	1.5	D5S2(7S)4D	92602.703	3.5	4P (3F)2G	211.0724	-1.869	13673.185	1.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F
209.6313	-3.369	44915.046	3.5	D6S (1F)2F	108130.600	2.5	220DD	211.0734	-1.002	18886.780	0.5	D7 (5D)2P	66248.660	0.5	4P (3P)2S
209.6415	-2.386	60445.275	2.5	D5S2(7S)4D	92602.703	3.5	4P (3F)2G	211.0859	-2.346	44915.046	3.5	D6S (1F)2F	92274.120	2.5	4P (3P)4P
209.6543	-3.269	13474.411	2.5	D7 (5D)4P	61156.835	3.5	4P (3H)4H	211.1134	-1.642	44929.550	2.5	D6S (1F)2F	92282.460	3.5	4SP(5G)4F
209.6764	-3.674	22637.205	4.5	D6S (3F)4F	70314.604	3.5	4P (3G)2G	211.1506	-4.569	44929.550	2.5	D6S (1F)2F	92274.120	2.5	4P (3P)4P
209.6951	-1.373	44929.550	2.5	D6S (1F)2F	92602.703	3.5	4P (3F)4G	211.1758	-4.603	54063.459	0.5	D6S (3P)2P	101402.380	0.5	4SP(5D)4P
209.7022	-1.943	16369.360	3.5	D7 (5D)2G	64040.886	3.5	4P (3F)4G	211.1801	-2.053	25805.328	4.5	D6S (3G)4G	73143.288	3.5	4P (1G)2G
209.7295	-2.780	86124.301	4.5	4D (5D)4F	38458.981	4.5	4P (5D)6D	211.2316	-4.490	31364.440	1.5	D6S (3G)4D	78690.846	2.5	4P (1D)2D
209.7406	-1.259	25428.784	5.5	D6S (3G)4G	73091.590	4.5	4P (1G)2G	211.3405	-2.891	109473.650	4.5	4SD(7S)8D	62171.615	3.5	4SP(7S)6P
209.7508	-1.280	20340.300	5.5	D7 (5D)2H	68000.788	4.5	4P (3G)2H	211.3675	-3.074	44929.550	2.5	D6S (1F)2F	92225.538	1.5	5P (5D)4P
209.7548	-1.695	13673.185	1.5	D7 (5D)4P	61332.764	1.5	4P (3P)4P	211.3852	-2.700	108804.667	3.5	5S (3D)4D	61512.634	4.5	4P (3H)4I
209.8367	-3.899	108630.429	5.5	5S (11)2I	60989.444	4.5	4P (3H)4H	211.3857	-1.882	27314.922	3.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D
209.8706	-3.957	54870.528	2.5	D6S (3P)2F	102503.810	1.5	4SP(3D)2D	211.3871	-2.866	109463.220	3.5	4SD(7S)8D	62171.615	3.5	4SP(7S)6P
209.9336	-3.739	13474.411	2.5	D7 (5D)4P	61093.413	2.5	4P (3P)2D	211.3928	-3.811	44915.046	3.5	D6S (3P)4P	69102.380	2.5	4SP(5S)4P
209.9400	-4.628	57411.065	2.5	D5S2(7S)4P	105028.600	3.5	4SP(31)4H	211.4087	-1.330	44929.550	2.5	D6S (1F)2F	92216.320	1.5	4P (1G)2F
209.9456	-2.560	26352.766	4.5	D6S (3H)2H	73969.767	5.5	4P (11)2I	211.4110	-2.211	25805.328	4.5	D6S (3G)4G	73091.590	4.5	4P (1G)2G
209.9489	-1.546	36252.918	2.5	D6S (3D)2D	83868.450	2.5	4P (1F)2D	211.4227	-3.169	109445.220	2.5	4SD(7S)8D	62171.615	3.5	4SP(7S)6P
209.9515	-4.113	21812.055	1.5	D6S (3P)4P	69426.980	0.5	4SP(5S)4P	211.4959	-4.007	25787.598	1.5	D6S (3P)2P	73054.881	2.5	4P (1G)2F
210.0108	-3.358	54902.315	1.5	D6S (3P)2P	102449.100	2.5	4SP(3D)2D	211.5434	-1.125	44915.046	3.5	D6S (1F)2F	92171.716	4.5	4P (3F)2G
210.0768	-4.172	86599.738	2.5	D6S (3H)2H	39013.206	1.5	4P (5D)6D	211.5700	-2.959	26352.766	4.5	D6S (3H)2H	73603.500	5.5	4P (11)2H
210.0865	-4.685	22939.358	2.5	D6S (3F)4F	70523.706	3.5	4P (3G)2G	211.5716	-3.834	50075.910	1.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2P
210.1008	-2.203	26170.181	5.5	D6S (3H)2H	73751.282	4.5	4P (11)2H	211.6870	-4.177	44929.550	2.5	D6S (1F)2F	92154.165	3.5	4SP(5D)6F
210.1082	-7.033	16369.360	3.5	D7 (5D)2G	63948.790	4.5	4P (3F)4G	211.6993	-0.824	25428.784	5.5	D6S (3G)4G	72630.658	4.5	4P (3D)4F
210.1120	-3.407	54870.528	2.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	211.7489	-3.349	25805.328	4.5	D6S (3G)4G	73016.147	3.5	4P (1G)2F
210.1616	-4.396	13474.411	2.5	D7 (5D)4P	61041.748	2.5	4P (3H)4G	211.7630	-3.494	31483.176	3.5	D6S (3D)4D	78690.846	2.5	4P (1D)2D
210.1706	-1.756	26932.748	0.5	D6S (3P)2P	74498.057	1.5	4P (3D)2D	211.7701	-7.820	23317.633	2.5	D5S2(7S)6S	70523.706	3.5	4P (3G)2G
210.2056	-3.540	86416.333	3.5	4D (5D)4F	38858.958	2.5	4P (5D)6D	211.7704	-3.466	47674.721	1.5	D7 (5D)2D	94880.740	0.5	4SP(5P)4F
210.2525	-1.798	54902.315	1.5	D6S (3P)2P	102449.100	2.5	4SP(3D)2D	211.7896	-2.157	44915.046	3.5	D6S (1F)2F	92171.716	4.5	4P (3F)2G
210.2609	-2.887	54904.222	3.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	211.8198	-1.539	20805.770	4.5	D7 (5D)2H	68000.788	4.5	4P (3G)2H
210.4067	-2.233	44915.046	3.5	D6S (1F)2F	92426.980	4.5	4SP(5G)4F	211.8715	-3.724	50142.786	2.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2P
210.4408	-3.770	22810.357	3.5	D6S (3F)4F	70314.604	3.5	4P (3G)2G	211.9050	-1.336	20340.300	5.5	D7 (5D)2H	67516.332	5.5	4P (3G)2H
210.5037	-6.930	21812.055	1.5	D6S (3P)4P	69302.090	1.5	4SP(5S)4P	211.9696	-3.016	25981.629	3.5	D6S (3G)4G	73143.288	3.5	4P (1G)2G
210.5377	-4.717	13474.411	2.5	D7 (5D)4P	60956.781	3.5	4P (3H)4G	211.9784	-3.350	44929.550	2.5	D6S (1F)2F	92089.260	3.5	4SP(5G)4H
210.5468	-4.710	109455.250	2.5	4SD(7S)8D	61974.933	1.5	4SP(7S)6P	212.0954	-4.548	26055.423	2.5	D6S (3G)4G	73189.110	1.5	4P (3D)2P
210.5592	-3.721	31364.440	1.5	D6S (3D)4D	78841.960	0.5	4P (1D)2P	212.1009	-3.314	37227.326	0.5	D6S (1S)2S	84359.800	1.5	4P (1F)2D
210.5722	-4.893	109449.530	1.5	4SD(7S)8D	61974.933	1.5	4SP(7S)6P	212.1099	-2.879	13904.824	0.5	D7 (5D)4P	61035.287	0.5	4P (3P)4P
210.5770	-3.122	31368.450	0.5	D6S (3D)4D	78841.960	0.5	4P (1D)2P	212.1448	-3.640	31364.440	1.5	D6S (3D)4D	78487.153	1.5	4P (1D)2D
210.6181	-3.058	86124.301	4.5	4D (5D)4F	38660.043	3.5	4P (5D)6D	212.1522	-3.271	108648.695	6.5	5S (11)2I	61527.616	6.5	4P (3H)4I
210.7199	-1.471	60445.275	2.5	D5S2(7S)4D	107886.600	3.5	200DD	212.1629	-3.512	31368.450	0.5	D6S (3D)4D	78487.153	1.5	4P (1D)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
212.1866	-2.002	50212.826	2.5	D6S (3P)4P	97326.270	1.5	4SP(3P)2P	-4.096	22939.358	2.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F
212.2022	-2.953	25981.629	3.5	D6S (3G)4G	73091.590	4.5	4P (1G)2G	-2.346	20805.770	4.5	D7 (5D)2H	67516.332	5.5	4P (3G)2H
212.2454	-2.209	15844.650	4.5	D7 (5D)2G	62945.038	3.5	4P (3F)4D	-4.797	54870.528	2.5	D6S (3F)2F	101573.900	1.5	4SP(5D)4P
212.3018	-3.308	26055.423	2.5	D6S (3G)4G	73143.288	3.5	4P (1G)2G	-3.885	25428.784	2.5	D6S (3G)4G	72130.390	4.5	4P (1G)2H
212.3437	-2.825	108804.667	3.5	5S (3D)4D	61726.077	3.5	4P (3P)4D	-3.133	48039.090	2.5	D7 (5D)2D	94739.170	1.5	4SP(5P)4P
212.3677	-3.312	25981.629	3.5	D6S (3G)4G	73054.881	2.5	4P (1G)2F	-1.354	31999.048	3.5	D7 (5D)2F	78690.846	2.5	4P (1D)2D
212.4075	-4.742	47674.721	1.5	D7 (5D)2D	94739.170	1.5	4SP(5P)4P	-1.942	31811.822	2.5	D7 (5D)2F	78487.153	1.5	4P (1D)2D
212.5034	-3.810	108630.429	5.5	5S (11)2I	61587.214	5.5	4P (3H)4I	-3.873	54902.315	1.5	D6S (3P)2F	101573.900	1.5	4SP(5D)4P
212.5154	-0.781	48039.090	2.5	D7 (5D)2D	95079.640	3.5	4P (3F)2F	-1.846	25981.629	3.5	D6S (3G)4G	72651.876	3.5	4P (3D)4D
212.5427	-2.662	25981.629	3.5	D6S (3G)4G	73016.147	2.5	4P (1G)2F	-2.907	25981.629	3.5	D6S (3G)4G	72650.558	4.5	4P (3G)2F
212.5814	-2.534	47674.721	1.5	D7 (5D)2D	94700.660	2.5	4P (3F)2D	-3.001	22939.358	2.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F
212.6098	-4.622	85679.698	2.5	4D (5D)4G	38660.043	3.5	4P (5D)6D	-2.075	49100.976	0.5	D6S (3P)4F	95767.700	0.5	4SP(5P)4D
212.6213	-4.511	22409.852	0.5	D6S (3P)4P	69426.980	0.5	4SP(5S)4P	-3.949	85679.698	2.5	4D (5D)4G	39013.206	1.5	4P (1G)2F
212.6518	-3.949	47674.721	1.5	D7 (5D)2D	94685.090	2.5	4SP(5P)4P	-1.911	26332.766	4.5	D6S (3H)2H	73016.147	3.5	4P (3F)2F
212.6670	-2.415	48039.090	2.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F	-1.505	48039.090	2.5	D7 (5D)2D	94700.660	2.5	4P (1G)2D
212.6812	-4.574	85462.862	3.5	4D (5D)4G	38458.981	4.5	4P (5D)6D	-3.352	31483.176	3.5	D6S (3D)4D	78137.364	3.5	4P (1D)2F
212.6983	-0.969	48039.090	2.5	D7 (5D)2D	95039.200	1.5	4P (3P)2P	-3.539	977.053	0.5	D6S (5D)6D	47626.076	0.5	4P (5D)4P
212.7012	-2.174	26055.423	2.5	D6S (3G)4G	73054.881	2.5	4P (1G)2F	-1.143	108804.667	3.5	5S (3D)4D	62158.110	4.5	4P (3F)4F
212.7602	-2.705	27620.412	2.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D	-3.337	48039.090	2.5	D7 (5D)2D	94685.090	2.5	4SP(5D)6P
212.7973	-1.163	30764.485	3.5	D6S (3G)2G	77742.730	2.5	4P (1D)2F	-3.092	25787.598	1.5	D6S (3P)2P	72429.711	0.5	4P (3D)4D
212.8376	-2.977	22637.205	4.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	-3.684	25981.629	3.5	D6S (3G)4G	72619.490	2.5	4P (3D)4D
212.8767	-3.818	26055.423	2.5	D6S (3G)4G	73016.147	3.5	4P (1G)2F	-2.448	85495.304	2.5	4D (5D)6S	38858.958	2.5	4P (5D)6D
213.0255	-1.552	13474.411	2.5	D7 (5D)4P	60402.342	2.5	4P (3P)4P	-4.933	57411.065	2.5	D5S2(7S)4P	104046.350	2.5	4F(5D)0[3]
213.0349	-2.293	60270.339	3.5	D5S2(7S)4D	107196.200	2.5	180DD	-3.796	108804.667	3.5	5S (3D)4D	62171.615	3.5	4SP(7S)6P
213.0551	-0.936	26170.181	5.5	D6S (3H)2H	73091.590	4.5	4P (1G)2G	-2.549	85728.806	1.5	4D (5D)4S	39109.307	0.5	4P (5D)6D
213.1359	-2.165	16369.360	3.5	D7 (5D)2G	63272.976	2.5	4P (3F)4D	-2.984	23031.300	1.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F
213.1739	-1.852	60270.339	3.5	D5S2(7S)4D	107165.600	3.5	170DD	-2.777	21430.359	5.5	D6S (3H)4H	68000.788	4.5	4P (3F)2H
213.1876	-4.024	22409.852	0.5	D6S (3P)4P	69302.090	1.5	4SP(5S)4P	-3.022	85462.862	3.5	4D (5D)4G	38858.958	2.5	4P (5D)6D
213.2477	-2.445	31811.822	2.5	D7 (5D)2F	78690.846	2.5	4P (3D)2D	-2.868	26055.423	2.5	D6S (3G)4G	72651.876	3.5	4P (3D)4D
213.2540	-1.823	27620.412	2.5	D6S (3F)2F	74498.057	1.5	4P (3D)2D	-2.616	384.790	3.5	D6S (5D)6D	46967.444	2.5	4P (5D)4P
213.2895	-2.445	85728.806	1.5	4D (5D)4S	38858.958	2.5	4P (5D)6D	-1.983	16369.360	3.5	D7 (5D)2G	62945.038	3.5	4P (3F)4D
213.3956	-1.547	25805.328	4.5	D6S (3G)4G	72651.876	3.5	4P (3D)4D	-2.777	21430.359	5.5	D6S (3H)4H	68000.788	4.5	4P (3F)2H
213.4011	-1.536	25805.328	4.5	D6S (3G)4G	72650.658	4.5	4P (3D)4D	-3.261	26055.423	2.5	D6S (3G)4G	72619.490	2.5	4P (3D)4D
213.4248	-3.449	22810.357	3.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F	-4.036	57493.321	1.5	D5S2(7S)4P	104046.350	2.5	4F(5D)0[3]
213.4470	-2.826	85495.304	2.5	4D (5D)6S	38660.043	3.5	4P (5D)6D	-4.560	108630.429	5.5	5S (11)2I	62083.108	4.5	4P (3H)2G
213.4576	-2.787	25428.784	5.5	D6S (3G)4G	72621.729	5.5	4P (1G)2H	-0.821	25805.328	4.5	D6S (3G)4G	72352.024	3.5	4P (3D)4F
213.4624	-4.976	25787.598	1.5	D6S (3P)2P	72619.490	2.5	4P (3D)4D	-4.034	47674.721	1.5	D7 (5D)2D	94211.739	2.5	4SP(5P)4P
213.5132	-3.683	85679.698	2.5	4D (5D)4G	38858.958	2.5	4P (5D)6D	-3.656	862.613	1.5	D6S (5D)6D	47389.779	1.5	4P (5D)4P
213.5276	-2.545	15844.650	4.5	D7 (5D)2G	62662.244	5.5	4P (3H)2I	-2.303	85184.734	4.5	4D (5D)4G	38660.043	3.5	4P (5D)6D
213.5950	-2.992	85462.862	3.5	4D (5D)4G	38660.043	3.5	4P (5D)6D	-3.827	54902.315	1.5	D6S (3P)2P	101402.380	0.5	4SP(5D)4P
213.6252	-5.782	22810.357	3.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	-1.614	49506.934	1.5	D6S (3P)4P	95995.690	2.5	4SP(5P)4D
213.6511	-0.954	26352.766	4.5	D6S (3H)2H	73143.288	3.5	4P (1G)2G	-0.741	20516.960	2.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D
213.7332	-4.270	49506.934	1.5	D6S (3P)4P	96279.490	2.5	4SP(3P)2F	-2.568	108804.667	3.5	5S (3D)4D	62322.431	3.5	4P (3H)2G
213.7748	-3.079	862.613	1.5	D6S (5D)6D	47626.076	0.5	4P (5D)4P	-2.632	85495.304	2.5	4D (5D)6S	39013.206	1.5	4P (5D)6D
213.8040	-2.016	49100.976	0.5	D6S (3P)4P	95858.050	1.5	4SP(5P)4D	-1.149	26170.181	5.5	D6S (3H)4H	72650.658	4.5	4P (3D)4F
213.8049	-1.860	20516.960	2.5	D7 (5D)2D	67273.826	1.5	4P (3F)2D	-3.370	15844.650	4.5	D7 (5D)2G	62322.431	3.5	4P (3H)2G
213.8221	-2.117	60445.275	2.5	D5S2(7S)4D	107196.200	2.5	180DD	-2.805	57493.321	1.5	D5S2(7S)4P	103967.490	0.5	4SP(3P)2S
213.8390	-3.647	31887.948	2.5	D6S (3D)4D	78137.364	3.5	4P (1D)2F	-1.369	18360.646	1.5	D7 (5D)2P	64834.073	1.5	4P (3P)2P
213.8860	-4.313	108804.667	3.5	5S (3D)4D	62065.521	3.5	4P (3D)4D	-5.061	26055.423	2.5	D6S (3G)4G	72524.566	1.5	4P (3D)4D
213.8875	-1.952	26352.766	4.5	D6S (3H)2H	73091.590	4.5	4P (1G)2G	-4.238	25787.598	1.5	D6S (3P)2P	72238.513	2.5	4P (3D)4F
213.8960	-2.760	25787.598	1.5	D6S (3P)2P	72524.566	1.5	4P (3D)4D	-1.306	18360.646	1.5	D7 (5D)2P	64806.487	0.5	4P (3P)2P
213.9317	-2.745	15673.185	1.5	D7 (5D)4P	60402.342	2.5	4P (3P)4P	-5.834	20830.582	2.5	D6S (3P)4P	67273.826	1.5	4P (3F)2D
213.9473	-2.654	85184.734	4.5	4D (5D)4G	38458.981	4.5	4P (5D)6D	-2.826	27314.922	3.5	D6S (3F)2F	73751.282	4.5	4P (11)2H
213.9640	-2.726	667.683	2.5	D6S (5D)6D	47389.779	1.5	4P (5D)4P	-3.422	25787.598	1.5	D6S (3P)2P	72212.978	0.5	4P (3D)4F
213.9665	-2.321	108804.667	3.5	5S (3D)4D	62083.108	4.5	4P (3H)2G	-2.563	21581.638	4.5	D6S (3H)4H	68000.788	4.5	4P (3G)2H
213.9722	-1.978	60445.275	2.5	D5S2(7S)4D	107165.600	3.5	170DD	-2.479	60445.275	2.5	D5S2(7S)4D	106863.200	3.5	160DD
213.9938	-2.298	85728.806	1.5	4D (5D)4S	39013.206	1.5	4P (5D)6D	-3.767	977.053	0.5	D6S (5D)6D	47389.779	1.5	4P (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WI(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
215.4292	-1.615	84863.351	5.5	4D (5D)4G	38458.981	4.5	4P (5D)6D	216.5434	-3.763	47674.721	1.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D
215.4696	-5.818	23031.300	1.5	D6S (3F)4F	69426.980	0.5	4SP(5S)4P	216.5556	-5.402	22939.358	2.5	D6S (3F)4F	69102.380	2.5	4SP(5S)4P
215.5006	-3.808	57578.484	0.5	D5S2(7S)4P	103967.490	1.5	4SP(3P)2S	216.5717	-2.975	85172.809	0.5	4D (5D)4D	39013.206	1.5	4P (5D)6D
215.5359	-3.940	23787.598	1.5	D6S (3P)2P	72168.998	1.5	4P (3D)4F	216.5874	-4.781	47674.721	1.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D
215.5504	-4.026	31364.440	1.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	216.5915	-4.713	20516.960	2.5	D7 (5D)2D	66672.334	3.5	4P (3G)4H
215.5871	-1.563	22981.629	3.5	D6S (3G)4G	72352.024	3.5	4P (3D)4F	216.6226	-4.947	25981.629	3.5	D6S (3G)4G	72130.390	4.0	4P (1G)2H
215.6227	-4.929	22939.358	2.5	D6S (3F)4F	69302.090	1.5	4SP(5I)4P	216.6388	-1.270	84314.507	1.5	D6S (1D)2D	84359.800	1.5	4P (1F)2D
215.6510	-4.341	58666.258	3.5	D6S (1G)2G	105028.600	3.5	4SP(3I)4H	216.6443	-3.652	50122.826	2.5	D6S (3P)4P	96356.960	3.5	4SP(3G)2F
215.6562	-2.250	47674.721	1.5	D7 (5D)2D	94031.378	0.5	4SP(5I)6D	216.6716	-0.708	31999.048	3.5	D7 (5D)2F	78137.364	3.5	4P (1D)2F
215.6597	-4.190	108648.695	6.5	5S (1I)2I	62293.164	6.5	4P (3H)2I	216.6792	-4.596	50142.786	2.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F
215.6767	-2.047	31387.948	2.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	216.7425	-1.538	20340.300	5.5	D7 (5D)2H	66463.528	5.5	4P (3G)4H
215.7618	-6.666	49506.934	1.5	D6S (3P)4P	95858.050	1.5	4SP(5P)4D	216.7711	-3.656	54283.220	3.5	D5S2(7S)4G	100400.360	2.5	4SP(3P)2D
215.7892	-7.711	23317.633	2.5	D5S2(7S)6S	69650.484	2.5	4P (3G)2F	216.7822	-3.738	108804.667	3.5	5S (3D)4D	62689.880	2.5	4P (3P)4D
215.7958	-2.129	15844.650	4.5	D7 (5D)2G	62171.615	4.5	4SP(7S)6P	216.7879	-0.934	26055.423	2.5	D6S (3G)4G	72168.998	1.5	4P (3D)4F
215.7981	-4.719	31811.822	2.5	D7 (5D)2F	78137.364	3.5	4P (1D)2F	216.8290	-3.906	862.613	1.5	D6S (5D)6D	46967.444	2.5	4P (5D)4P
215.8192	-4.397	25805.328	4.5	D6S (3G)4G	72130.390	4.5	4P (1G)2H	216.8624	-4.627	57578.484	0.5	D5S2(7S)4P	103676.220	0.5	4F(5D)2[1]
215.8521	-1.802	16369.360	3.5	D7 (5D)2G	62689.880	2.5	4P (3P)4D	216.8720	-2.445	20516.960	2.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F
215.8522	-2.754	47674.721	1.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G	216.8915	-2.377	50187.813	3.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F
215.8856	-3.556	58631.531	4.5	D6S (1G)2G	104937.800	4.5	4SP(3I)4H	216.8978	-4.866	57578.484	0.5	D5S2(7S)4P	103668.690	1.5	4F(5D)2[1]
215.9125	-4.165	57411.065	2.5	D5S2(7S)4P	103711.570	3.5	4F(5D)2[4]	216.9177	-1.870	21430.359	5.5	D6S (3H)4H	67516.332	5.5	4P (3G)2H
215.9160	-3.770	667.683	2.5	D6S (5D)6D	46967.444	2.5	4P (5D)4P	216.9376	-4.972	50157.452	4.5	D6S (3F)4F	96239.200	4.5	4SP(3G)2H
215.9190	-5.679	26352.766	4.5	D6S (3H)2H	72651.876	3.5	4P (3D)4D	216.9711	-4.197	50142.786	2.5	D6S (3F)4F	96217.420	3.5	4SP(3P)4D
215.9247	-2.468	26352.766	4.5	D6S (3H)2H	72650.658	4.5	4P (3D)4F	216.9864	-2.551	20340.300	5.5	D7 (5D)2H	66411.686	6.5	4P (3G)4H
215.9307	-3.221	26055.423	2.5	D6S (3G)4G	72352.024	3.5	4P (3D)4F	216.9878	-6.626	23031.300	1.5	D6S (3F)4F	69102.380	2.5	4SP(5S)4P
215.9521	-4.464	22810.357	3.5	D6S (3F)4F	69102.380	2.5	4SP(5S)4P	216.9986	-3.224	84527.778	4.5	4D (5D)6G	38458.981	4.5	4SP(3G)2F
215.9590	-4.336	57578.484	0.5	D5S2(7S)4P	103869.020	1.5	4F(5D)1[2]	217.0086	-4.646	50212.826	2.5	D6S (3P)4P	96279.490	2.5	4SP(3G)2F
215.9666	-7.710	23317.633	2.5	D5S2(7S)6S	69606.552	3.5	4P (3G)2F	217.0176	-2.236	18360.646	1.5	D7 (5D)2P	64625.408	2.5	4P (3F)2F
215.9738	-4.855	57411.065	2.5	D6S (3H)4H	68000.788	4.5	4P (3G)2H	217.0402	-1.828	85172.809	0.5	4D (5D)4D	39109.307	0.5	4P (5D)6D
216.0477	-3.597	58666.258	3.5	D6S (1G)2G	103698.440	2.5	4F(5D)2[13]	217.0806	-3.154	50157.452	4.5	D6S (3F)4F	96239.200	4.5	4SP(3G)2H
216.0512	-5.927	23031.300	1.5	D6S (3F)4F	104937.800	1.5	4SP(3I)4H	217.1561	-2.308	85048.602	1.5	4D (5D)4D	39013.206	1.5	4P (5D)6D
216.0795	-2.196	21251.608	6.5	D6S (3H)4H	67516.332	5.5	4P (3G)2H	217.1619	-3.070	48039.090	2.5	D7 (5D)2D	84660.043	3.5	4P (5D)6D
216.0980	-2.951	49506.934	1.5	D6S (3P)4P	95767.700	0.5	4SP(5P)4D	217.2044	-1.358	84685.198	3.5	4D (5D)4D	38660.043	3.5	4P (5D)6D
216.1037	-4.605	31483.176	3.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	217.2669	-1.743	84870.863	2.5	4D (5D)4D	38858.958	2.5	4P (5D)6D
216.1162	-0.805	25981.629	3.5	D6S (3G)4G	72238.513	2.5	4P (3D)4F	217.2979	-1.702	20516.960	2.5	D7 (5D)2D	66522.304	2.5	4P (3G)4F
216.1186	-3.355	26932.748	0.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P	217.3015	-1.348	50212.826	2.5	D6S (3P)4P	96217.420	3.5	4SP(3P)4D
216.1230	-3.739	25787.598	1.5	D6S (3P)2P	72043.026	1.5	4P (3D)4P	217.3267	-1.969	26352.766	4.5	D6S (3H)2H	72352.024	3.5	4F(5D)3[2]
216.1271	-2.130	26932.748	0.5	D6S (3P)2P	73187.280	0.5	4P (3D)2P	217.3459	-4.634	57411.065	2.5	D5S2(7S)4P	103406.250	2.5	4F(5D)3[2]
216.1404	-4.087	84710.685	3.5	4D (5D)6G	38458.981	4.5	4P (5D)6D	217.3692	-2.553	13673.185	1.5	D7 (5D)4P	59663.456	1.5	4P (3P)4S
216.1487	-4.972	57411.065	2.5	D5S2(7S)4P	103660.980	2.5	4F(5D)2[12]	217.3818	-1.977	26055.423	2.5	D6S (3G)4G	72043.026	1.5	4P (3D)4P
216.1544	-3.337	20340.300	5.5	D7 (5D)2H	66589.008	4.5	4P (3G)4H	217.3872	-2.802	108648.695	6.5	5S (1I)2I	62662.244	5.5	4P (3H)2I
216.2023	-0.650	15844.650	4.5	D7 (5D)2G	62083.108	4.5	4P (3H)2G	217.3966	-2.884	84844.834	2.5	4D (5D)6G	38858.958	2.5	4P (5D)6D
216.2595	-1.676	84685.198	3.5	4D (5D)4D	38458.981	4.5	4P (5D)6D	217.4031	-3.292	25981.629	3.5	D6S (3G)4G	69302.090	1.5	4SP(5S)4P
216.2846	-3.289	15844.650	4.5	D7 (5D)2G	62055.521	3.5	4P (3F)4F	217.4293	-4.346	57411.065	2.5	D5S2(7S)4P	103385.730	3.5	4F(5D)3[3]
216.3316	-3.452	84870.863	2.5	4D (5D)4D	38660.043	3.5	4P (5D)6D	217.4736	-2.378	108630.429	5.5	5S (1I)2I	62662.244	5.5	4P (3H)2I
216.3655	-3.249	50075.910	1.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F	217.4850	-1.194	21308.040	1.5	D7 (5D)2D	67273.826	1.5	4P (3F)2D
216.3846	-3.567	50157.452	4.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	217.5113	-2.062	26170.181	5.5	D6S (3H)2H	72130.390	4.5	4P (1G)2H
216.4029	-2.078	38164.194	2.5	D6S (1D)2D	84359.800	1.5	4P (1F)2D	217.5418	-4.666	57411.065	2.5	D5S2(7S)4P	103364.840	2.5	4F(5D)3[3]
216.4308	-2.968	85048.602	1.5	4D (5D)4D	38858.958	2.5	4P (5D)6D	217.5451	-0.829	16369.360	3.5	D7 (5D)2G	62322.431	3.5	4P (3H)2G
216.4336	-1.331	13474.411	2.5	D7 (5D)4P	59663.456	1.5	4P (3P)4S	217.5640	-4.428	48039.090	2.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G
216.4513	-3.186	58631.531	4.5	D6S (1G)2G	104816.800	5.5	4SP(3I)4H	217.5725	-3.789	18886.780	0.5	D7 (5D)2P	64834.073	1.5	4P (3P)2P
216.4615	-1.573	26055.423	2.5	D6S (3G)4G	72238.513	2.5	4P (3D)4F	217.6104	-4.132	85048.602	1.5	4D (5D)4D	39109.307	0.5	4P (5D)6D
216.4895	-4.805	25787.598	1.5	D6S (3P)2P	71964.710	2.5	4P (3D)4P	217.6155	-3.353	49100.976	0.5	D6S (3P)4P	95039.200	1.5	4P (3P)2P
216.5105	-3.367	48039.090	2.5	D7 (5D)2D	94211.739	2.5	4SP(5P)4D	217.6322	-2.037	21581.638	4.5	D6S (3H)4H	67516.332	5.5	4P (3G)2H
216.5232	-4.054	20830.582	2.5	D6S (3P)4P	67000.517	2.5	4P (3F)2D	217.6501	-0.889	31811.822	2.5	D7 (5D)2F	77742.730	2.5	4P (1D)2F
216.5269	-4.435	50187.813	3.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	217.6564	-4.685	57411.065	2.5	D5S2(7S)4P	103340.640	3.5	4F(5D)3[4]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
217.6782	-3.905	84938.180	1.5	4D (5D)6G	39013.206	1.5	4P (5D)6D	218.7893	-2.584	50075.910	1.5	D6S (3F)4F	95767.700	0.5	4SP(5F)4D
217.6793	-4.973	57493.321	1.5	D5S2(7S)4F	103418.080	0.5	4F(5D)3[10]	218.7896	-3.617	20830.582	2.5	D6S (3F)4F	66522.304	2.5	4P (3C)4F
217.7029	-4.038	50075.910	1.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	218.8473	-6.846	16369.360	3.5	D7 (5D)2G	62049.025	2.5	4SP(7S)6P
217.7032	-1.517	18886.780	0.5	4P (3D)2F	64806.487	0.5	4P (3F)2F	218.8819	-3.389	20340.300	5.5	D7 (5D)2H	66012.750	4.5	4P (3C)4F
217.7526	-4.252	26055.423	2.5	D6S (3G)4G	71964.740	1.0	4P (3D)4F	218.9033	-1.498	15844.650	4.5	D7 (5D)2G	61512.634	4.5	4P (3R)4I
217.7542	-2.214	26352.766	4.5	D6S (3H)2H	72261.729	5.5	4P (1G)2H	218.9087	-1.514	84326.912	2.5	4D (5D)6P	38660.043	3.5	4P (5D)6D
217.7748	-2.458	50157.452	4.5	D6S (3F)4F	96062.060	5.5	4SP(3G)2H	218.9524	-1.711	20805.570	4.5	D7 (5D)2D	83868.450	2.5	4P (3C)4H
217.8063	-4.993	57493.321	1.5	D5S2(7S)4F	103391.290	1.5	4F(5D)3[12]	218.9707	-1.711	38214.500	1.5	D6S (1D)2D	83663.528	5.5	4P (3C)4H
217.8849	-4.323	15844.650	4.5	D7 (5D)2G	61726.077	3.5	4P (3P)4D	218.9715	-3.155	47674.721	1.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F
217.9499	-2.242	84527.778	4.5	4D (5D)6G	38660.043	3.5	4P (5D)6D	218.9857	-2.640	87985.628	2.5	4D (5D)4F	42334.822	2.5	4P (5D)6F
217.9555	-2.709	20805.570	4.5	D7 (5D)2H	66672.334	3.5	4P (3G)4H	219.0125	-3.617	50212.826	2.5	D6S (3F)4P	95858.050	1.5	4SP(5P)4D
217.9851	-2.971	20516.960	2.5	D7 (5D)2D	66377.280	3.5	4P (3G)4H	219.0462	-3.264	49100.976	0.5	D6S (3F)4P	94739.170	1.5	4SP(5P)4P
217.9884	-1.091	108804.667	3.5	5S (3D)4D	62945.038	3.5	4P (3F)4D	219.0744	-4.524	57493.321	1.5	D5S2(7S)4P	103125.650	0.5	4F(5D)4[1]
217.9924	-4.631	57578.484	0.5	D5S2(7S)4F	103437.280	0.5	4F(5D)3[11]	219.1159	-4.971	57411.065	2.5	D5S2(7S)4P	103034.760	1.5	4F(5D)4[2]
217.9978	-3.407	84870.863	2.5	4D (5D)4D	39013.206	1.5	4P (5D)6D	219.1458	-4.738	57493.321	1.5	D5S2(7S)4P	103110.790	1.5	4F(5D)4[1]
218.0204	-4.402	50142.786	2.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	219.1662	-4.697	57411.065	2.5	D5S2(7S)4P	103024.290	2.5	4F(5D)4[2]
218.0260	-2.204	84710.685	3.5	4D (5D)6G	38858.958	2.5	4P (5D)6D	219.1984	-0.319	84266.556	3.5	4D (5D)6P	38660.043	3.5	4P (5D)6D
218.0735	-8.198	20830.582	2.5	D6S (3P)4F	66672.334	3.5	4P (3G)4H	219.2691	-3.099	26932.748	0.5	D6S (3F)2P	72524.566	1.5	4P (3D)4D
218.0781	-4.406	57493.321	1.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F	219.3051	-3.255	87985.628	2.5	4D (5D)4P	42401.302	1.5	4P (5D)6F
218.0920	-3.005	84296.830	5.5	4D (5D)6G	38458.981	4.5	4P (5D)6D	219.3668	-3.512	20805.770	4.5	D7 (5D)2H	66377.283	3.5	4P (3G)4F
218.1216	-2.507	84844.834	1.5	4D (5D)6G	39013.206	1.5	4P (5D)6D	219.3803	-3.458	27620.412	2.5	D6S (3F)2F	73189.110	1.5	4P (3D)2P
218.1348	-3.294	84938.180	1.5	4D (5D)6G	39109.307	0.5	4P (5D)6D	219.3962	-2.003	84424.370	1.5	4D (5D)6P	38858.958	2.5	4P (5D)6D
218.1372	-3.001	27314.922	3.5	D6S (3F)2F	73143.288	3.5	4P (1G)2G	219.4159	-2.764	20516.960	2.5	D7 (5D)2D	66078.269	2.5	4P (3G)4G
218.1473	-2.090	84685.198	3.5	4D (5D)4D	38858.958	2.5	4P (5D)6D	219.4324	-4.557	25428.784	5.5	D6S (3G)4G	70986.677	6.5	4P (11)2K
218.1661	-2.636	88157.116	1.5	4D (5D)4P	42334.822	2.5	4P (5D)6F	219.4863	-2.867	20830.582	2.5	D6S (3F)4P	66377.283	3.5	4P (3G)4F
218.2247	-2.010	50187.813	3.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	219.5117	-4.648	57493.321	1.5	D5S2(7S)4P	103034.760	1.5	4F(5D)4[2]
218.2362	-0.814	84266.556	3.5	4D (5D)6P	38458.981	4.5	4P (5D)6D	219.5135	-4.642	57411.065	2.5	D5S2(7S)4P	102952.120	2.5	4F(5D)4[3]
218.2615	-5.980	16369.360	3.5	D7 (5D)2G	62171.615	3.5	4SP(7S)6D	219.5226	-4.304	49506.934	1.5	D6S (3F)4P	95046.100	2.5	4P (3F)2F
218.2663	-4.672	48039.090	2.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	219.5439	-3.604	54273.641	4.5	D5S2(7S)4G	99808.400	3.5	4P (1G)2G
218.3110	-3.923	48039.090	2.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D	219.5535	-2.531	54275.637	2.5	D5S2(7S)4G	99808.400	3.5	4P (1G)2G
218.3259	-2.972	16369.360	3.5	D7 (5D)2G	62158.110	4.5	4P (3F)4F	219.5559	-2.598	49506.934	1.5	D6S (3F)4P	95039.200	1.5	4P (3F)2P
218.3308	-2.917	88189.030	3.5	4D (5D)4P	42401.302	1.5	4P (5D)6F	219.5587	-1.807	108804.667	3.5	5S (3D)4D	63272.976	2.5	4P (3F)2P
218.3450	-2.497	23317.633	2.5	D5S2(7S)6S	69102.380	2.5	4SP(5S)4F	219.5613	-4.731	57411.065	2.5	D5S2(7S)4P	102942.200	3.5	4F(5D)4[3]
218.3522	-2.237	20805.770	4.5	D7 (5D)2H	66589.008	4.5	4P (3G)4H	219.5621	-4.966	57493.321	1.5	D5S2(7S)4P	103024.290	2.5	4F(5D)4[2]
218.3540	-2.275	50212.826	2.5	D6S (3P)4F	95995.690	2.5	4SP(5P)4D	219.5676	-3.048	54870.528	2.5	D6S (3F)2P	100400.360	2.5	4SP(3F)2D
218.3572	-3.402	16369.360	3.5	D7 (5D)2G	62151.561	2.5	4P (3F)4F	219.5913	-2.718	54282.220	3.5	D5S2(7S)4G	99757.120	4.5	4P (1G)2G
218.3574	-3.848	50075.910	1.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D	219.5913	-2.718	54232.195	5.5	D5S2(7S)4G	99757.120	4.5	4P (1G)2G
218.3578	-4.611	20830.582	2.5	D6S (3P)4F	66612.656	1.5	4P (3G)4F	219.6012	-1.250	27620.412	2.5	D6S (3F)2F	73143.288	3.5	4P (1G)2G
218.3790	-2.983	26352.766	4.5	D6S (3H)2H	72130.390	4.5	4P (1G)2H	219.7210	-1.471	54902.315	1.5	D6S (3F)2P	72429.711	0.5	4P (3D)4D
218.3836	-1.108	27314.922	3.5	D6S (3F)2F	73091.590	4.5	4P (1G)2G	219.7263	-2.840	26932.748	0.5	D6S (3F)2P	100400.360	2.5	4SP(3F)2D
218.4028	-3.640	57411.065	2.5	D5S2(7S)4P	103183.700	3.5	4SP(3D)2F	219.7302	-1.393	54904.222	3.5	D6S (3F)2F	100400.360	2.5	4SP(3F)2D
218.4696	-4.340	13904.824	0.5	D7 (5D)4P	59663.456	1.5	4P (3P)4S	219.7914	-3.556	54273.641	4.5	D5S2(7S)4G	99757.120	4.5	4P (1G)2G
218.4831	-2.605	88157.116	1.5	4D (5D)4P	42401.302	1.5	4P (5D)6F	219.8273	-4.684	57411.065	2.5	D5S2(7S)4P	102887.120	3.5	4F(5D)4[4]
218.5146	-2.727	88189.030	3.5	4D (5D)4P	42439.822	0.5	4P (5D)6F	219.8377	-2.673	54283.220	3.5	D5S2(7S)4G	99757.120	4.5	4P (1G)2G
218.5176	-2.486	87985.628	2.5	4D (5D)4F	42237.033	3.5	4P (5D)6F	219.8665	-0.398	84326.912	2.5	4D (5D)6P	38658.958	2.5	4P (5D)6D
218.5410	-2.893	31999.048	3.5	D7 (5D)2F	77742.730	2.5	4P (1D)2F	219.8964	-3.816	21812.055	1.5	D6S (3F)4P	67273.826	1.5	4P (3F)2D
218.5464	-3.214	15844.650	4.5	D7 (5D)2G	61587.214	5.5	4P (3H)4I	219.9107	-4.914	57493.321	1.5	D5S2(7S)4P	102952.120	2.5	4F(5D)4[3]
218.5588	-2.212	27314.922	3.5	D6S (3F)2F	73054.881	2.5	4P (1G)2F	219.9603	-3.230	48039.090	2.5	D7 (5D)2D	93487.650	3.5	4P (3F)4F
218.6219	-2.313	18360.646	1.5	D7 (5D)2P	64087.418	2.5	4P (3F)4G	220.0285	-0.969	27620.412	2.5	D6S (3F)2F	73016.147	3.5	4P (1G)2F
218.6512	-3.076	47674.721	1.5	D7 (5D)2D	93395.360	2.5	4P (3F)4F	220.0937	-3.380	54232.195	5.5	D5S2(7S)4G	99653.220	4.5	4SP(3G)2G
218.6672	-3.217	88157.116	1.5	4D (5D)4P	42439.822	0.5	4P (5D)6F	220.1259	-2.708	20516.960	2.5	D7 (5D)2D	39013.206	1.5	4P (5D)6D
218.6769	-2.240	50142.786	2.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D	220.1415	-0.661	84424.370	1.5	4D (5D)6P	38658.958	2.5	4P (5D)6D
218.6842	-1.989	16369.360	3.5	D7 (5D)2G	62083.108	4.5	4P (3H)2G	220.1587	-0.377	84266.556	3.5	4D (5D)6P	39013.206	1.5	4P (5D)6D
218.7296	-0.832	38164.194	2.5	D6S (1D)2D	83868.450	2.5	4P (1F)2D	220.2163	-2.957	27620.412	2.5	D6S (3F)2F	73016.147	3.5	4P (1G)2F
218.7441	-1.276	27314.922	3.5	D6S (3F)2F	73016.147	3.5	4P (1G)2F	220.2947	-5.000	54273.641	4.5	D5S2(7S)4G	99653.220	4.5	4SP(3G)2G
218.7483	-4.946	44929.550	2.5	D6S (1F)2F	90629.502	1.5	4P (3P)4S	220.3227	-2.651	49506.934	1.5	D6S (3F)4P	94880.740	4.5	4SP(5P)4D
218.7683	-1.609	16369.360	3.5	D7 (5D)2G	62065.921	3.5	4P (3F)4F	220.3412	-3.258	54283.220	3.5	D5S2(7S)4G	99653.220	4.5	4SP(3G)2G
218.7860	-1.713	21308.040	1.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D	220.3724	-4.172	22637.205	4.5	D6S (3F)4F	68000.788	4.5	4P (3G)2H

WL(NM)	LOGG	EVEN E	J	LABEL	WL(NM)	LOGG	ODD E	J	LABEL	EVEN E	J	LABEL	ODD E	J	LABEL
220.3807	-3.926	54273.641	4.5	D582(7S)4G	99635.520	3.5	4SP(3G)2G	221.9169	-2.761	107219.500	4.5	4P2(7P)8P	621171.615	3.5	4SP(7S)6P
220.3904	-2.675	54275.637	2.5	D582(7S)4G	99635.520	3.5	4SP(3G)2G	221.9203	-4.720	105449.540	3.5	5D(5D)4G	60402.342	2.5	4P(3P)4P
220.4057	-2.873	16369.360	3.5	D7(5D)2G	61726.077	3.5	4P(3P)4D	221.9412	-3.968	15844.650	4.5	D7(5D)2G	60887.598	5.5	4P(3H)4H
220.4079	-2.625	48039.090	2.5	D7(5D)2D	93395.360	2.5	4P(3F)4F	221.9655	-3.814	57411.065	2.5	D5S2(7S)4F	102449.100	2.5	4SP(3D)2D
220.4105	-3.094	20340.300	5.5	D7(5D)2H	65696.038	4.5	4P(3G)4G	221.9701	-1.415	27314.922	3.5	D6S(3F)2F	72352.024	3.5	4P(3D)4F
220.4272	-4.107	54283.220	3.5	D582(7S)4G	99635.520	3.5	4SP(3G)2G	221.9894	-0.534	21430.359	5.5	D6S(3H)4H	66463.528	5.5	4P(3G)4H
220.5018	-1.332	27314.922	3.5	D6S(3F)2F	72651.876	3.5	4P(3D)4D	221.9978	-2.314	27620.412	2.5	D6S(3F)2F	72651.876	3.5	4P(3D)4D
220.5078	-2.039	27314.922	3.5	D6S(3F)2F	72650.658	4.5	4P(3D)4F	222.0381	-0.586	20340.300	5.5	D7(5D)2H	65363.595	5.5	4P(3H)2H
220.5483	-2.168	87985.628	2.5	4D(5D)4P	42658.224	3.5	4P(5D)6P	222.0433	-0.608	84131.563	0.5	4D(5D)6D	39109.307	0.5	4P(5D)6D
220.6084	-0.327	84424.370	1.5	4D(5D)6P	39109.307	0.5	4P(5D)6D	222.0512	-1.393	47674.721	1.5	D7(5D)2D	92695.374	2.5	4P(3P)2D
220.6150	-0.223	84326.912	2.5	4D(5D)6P	39013.206	1.5	4P(5D)6D	222.0947	-3.578	105414.180	2.5	4D(3F)4G	60402.342	2.5	4P(3P)4P
220.6224	-3.660	15844.650	4.5	D7(5D)2G	61156.835	3.5	4P(3H)4H	222.1167	-0.612	21581.638	4.5	D6S(3H)4H	66589.008	4.5	4P(3G)4H
220.6592	-1.900	21308.040	1.5	D7(5D)2D	66612.656	1.5	4P(3G)4F	222.1576	-2.618	27620.412	2.5	D6S(3F)2F	72619.490	2.5	4P(3D)4D
220.6595	-2.728	27314.922	3.5	D6S(3F)2F	72619.490	2.5	4P(3D)4D	222.2453	-1.363	21430.359	5.5	D6S(3H)4H	66411.686	1.5	4P(3G)4H
220.7334	-3.226	48039.090	2.5	D7(5D)2D	93328.480	1.5	4P(3F)4F	222.2674	-0.922	83990.063	1.5	4D(5D)6D	39013.206	1.5	4P(5D)6D
220.7373	-4.612	21711.917	3.5	D6S(3H)4H	67000.517	2.5	4P(3F)2D	222.2750	-3.341	44915.046	3.5	D6S(1F)2F	89890.373	3.5	4P(3F)4G
220.7781	-2.719	26932.748	0.5	D6S(3P)2P	72212.978	0.5	4P(3D)4P	222.2875	-2.475	47674.721	1.5	D7(5D)2D	92647.510	1.5	4P(3F)4D
220.8408	0.127	83726.364	4.5	4D(5D)6D	38458.981	4.5	4P(5D)6D	222.3004	-1.987	50075.910	1.5	D6S(3F)4F	95046.100	2.5	4P(3F)2F
220.9034	-0.048	83713.536	3.5	4D(5D)6D	38458.981	4.5	4P(5D)6D	222.3380	-2.952	15844.650	4.5	D7(5D)2G	60807.230	4.5	4P(3H)4G
220.9369	-4.802	20830.582	2.5	D6S(3F)4P	66078.269	2.5	4P(3G)4G	222.3467	-3.513	44929.550	2.5	D6S(1F)2F	89890.373	3.5	4P(3F)4G
220.9757	-0.750	20340.300	5.5	D7(5D)2H	65580.041	5.5	4P(3G)4G	222.3487	-0.635	21711.917	3.5	D6S(3H)4H	66672.334	3.5	4P(3G)4H
220.9928	-3.347	26932.748	0.5	D6S(3P)2P	72168.998	1.5	4P(3D)4F	222.3703	-1.580	105763.270	5.5	4D(3F)2H	60807.230	4.5	4P(3H)4G
221.0124	-2.683	49506.934	1.5	D6S(3P)4P	94739.170	1.5	4SP(5P)4P	222.3716	-4.140	57493.321	1.5	D5S2(7S)4P	102449.100	2.5	4SP(3D)2D
221.0503	-2.823	47674.721	1.5	D7(5D)2D	92899.200	2.5	4P(3F)4D	222.3836	-1.364	83812.316	2.5	4D(5D)6D	38858.958	2.5	4P(5D)6D
221.0918	-4.017	20340.300	5.5	D7(5D)2D	65556.280	2.5	4P(3H)2H	222.4287	-3.545	54063.459	0.5	D6S(3P)2P	99007.700	0.5	4SP(5D)4D
221.1062	-3.050	31364.440	1.5	D6S(3D)4D	76577.482	0.5	4P(1S)2P	222.4602	-0.831	54870.528	2.5	D6S(3F)2F	99808.400	3.5	4P(1G)2G
221.1094	-1.081	30388.542	4.5	D6S(3H)4H	66463.528	5.5	4P(3G)4H	222.4666	-1.266	21308.040	1.5	D7(5D)2D	66248.660	0.5	4P(3P)2S
221.1117	-1.580	21251.608	6.5	D6S(3H)4H	73600.931	3.5	4P(3G)4F	222.4653	-2.101	50142.786	2.5	D6S(3F)4F	95079.640	3.5	4P(3F)2F
221.1258	-4.398	31368.450	0.5	D6S(3D)4D	76577.482	0.5	4P(1S)2P	222.4972	-3.437	49100.976	0.5	D6S(3P)4P	94031.378	0.5	4SP(5D)6D
221.1359	-4.157	20805.770	4.5	D7(5D)2H	66012.788	4.5	4P(3G)4F	222.5205	-4.377	105763.270	5.5	4D(3F)2H	60837.569	6.5	4P(3H)4H
221.1757	-4.617	18360.646	1.5	D7(5D)2P	63559.488	0.5	4P(3F)4D	222.5224	-4.478	57578.484	0.5	D5S2(7S)4P	102503.810	1.5	4SP(3D)2D
221.2007	-2.691	49506.934	1.5	D6S(3P)4P	94700.660	2.5	4P(3F)4D	222.5310	-2.666	27314.922	3.5	D6S(3F)2F	72238.513	2.5	4P(3D)4F
221.2168	-3.161	22810.357	3.5	D6S(3F)4F	68000.788	4.5	4P(3G)2H	222.5379	-2.454	88157.116	1.5	4D(5D)4P	43238.586	2.5	4P(5D)6P
221.2209	-2.141	33501.253	3.5	D6S(1G)2G	78690.846	2.5	4P(1D)2D	222.5561	-3.757	88157.116	1.5	4D(5D)4P	43238.586	2.5	4P(5D)6P
221.2265	-3.760	21812.055	1.5	D6S(3P)4P	67000.517	2.5	4P(3F)2D	222.5628	-3.420	18360.646	1.5	D7(5D)2P	63272.976	2.5	4P(3F)4D
221.2333	-3.976	105589.420	3.5	D6S(3P)4H	60402.342	2.5	4P(3P)4F	222.6272	-1.849	54904.222	2.5	D6S(3F)2F	99808.400	3.5	4P(1G)2G
221.2770	-3.503	49506.934	1.5	D6S(3P)4P	94685.090	2.5	4SP(5D)6P	222.6273	-3.269	27620.412	2.5	D6S(3F)2F	72524.566	1.5	4P(3D)4D
221.3655	-0.344	21251.608	6.5	D6S(3H)4H	66411.686	6.5	4P(3G)4H	222.6315	-3.207	50142.786	2.5	D6S(3F)4F	95046.100	2.5	4P(3F)2F
221.4038	-0.026	83812.316	2.5	4D(5D)6D	38660.043	3.5	4P(5D)6D	222.6528	-3.420	105524.461	4.5	4D(3F)4H	60625.449	5.5	4P(3H)4G
221.4114	-1.032	30764.485	3.5	D6S(3G)2G	75915.215	2.5	4P(3G)4F	222.6657	-2.288	50142.786	2.5	D6S(3F)4F	95039.200	1.5	4P(3P)2P
221.4405	-2.046	16369.360	3.5	D7(5D)2G	60989.444	4.5	4P(3H)4H	222.6884	-4.525	50187.813	3.5	D6S(3F)4F	95079.640	3.5	4P(3F)2F
221.4480	-3.096	16369.360	3.5	D7(5D)2G	60989.444	4.5	4P(3H)4H	222.6962	-2.160	20805.770	4.5	D7(5D)2H	65696.038	4.5	4P(3G)4G
221.4588	-3.265	38164.194	2.5	D6S(1D)2D	60625.449	5.5	4P(3H)4G	222.7041	-4.529	105291.010	3.5	4D(3F)4G	60402.342	2.5	4P(3P)4P
221.4747	-2.390	105763.270	5.5	4D(5D)6D	38858.958	2.5	4P(3G)4G	222.7183	-1.332	25428.784	5.5	D6S(3G)4G	70314.604	4.5	4P(3G)2G
221.5242	-4.503	44915.046	3.5	D6S(1F)2F	90042.779	4.5	4P(3F)4G	222.7378	-0.381	83990.063	1.5	D6S(3H)4H	66463.528	5.5	4P(3G)4H
221.5349	-5.042	20805.770	4.5	D7(5D)2H	65931.334	3.5	4P(3G)4D	222.7434	-0.381	83990.063	1.5	4D(5D)6D	39109.307	0.5	4P(5D)6D
221.6008	-5.496	15844.650	4.5	D7(5D)2G	60956.781	3.5	4P(3H)4G	222.7515	-2.575	22637.205	4.5	D6S(3F)4F	67516.332	5.5	4P(3G)2H
221.6099	-6.438	26932.748	0.5	D6S(3P)2P	72043.026	1.5	4P(3D)4P	222.7616	-1.567	21711.917	3.5	D6S(3H)4H	66589.008	4.5	4P(3G)4H
221.6385	-3.331	18360.646	1.5	D7(5D)2P	63465.109	1.5	4P(3F)4D	222.7686	-2.210	105763.270	5.5	4D(3F)2H	60887.598	5.5	4P(3H)4H
221.6568	-3.460	20830.582	2.5	D6S(3P)4P	65931.334	3.5	4P(3G)4G	222.8126	-3.200	50212.826	2.5	D6S(3P)4P	95079.640	3.5	4P(3F)2F
221.7056	-3.278	48039.090	2.5	D7(5D)2D	93129.900	3.5	4P(3F)4D	222.8267	-3.528	22409.852	0.5	D6S(3P)4P	92899.200	2.5	4P(3F)4D
221.7062	-1.554	21581.638	4.5	D6S(3H)4H	66672.334	3.5	4P(3G)4H	222.8459	-1.933	48039.090	2.5	D7(5D)2D	92899.200	2.5	4P(3F)4D
221.8261	0.141	83726.364	4.5	4D(5D)6D	38660.043	3.5	4P(5D)6D	222.8550	-3.174	50187.813	3.5	D6S(3F)4F	95046.100	2.5	4P(3F)2F
221.8893	-1.241	83713.536	3.5	4D(5D)6D	38660.043	3.5	4P(5D)6D	222.8659	-1.933	48039.090	2.5	D7(5D)2D	92899.200	2.5	4P(3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
223.0136	-3.147	50212.826	2.5	D68 (3F)4P	95039.200	1.5	4P (3P)2P	223.9818	-1.309	105589.420	3.5	4D (3F)4H	60956.781	3.5	4P (3H)4G
223.0628	-3.112	26170.181	5.5	D68 (3H)2H	70986.677	6.5	4P (1G)2K	224.0090	-7.348	7955.299	3.5	D68 (5D)4D	52582.510	3.5	4SP(7S)8P
223.0679	-2.641	27314.922	3.5	D68 (3F)2F	72130.390	4.5	4P (1G)2K	224.0214	-3.320	50075.910	1.5	D68 (3F)4F	94700.660	2.5	4P (3F)2D
223.0932	-2.762	21711.917	3.5	D68 (3H)4H	66522.304	2.5	4P (3G)4F	224.0298	-4.596	54275.637	2.5	D5S2(7S)4G	98898.710	3.5	4P (1G)2F
223.1419	-4.257	21812.055	1.5	D68 (3F)4P	66612.656	1.5	4P (3G)4F	224.0346	-3.122	667.683	2.5	D68 (5D)6D	60289.801	1.5	4P (5D)4F
223.1494	-0.118	83812.316	2.5	4D (5D)6D	39013.206	1.5	4P (3F)6D	224.0448	-5.491	16369.360	3.5	D7 (5D)2G	45989.444	4.5	4P (3H)4H
223.1559	-2.760	44929.550	2.5	D68 (1F)2F	89727.342	2.5	4P (3F)4G	224.0547	-1.964	87620.412	2.5	D68 (3F)2F	72238.513	2.5	4P (3D)4F
223.1666	-2.315	21581.638	4.5	D68 (3H)4H	66377.283	3.5	4P (3G)4F	224.0996	-4.538	50075.910	1.5	D68 (3F)4F	94685.090	2.5	4SP(5D)6P
223.2073	-1.387	16369.360	3.5	D7 (5D)2G	61156.835	3.5	4P (3H)4H	224.1034	-4.234	48039.090	2.5	D7 (5D)2D	92647.510	1.5	4P (3F)4D
223.2098	-4.228	106836.000	3.5	4P2(7F)8P	62049.025	2.5	4SP(7H)6P	224.1167	-3.242	50157.452	4.5	D68 (3F)4F	94763.219	3.5	4SP(5D)6P
223.2337	-3.739	105589.420	3.5	4D (3F)4H	60807.230	4.5	4P (3H)4G	224.1379	-2.479	18360.646	1.5	D7 (5D)2P	62962.205	1.5	4P (3P)4D
223.2406	-4.059	15844.650	4.5	D7 (5D)2G	60625.449	5.5	4P (3H)4G	224.1421	-0.269	83459.670	1.5	4D (5D)6F	38858.958	2.5	4P (5D)6D
223.2509	-2.922	47674.721	1.5	D7 (5D)2D	92453.460	0.5	4P (3F)4D	224.1458	-2.602	105589.420	3.5	4D (3F)4H	60989.444	4.5	4P (3H)4H
223.2732	-2.635	20805.770	4.5	D7 (5D)2H	65580.041	5.5	4P (3G)4G	224.1487	-3.584	47674.721	1.5	D7 (5D)2D	92274.120	2.5	4P (3P)4F
223.2775	-1.586	105398.852	5.5	4D (3F)4H	60825.449	5.5	4P (3H)4G	224.1639	-3.479	50142.786	2.5	D68 (3F)4F	94739.170	1.5	4SP(5P)4F
223.2826	-3.848	108648.695	6.5	5S (1I)2I	63876.317	5.5	4P (3F)4G	224.1823	-2.263	20516.960	2.5	D7 (5D)2D	65109.679	3.5	4P (3F)2G
223.2933	-2.655	21308.040	1.5	D7 (5D)2D	66078.269	2.5	4P (3G)4G	224.1878	-0.130	105398.852	5.5	4D (3F)4H	60807.230	4.5	4P (3H)4G
223.3194	-3.148	31364.440	1.5	D68 (3D)4D	76129.446	1.5	4P (1S)2P	224.2089	-2.538	16369.360	3.5	D7 (5D)2G	60956.781	3.5	4P (3H)4G
223.3195	-2.242	54870.528	2.5	D68 (3F)2F	99635.520	3.5	4SP(3G)2G	224.2176	-4.088	105211.140	4.5	5D (5D)4G	105028.600	3.5	4SP(3I)4H
223.3255	-2.929	108804.667	3.5	5S (3D)4D	64040.886	3.5	4P (3F)4G	224.2295	-4.783	60445.275	2.5	D5S2(7S)4D	66012.750	4.5	4P (3G)4F
223.3394	-3.783	31368.450	0.5	D68 (3D)4D	76129.446	1.5	4P (1S)2P	224.2342	-1.869	21430.359	5.5	D68 (3H)4H	66012.750	4.5	4P (3G)4F
223.3531	-4.826	60270.339	3.5	D5S2(7S)4D	105028.600	3.5	4SP(3I)4H	224.2547	-3.275	18886.780	0.5	D7 (5D)2P	63465.109	1.5	4P (3F)4D
223.3738	-4.383	108630.429	5.5	5S (1I)2I	63876.317	5.5	4P (3F)4G	224.2694	-4.223	50187.813	3.5	D68 (3F)4F	94763.219	3.5	4SP(5D)6P
223.3753	-4.799	0.000	4.5	D68 (5D)6D	44753.799	3.5	4P (5D)4F	224.3063	-3.995	88189.030	3.5	D68 (3F)4F	43620.957	1.5	4P (5D)6P
223.3917	-0.486	20805.770	4.5	D7 (5D)2H	65556.280	4.5	4P (3H)2H	224.3082	0.117	105524.461	4.5	4D (3F)4H	60956.781	3.5	4P (3H)4G
223.3993	-1.945	54904.222	3.5	D68 (3F)2F	99653.220	4.5	4SP(3G)2G	224.3405	-2.125	105398.852	5.5	4D (3F)4H	60807.230	4.5	4P (3H)4G
223.4091	-2.209	87985.628	2.5	4D (5D)4P	43238.586	2.5	4P (3D)6P	224.3576	-3.030	50142.786	2.5	D68 (3F)4F	94739.170	1.5	4SP(5P)4F
223.4367	-2.552	49100.976	0.5	D68 (3D)4D	76129.446	1.5	4P (1S)2P	224.3739	-2.598	20805.770	4.5	D7 (5D)2H	65363.595	5.5	4P (3H)2H
223.4474	-3.027	108804.667	3.5	5S (3D)4D	64087.418	2.5	4P (3F)4G	224.3864	-2.349	58631.531	4.5	D68 (1G)2G	103183.700	3.5	4SP(3D)2F
223.4861	-2.125	27620.412	2.5	D68 (3F)2F	72352.024	3.5	4P (3D)4F	224.3881	-3.360	2837.950	2.5	D7 (5D)4F	47238.779	1.5	4P (5D)4P
223.4877	-2.074	54904.222	3.5	D68 (3F)2F	99635.520	3.5	4SP(3G)2G	224.4044	-2.883	31364.440	1.5	D68 (3D)4D	75915.215	2.5	4P (3D)2F
223.5239	-4.437	16369.360	3.5	D7 (5D)2G	60402.342	2.5	4P (3P)4P	224.4396	-0.477	47674.721	1.5	D7 (5D)2D	92225.538	1.5	5P (5D)4F
223.5523	-2.078	25805.328	4.5	D68 (3G)4G	70923.706	3.5	4P (3G)2G	224.4610	-2.959	2430.097	3.5	D7 (5D)4F	46967.444	2.5	4P (5D)4P
223.5579	-3.654	108804.667	3.5	5S (3D)4D	64087.418	2.5	4P (3F)4G	224.4728	-2.341	88157.116	1.5	4D (3F)4H	60989.444	4.5	4P (3H)4H
223.5580	-1.321	105524.461	4.5	4D (3F)4H	60807.230	4.5	4P (3H)4G	224.5119	-2.623	31387.948	2.5	D68 (3D)4D	75915.215	2.5	4P (3D)2F
223.5929	-3.174	21812.055	1.5	D68 (3F)4P	66522.304	2.5	4SP(5G)4F	224.5165	-2.244	50212.826	2.5	D68 (3P)4P	94739.170	1.5	4SP(5P)4F
223.6202	-2.570	49506.934	1.5	D68 (3F)4P	66522.304	2.5	4P (3G)4F	224.5372	-3.708	23981.629	3.5	D68 (3G)4G	70523.706	3.5	4P (3G)2G
223.7248	-1.346	47674.721	1.5	D7 (5D)2D	92358.610	1.5	4SP(5G)4F	224.4610	-2.959	2430.097	3.5	D7 (5D)4F	46967.444	2.5	4P (5D)4P
223.7361	-3.604	108630.429	5.5	5S (1I)2I	63876.317	5.5	4P (3H)4G	224.4670	-3.187	88157.116	1.5	4D (3F)4H	60989.444	4.5	4P (3H)4H
223.7568	-0.322	83136.487	3.5	4D (5D)6F	38458.981	4.5	4P (3F)4G	224.4728	-2.341	105524.461	4.5	4D (3F)4H	60989.444	4.5	4P (3H)4H
223.7745	-4.697	105630.750	2.5	5D (5D)4G	60956.781	3.5	4P (3H)4G	224.5119	-2.623	31387.948	2.5	D68 (3D)4D	75915.215	2.5	4P (3D)2F
223.7804	-7.411	16369.360	3.5	D7 (5D)2P	63948.790	4.5	4P (3F)4G	224.5261	-2.733	49506.934	1.5	D68 (3P)4P	94031.378	0.5	4SP(5D)6D
223.7899	-0.933	33466.463	4.5	D68 (1G)2G	63559.488	0.5	4P (3H)4G	224.5500	0.302	82978.677	4.5	4D (3D)6F	38458.981	4.5	4P (5D)6D
223.8052	-2.617	58666.258	3.5	D68 (1G)2G	61041.748	2.5	4P (3F)4G	224.5570	-2.472	108804.667	3.5	5S (3D)4D	64286.345	3.5	4P (3F)2F
223.8125	-3.814	21711.917	3.5	D68 (3H)4H	78137.364	3.5	4P (1D)2F	224.5614	-2.917	58666.258	3.5	D68 (1G)2G	103183.700	3.5	4SP(3D)2F
223.8225	-2.663	106836.000	3.5	4P2(7F)8P	66377.283	3.5	4P (3G)4F	224.5846	-2.522	50187.813	3.5	D68 (3F)4F	94700.660	2.5	4P (3F)2D
223.8275	0.191	105288.847	6.5	4D (3F)4H	60825.449	5.5	4P (3H)4G	224.5926	-1.885	105398.852	5.5	4D (3F)4H	60887.598	5.5	4P (3H)4H
223.8282	-4.178	50075.910	1.5	D68 (3F)4F	94739.170	1.5	4SP(5P)4F	224.6026	-3.008	25805.328	4.5	D68 (3G)4G	70314.604	0.5	4P (3G)2G
223.8631	-0.227	48039.090	2.5	D7 (5D)2D	92695.374	2.5	4P (3F)2D	224.6059	-4.158	3117.461	1.5	D7 (5D)4F	47626.076	0.5	4P (3D)4P
223.8687	-2.609	47674.721	1.5	D7 (5D)2D	92329.890	2.5	4SP(3F)4P	224.6632	-4.962	50187.813	3.5	D68 (3F)4F	94685.090	2.5	4SP(5D)6P
223.8957	-3.896	27314.922	3.5	D68 (3F)2F	71964.710	2.5	4P (3D)4P	224.6696	-0.812	105589.420	3.5	4D (3F)4H	61093.413	2.5	4P (3P)2D
223.9039	-0.168	83308.194	2.5	4D (5D)6F	38660.043	3.5	4P (5D)6D	224.6772	-4.288	20340.300	5.5	D7 (5D)2H	98770.140	1.5	4SP(3D)4D
223.9332	-4.366	105449.540	3.5	5D (5D)4G	60807.230	4.5	4P (3H)4G	224.6916	-1.225	50212.826	2.5	D68 (3P)4P	64831.943	4.5	4P (3D)2D
223.9606	-2.405	105524.461	4.5	4D (3F)4H	60887.598	5.5	4P (3H)4G	224.7109	-1.569	50212.826	2.5	D68 (3F)4F	94700.660	2.5	4P (3F)2D
223.9643	-1.601	33501.253	3.5	D68 (1G)2G	78137.364	3.5	4P (1D)2F	224.7314	-2.001	105291.010	3.5	4D (3F)4G	60807.230	4.5	4P (3H)4G
								224.7442	-4.816	49506.934	1.5	D68 (3P)4P	93988.170	2.5	4SP(5G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
224.7684	0.273	83136.487	3.5	4D (5D)6F	38660.043	2.5	4P (5D)6D	225.6152	-3.189	86710.837	1.5	4D (5D)4F	42401.302	1.5	4P (5D)6F	
224.7896	-1.976	50212.826	2.5	D6S (3P)4P	94685.090	2.5	4SP(5D)6P	225.6438	-1.454	20805.770	4.5	D7 (5D)2H	65109.679	3.5	4P (3F)2G	
224.7965	-3.970	104873.230	3.5	5D (5D)4D	60402.342	2.5	4P (3P)4P	225.6481	-4.110	104705.420	3.5	5D (5D)6D	60402.342	2.5	4P (3P)4P	
224.8089	-4.603	18360.646	1.5	D7 (5D)2P	62829.075	0.5	4P (3F)4D	225.6558	-1.132	105291.010	3.5	4D (3F)4G	60989.444	4.5	4P (3H)4H	
224.8097	-1.922	26055.423	2.5	D6S (3G)4G	70523.706	3.5	4P (3G)2G	225.6560	-3.189	86416.333	3.5	4D (5D)4F	42114.818	4.5	4P (5D)6F	
224.8647	-2.041	105414.180	2.5	4D (3F)4G	60956.781	3.5	4P (3H)4G	225.6595	-4.796	21711.917	3.5	D6S (3H)4H	66012.750	4.5	4P (3G)4F	
224.8957	-1.493	105288.847	6.5	4D (3F)4H	60837.569	6.5	4P (3H)4H	225.6893	-0.425	83308.194	2.5	4D (5D)6F	39013.206	1.5	4P (5D)6D	
224.9060	-0.323	83558.540	2.5	4D (5D)6F	38858.958	2.5	4P (5D)6D	225.7106	-1.319	48039.090	2.5	D7 (5D)2D	92329.890	2.5	4SP(5G)4F	
224.9180	-1.490	0.000	4.5	D6S (5D)6D	44446.878	3.5	4P (5D)4D	225.7390	-3.492	58666.258	3.5	D6S (1G)2G	102951.500	4.5	4SP(3I)4I	
224.9200	-0.096	83459.670	1.5	4D (5D)6F	39013.206	1.5	4P (5D)6D	225.7703	-4.449	20830.582	2.5	D6S (3P)4P	65109.679	3.5	4P (3F)2G	
224.9624	-0.905	105063.550	5.5	4D (3F)4G	60625.449	5.5	4P (3H)4G	225.7783	-0.130	83136.487	3.5	4D (5D)6F	38858.958	2.5	4P (5D)6D	
224.9636	-4.508	16369.360	3.5	D7 (5D)2G	60807.230	4.5	4P (3H)4G	225.8049	-4.079	3117.461	1.5	D7 (5D)4F	47389.779	1.5	4P (5D)4P	
224.9700	-2.651	21812.055	1.5	D6S (3P)4P	66248.660	0.5	4P (3F)2S	225.8115	-1.920	86710.837	1.5	4D (5D)4F	42439.822	0.5	4P (5D)6F	
224.9903	-1.341	105589.420	3.5	4D (3F)4H	61156.835	3.5	4P (3H)4H	225.8295	-1.076	105155.090	4.5	4D (3F)4G	60887.598	5.5	4P (3H)4H	
224.9931	-4.116	31483.176	3.5	D6S (3D)4D	75915.215	2.5	4P (3D)2F	225.8360	-4.411	21812.055	1.5	D6S (3P)4P	66078.269	2.5	4P (3G)4G	
224.9978	-2.582	21581.638	4.5	D6S (3H)4H	66012.750	4.5	4P (3G)4F	225.8387	-2.264	21430.359	5.5	D6S (3H)4H	65696.038	4.5	4P (3G)4G	
225.0246	-4.846	104828.160	2.5	5D (5D)6D	60402.342	2.5	4P (3D)4P	225.8564	-2.017	54273.641	4.5	D5S2(7S)4G	98535.850	3.5	4SP(5D)4F	
225.0408	-2.704	27620.412	2.5	D6S (3F)2F	72043.026	1.5	4P (3D)4P	225.8666	-4.687	54275.637	2.5	D5S2(7S)4G	98535.850	3.5	4SP(5D)4F	
225.0936	-1.842	667.683	2.5	D6S (5D)6D	60402.342	2.5	4P (5D)4F	225.8813	-1.199	105414.180	2.5	4D (3F)4G	61156.835	3.5	4P (3H)4H	
225.1077	-0.824	105398.852	5.5	4D (3F)4H	60989.444	4.5	4P (3H)4H	225.8965	-1.032	105211.140	4.5	5D (5D)4G	60807.230	4.5	4P (3H)4G	
225.1159	-4.346	105449.540	3.5	5D (5D)4G	61041.748	2.5	4P (3H)4G	225.9053	-2.807	54283.220	3.5	D5S2(7S)4G	98535.850	3.5	4SP(5D)4F	
225.1491	-3.101	105288.847	6.5	4D (3F)4H	60887.598	5.5	4P (3H)4H	225.9155	-1.655	105763.270	5.5	4D (3F)2H	61512.634	4.5	4P (3H)4I	
225.1556	-2.234	384.790	3.5	D6S (5D)6D	44784.761	2.5	4P (5D)4D	225.9225	-0.777	105291.010	3.5	4D (3F)4G	61041.748	2.5	4P (3H)4G	
225.1824	-0.610	82853.658	5.5	4D (5D)6D	38458.981	4.5	4P (5D)6D	225.9256	-3.405	48039.090	2.5	D7 (5D)2D	92282.460	3.5	4SP(5G)4F	
225.2607	-3.486	108804.667	3.5	5S (3D)4D	64425.408	2.5	4P (3F)2F	225.9569	-1.828	23031.300	1.5	D6S (3F)4F	67273.826	1.5	4P (3F)2D	
225.2748	-5.325	667.683	2.5	D6S (5D)6D	45044.168	1.5	4P (5D)4D	225.9623	-1.220	33501.253	3.5	D6S (1G)2G	77742.730	2.5	4P (1D)2F	
225.2772	-3.771	86710.837	1.5	4D (5D)4F	42334.822	2.5	4P (5D)6F	225.9801	-4.826	104863.430	5.5	5D (5D)4G	60625.449	5.5	4P (3H)4G	
225.2953	-0.788	105414.180	2.5	4D (3F)4G	61041.748	2.5	4P (3H)4G	225.9920	-2.589	105763.270	5.5	4D (3F)2H	61527.616	6.5	4P (3H)4I	
225.3127	-1.582	384.790	3.5	D6S (5D)6D	44753.799	3.5	4P (5D)4F	225.9952	-2.818	48039.090	2.5	D7 (5D)2D	92274.120	2.5	4P (3P)4F	
225.3198	-0.885	105524.461	4.5	4D (3F)4H	61156.835	3.5	4P (3H)4H	226.0037	-1.554	0.000	4.0	D5S (5D)6D	44232.512	4.5	4P (5D)4F	
225.3262	-2.237	21711.917	3.5	D6S (3H)4H	66078.269	2.5	4P (3G)4G	226.0281	-3.217	54275.637	2.5	D5S2(7S)4G	98505.100	2.5	4SP(5D)4D	
225.3348	-2.740	87985.628	2.5	4D (5D)4P	43620.957	1.5	4P (5D)6P	226.0240	-2.180	977.053	0.5	D6S (5D)6D	45206.450	0.5	4P (5D)4D	
225.3448	-3.148	54232.195	5.5	D5S2(7S)4G	98596.650	4.5	4SP(5D)4F	226.0337	-2.757	49100.976	0.5	D6S (3P)4P	93328.480	1.5	4P (3F)4F	
225.4075	-0.699	83459.670	1.5	4D (5D)6F	42237.033	3.5	4P (5D)6F	226.0415	-1.265	105063.550	5.5	4D (3F)4G	60387.569	6.5	4P (3H)4H	
225.4109	-2.147	21581.638	4.5	D6S (3H)4H	39109.307	0.5	4P (5D)6D	226.0624	-2.438	54283.220	3.5	D5S2(7S)4G	98505.100	2.5	4SP(5D)4D	
225.4156	-3.589	58631.531	4.5	D6S (1G)2G	65931.334	3.5	4P (3G)4G	226.0750	-2.955	21711.917	3.5	D6S (3H)4H	65931.334	3.5	4P (3G)4G	
225.4202	-0.522	105155.090	4.5	4D (3F)4G	60807.230	4.5	4P (3D)4P	226.0860	-2.019	862.613	1.5	D6S (5D)6D	45079.879	2.5	4P (5D)4F	
225.4383	-4.228	27620.412	2.5	D6S (3F)2F	71964.710	2.5	4P (3D)4P	226.1079	-2.688	31387.948	2.5	D6S (3D)4D	73600.931	3.5	4P (3G)4F	
225.4394	-7.804	7955.299	3.5	D6S (5D)6D	45206.450	0.5	4P (5D)4D	226.1824	-1.652	86599.738	2.5	4D (5D)4F	66612.656	1.5	4P (3G)4F	
225.4406	-2.966	862.613	1.5	D6S (5D)6D	67273.826	1.5	4P (3F)2D	226.1830	-0.577	105155.090	4.5	4D (3F)4G	42401.302	1.5	4P (5D)6F	
225.4483	-2.109	22939.358	2.5	D6S (3F)4F	62723.826	1.5	4P (3F)2D	226.1866	-1.613	105291.010	3.5	4D (3F)4G	61093.413	2.5	4P (3P)2D	
225.4895	-0.507	105291.010	3.5	4D (3F)4G	60956.781	3.5	4P (3H)4G	226.2226	-7.924	8391.938	2.5	D6S (5D)4D	52582.510	3.5	4SP(7S)8P	
225.4937	-3.952	49506.934	1.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	226.2247	-4.263	22810.357	3.5	D6S (3F)4F	67000.517	2.5	4P (3F)2D	
225.4959	-2.235	25981.629	3.5	D6S (3G)4G	70314.604	4.5	4P (3G)2G	226.2637	-4.074	48039.090	2.5	D7 (5D)2D	92225.538	1.5	5P (5D)4F	
225.5149	-1.503	18360.646	1.5	D7 (5D)2P	62689.880	2.5	4P (3P)4D	226.2688	-2.009	862.613	1.5	D6S (5D)6D	45044.168	1.5	4P (5D)4D	
225.5190	-1.209	21251.608	6.5	D6S (3H)4H	65580.041	5.5	4P (3G)4G	226.2909	-1.364	48039.090	2.5	D7 (5D)2D	92216.320	1.5	4P (3P)2D	
225.5413	-2.621	49506.934	1.5	D6S (3P)4P	93830.979	2.5	4SP(5D)6D	226.2969	-2.784	105763.270	5.5	4D (3F)2H	61587.214	5.5	4P (3H)4I	
225.5466	-2.795	54273.641	4.5	D5S2(7S)4G	98596.650	4.5	4SP(5D)4F	226.3229	-4.423	105063.550	5.5	4D (3F)4G	60887.598	5.5	4P (3H)4G	
225.5580	-1.549	105414.180	2.5	4D (3F)4G	61093.413	2.5	4P (3P)2D	226.3232	-0.584	26352.766	4.5	D6S (3H)2H	70523.706	3.5	4P (3G)2G	
225.5643	-0.264	48039.090	2.5	D7 (5D)2D	9358.610	1.5	4SP(5G)4F	226.3503	-2.057	105155.090	4.5	4D (3F)4G	60989.444	4.5	4P (3H)4H	
225.5689	-2.241	82978.677	4.5	4D (5D)6F	38660.043	3.5	4P (5D)6D	226.3647	-4.398	57411.065	2.5	D5S2(7S)4F	101573.900	1.5	4SP(5D)4F	
225.5740	-3.392	31811.822	2.5	D7 (5D)2F	76129.446	1.5	4P (1S)2P	226.3984	-4.194	86124.061	4.5	4D (5D)4F	41968.046	5.5	4P (5D)6F	
225.5766	-0.737	20516.960	2.5	D7 (5D)2D	64834.073	1.5	4P (3P)2P	226.4321	-3.703	21430.359	5.5	D6S (3H)4H	65580.041	5.5	4P (3G)4G	
225.5953	-2.781	54283.220	3.5	D5S2(7S)4G	98596.650	4.5	4SP(5D)4F									
225.5988	-4.713	977.053	0.5	D6S (5D)6D	45289.801	1.5	4P (5D)4F									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
226.4591	-0.471	26170.181	5.5	D6S (3H)2H	70314.604	4.5	4P (3G)2G	227.5064	-1.761	105288.847	6.5	4D (3F)4H	61347.614	7.5	4P (3H)4I
226.5032	-3.695	50075.910	1.5	D6S (3F)4F	94211.739	2.5	4SP(5P)4P	227.5270	-2.232	105524.461	4.5	4D (3F)4H	61587.214	5.5	4P (3H)4I
226.5117	-2.586	105291.010	3.5	4D (3F)4G	61156.835	3.5	4P (3H)4H	227.5478	-1.738	21430.359	5.5	D6S (3H)4H	65363.595	5.5	4P (3H)2H
226.5201	-3.156	54063.459	0.5	D6S (3P)2P	98196.000	1.5	4SP(5D)4F	227.5622	-1.075	50142.786	2.5	D6S (3F)4F	94073.240	3.5	4SP(5G)4G
226.5357	-3.798	2837.950	2.5	D7 (5D)4F	46967.444	2.5	4P (5D)4F	227.6053	-2.607	862.613	1.5	D6S (5D)6D	44784.761	2.5	4P (5D)4D
226.5541	-2.234	21430.359	5.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H	227.6145	-2.289	54275.637	2.5	D5S2(7S)4G	98196.000	1.5	4SP(5D)4F
226.5960	-2.046	31483.176	3.5	D6S (3D)4D	75600.931	3.5	4P (3D)2F	227.6363	-1.616	31999.048	3.5	D7 (5D)2F	75915.215	2.5	4P (3D)2F
226.5964	-3.347	54273.641	4.5	D5S2(7S)4G	98391.330	3.5	4SP(5D)4D	227.6382	-2.891	50157.442	4.5	D6S (3F)4F	94073.240	3.5	4SP(5G)4G
226.5995	-1.948	667.683	2.5	D6S (5D)6D	44784.761	2.5	4P (5D)4F	227.6565	-1.231	50075.910	1.5	D6S (3F)4F	93988.170	2.5	4SP(5G)4G
226.6133	-2.725	21581.638	4.5	D6S (3H)4H	65696.038	4.5	4P (3G)4G	227.6593	-4.728	104868.500	4.5	5D (5D)6G	60956.781	3.5	4P (3H)4G
226.6257	-5.380	21251.608	6.5	D6S (3H)4H	65363.595	5.5	4P (3H)2H	227.6731	-3.364	57493.321	1.5	D5S2(7S)4P	101402.380	0.5	4SP(5D)4F
226.6456	-3.951	54283.220	3.5	D5S2(7S)4G	98391.330	3.5	4SP(5D)4F	227.6763	-2.776	20516.960	2.5	D7 (5D)2D	64425.408	2.5	4P (3F)2F
226.6596	-4.538	54902.315	1.5	D6S (3P)2P	99007.700	0.5	4SP(5D)4D	227.6814	-7.399	8391.938	2.5	D6S (5D)4D	52299.390	2.5	4SP(7S)8P
226.6698	-1.231	31811.822	2.5	D7 (5D)2F	75915.215	2.5	4P (3D)2F	227.7184	-2.661	50157.442	4.5	D6S (3F)4F	94057.773	4.5	4SP(5D)6D
226.7587	-1.607	667.683	2.5	D6S (5D)6D	44753.799	3.5	4P (5D)4F	227.7221	-3.924	54870.528	2.5	D6S (3F)2F	98770.140	1.5	4SP(5D)4D
226.7591	-4.372	105127.770	2.5	5D (5D)4D	61041.748	2.5	4P (3H)4G	227.7295	-4.674	104705.420	3.5	5D (5D)6D	60807.230	4.5	4P (3H)4G
226.7823	-1.500	86416.333	3.5	4D (5D)4F	42334.822	2.5	4P (5D)6F	227.7329	-4.626	105230.290	0.5	5D (5D)4D	61332.764	1.5	4P (3F)4F
226.7828	-3.437	105414.180	2.5	4D (3F)4G	61332.764	1.5	4P (3P)4P	227.7802	-1.563	49506.934	1.5	D6S (3P)4P	93395.360	2.5	4P (3F)4F
226.7871	-3.873	57493.321	1.5	D5S2(7S)4F	101573.900	1.5	4SP(5D)4P	227.7862	-1.482	86124.301	4.5	4D (5D)4F	42237.033	3.5	4P (5D)6F
226.7952	-3.289	54275.637	2.5	D5S2(7S)4G	98354.660	2.5	4SP(5D)4F	227.7916	-3.502	105398.852	5.5	4D (3F)4H	61512.634	4.5	4P (3H)4I
226.8067	-2.112	105589.420	3.5	4D (3F)4H	61512.634	4.5	4P (3H)4I	227.7957	-1.495	50187.813	3.5	D6S (3F)4F	94073.240	3.5	4SP(5G)4G
226.8137	-1.585	18886.780	0.5	D7 (5D)2P	62962.205	1.5	4P (3P)4D	227.8038	-2.980	18360.646	1.5	D7 (5D)2P	62244.520	1.5	4P (3F)4F
226.8205	-1.729	105063.550	5.5	4D (3F)4G	60989.444	4.5	4P (3H)4H	227.8694	-2.280	105398.852	5.5	4D (3F)4H	61527.616	6.5	4P (3H)4I
226.8342	-2.488	54283.220	3.5	D5S2(7S)4G	98354.660	2.5	4SP(5D)4F	227.8871	-2.997	54902.315	1.5	D6S (3P)2P	98770.140	1.5	4SP(5D)4D
226.8470	-3.529	50142.786	2.5	D6S (3F)4F	94211.739	2.5	4SP(5D)4P	227.9104	-2.022	105589.420	3.5	4D (3F)4H	61726.077	3.5	4P (3P)4D
226.8564	-2.561	977.053	0.5	D6S (5D)6D	45044.168	1.5	4P (5D)4F	227.9128	-2.837	25787.598	1.5	D6S (3P)2P	69650.484	2.5	4P (3G)2F
226.8622	-4.405	104873.230	3.5	5D (5D)4D	60807.230	4.5	4P (3H)4G	227.9256	-4.829	50212.826	2.5	D6S (3F)4P	94073.240	3.5	4SP(5G)4G
226.8795	-4.445	54275.637	2.5	D5S2(7S)4G	44446.878	3.5	4SP(5D)4S	227.9256	-4.829	50212.826	2.5	D6S (3F)4P	94073.240	3.5	4SP(5G)4G
226.8823	-1.163	384.790	3.5	D6S (5D)6D	67000.517	2.5	4P (3F)2D	227.9916	-1.377	384.790	3.5	D6S (5D)6D	44232.512	4.5	4P (5D)4F
226.8871	-1.980	22939.358	2.5	D6S (3F)4F	98338.280	1.5	4SP(5D)4S	228.0038	-1.666	50142.786	2.5	D6S (3F)4F	93988.170	2.5	4SP(5D)6D
226.9127	-3.974	104863.430	5.5	5D (5D)4G	60807.230	4.5	4P (3H)4G	228.0091	-2.157	21711.917	3.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H
226.9622	-4.036	54232.195	5.5	D5S2(7S)4G	98278.770	5.5	4P (1G)2H	228.0091	-2.157	21711.917	3.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H
227.0212	-3.226	26637.205	4.5	D6S (3F)4F	66672.334	3.5	4P (3G)4H	228.0091	-2.157	21711.917	3.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H
227.0252	-3.742	105127.770	2.5	5D (5D)4D	61093.413	2.5	4P (3P)2D	228.0195	-2.661	32064.485	3.5	D6S (3G)2G	74606.841	2.5	4P (3P)2D
227.0323	-6.244	16369.360	3.5	D7 (5D)2G	60402.342	2.5	4P (3P)4P	228.0380	-2.915	22409.852	0.5	D6S (3P)4P	66248.660	0.5	4P (3P)2S
227.0352	-0.720	50157.452	4.5	D6S (3F)4F	94189.880	5.5	4SP(5G)4G	228.0838	-3.328	50157.452	4.5	D6S (3F)4F	66463.528	5.5	4P (3G)4H
227.0571	-1.821	54870.528	2.5	D6S (3F)2F	98998.710	3.5	4P (1G)2F	228.1030	-2.325	22637.205	4.5	D6S (3F)4F	66463.528	5.5	4P (3G)4H
227.0674	-4.347	20805.770	4.5	D7 (5D)2H	64831.943	4.5	4P (3F)2G	228.1156	-3.959	57578.484	0.5	D5S2(7S)4P	101402.380	0.5	4SP(5D)4P
227.0790	-3.420	50187.813	3.5	D6S (3F)4F	94211.739	2.5	4SP(5P)4P	228.1179	-2.667	49506.934	1.5	D6S (3P)4P	93328.480	1.5	4P (3F)4F
227.1414	-1.189	105524.461	4.5	4D (3F)4H	61512.634	4.5	4P (3H)4I	228.1794	-0.967	105398.852	5.5	4D (3F)4H	61587.214	5.5	4P (3H)4I
227.1535	-1.845	86124.301	4.5	4D (5D)4F	42114.818	4.5	4P (5D)6F	228.2337	-3.768	25805.328	4.5	D6S (3G)4G	69606.552	3.5	4P (3G)2F
227.1845	-2.242	20830.582	2.5	D6S (3P)4P	64834.073	1.5	4P (3P)2P	228.2382	-2.783	50187.813	3.5	D6S (3F)4F	93988.170	2.5	4SP(5G)4G
227.2081	-1.716	50212.826	2.5	D6S (3P)4P	94211.739	2.5	4SP(5P)4P	228.2419	-2.487	50187.813	3.5	D6S (3F)4F	93988.170	2.5	4SP(5G)4G
227.2108	-2.459	21581.638	4.5	D6S (3H)4H	65580.041	5.5	4P (3G)4G	228.2479	-2.258	108630.429	5.5	5S (11)2I	64831.943	4.5	4P (3F)2G
227.2115	-4.251	105155.090	4.5	4D (3F)4G	61156.835	3.5	4P (3H)4H	228.2485	-1.535	105524.461	4.5	4D (3F)4H	61726.077	3.5	4P (3P)4D
227.2262	-3.261	57578.484	0.5	D5S2(7S)4P	101573.900	1.5	4SP(5D)4P	228.2661	-4.032	105127.770	2.5	5D (5D)4D	61332.764	1.5	4P (3P)4D
227.2310	-1.339	54904.222	3.5	D6S (3F)2F	98998.710	3.5	4P (1G)2F	228.2874	-3.026	18360.646	1.5	D7 (5D)2P	62151.561	2.5	4P (3F)4F
227.2487	-1.596	50157.452	4.5	D6S (3F)4F	94148.510	4.5	4SP(5G)4G	228.2968	-2.352	31811.822	2.5	D7 (5D)2F	75600.931	3.5	4P (3F)2G
227.2845	-4.655	21711.917	3.5	D6S (3H)4H	65696.038	4.5	4P (3G)4G	228.3128	-4.384	104593.270	5.5	5D (5D)6G	60807.230	4.5	4P (3H)4G
227.3335	-2.933	21581.638	4.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H	228.3341	-2.328	21581.638	4.5	D6S (3H)4H	65363.595	5.5	4P (3H)2H
227.3435	-3.320	108804.667	3.5	5S (3D)4D	64831.943	4.5	4P (3F)2G	228.3485	-3.214	667.683	2.5	D6S (5D)6D	44446.878	3.5	4P (5D)4D
227.3616	-2.634	23031.300	1.5	D6S (3F)4F	67000.517	2.5	4P (3P)2D	228.3514	-2.488	22810.357	3.5	D6S (3F)4F	66589.008	4.5	4P (3G)4H
227.3998	-1.987	26352.766	4.5	D6S (3H)2H	70314.604	4.5	4P (3G)2G	228.3528	-1.368	105291.010	3.5	4D (3F)4G	61512.634	4.5	4P (3H)4I
227.4057	-0.889	50187.813	3.5	D6S (3F)4F	94148.510	4.5	4SP(5G)4G	228.3686	-4.619	50212.826	2.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G
227.4290	-7.446	23317.633	2.5	D5S2(7S)6S	67273.826	1.5	4P (3P)2D	228.3723	-3.703	50212.826	2.5	D6S (3P)4P	93987.457	3.5	4SP(5D)6D
227.4517	-2.191	26337.205	4.5	D6S (3F)4F	66589.008	4.5	4P (3G)4H	228.3997	-1.177	50216.960	2.5	D7 (5D)2D	64286.345	3.5	4P (3F)2F
227.5009	-3.675	18886.780	0.5	D7 (5D)2P	62829.075	0.5	4P (3G)4H	228.4228	-2.134	18360.646	1.5	D7 (5D)2P	62125.600	1.5	4P (3P)2D
227.5049	-4.134	86599.738	2.5	4D (5D)4F	42658.224	3.5	4P (5D)6F	228.4256	-3.822	50075.910	1.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
228.4423	-1.001	105288.847	6.5	4D (3F)4H	61527.616	6.5	4P (3E)4I	229.6662	-1.450	21581.638	4.5	D6S (3H)4H	65109.679	3.5	4P (3F)2G
228.4586	-2.417	86416.333	3.5	4D (5D)4F	42658.224	3.5	4P (5D)6P	229.6746	-3.602	60441.033	1.5	D5S2(7S)4D	103967.490	0.5	4SP(3F)2S
228.4745	-3.477	50075.910	1.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	229.6768	-1.939	21308.040	1.5	D7 (5D)2D	64834.073	1.5	4P (3F)2P
228.5460	-4.682	104366.820	6.5	5D (5D)6G	60625.449	5.5	4P (3H)4G	229.6879	-1.527	20510.960	2.5	D7 (5D)2D	64040.886	3.5	4P (3F)4G
228.5528	-2.594	22637.205	4.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F	229.6881	-1.563	105589.420	3.5	4P (3F)4H	62065.521	3.5	4P (3F)4F
228.5806	-4.668	104828.160	2.5	5D (5D)6D	61093.413	2.5	4P (3F)2D	229.7044	-4.403	54870.528	2.5	D6S (3F)2F	98391.330	3.5	4SP(5D)4D
228.5899	-2.721	22939.358	2.5	D6S (3F)4F	66672.334	3.5	4P (3G)4H	229.7377	-4.956	25787.598	1.5	D6S (3F)2P	69302.090	1.5	4SP(5S)4P
228.6766	-4.748	104873.230	3.5	5D (5D)4D	61156.835	3.5	4P (3H)4F	229.7809	-3.352	105589.420	3.5	4D (3F)4H	62083.108	4.5	4P (3H)2G
228.6999	-2.848	22810.357	3.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	229.8225	-1.247	21308.040	1.5	D7 (5D)2D	64806.487	0.5	4P (3F)2P
228.7165	-4.551	58631.531	4.5	D6S (1G)2G	102340.300	5.5	4SP(3I)4K	229.8618	-1.909	23031.300	1.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F
228.7538	-1.560	105288.847	6.5	4D (3F)4H	61587.214	5.5	4P (3H)4I	229.8824	-3.370	54904.222	3.5	D6S (3F)2F	98391.330	3.5	4SP(5D)4D
228.7886	-3.853	108804.667	3.5	5S (3D)4D	65109.679	3.5	4P (3F)2G	229.8932	-3.536	105211.140	4.5	5D (5D)4G	61726.077	3.5	4P (3F)4D
228.8020	-3.412	54904.222	3.5	D6S (3F)2F	98396.650	4.5	4SP(5D)4F	229.8981	-4.394	54870.528	2.5	D6S (3F)2F	98354.660	2.5	4SP(5D)4F
228.8152	-1.246	104315.370	6.5	4D (3H)2K	60625.449	5.5	4P (3H)4G	229.9169	-2.872	20803.770	4.5	D7 (5D)2H	64286.345	3.5	4P (3F)2F
228.8232	-4.368	18360.646	1.5	D7 (5D)2P	62049.025	2.5	4SP(7S)6P	229.9243	-4.836	105630.750	2.5	5D (5D)4G	62151.561	2.5	4P (3F)4F
228.8342	-2.603	50142.786	2.5	D6S (3F)4F	93830.979	2.5	4SP(5G)6D	229.9316	-1.655	104315.370	6.5	4D (3H)2K	60837.569	6.5	4P (3H)4H
228.8247	-1.983	105414.180	2.5	4D (3F)4G	61726.077	3.5	4P (3P)4D	229.9394	-1.823	105063.550	5.5	4D (3F)4G	61587.214	5.5	4P (3H)4I
228.8520	-6.407	23317.633	2.5	D5S2(7S)6S	67000.517	2.5	4P (3F)2D	229.9610	-3.965	86710.837	1.5	4D (5D)4F	43238.586	2.5	4P (5D)6P
228.8663	-0.078	105763.270	5.5	4D (3F)2H	62083.108	4.5	4P (3H)2I	229.9723	-1.198	105763.270	5.5	4D (3F)2H	62293.164	6.5	4P (3H)2I
228.9023	-2.958	22939.358	2.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	229.9848	-4.047	54870.528	2.5	D6S (3F)2F	98338.280	1.5	4SP(5P)4S
228.9256	-3.012	25981.629	3.5	D6S (3G)4G	69650.484	2.5	4P (3G)2F	229.9936	-1.224	86124.301	4.5	4D (5D)4F	42658.224	3.5	4P (5D)6P
228.9441	-4.793	54870.528	2.5	D6S (3F)2F	98355.850	3.5	4SP(5D)4F	230.0314	-0.930	105524.461	4.5	4D (3F)4H	62065.521	3.5	4P (3F)4F
228.9578	-4.782	105711.730	2.5	5D (5D)6S	62049.025	2.5	4SP(7S)6P	230.0482	-2.752	20830.582	2.5	D6S (3F)4P	64286.345	3.5	4P (3F)2F
229.0641	-1.132	105155.090	4.5	4D (3F)4G	61512.634	4.5	4P (3H)4I	230.0663	-2.887	54902.315	1.5	D6S (3F)2P	98354.660	2.5	4SP(5D)4F
229.0802	-3.896	25787.598	1.5	D6S (3P)2P	9426.980	0.5	4SP(5S)4F	230.0764	-2.666	54904.222	3.5	D6S (3F)2F	98354.660	2.5	4SP(5D)4F
229.1209	-3.317	54904.222	3.5	D6S (3F)2F	98355.850	3.5	4SP(7S)6P	230.1246	-2.993	105524.461	4.5	4D (3F)4H	62083.108	4.5	4P (3H)2G
229.1425	-2.299	50212.826	2.5	D6S (3F)4P	93840.340	1.5	4SP(5D)6D	230.1358	-1.179	104064.670	6.5	4D (3H)4I	60625.449	5.5	4P (3H)4G
229.1561	-2.128	25981.629	3.5	D6S (3G)4G	69606.552	3.5	4P (3G)2F	230.1427	-1.581	22939.358	2.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F
229.1876	-7.932	86880.454	1.5	D6S (3D)4D	62299.390	2.5	4SP(7S)8P	230.1431	-0.804	105589.420	3.5	4D (3F)4H	62151.561	2.5	4P (3F)4F
229.1917	-1.958	22917.171	1.5	D6S (3P)4P	93830.979	2.5	4SP(5D)6D	230.1531	-2.674	54902.315	1.5	D6S (3F)2P	98338.280	1.5	4SP(5P)4S
229.2120	-3.921	18360.646	1.5	D7 (5D)2P	61974.933	1.5	4SP(7S)6P	230.1899	-0.386	105155.090	4.5	4D (3F)4G	61726.077	3.5	4P (3F)4D
229.2425	-2.243	20340.300	5.5	D7 (5D)2H	63948.790	4.5	4P (3F)4G	230.1965	-2.475	104315.370	6.5	4D (3H)2K	60887.598	5.5	4P (3H)4H
229.2600	-3.613	105763.270	5.5	4D (3F)2H	62158.110	4.5	4P (3F)4F	230.2494	-3.454	105589.420	3.5	4D (5D)4D	61726.077	3.5	4P (3F)4D
229.2725	-4.208	54902.315	1.5	D6S (3P)2P	98505.100	2.5	4SP(5D)4D	230.3349	-3.148	105127.770	2.5	5D (5D)4D	64831.943	4.5	4P (3F)2G
229.2772	-1.214	31999.048	3.5	D7 (5D)2F	75600.931	3.5	4SP(5D)4D	230.3354	-1.160	21430.359	5.5	D6S (3H)4H	64831.943	4.5	4P (3F)2G
229.2825	-3.963	54904.222	3.5	D6S (3F)2F	98505.100	2.5	4SP(5D)4D	230.3557	-2.111	21711.917	3.5	D6S (3H)4H	65109.679	3.5	4P (3F)2G
229.3131	-2.050	26055.423	2.5	D6S (3G)4G	69650.484	2.5	4P (3G)2F	230.3758	-4.750	85728.806	1.5	4D (5D)4S	42334.822	2.5	4P (5D)6F
229.3143	-5.785	20830.582	2.5	D6S (3F)4P	64425.408	2.5	4P (3F)2F	230.3849	-0.793	49506.934	1.5	D6S (3P)4P	92899.200	2.5	4P (3F)4D
229.3759	-3.526	60384.370	0.5	D5S2(7S)4D	103967.490	0.5	4SP(3P)2S	230.4170	-3.876	105630.750	2.5	5D (5D)4G	62244.520	1.5	4P (3F)4F
229.3769	-1.251	22939.358	2.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	230.4737	-1.089	22637.205	4.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F
229.3852	-1.457	23031.300	1.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	230.4907	-0.559	88157.116	1.5	4D (5D)4P	44784.761	2.5	4P (5D)4D
229.3859	-1.659	30388.542	4.5	D6S (3G)2G	73969.767	5.5	4P (1I)2I	230.5189	-0.669	104174.270	5.5	4D (3H)4I	60807.230	4.5	4P (3H)4G
229.3862	-4.841	103983.510	3.5	5S (3G)2G	60402.342	2.5	4P (3P)4P	230.5226	-1.294	105524.461	4.5	4D (3F)4H	62158.110	4.5	4P (3F)4F
229.4044	-4.770	54273.641	4.5	D5S2(7S)4G	97851.350	4.5	4P (1G)2H	230.5289	-3.391	105414.180	2.5	4D (3F)4G	62049.025	2.5	4SP(7S)6P
229.4426	-2.602	20516.960	2.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	230.5418	-3.415	30388.542	4.5	D6S (3G)2G	73751.282	4.5	4P (1I)2H
229.4562	-1.042	105155.090	4.5	4D (3F)4F	61587.214	5.5	4P (3H)4I	230.5502	-2.496	86599.738	2.5	4D (5D)4F	43238.586	2.5	4P (5D)6P
229.4612	-1.061	22810.357	3.5	D6S (3F)4F	66377.283	3.5	4P (3G)4I	230.5684	-2.178	18886.780	0.5	D7 (5D)2P	62244.520	1.5	4P (3F)4F
229.4717	-1.310	105291.010	3.5	4D (3F)4G	61726.077	3.5	4P (3P)4D	230.5845	-9.548	23317.633	2.5	D5S2(7S)6S	66672.334	3.5	4P (3G)4H
229.5444	-3.957	26055.423	2.5	D6S (3G)4G	69606.552	3.5	4P (3G)2F	230.5944	-3.253	105524.461	4.5	4D (3F)4H	62171.615	3.5	4SP(7S)6P
229.5456	-1.702	105063.550	5.5	4D (3F)4G	61512.634	4.5	4P (3H)4I	230.5963	-0.732	49100.976	0.5	D6S (3P)4P	92453.460	0.5	4SP(7S)6P
229.5566	-1.884	104174.270	5.5	4D (3H)4I	60625.449	5.5	4P (3H)4G	230.6167	-1.348	105414.180	2.5	4D (3F)4G	62065.521	3.5	4P (3F)4F
229.5579	-4.705	104705.420	3.5	5D (5D)6D	61156.835	3.5	4P (3H)4H	230.6200	-4.954	85462.862	3.5	4D (5D)4G	42114.818	4.5	4P (5D)6F
229.5687	-1.042	49100.976	0.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D	230.6368	-4.947	85679.698	2.5	4D (5D)4G	42334.822	2.5	4P (5D)6F
229.6010	-3.684	105589.420	3.5	4D (3F)4F	62049.025	2.5	4SP(7S)6P	230.6369	-0.665	50142.786	2.5	D6S (3F)4F	93487.650	3.5	4P (3F)4E
229.6025	-4.608	105711.730	2.5	5D (5D)6S	62171.615	3.5	4SP(7S)6P	230.6651	-4.500	105063.550	3.5	5D (5D)6G	61726.077	3.5	4P (3F)4D
229.6097	-0.314	97985.628	2.5	4D (5D)4P	44446.878	3.5	4P (5D)4D	230.6803	-1.983	104174.270	5.5	4D (3H)4I	60837.569	6.5	4P (3H)4H
229.6241	-3.941	20340.300	5.5	D7 (5D)2H	63876.317	5.5	4P (3F)4G	230.7149	-1.708	105157.452	4.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F
229.6246	-1.447	105063.550	5.5	4D (3F)4G	61527.616	6.5	4P (3H)4I	230.7293	-4.343	85728.806	1.5	4D (5D)4S	42401.302	1.5	4P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
230.7313	-0.236	50157.452	4.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F	231.5332	-1.093	104064.670	6.5	4D (3H)4I	60887.598	5.5	4P (3H)4H
230.7401	-2.757	54870.528	2.5	D6S (3F)2F	98196.000	1.5	4SP(5D)4F	231.5375	-4.964	103983.510	3.5	5S (3G)2G	60807.230	4.5	4P (3H)4G
230.7722	-0.767	50075.910	1.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	231.5730	0.113	105414.180	2.5	4D (3F)4G	62244.520	1.5	4P (3F)4F
230.7919	-1.461	105398.852	5.5	4D (3F)4H	62083.108	4.5	4P (3H)2G	231.6222	-3.508	85495.304	2.5	4D (5D)6S	42334.822	2.5	4P (5D)6F
230.7971	-4.092	25787.598	1.5	D6S (3F)2P	69102.380	2.5	4SP(5H)4F	231.6938	-2.764	104873.230	3.5	5D (5D)4D	61726.077	3.5	4P (3F)4D
230.8767	0.059	50187.813	3.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F	231.7020	-4.522	105211.140	4.5	5D (5D)4G	62065.521	3.5	4P (3F)4F
230.8866	-3.752	105449.540	3.5	5D (5D)4G	62151.561	2.5	4P (3F)4F	231.7061	0.898	88189.030	0.5	4D (5D)4F	45044.168	1.5	4P (5D)4D
230.8931	-0.673	50187.813	3.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F	231.7160	-3.855	20805.770	4.5	D7 (5D)2H	63948.168	1.5	4P (3F)4G
230.9024	-2.539	23317.633	2.5	D5S2(7S)6S	66612.656	1.5	4P (3G)4F	231.7291	-0.499	49506.934	1.5	D6S (3F)4F	92647.510	1.5	4P (3F)4D
230.9072	-3.978	22637.205	4.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	231.7352	0.149	105291.010	3.5	4D (3F)4G	62151.561	2.5	4P (3F)4F
230.9095	-3.336	54902.315	1.5	D6S (3P)2P	98196.000	1.5	4SP(5D)4F	231.7381	-1.751	22939.358	2.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G
230.9346	-4.756	85728.806	1.5	4D (5D)4F	42401.302	1.5	4P (3D)4G	231.7665	-2.502	31368.440	1.5	D6S (3D)4D	74498.037	1.5	4P (3F)4F
230.9368	-1.247	105414.180	2.5	4D (3F)4G	62125.600	1.5	4P (3P)2D	231.7704	-1.356	105291.010	3.5	4D (3F)4G	74498.037	1.5	4P (3F)4F
230.9470	-0.104	104174.270	5.5	4D (3H)4I	60887.598	5.5	4P (3H)4H	231.7881	-2.553	31368.440	0.5	D6S (3D)4D	74498.037	1.5	4P (3F)4F
230.9553	-0.913	108648.695	6.5	5S (1I)2I	65363.595	5.5	4P (3H)2H	231.7965	-2.501	85462.862	3.5	4D (5D)4G	42334.822	2.5	4P (5D)6F
230.9711	-3.053	104119.710	7.5	4D (3H)2K	60837.569	6.5	4P (3H)4H	231.7965	-4.891	105211.140	4.5	5D (5D)4G	62083.108	4.5	4P (3H)2G
231.0102	-0.425	50212.826	2.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F	231.8063	0.479	103751.660	5.5	4D (3H)4H	60625.449	5.5	4P (5D)4P
231.0471	-5.340	22810.357	3.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G	231.8152	-0.308	49100.976	0.5	D6S (3P)4P	92225.538	1.5	5P (3H)4P
231.0520	-1.991	105589.420	3.5	4D (3F)4H	62322.431	3.5	4P (3H)2G	231.8200	-1.688	31483.176	3.5	D6S (3D)4D	74606.841	2.5	4P (3D)2D
231.0529	-2.978	108630.429	5.5	5S (1I)2I	65363.595	5.5	4P (3H)2H	231.8345	-1.378	22980.357	3.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G
231.0743	-3.189	54063.459	0.5	D6S (3P)2P	97326.270	1.5	4SP(3H)2H	231.8396	-5.245	21711.917	3.5	D6S (3G)4G	69102.380	2.5	4SP(5S)4F
231.0754	-0.624	105414.180	2.5	4D (3F)4G	62151.561	2.5	4P (3F)4F	231.8396	-3.442	21711.917	3.5	D6S (3H)4H	64831.943	4.5	4P (3F)2G
231.0986	-2.437	85495.304	2.5	4D (5D)6S	42237.033	3.5	4P (5D)6F	231.8430	-2.704	105291.010	3.5	4D (3F)4G	62171.615	3.5	4SP(7S)6P
231.1020	-2.571	49100.976	0.5	D6S (3F)4F	92358.610	1.5	4SP(5G)4F	231.8539	-1.511	21308.040	1.5	D7 (5D)2D	64425.408	2.5	4P (3F)2F
231.1063	-7.235	20830.582	2.5	D6S (3P)4P	64087.418	2.5	4P (3F)4G	231.8547	-2.222	36126.387	1.5	D6S (3D)2D	79243.687	1.5	4P (1D)2P
231.1226	-1.006	26352.766	4.5	D6S (3H)2H	69606.552	3.5	4P (3G)2F	231.8631	-4.017	50212.826	2.5	D6S (3P)4F	93328.480	1.5	4P (3F)4F
231.1290	-0.110	50142.786	2.5	D6S (3F)4F	93395.360	2.5	4P (3G)2F	231.8648	-2.348	49100.976	0.5	D6S (3P)4P	92216.320	1.5	4P (3P)2D
231.1291	-0.321	50075.910	1.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	231.8776	-0.751	88157.116	1.5	4D (5D)4P	45044.168	1.5	4P (5D)4D
231.1412	-3.619	21581.638	4.5	D6S (3H)4H	64831.943	4.5	4P (3F)2G	231.8929	-3.080	31387.948	2.5	D6S (3D)4D	74498.037	1.5	4P (3D)2D
231.1514	-4.166	108804.667	3.5	5S (3D)4D	65556.280	4.5	4P (3H)2H	231.9009	-1.436	108804.667	3.5	5S (3D)4D	65696.038	4.5	4P (3G)4G
231.1606	-5.966	26055.423	2.5	D6S (3G)4G	69302.090	1.5	4SP(3S)4P	231.9167	-3.387	105398.852	5.5	4D (3F)4H	62293.164	6.5	4P (3P)2I
231.1834	-2.965	31364.440	1.5	D6S (3D)4D	74606.841	2.5	4P (3D)2D	231.9221	-4.150	105230.290	0.5	5D (5D)6D	61726.077	3.5	4P (3P)4D
231.1856	-2.780	105291.010	3.5	4D (3F)4G	62049.025	2.5	4SP(7S)6P	231.9361	-1.714	105763.270	5.5	4D (3F)2H	62662.244	5.5	4P (3H)2I
231.1923	-0.908	105398.852	5.5	4D (3F)4H	62158.110	4.5	4P (3F)4F	231.9418	-1.714	105763.270	5.5	4D (3F)2H	62662.244	5.5	4P (3H)2I
231.2026	-1.235	18886.780	0.5	D7 (5D)2H	62158.110	4.5	4P (3F)4F	231.9719	-4.984	85495.304	2.5	4D (5D)6S	42401.302	1.5	4P (5D)6F
231.2224	-2.271	20805.770	4.5	D7 (5D)2H	62158.110	4.5	4P (3F)4F	231.9917	-3.211	86710.837	1.5	4D (5D)4F	43620.957	1.5	4P (5D)6P
231.2400	-1.379	87985.628	2.5	4D (5D)4P	44753.799	3.5	4P (5D)4F	232.0018	-3.211	86710.837	1.5	4D (5D)4F	43620.957	1.5	4P (5D)6P
231.2652	-0.110	104064.670	6.5	4D (3H)4I	60837.569	6.5	4P (3H)4H	232.0035	0.029	105155.090	4.5	4D (3F)4G	62065.521	3.5	4P (3F)4F
231.3174	-3.686	23031.300	1.5	D6S (3F)4F	66248.660	0.5	4P (3P)2S	232.0111	-2.816	18886.780	0.5	D7 (5D)2P	61974.933	1.5	4SP(7S)6P
231.3092	-2.119	31387.948	2.5	D6S (3D)4D	74606.841	2.5	4P (3D)2D	232.0111	-2.816	18886.780	0.5	D7 (5D)2P	61974.933	1.5	4SP(7S)6P
231.3210	-3.562	85184.734	4.5	4D (5D)4G	41968.046	5.5	4P (5D)6F	232.0865	-0.887	108630.429	5.5	5S (1I)2I	65556.280	4.5	4P (3H)2H
231.3302	-0.784	30388.542	4.5	D6S (3G)2G	73603.500	5.5	4P (1I)2H	232.0982	-1.933	105155.090	4.5	4D (3F)4G	62083.108	4.5	4P (3H)2G
231.3365	-1.126	49100.976	0.5	D6S (3P)4P	92314.758	0.5	5P (5D)4F	232.1093	-3.796	85184.734	4.5	4D (5D)4G	42114.818	4.5	4P (5D)6F
231.3552	-2.901	20830.582	2.5	D6S (3F)4P	64040.886	3.5	4P (3F)4G	232.1161	-1.267	108648.695	6.5	5S (1I)2I	65580.041	5.5	4P (3G)4G
231.3633	-0.083	27314.922	3.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	232.1425	-4.167	60270.339	3.5	D5S2(7S)4D	103334.100	2.5	4SP(3D)2F
231.3680	-2.098	105291.010	3.5	4D (3F)4G	62083.108	4.5	4P (3H)2G	232.1507	-4.800	105127.770	2.5	5D (5D)4D	62065.521	3.5	4P (3F)4F
231.3699	-1.428	50187.813	3.5	D6S (3F)4F	93395.360	2.5	4P (3G)4F	232.1647	-6.079	23317.633	2.5	D5S2(7S)6S	66377.283	3.5	4P (3G)4F
231.3853	-6.445	23317.633	2.5	D5S2(7S)6S	62322.431	3.5	4P (3F)4F	232.2631	-1.043	22637.205	4.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G
231.3975	-1.302	22810.357	3.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F	232.2146	-3.474	108630.429	5.5	5S (1I)2I	65580.041	5.5	4P (3G)4G
231.3995	-2.381	105524.461	4.5	4D (3F)4H	62322.431	3.5	4P (3H)2G	232.2331	-1.150	23031.300	1.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G
231.4057	-0.841	87985.628	2.5	4D (5D)4P	44784.761	2.5	4P (5D)4D	232.2631	-7.524	26055.423	2.5	D6S (3G)4G	69102.380	2.5	4SP(5S)4F
231.4723	-1.491	49506.934	1.5	D6S (3P)4P	92695.374	2.5	4P (3P)2D	232.2665	-0.668	103878.340	7.5	4D (3H)4I	60837.569	6.5	4P (5S)4P
231.4870	-1.180	50142.786	2.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	232.3423	-3.816	103983.510	3.5	5S (3G)2G	60956.781	3.5	4P (3H)4G
231.4917	-0.952	104174.270	5.5	4D (3H)4I	60989.444	4.5	4P (3F)4H	232.3678	-2.506	21812.055	1.5	D6S (3F)4P	64834.073	1.5	4P (3P)2P
231.5039	-1.679	50212.826	2.5	D6S (3P)4P	93395.360	2.5	4P (3H)4H	232.3707	-4.613	85679.698	2.5	4D (5D)4G	42658.224	3.5	4P (5D)6P
231.5296	-1.665	86416.333	3.5	4D (5D)4F	43238.586	2.5	4P (5D)6F	232.4750	-4.627	105127.770	2.5	5D (5D)4D	62125.600	1.5	4P (3P)2D
								232.4885	-2.447	27314.922	3.5	D6S (3F)2F	70314.604	4.5	4P (3G)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
232.5031	-0.535	105155.090	4.5	4D (3F)4G	62158.110	4.5	4P (3F)4F	233.2915	-1.472	49506.934	1.5	D6S (3P)4P	92358.610	1.5	4SP(5G)4F
232.5101	-1.386	105288.847	6.5	4D (3H)2I	62229.164	6.5	4P (3H)2I	233.3710	-0.118	85495.304	2.5	4D (5D)6S	42658.224	3.5	4P (5D)6P
232.5169	-4.639	21812.055	1.5	D6S (3P)4P	64806.487	0.5	4P (3P)2P	233.3951	-0.386	105155.090	4.5	4D (3F)4G	62322.431	3.5	4P (3H)2G
232.5189	-3.096	103983.510	3.5	5S (3G)2G	60989.444	4.5	4P (3H)4H	233.4271	-1.730	103983.510	3.5	5S (3G)2G	61156.835	3.5	4P (3H)4H
232.5302	-1.052	22939.358	2.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	233.4412	-4.772	104873.230	3.5	5D (5P)6P	62049.025	2.5	4SP(7S)6P
232.5372	-1.333	36252.918	2.5	D6S (3D)2D	79243.600	1.5	4P (1D)2P	233.4462	-2.702	50075.910	1.5	D6S (3F)4F	92899.200	2.5	4P (3F)4D
232.5447	-2.577	57411.065	2.5	D5S2(7S)4P	100400.360	2.5	4SP(3P)2D	233.4480	-1.048	49506.934	1.5	D6S (3P)4P	91219.890	2.5	4SP(5D)6F
232.5562	-0.728	50142.786	2.5	D6S (3F)4F	93129.900	3.5	4P (3F)4F	233.4915	-4.633	49100.976	0.5	D6S (3P)4P	91915.950	1.5	4SP(5D)6F
232.5582	-0.728	30764.485	3.5	D6S (3G)2G	73751.282	4.5	4P (1I)2H	233.5305	-0.601	49506.934	1.5	D6S (3P)4P	92314.758	0.5	5P (5D)4P
232.5637	-4.848	105230.290	0.5	5D (5D)4D	62244.520	1.5	4P (3F)4F	233.5312	-4.373	104873.230	3.5	5D (5D)4D	62065.521	3.5	4P (3F)4F
232.5762	-2.247	105155.090	4.5	4D (3F)4G	62171.615	3.5	4SP(7S)6P	233.5641	-3.289	103608.909	4.5	5S (3G)2G	60807.230	4.5	4P (3H)4G
232.5762	-3.039	103608.909	4.5	5S (3G)2G	60625.449	5.5	4P (3H)4G	233.6004	-2.615	31811.822	2.5	D7 (5D)2F	74606.841	2.5	4P (3G)4F
232.5810	-0.823	88189.030	0.5	4D (5D)4P	45206.450	0.5	4P (5D)4D	233.6174	-1.049	108804.667	3.5	5S (3D)4D	66012.750	4.5	4P (3G)4F
232.5926	-0.590	105063.550	5.5	4D (3F)4G	62083.108	4.5	4P (3H)2G	233.6401	-1.427	104315.370	6.5	4D (3H)2K	61527.616	6.5	4P (3H)4I
232.5985	-2.701	104705.420	3.5	5D (5D)6D	61726.077	3.5	4P (3F)4D	233.6807	-3.862	104863.430	5.5	5D (5D)2D	62083.108	4.5	4P (3H)2G
232.6016	-2.543	86599.738	2.5	4D (5D)4F	43260.957	1.5	4P (5D)6P	233.6858	-1.680	21308.040	1.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G
232.6155	-3.891	105127.770	2.5	5D (5D)4D	62151.561	2.5	4P (3F)4F	233.7256	-0.816	104119.710	7.5	4D (3H)2K	61347.614	7.5	4P (3H)4I
232.6221	0.076	103600.440	6.5	4D (3H)4H	60625.449	5.5	4P (3H)4G	233.7289	-2.414	85172.809	0.5	4D (5D)4D	42401.302	1.5	4P (5D)6F
232.6358	-0.108	50157.452	4.5	D6S (3F)4F	93129.900	3.5	4P (3F)4P	233.7525	-0.085	49506.934	1.5	D6S (3P)4P	92274.120	2.5	4P (3P)4P
232.6568	-1.294	18360.646	1.5	D7 (5D)2P	61332.764	1.5	4P (3F)4P	233.7761	0.479	103600.440	6.5	4D (3H)4H	60989.444	4.5	4P (3H)4H
232.6612	-4.045	104315.370	6.5	4D (3H)2K	62322.431	3.5	4P (3H)2G	233.7796	-1.450	103751.660	5.5	4D (3H)4H	60837.569	6.5	4P (3H)4H
232.7241	-4.726	105127.770	2.5	5D (5D)4D	62171.615	3.5	4SP(7S)6P	233.7883	-8.410	23317.633	2.5	D5S2(7S)6S	66078.269	2.5	4P (3G)4G
232.7294	-4.010	47674.721	1.5	D7 (5D)2D	90629.902	1.5	4P (3F)4S	233.7936	-4.059	105449.540	3.5	5D (5D)4G	62689.880	2.5	4P (3P)4D
232.7397	-0.581	667.683	2.5	D6S (5D)6D	43620.957	1.5	4P (5D)6P	233.8008	-0.342	862.613	1.5	D6S (5D)6D	43620.957	1.5	4P (5D)6P
232.7538	-1.444	88157.116	1.5	4D (5D)4P	45206.450	0.5	4P (5D)4D	233.8114	-1.140	50142.786	2.5	D6S (3F)4F	92899.200	2.5	4P (3F)4D
232.7675	-3.991	20516.960	2.5	D7 (5D)2D	63465.109	1.5	4P (3F)4D	233.8135	-3.558	20516.960	2.5	D7 (5D)2D	73142.282	3.5	4P (3F)4D
232.7699	-2.171	85184.734	4.5	4D (5D)4G	42237.033	3.5	4P (5D)6F	233.8205	-2.139	30388.542	4.5	D6S (3G)2G	73142.282	3.5	4P (1G)2G
232.7730	-4.726	54904.222	3.5	D6S (3F)2F	97851.350	4.5	4P (1G)2H	233.8478	-3.332	49100.976	0.5	D6S (3P)4P	91850.722	0.5	4SP(5D)6F
232.7763	-1.135	49506.934	1.5	D6S (3P)4P	92453.460	0.5	4P (3F)4D	233.8545	-2.341	84863.351	5.5	4D (5D)4G	42114.818	4.5	4P (5D)6F
232.7876	-1.394	103751.660	5.5	4D (3H)4H	60807.230	4.5	4P (3H)4G	233.8688	-2.159	29100.357	3.5	D6S (3F)4F	63556.280	4.5	4P (3H)2I
232.7963	-0.933	22637.205	4.5	D6S (3F)4F	65580.041	5.5	4P (3G)4G	233.8875	-4.014	48100.976	0.5	D6S (3P)4P	91843.470	1.5	5P (3H)2I
232.8003	-1.512	50187.813	3.5	D6S (3F)4F	93129.900	3.5	4P (3F)4F	233.9098	-3.142	60445.275	2.5	D5S2(7S)4D	103183.700	3.5	4SP(3D)2F
232.8021	-3.613	103983.510	3.5	5S (3G)2G	61041.748	2.5	4P (3H)4G	233.9197	-1.868	105398.852	5.5	4D (3F)4H	62662.244	5.5	4P (3H)2I
232.8037	-1.579	87985.628	2.5	4D (5D)4P	45044.168	1.5	4P (5D)4D	233.9396	-2.334	85172.809	0.5	4D (5D)4D	42439.822	0.5	4P (5D)6F
232.8421	-2.385	108630.429	5.5	5S (1I)2I	65696.038	4.5	4P (3G)4G	233.9408	-0.962	18360.646	1.5	D7 (5D)2P	61093.413	2.5	4P (3H)2I
232.9252	-2.480	22637.205	4.5	D6S (3F)4F	65556.280	4.5	4P (3H)2H	233.9660	-1.972	104315.370	6.5	4D (3H)2K	61587.214	5.5	4P (3H)4I
232.9360	-0.007	50212.826	2.5	D6S (3P)4P	93129.900	3.5	4P (3F)4D	233.9756	-1.380	108804.667	3.5	5S (3D)4D	66078.269	2.5	4P (3G)4G
232.9522	-0.024	103751.660	5.5	4D (3H)4H	60837.569	6.5	4P (3H)4H	233.9871	-2.517	105414.180	2.5	4D (3F)4G	62689.880	2.5	4P (3P)4D
232.9562	-2.544	60270.339	3.5	D5S2(7S)4D	103183.700	3.5	4SP(3D)2F	234.0035	-2.757	103608.909	4.5	5S (3G)2G	60887.598	5.5	4P (3H)4H
232.9905	-2.911	57493.321	1.5	D5S2(7S)4P	100400.360	2.5	4SP(3P)2D	234.0183	-1.714	49506.934	1.5	D6S (3P)4P	92225.538	1.5	5P (5D)4P
232.9975	-1.939	87985.628	2.5	4D (5D)4P	45079.879	2.5	4P (5D)4F	234.0323	-4.302	103118.400	1.5	6S (5D)4D	60402.342	2.5	4P (3P)4P
232.9992	0.334	105063.550	5.5	4D (3F)4G	62158.110	4.5	4P (3F)4F	234.0349	-1.209	36126.387	1.5	D6S (3D)2D	78841.960	0.5	4P (1D)2P
233.0108	-2.065	27620.412	2.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	234.0349	-2.427	85048.602	1.5	4D (5D)4D	42334.822	2.5	4P (5D)6F
233.0312	-2.870	105589.420	3.5	4D (3F)4H	62689.880	2.5	4P (3F)4D	234.0448	-1.270	21711.917	3.5	D6S (3H)4H	64425.408	2.5	4P (3F)2F
233.0329	-2.363	88189.030	0.5	4D (5D)4P	45289.801	1.5	4P (5D)4F	234.0463	-0.568	103600.440	6.5	4D (3H)4H	60887.598	5.5	4P (3H)4H
233.0542	-2.172	84863.351	5.5	4D (5D)4G	41968.046	5.5	4P (5D)6F	234.0499	-0.322	103600.440	6.5	4D (3H)4H	60887.598	5.5	4P (3H)4H
233.0664	-3.457	60441.033	1.5	D5S2(7S)4D	103334.100	2.5	4SP(3D)2F	234.0579	-0.324	50187.813	3.5	D6S (3F)4F	92899.200	2.5	4P (3F)4D
233.0825	-3.617	103983.510	3.5	5S (3G)2G	61093.413	2.5	4P (3P)2D	234.0688	-2.132	49506.934	1.5	D6S (3P)4P	92216.320	1.5	4P (3P)2D
233.0895	-3.011	60445.275	2.5	D5S2(7S)4D	103334.100	2.5	4SP(3D)2F	234.0688	-2.132	49506.934	1.5	D6S (3P)4P	92216.320	1.5	4P (3P)2D
233.0901	-4.513	105211.140	4.5	5D (5D)4G	62322.431	3.5	4P (3H)2G	234.0911	-3.831	104863.430	5.5	5D (5D)4G	62158.110	4.5	4P (3F)4F
233.1065	-1.077	22810.357	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	234.0945	-0.770	21581.638	4.5	D6S (3H)4H	64286.345	3.5	4P (3F)2F
233.1307	-0.925	1872.567	4.5	D7 (5D)4F	44753.799	3.5	4P (5D)4F	234.1036	-3.872	30388.542	4.5	D6S (3G)2G	73091.590	4.5	4P (1G)2G
233.1737	-2.744	108804.667	3.5	5S (3D)4D	65931.334	3.5	4P (3G)4G	234.1114	-4.325	104873.230	3.5	5D (5D)4D	62171.615	3.5	4SP(7S)6P
233.2064	-2.186	88157.116	1.5	4D (5D)4P	45289.801	1.5	4P (5D)4F	234.1432	-2.951	87985.628	2.5	4D (5D)4F	45289.801	1.5	4P (5D)4F
233.2241	-2.083	103751.660	5.5	4D (3H)4H	60887.598	5.5	4P (3H)4H	234.1950	-0.109	50212.826	2.5	D6S (3P)4P	92899.200	2.5	4P (3F)4D
233.2342	-0.798	105524.461	4.5	4D (3F)4H	62662.244	5.5	4P (3H)2I	234.1958	-1.163	31811.822	2.5	D7 (5D)2F	74498.057	1.5	4P (3D)2D
233.2800	-4.142	384.790	3.5	D6S (5D)6D	43238.586	2.5	4P (5D)6P	234.1992	-4.768	104441.690	4.5	5D (5D)6D	61726.077	3.5	4P (3P)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL				
234.2240	-1.825	18360.646	1.5	D7	(5D)2P	61041.748	2.5	4P	(3H)4G	62945.038	3.5	4P	(3F)4D	42945.038	3.5	4P	(3F)4D		
234.2487	-4.708	104828.160	2.5	5D	(5D)6D	62151.561	2.5	5D	(3F)4F	84938.180	1.5	4D	(5D)6G	42439.822	0.5	4P	(5D)6F		
234.2594	-4.476	18360.646	1.5	D7	(5D)2P	61035.287	0.5	4P	(3P)4P	26932.748	0.5	D6S	(3P)2P	69426.980	0.5	4SP	(5S)4P		
234.2929	-4.256	105630.750	2.5	5D	(5D)4G	62962.205	1.5	4D	(3F)4G	105155.090	4.5	4D	(3F)4G	62682.244	2.5	4P	(3H)2I		
234.3309	0.551	104174.270	5.5	4D	(3H)4I	61512.634	4.5	4P	(3H)4I	85728.806	1.5	4D	(5D)4S	43238.586	2.5	4P	(5D)6P		
234.3496	0.160	0.000	4.5	D6S	(5D)6D	42658.224	3.5	4P	(5D)6P	50212.826	2.5	D6S	(3P)4P	92695.374	2.5	4P	(3P)2D		
234.3588	-4.634	104828.160	2.5	5D	(5D)6D	62171.615	3.5	4SP	(7S)6P	104064.670	6.5	4D	(3H)4I	61587.214	5.5	4P	(3H)4I		
234.3681	-4.165	103608.909	4.5	5S	(3G)2G	61726.077	3.5	4P	(3P)4G	84710.685	3.5	4D	(5D)6G	42237.033	3.5	4P	(5D)6F		
234.3960	-1.014	2430.097	3.5	D7	(5D)4F	60956.781	3.5	4P	(3H)4G	22637.205	4.5	D6S	(3F)4F	65109.679	3.5	4P	(3F)2G		
234.4096	-2.246	85048.602	1.5	4D	(5D)4D	45079.879	2.5	4P	(5D)4F	103983.510	3.5	5S	(3G)2G	61512.634	4.5	4P	(3H)4I		
234.4132	-2.472	104174.270	5.5	4D	(3H)4I	61527.616	6.5	4P	(3H)4I	84870.863	2.5	4D	(5D)4D	42401.302	1.5	4P	(5D)6F		
234.4257	-1.951	105589.420	3.5	4D	(3F)4H	62945.038	3.5	4P	(3F)4D	50142.786	2.5	D6S	(3F)4F	92602.703	3.5	4P	(3F)2G		
234.4283	-0.411	977.053	0.5	D6S	(5D)6D	43620.957	1.5	4P	(5D)6P	21581.638	4.5	D6S	(3H)4H	64040.886	3.5	4P	(3F)4G		
234.4503	-4.290	104705.420	3.5	5D	(3D)6D	62065.521	3.5	4P	(3F)4F	54870.528	2.5	D6S	(3F)2P	97326.270	1.5	4SP	(3P)2P		
234.4799	-2.952	20830.582	2.5	D6S	(3P)4P	63465.109	1.5	4P	(3F)4F	103608.909	4.5	5S	(3G)2G	61156.835	3.5	4P	(3H)4H		
234.4837	-2.504	84870.863	2.5	4D	(5D)4D	42237.033	3.5	4P	(5D)6F	105414.180	2.5	4D	(3F)4G	62962.205	1.5	4P	(3F)4D		
234.5179	-1.126	30388.542	4.5	D6S	(3G)2G	73016.147	3.5	4P	(1G)2F	2837.950	2.5	D7	(5D)4F	45289.801	1.5	4P	(5D)4F		
234.5235	-2.069	105288.847	6.5	4D	(3H)4H	62662.244	5.5	4P	(3H)2I	84685.198	3.5	4D	(5D)4D	42237.033	3.5	4P	(5D)6F		
234.5339	-0.062	21251.608	6.5	D6S	(3H)4H	63876.317	5.5	4P	(3F)4G	18886.780	0.5	D7	(5D)2P	61332.764	1.5	4P	(3P)4P		
234.5454	-4.778	44915.046	3.5	D6S	(1F)2F	87537.652	3.5	4SP	(5G)6F	21430.359	5.5	D6S	(3H)4H	63876.317	5.5	4P	(3F)4G		
234.5627	-2.535	103608.909	4.5	5S	(3G)2G	60989.444	4.5	4P	(3H)4H	50157.452	4.5	D6S	(3F)4F	92602.703	3.5	4P	(3F)2G		
234.5672	-2.518	50075.910	1.5	D6S	(3F)4F	92695.374	2.5	4P	(3P)2D	20510.960	2.5	D7	(5D)2D	62962.205	1.5	4P	(3P)4D		
234.5726	-3.154	108630.429	5.5	5S	(1I)2I	66012.750	4.5	4P	(3G)4F	84844.834	2.5	4D	(5D)6G	42401.302	1.5	4P	(5D)6F		
234.5945	-7.368	23317.633	2.5	D582	(7S)6S	65931.334	3.5	4P	(3G)4F	20830.582	2.5	D6S	(3P)4P	63272.976	2.5	4P	(3F)4D		
234.5964	-3.605	21812.055	1.5	D6S	(3P)4F	64425.408	2.5	4P	(3F)2F	85679.698	2.5	4D	(5D)4G	43238.586	2.5	4P	(5D)6P		
234.6216	-2.395	85048.602	1.5	4D	(5D)4D	42439.822	0.5	4P	(5D)6F	35.5662	-2.288	36252.918	2.5	D6S	(3D)2D	78690.846	2.5	4P	(1D)2D
234.6270	-1.204	84844.834	2.5	4D	(5D)6G	42237.033	3.5	4P	(5D)6F	105127.770	2.5	5D	(5D)4D	62689.880	2.5	4P	(3F)4D		
234.6514	-1.256	31999.048	3.5	D7	(5D)2P	74606.841	2.5	4P	(3D)6D	50159.270	5.5	5D	(5D)6G	62158.110	4.5	4P	(3F)4F		
234.6637	-2.406	105291.010	3.5	4D	(3F)4G	62689.880	2.5	4P	(3P)4D	50212.826	2.5	D6S	(3P)4P	92647.510	1.5	4P	(3F)4D		
234.6927	-1.367	84710.685	3.5	4D	(5D)6G	42334.822	2.5	4P	(5D)6F	20510.960	2.5	D7	(5D)2D	62945.038	3.5	4P	(3F)4D		
234.7135	-0.570	104119.710	7.5	4D	(3H)2K	62114.818	4.5	4P	(5D)6F	108804.667	3.5	5S	(3D)4D	64834.073	1.5	4P	(3P)2P		
234.7206	-2.790	48039.090	2.5	D7	(5D)2D	90629.902	1.5	4P	(3P)4S	22409.852	0.5	D6S	(3P)2P	97326.270	1.5	4SP	(3P)2P		
234.7413	-0.148	104174.270	5.5	4D	(3H)4I	61587.214	5.5	4P	(3F)4S	54902.315	1.5	D6S	(3F)4F	92602.703	3.5	4P	(3F)2G		
234.7833	-1.569	105324.461	4.5	4D	(3H)4I	62945.038	3.5	4P	(3H)4I	50187.813	3.5	D6S	(3F)4F	97326.270	1.5	4P	(3F)2G		
234.8109	-1.395	21711.917	3.5	D6S	(3H)4H	64286.345	3.5	4P	(3F)2F	33501.215	3.5	D6S	(1G)2G	75915.215	2.5	4P	(3D)2F		
234.8115	-0.284	1872.567	4.5	D7	(5D)4F	44446.878	3.5	4P	(5D)4D	84527.778	4.5	4D	(5D)6G	42114.818	4.5	4P	(5D)6F		
234.8243	-3.212	25428.784	5.5	D6S	(3G)4G	68000.788	4.5	4P	(3G)2H	49506.934	1.5	D6S	(3P)4P	91915.950	1.5	4SP	(5D)6F		
234.8265	-0.675	50075.910	1.5	D6S	(3F)4F	92647.510	1.5	4P	(3F)4D	105063.550	5.5	4D	(3F)4G	62662.244	5.5	4P	(3H)2I		
234.8303	-0.207	667.683	2.5	D6S	(5D)6D	43238.586	2.5	4P	(5D)6P	105230.290	0.5	5D	(5D)4D	62829.075	0.5	4P	(3P)4D		
234.8332	-3.249	84685.198	3.5	4D	(5D)4D	42114.818	4.5	4P	(5D)6F	57411.065	2.5	D582	(7S)4P	99808.400	3.5	4P	(1G)2G		
234.8659	-4.185	36126.387	1.5	D6S	(3D)2D	78690.846	2.5	4P	(1D)2D	22409.852	0.5	D6S	(3F)4P	64806.487	0.5	4P	(3P)2P		
234.8920	-1.773	84527.778	4.5	4D	(5D)6G	41968.046	5.5	4P	(5D)6F	50212.826	2.5	D6S	(3P)4P	92602.703	3.5	4P	(3F)2G		
234.9314	-1.745	50142.786	2.5	D6S	(3F)4F	92695.374	2.5	4P	(3P)2D	104705.420	3.5	D6S	(3G)2G	73142.488	3.5	4P	(1G)2G		
234.9413	-4.671	104873.230	3.5	5D	(5D)4D	62322.431	3.5	4P	(3H)2G	30764.485	3.5	D6S	(3G)2G	73142.488	3.5	4P	(1G)2G		
235.0027	-4.741	104588.710	1.5	5D	(5D)6D	62049.025	2.5	4P	(3H)2G	50075.910	1.5	D6S	(3F)4F	92453.460	0.5	4P	(3F)4D		
235.0172	-0.082	104064.670	6.5	4D	(3H)4I	61527.616	6.5	4P	(3H)4I	862.613	1.5	D6S	(5D)6D	43238.586	2.5	4P	(5D)6P		
235.0182	-0.219	84938.180	1.5	4D	(5D)6G	42401.302	1.5	4P	(5D)6F	235.9106	-0.511	862.613	1.5	D6S	(5D)6D	43238.586	2.5	4P	(5D)6P
235.0228	-2.077	84870.863	2.5	4D	(5D)4D	42334.822	2.5	4P	(5D)6F	235.9133	0.495	84710.685	3.5	4D	(5D)6G	42338.586	2.5	4P	(5D)6F
235.0522	0.359	103878.340	7.5	4D	(3H)4I	61347.614	7.5	4P	(3H)4I	21711.917	3.5	D6S	(3H)4H	64087.418	2.5	4P	(3F)4G		
235.0755	-2.706	85184.734	4.5	4D	(5D)4G	42658.224	3.5	4P	(5D)6P	26932.748	0.5	D6S	(3P)2P	69302.090	1.5	4SP	(5S)4P		
235.1202	-1.039	21430.359	5.5	D6S	(3H)4H	63948.790	4.5	4P	(3F)4G	21581.638	4.5	D6S	(3H)4H	63948.790	4.5	4P	(3F)4G		
235.1569	-3.909	49506.934	1.5	D6S	(3P)4P	92018.729	2.5	4SP	(5D)6F	1872.567	4.5	D7	(5D)4F	44232.512	4.5	4P	(5D)4F		
235.1659	-4.827	104593.270	5.5	5D	(5D)6G	62083.108	4.5	4P	(3H)2G	2430.097	3.5	D7	(5D)4F	44784.761	2.5	4P	(5D)4D		
235.1667	-0.071	84844.834	2.5	4D	(5D)6G	42334.822	2.5	4P	(5D)6F	236.0293	-0.460	2430.097	3.5	D7	(5D)4F	44784.761	2.5	4P	(5D)4D
235.1803	-2.248	50187.813	3.5	D6S	(3F)4F	92695.374	2.5	4P	(5D)6D	236.0513	0.704	103878.340	7.5	4D	(3H)4I	61527.616	6.5	4P	(3H)4I
235.1960	-0.562	50142.786	2.5	D6S	(3F)4F	92647.510	1.5	4P	(3F)4D	236.0532	-2.155	84685.198	3.5	4D	(5D)4D	42338.586	2.5	4P	(5D)6F
										236.0778	-0.572	105291.010	3.5	4D	(3F)4G	62945.038	3.5	4P	(3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
236.0900	-3.843	49506.934	1.5	D6S (3P)4P	91850.772	0.5	4SP(5D)6F	236.9880	-4.331	104873.230	3.5	5D (5D)4D	62689.880	2.5	4P (3P)4D
236.1304	-3.289	49506.934	1.5	D6S (3P)4P	91843.470	1.5	5P (5D)6P	236.9914	-3.420	105127.770	2.5	5D (5D)4D	62945.038	3.5	4P (3F)4D
236.1358	-2.007	27314.922	3.5	D6S (3F)2F	69650.484	2.5	4P (3G)2F	236.9955	0.757	84296.830	5.5	4D (5D)6G	42114.818	4.5	4P (5D)6F
236.1726	-0.828	21711.917	3.5	D6S (3H)4H	64040.886	3.5	4P (3F)4G	237.0238	-4.102	102449.100	2.5	D5S2(7S)4D	102449.100	2.5	4SP(3D)2D
236.1737	-0.371	84296.830	5.5	4P (5D)6G	41968.046	5.5	4P (5D)6F	237.0616	-4.821	105449.540	3.5	5D (5D)4G	63272.976	2.5	4P (3F)4D
236.1830	-3.877	30764.485	3.5	D6S (3G)2G	73091.590	4.5	4P (1G)2G	237.0466	-3.062	20516.960	2.5	D7 (3D)2D	62689.880	2.5	4P (3P)4D
236.2020	-0.931	2430.097	3.5	D7 (5D)4F	44753.799	3.5	4P (5D)4F	237.0499	-1.169	3117.461	1.5	D7 (5D)4F	45289.801	1.5	4P (3F)2G
236.2118	-3.944	20340.300	5.5	D7 (5D)2H	62662.244	5.5	4P (3H)2I	237.0612	-1.652	22939.358	2.5	D6S (3F)4F	63465.109	1.5	4P (3F)4D
236.2425	-2.387	105589.420	3.5	4D (3F)4H	63272.976	2.5	4P (3F)4H	237.0875	-4.943	105630.750	2.5	5D (5D)4G	61509.679	3.5	4P (3F)4D
236.3382	-2.052	22810.357	3.5	D6S (3F)4F	65109.679	3.5	4P (3F)2G	237.0879	-3.780	105127.770	2.5	5D (5D)4D	62962.205	1.5	4P (3P)4D
236.3641	-1.399	21581.638	4.5	D6S (3H)4H	63876.317	5.5	4P (3F)4G	237.0942	-1.792	103751.660	5.5	4D (3H)4H	61587.214	5.5	4P (3H)4I
236.3812	-0.637	27314.922	3.5	D6S (3F)2F	69606.552	3.5	4P (3G)2F	237.1357	-4.767	21308.040	1.5	D7 (5D)2D	63465.109	1.5	4P (3F)4D
236.3861	0.632	84527.778	4.5	4D (5D)6G	42237.033	3.5	4P (5D)6F	237.1594	-1.841	86599.738	2.5	4D (5D)4F	44446.878	3.5	4P (5D)4D
236.3881	-0.889	30764.485	3.5	D6S (3G)2G	73054.881	2.5	4P (1G)2F	237.1657	-1.490	84266.556	3.5	4D (5D)6P	42114.818	4.5	4P (5D)6F
236.4311	-0.578	50075.910	1.5	D6S (3F)4F	92358.610	1.5	4SP(5G)4F	237.1776	-2.654	50075.910	1.5	D6S (3F)4F	92225.538	1.5	5P (5D)4F
236.4330	-2.705	108804.667	3.5	5S (3D)4D	66522.304	2.5	4P (3G)4F	237.1839	-3.645	18886.780	0.5	D7 (3D)2F	61035.287	0.5	4P (3P)4F
236.4721	-3.898	21812.055	1.5	D6S (3P)4F	64087.418	2.5	4P (3F)4G	237.1992	-1.639	50157.452	4.5	D6S (3F)4F	92358.610	1.5	4SP(5G)4F
236.4757	-4.846	104000.810	3.5	5D (5D)6P	61726.077	3.5	4P (3P)4D	237.2159	-3.658	50157.452	4.5	D6S (3F)4F	92300.277	4.5	4SP(5D)6F
236.4759	-3.171	50157.452	4.5	D6S (3F)4F	92432.136	5.5	4SP(5D)6F	237.2201	-1.018	50187.813	3.5	D6S (3F)4F	92329.890	2.5	4SP(5G)4F
236.5048	-0.263	384.790	3.5	D6S (5D)6D	42658.224	3.5	4P (5D)6P	237.2290	-0.945	105414.180	2.5	4D (3F)4G	63272.976	2.5	4P (3F)4D
236.5127	-4.035	31483.176	3.5	D6S (3F)4F	92426.980	4.5	4SP(5G)4F	237.2336	-1.287	50142.786	2.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4F
236.5128	-3.530	105230.290	0.5	5D (5D)4D	73751.282	4.5	4P (1I)2H	237.2339	-2.333	20805.770	4.5	D7 (3D)2H	62945.038	3.5	4P (3F)4D
236.5239	-4.762	105211.140	4.5	5D (5D)4G	62962.205	1.5	4P (3P)4D	237.2415	-3.881	104828.160	2.5	5D (5D)6D	62689.880	2.5	4P (3P)4D
236.5394	-1.765	30388.542	4.5	D6S (3G)2G	72651.876	3.5	4P (3D)4F	237.2629	-0.240	33466.463	4.5	D6S (1G)2G	66672.334	3.5	4P (3G)4H
236.5463	-3.375	30388.542	4.5	D6S (3G)2G	72650.658	4.5	4P (3D)4F	237.2670	-1.907	20830.582	2.5	D6S (3P)4P	62962.205	1.5	4P (3P)4D
236.5725	-2.626	103983.510	3.5	5S (3G)2G	61726.077	3.5	4P (3P)4D	237.2790	-1.907	20830.582	2.5	D6S (3P)4P	62962.205	1.5	4P (3P)4D
236.5765	0.017	85495.304	2.5	4D (5D)6S	43238.586	2.5	4P (5D)6P	237.2806	-1.379	50142.786	2.5	D6S (3F)4F	92274.120	2.5	4P (3P)4D
236.5870	-4.230	104426.460	2.5	5D (5D)6F	62171.615	3.5	4SP(7S)6P	237.3411	-4.571	105065.630	3.5	5D (5D)6G	62945.038	3.5	4P (3F)4D
236.5983	-0.077	103600.440	6.5	4D (3H)4H	61347.614	7.5	4P (3H)4I	237.3476	-3.483	60384.370	0.5	D5S2(7S)4D	102503.810	1.5	4SP(3D)2D
236.6048	-1.471	30764.485	3.5	D6S (3G)2G	73016.147	3.5	4P (1G)2F	237.3610	-0.598	50212.826	2.5	D6S (3P)4P	42114.818	4.5	4P (5D)6F
236.6060	-3.420	21308.040	1.5	D7 (5D)2D	63559.488	0.5	4P (3F)4D	237.3736	-0.420	20830.582	2.5	D6S (3P)4P	62945.038	3.5	4P (3F)4D
236.6593	-1.129	2837.950	2.5	D7 (5D)4F	45079.879	2.5	4P (5D)4F	237.3757	-2.680	20830.582	2.5	D6S (3P)4P	62945.038	3.5	4P (3F)4D
236.6697	-4.377	104411.690	4.5	5D (5D)6D	62171.615	3.5	4SP(7S)6P	237.3869	-4.051	50187.813	3.5	D6S (3F)4F	92300.277	4.5	4SP(5D)6F
236.6748	-1.358	50187.813	3.5	D6S (3F)4F	92426.980	4.5	4SP(5G)4F	237.4126	-3.753	91208.887	1.5	5P (5D)6F	91208.887	1.5	5P (5D)6F
236.6756	-1.946	103751.660	5.5	4D (3H)4H	61512.634	4.5	4P (3H)4I	237.4129	-2.322	85728.806	1.5	4D (3D)4S	43620.957	1.5	4P (5D)6P
236.6766	-2.590	50075.910	1.5	D6S (3F)4F	92314.758	0.5	5P (5D)4P	237.4590	-1.673	33501.253	3.5	D6S (1G)2G	75600.931	3.5	4P (3D)2F
236.6867	-2.933	0.000	4.5	D6S (5D)6D	42237.033	3.5	4P (5D)6F	237.4641	-2.707	49100.976	0.5	D6S (3P)4P	91199.746	0.5	5P (5D)4D
236.6876	-1.509	21711.917	3.5	D6S (3H)4H	63948.790	4.5	4P (3F)4G	237.4782	-1.755	103608.909	4.5	5S (3G)2G	61512.634	4.5	4P (3H)4I
236.7024	-1.638	36252.918	2.5	D6S (3D)2D	78487.153	1.5	4P (1D)2D	237.5071	-0.575	104174.270	5.5	4D (3H)4I	92282.460	3.5	4SP(5G)4F
236.7239	-4.819	103265.694	0.5	6S (5D)4D	61035.287	0.5	4P (5D)6P	237.5143	-1.434	84326.912	2.5	4D (5D)6P	42237.033	3.5	4P (5D)6F
236.7583	-2.882	85462.862	3.5	4D (5D)4G	43238.586	2.5	4P (5D)6P	237.5162	-2.060	84424.370	1.5	4D (3D)6P	42334.822	2.5	4P (5D)6F
236.7596	-0.044	103751.660	5.5	4D (3H)4H	61527.616	6.5	4P (3H)4I	237.5193	-0.783	3117.461	1.5	D7 (5D)4F	45206.450	0.5	4P (3D)4D
236.8009	-1.959	102842.119	4.5	5S (3G)4G	60625.449	5.5	4P (3H)4G	237.5275	-2.805	25428.784	5.5	D6S (3G)4G	67516.332	5.5	4P (3G)2H
236.8066	-3.623	50142.786	2.5	D6S (3F)4F	92358.610	1.5	4SP(5G)4F	237.5345	-0.549	50187.813	3.5	D6S (3F)4F	92274.120	2.5	4P (3P)4F
236.8235	-1.393	84870.863	2.5	4D (5D)4D	42658.224	3.5	4P (3G)4D	237.5513	-3.313	54273.641	4.5	D5S2(7S)4G	96356.960	3.5	4SP(3G)2F
236.8380	-0.804	105155.090	4.5	4D (3F)4G	62945.038	3.5	4P (3F)4G	237.5545	-1.335	50142.786	2.5	D6S (3F)4F	92225.538	1.5	5P (5D)4P
236.8421	-4.214	104380.940	3.5	5D (5D)6F	62171.615	3.5	4SP(7S)6P	237.5580	-4.825	103118.400	1.5	6S (5D)4D	61041.748	1.5	4P (3H)4G
236.8596	-0.626	2837.950	2.5	D7 (5D)4F	45044.168	1.5	4P (5D)4D	237.6054	-3.415	54283.220	3.5	D5S2(7S)4G	96356.960	3.5	4SP(3G)2F
236.9045	-1.844	50075.910	1.5	D6S (3F)4F	92274.120	2.5	4P (3P)4P	237.6066	-1.143	103600.440	6.5	4D (3H)4H	92282.460	3.5	4SP(5G)4F
236.9200	-2.687	25805.328	4.5	D6S (3F)4G	68000.788	4.5	4P (3G)2H	237.6106	0.026	50212.826	2.5	D6S (3P)4P	61527.616	6.5	4P (3H)4I
236.9240	-1.459	22637.205	4.5	D6S (3F)4F	64831.943	4.5	4P (3G)2G	237.6286	-1.623	49506.934	1.5	D6S (3P)4P	91575.139	2.5	5P (5D)6P
236.9669	-0.423	50142.786	2.5	D6S (3F)4F	92329.890	2.5	4SP(5G)4F	237.6367	-4.207	60441.033	1.5	D5S2(7S)4D	102503.810	1.5	4SP(3D)2D
236.9697	-3.722	84844.834	2.5	4D (5D)6G	42658.224	3.5	4P (5D)6P	237.6674	-4.094	60441.033	1.5	D5S2(7S)4D	102503.810	1.5	4SP(3D)2D
236.9778	-2.735	108648.695	6.5	5S (3G)4H	66463.528	5.5	4P (3G)4H	237.6757	-4.461	50212.826	2.5	D6S (3P)4P	92274.120	2.5	4P (3P)4F
236.9853	-1.135	86416.333	3.5	4D (5D)4F	44232.512	4.5	4P (5D)4F	237.6902	-4.279	85679.698	2.5	4D (5D)4G	43620.957	1.5	4P (5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL				
237.6913	-4.443	60445.275	2.5	D5S2(7S)4D	102503.810	1.5	4SP(3D)2D	238.3556	-4.113	50212.826	2.5	D6S	(3P)4P	92154.165	3.5	4SP(5D)6F			
237.7248	-3.155	47674.721	1.5	D7	(5D)2D	89727.342	2.5	4P	(3F)4G	54283.220	3.5	D5S2(7S)4G	96217.420	3.5	4SP(5P)4D				
237.7257	-1.828	84710.685	3.5	4D	(5D)6G	42658.224	3.5	4P	(5D)6F	103265.694	0.5	6S	(3D)4D	61132.764	1.5	4P	(3P)4P		
237.7865	-2.426	18360.646	1.5	D7	(5D)2F	60402.342	2.5	4P	(3F)4P	50157.452	4.5	D6S	(3F)4F	92089.260	3.5	4SP(5G)4H			
237.7881	-3.367	108630.429	5.5	5S	(11)2I	66589.008	4.5	4P	(3G)4H	238.4102	3.5	4D	(5D)6F	42334.822	2.5	4P	(5D)6F		
237.8521	-1.300	102842.119	4.5	5S	(3G)4G	60807.230	4.5	4P	(3H)4G	84266.556	3.5	D6S	(3F)4F	92116.780	4.5	4SP(5G)4H			
237.8523	-0.864	27620.412	2.5	D6S	(3G)2F	69650.484	2.5	4P	(3G)2F	104873.230	3.5	5D	(5D)4D	62945.038	3.5	4P	(3F)4D		
237.8554	-1.049	84266.556	3.5	4D	(5D)6F	42237.033	3.5	4P	(5D)6F	3117.461	1.5	D7	(5D)4F	45044.168	1.5	4P	(5D)4D		
237.8698	-0.682	84685.198	3.5	4D	(5D)4D	42658.224	3.5	4P	(5D)6P	86710.837	1.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D		
237.8811	-4.545	103118.400	1.5	6S	(5D)4D	61093.413	2.5	4P	(3P)2D	84326.912	2.5	4D	(5D)6F	42401.302	1.5	4P	(5D)6F		
237.8920	-1.548	84424.370	1.5	4D	(5D)6F	42401.302	1.5	4P	(5D)6F	103983.510	3.5	5S	(3G)2G	62065.521	3.5	4P	(3F)4F		
237.8968	-0.337	104315.370	6.5	4D	(3H)2K	62293.164	6.5	4P	(3H)2I	238.5005	2.5	D7	(5D)4F	44753.799	3.5	4P	(5D)4F		
237.8997	-3.150	103608.909	4.5	5S	(3G)2G	61587.214	5.5	4P	(3H)4I	50187.813	3.5	D6S	(3F)4F	92089.260	3.5	4SP(5G)4H			
237.9003	-1.041	22810.357	3.5	D6S	(3F)4F	64831.943	4.5	4P	(3F)2G	103983.510	3.5	5S	(3G)2G	62083.108	4.5	4P	(3H)2G		
237.9141	-1.273	25981.629	3.5	D6S	(3G)4G	68000.788	4.5	4P	(3G)2H	22939.358	2.5	D6S	(3F)4F	64834.073	1.5	4P	(3P)2P		
237.9205	-1.747	105291.010	3.5	4D	(3F)4G	63272.976	2.5	4P	(3F)4D	86124.301	4.5	4D	(5D)4F	44232.512	4.5	4P	(3P)2P		
237.9276	-0.910	2430.097	3.5	D7	(5D)4F	44446.878	3.5	4P	(5D)4D	30764.485	3.5	D6S	(3G)2G	72651.876	3.5	4P	(3D)4D		
237.9304	-0.960	37227.326	0.5	D6S	(1S)2S	79243.600	1.5	4P	(1D)2P	105763.270	5.5	4D	(3F)2H	63876.317	5.5	4P	(3F)4G		
237.9311	-0.622	104174.270	5.5	4D	(3H)4I	62158.110	4.5	4P	(3F)4F	238.6695	5.5	D6S	(3G)2G	72650.658	4.5	4P	(3D)4F		
237.9346	-3.968	104705.420	3.5	5D	(5D)6D	62689.880	2.5	4P	(3F)4D	238.6743	1.781	102842.119	4.5	5S	(3G)4G	60956.781	3.5	4P	(3H)4G
237.9399	-0.744	44915.046	3.5	D6S	(1F)2F	86929.649	3.5	4P	(3F)4D	238.6794	1.815	36252.918	2.5	D6S	(3D)2D	78137.364	3.5	4P	(1D)2F
237.9418	-0.635	50157.452	4.5	D6S	(3F)4F	92171.716	4.5	4P	(3F)2G	238.6869	4.390	104828.160	2.5	5D	(5D)6D	62945.038	3.5	4P	(3F)4D
237.9477	-1.399	103600.440	6.5	4D	(3H)4H	61587.214	5.5	5P	(5D)4P	238.6886	3.140	103600.440	6.5	5S	(3G)2G	61726.077	3.5	4P	(3P)4D
237.9506	-0.270	50212.826	2.5	D6S	(3P)4P	92225.538	1.5	4P	(5D)4F	238.6984	2.625	104174.270	5.5	4D	(3H)4I	62293.164	6.5	4P	(3H)2I
237.9582	-4.012	50142.786	2.5	D6S	(3F)4F	92154.165	3.5	4SP	(5D)6F	238.7278	3.842	50142.786	2.5	D6S	(3F)4F	92018.729	2.5	4SP(5D)6F	
237.9708	-2.366	50157.452	4.5	D6S	(3F)4F	92166.600	5.5	4SP	(5G)4H	238.7369	0.033	85495.304	2.5	4D	(5D)6S	43620.957	1.5	4P	(1G)2H
237.9769	-3.772	60441.033	1.5	D5S2(7S)4G	102449.100	2.5	4SP(3D)2D	238.7435	-0.874	84527.778	4.5	4D	(5D)6G	42658.224	3.5	4P	(5D)6F		
238.0008	-3.373	54275.637	2.5	D5S2(7S)4G	96279.490	2.5	4SP(3G)2F	238.7643	-1.131	104828.160	2.5	5D	(5D)6D	62962.205	1.5	4P	(3P)4D		
238.0009	-4.362	60445.275	2.5	D5S2(7S)4D	102449.100	2.5	4SP(3D)2D	238.7848	-4.482	20830.582	2.5	D6S	(3P)4F	62689.880	2.5	4P	(3P)4D		
238.0028	-2.495	50212.826	2.5	D6S	(3P)4P	92216.320	1.5	4P	(3P)2D	238.8228	-0.854	20830.582	2.5	D6S	(3P)4F	62689.880	2.5	4P	(3P)4D
238.0211	-1.936	44929.550	2.5	D6S	(1F)2F	86929.649	3.5	4P	(3P)4D	238.8389	-0.649	20805.770	4.5	D7	(5D)2H	72619.490	2.5	4P	(3D)2I
238.0438	-3.799	54283.220	3.5	D5S2(7S)4G	96279.490	2.5	4SP(3G)2F	238.8473	-2.923	30764.485	3.5	D6S	(3G)2G	72619.490	2.5	4P	(3D)4D		
238.0658	-4.994	102394.718	3.5	6S	(5D)4D	60402.342	2.5	4P	(3F)4P	238.8485	-2.777	105127.770	2.5	5D	(5D)4D	62945.038	3.5	4P	(3F)4D
238.0675	-1.008	84326.912	2.5	4D	(5D)6F	42334.822	2.5	4P	(5D)6F	238.8606	-2.952	102842.119	4.5	5S	(3G)4G	60989.444	4.5	4P	(3H)4H
238.0762	-0.619	667.683	2.5	D6S	(5D)6D	42658.224	3.5	4P	(5D)6P	238.8614	-4.182	44915.046	3.5	D6S	(1F)2F	86767.577	2.5	4P	(3P)4D
238.1012	-1.765	27620.412	2.5	D6S	(3F)2F	69606.552	3.5	4P	(3G)2F	238.8630	-0.096	384.790	3.5	D6S	(5D)6D	42237.033	3.5	4P	(5D)6F
238.1102	-2.297	84424.370	1.5	4D	(5D)6F	42439.822	0.5	4P	(5D)6F	238.8685	-3.421	48039.090	2.5	D7	(5D)2D	89890.373	3.5	4P	(3F)4G
238.1139	-1.290	50187.813	3.5	D6S	(3F)4F	92171.716	4.5	4P	(3F)2G	238.8990	-0.987	86599.738	2.5	4D	(5D)4F	44753.799	3.5	4P	(5D)4F
238.1199	-0.460	86416.333	3.5	4D	(5D)4F	44446.878	3.5	4P	(5D)4D	238.9327	-3.974	50075.910	1.5	D6S	(3F)4F	91915.950	1.5	4SP(5D)6F	
238.2039	0.591	0.000	4.5	D6S	(5D)6D	41968.046	5.5	4P	(5D)6F	238.9442	-0.714	44929.550	2.5	D6S	(1F)2F	86767.577	2.5	4P	(3P)4D
238.2135	-3.503	50187.813	3.5	D6S	(3F)4F	92154.165	3.5	4SP(5D)6F	238.9789	-2.836	103983.510	3.5	5S	(3G)2G	62151.561	2.5	4P	(3F)4F	
238.2180	-3.968	54273.641	4.5	D5S2(7S)4G	96239.200	4.5	4SP(3G)2H	238.9848	-4.321	50187.813	3.5	D6S	(3F)4F	92018.729	2.5	4SP(5D)6F			
238.2215	-2.556	21308.040	1.5	D7	(5D)2D	63272.976	2.5	4P	(3F)4D	238.9866	-1.547	26170.181	5.5	D6S	(3H)2H	68000.788	4.5	4P	(3G)2H
238.2298	-1.494	30388.542	4.5	D6S	(3G)2G	72352.024	3.5	4P	(3D)4F	238.9908	-4.113	54232.195	5.5	D5S2(7S)4G	96062.060	5.5	4SP(3G)2H		
238.2358	-1.737	3117.461	1.5	D7	(5D)4F	45079.879	2.5	4P	(5D)4F	238.9946	-4.376	104000.810	3.5	5D	(5D)6P	62171.615	3.5	4SP(7S)6P	
238.2534	-1.676	50157.452	4.5	D6S	(3F)4F	60625.449	5.5	4P	(3H)4G	239.0098	0.879	104119.710	7.5	4D	(3H)2K	62293.164	6.5	4P	(3H)2I
238.2724	-2.964	54283.220	3.5	D5S2(7S)4G	96239.200	4.5	4SP(3G)2H	239.0205	-1.748	103983.510	3.5	5S	(3G)2G	62158.110	4.5	4P	(3F)4F		
238.2807	-1.127	102842.119	4.5	5S	(3G)4G	60887.598	5.5	4SP(3G)2H	239.0310	-1.237	31364.440	1.5	D6S	(3D)4D	73187.280	0.5	4P	(3D)2P	
238.2901	-0.593	20340.300	5.5	D7	(5D)2H	62293.164	6.5	4P	(3H)2I	239.0434	-1.498	31368.450	0.5	D6S	(3D)4D	73187.280	0.5	4P	(3D)2P
238.3062	-1.282	384.790	3.5	D6S	(5D)6D	42334.822	2.5	4P	(5D)6F	239.0539	-1.421	31368.450	0.5	D6S	(3D)4D	73187.280	0.5	4P	(3D)2P
238.3116	-2.593	105414.180	2.5	4D	(3F)4G	63465.109	1.5	4P	(3F)4D	239.0599	-1.961	20340.300	5.5	D7	(5D)2H	62158.110	4.5	4P	(3F)4F
238.3140	-4.698	104120.270	2.5	5D	(5D)6P	62171.615	3.5	4SP(7S)6P	239.0759	-0.319	86599.738	2.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D	
238.3218	-2.859	49100.976	0.5	D6S	(3F)4P	91048.256	1.5	5P	(5D)4D	239.0788	-3.938	105763.270	5.5	4D	(5D)2D	63948.790	4.5	4P	(3F)4G
238.3245	-0.894	2837.950	2.5	D7	(5D)4F	44784.761	2.5	4P	(5D)4D	239.1043	-2.488	85048.602	1.5	4D	(5D)4D	43238.586	2.5	4P	(5D)6P
238.3264	-3.191	50142.786	2.5	D6S	(3F)4F	92089.260	3.5	4SP(5G)4H	239.1278	-4.159	50212.826	2.5	D6S	(3P)4F	92018.729	2.5	4SP(5D)6F		
238.3417	-3.843	54273.641	4.5	D5S2(7S)4G	96217.420	3.5	4SP(5F)4D	239.1303	-2.333	20516.960	2.5	D7	(5D)2						

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
239.1457	-3.426	23031.300	1.5	D6S	64834.073	1.5	4P	239.9961	-4.795	20516.960	2.5	D7	62171.615	3.5	4SP(7S)6P
239.1478	-1.594	2430.097	3.5	D7	44232.512	4.5	4P	239.9990	-2.536	21308.040	1.5	D7	62962.205	1.5	4P
239.1549	-0.954	31387.948	2.5	D6S	73189.110	1.5	4P	240.0050	0.796	104315.370	6.5	4D	62662.244	5.5	4P
239.1736	-2.508	49100.976	0.5	D6S	90898.873	1.5	4P	240.0054	-2.229	21812.055	1.5	D6S	63465.109	1.5	4P
239.1925	-4.124	54063.459	0.5	D6S	95858.050	1.5	4SP	240.0279	-0.795	22637.205	4.5	D6S	64286.345	3.5	4P
239.2071	-7.315	23317.633	2.5	D5S2(7S)6S	96589.873	1.5	4P	240.0337	-2.1956	105524.461	4.5	4D	63876.317	5.5	4P
239.2279	-2.798	54273.641	4.5	D5S2(7S)4G	96062.060	5.5	4SP	240.0344	-0.060	26352.766	4.5	D6S	68000.788	4.5	4P
239.2334	-3.145	27314.922	3.5	D6S	69102.380	2.5	4SP	240.0370	-3.190	105589.420	3.5	4D	63948.790	4.5	4P
239.2438	-4.205	103118.400	1.5	6S	61332.764	1.5	4P	240.1118	-3.994	20516.960	2.5	D7	62151.561	2.5	4P
239.2819	-4.488	103950.590	4.5	5D	62171.615	3.5	4SP	240.1242	-1.599	44915.046	3.5	D6S	86547.490	2.5	4P
239.3036	-2.473	23031.300	1.5	D6S	62171.615	3.5	4P	240.1252	-4.080	84870.863	2.5	4D	43238.586	2.5	4P
239.3152	-4.330	50075.910	1.5	D6S	64806.487	0.5	4P	240.1292	0.235	86416.333	3.5	4D	44784.761	2.5	4P
239.3247	-1.009	104064.670	6.5	4D	91850.722	0.5	4SP	240.1328	-1.038	86710.837	1.5	4D	45079.879	2.5	4P
239.3610	-3.239	105230.290	0.5	5D	91912.950	1.5	4SP	240.1346	-2.722	50212.826	2.5	D6S	91843.470	1.5	5P
239.3885	-2.822	104705.420	3.5	5D	62293.164	6.5	4P	240.1487	0.806	31387.948	2.5	D6S	73016.147	3.5	4P
239.4174	-1.775	31387.948	2.5	D6S	62945.038	3.5	4P	240.2079	0.144	44929.550	2.5	D6S	86547.490	2.5	4P
239.4352	-2.693	31999.048	3.5	D7	62945.038	3.5	4P	240.2171	-3.075	36126.387	1.5	D6S	77742.730	2.5	4P
239.4627	-2.490	21812.055	1.5	D6S	41968.046	5.5	4P	240.2246	-1.268	22810.357	3.5	D6S	64425.408	2.5	4P
239.4630	-1.003	102584.963	5.5	5S	73143.288	3.5	4P	240.2282	-2.280	44929.550	2.5	D6S	78841.960	0.5	4P
239.4948	-1.880	30388.542	4.5	D6S	73751.282	4.5	4P	240.2599	-2.016	2837.950	4.5	D7	42114.818	4.5	4P
239.5140	-1.405	49100.976	0.5	D6S	60837.569	6.5	4P	240.2616	-3.402	20516.960	2.5	D7	62125.600	1.5	4P
239.5392	-2.681	58666.258	3.5	D6S	62083.108	4.5	4P	240.2629	-0.520	31483.176	3.5	D6S	73091.590	3.5	4P
239.5420	-0.950	667.683	2.5	D6S	90839.480	0.5	4P	240.2634	-0.161	84266.556	3.5	4D	42658.224	3.5	4P
239.5613	-2.427	84131.563	0.5	4D	100400.360	2.5	4SP	240.2754	-2.361	84844.834	2.5	4D	43238.586	2.5	4P
239.5626	-0.446	384.790	3.5	D6S	42401.302	1.5	4P	240.3100	-4.210	104873.230	3.5	5D	63272.976	2.5	4P
239.5768	-3.798	20516.960	2.5	D7	42401.302	1.5	4P	240.3189	-4.664	83713.536	3.5	5D	42114.818	4.5	4P
239.6199	-4.187	54275.637	2.5	D5S2(7S)4G	62244.520	1.5	4P	240.3374	-3.856	102584.963	5.5	5S	60989.444	4.5	4P
239.6635	-3.940	54283.220	3.5	D5S2(7S)4G	95995.690	2.5	4SP	240.3488	-0.560	103751.660	5.5	4D	62158.110	4.5	4P
239.6719	-0.722	25805.328	4.5	D6S	95995.690	2.5	4SP	240.3701	-4.795	105630.750	2.5	5D	64040.886	3.5	4P
239.6840	-4.478	102802.312	2.5	6S	95995.690	2.5	4SP	240.3764	-0.948	83990.063	1.5	4D	42401.302	1.5	4P
239.7108	-3.175	54063.459	0.5	D6S	67516.332	5.5	4P	240.3835	-1.531	30764.485	3.5	D6S	72352.024	3.5	4P
239.7239	-3.528	49506.934	1.5	D6S	61093.413	2.5	4P	240.3838	-4.891	102394.718	3.5	6S	60807.230	4.5	4P
239.7312	-4.557	50142.786	2.5	D6S	95767.700	0.5	5P	240.4131	-4.316	103878.340	7.5	4D	62293.164	6.5	4P
239.7375	-4.020	84938.180	1.5	4D	43238.586	2.5	4P	240.4432	-0.898	54275.637	2.5	D5S2(7S)4G	95858.050	1.5	4SP
239.7503	-2.317	102584.963	5.5	5S	60887.598	5.5	4P	240.4521	-1.591	10524.461	4.5	4D	63948.790	4.5	4P
239.7765	-3.452	49506.934	1.5	D6S	91199.746	0.5	5P	240.4544	-1.794	83812.316	2.5	4D	42237.033	3.5	4P
239.7826	-1.250	84131.563	0.5	4D	42439.822	0.5	4P	240.4751	-2.128	31483.176	3.5	D6S	73054.881	2.5	4P
239.7901	-3.140	31364.440	1.5	D6S	42439.822	0.5	4P	240.4887	0.236	667.683	2.5	D6S	42237.033	3.5	4P
239.8027	-3.854	48039.090	2.5	D7	89727.342	2.5	4P	240.4982	0.263	44915.046	3.5	D6S	86482.750	3.5	4P
239.8198	-4.389	102842.119	4.5	5S	61156.835	3.5	4P	240.5219	-3.008	49506.934	1.5	D6S	91070.547	2.5	5P
239.8405	-3.987	27620.412	2.5	D6S	69302.090	1.5	4SP	240.5367	-3.855	21711.917	3.5	D6S	63272.976	2.5	4P
239.8650	-0.353	86124.301	4.5	4D	69302.090	1.5	4SP	240.5684	-0.118	86599.738	2.5	4D	45044.168	1.5	4P
239.9031	-3.158	105230.290	0.5	5D	44446.878	3.5	4P	240.5822	-0.915	104828.160	2.5	5D	63272.976	2.5	4P
239.9153	-0.121	84326.912	2.5	4D	42658.224	3.5	4P	240.5993	-1.400	83990.063	1.5	4D	86482.750	3.5	4P
239.9161	-1.486	103751.660	5.5	4D	62083.108	4.5	4P	240.6090	-1.932	20516.960	2.5	D7	62065.521	3.5	4P
239.9233	-2.015	3117.461	1.5	D7	44784.761	2.5	4P	240.6092	-2.711	105589.420	3.5	4D	64040.886	3.5	4P
239.9242	-0.071	667.683	2.5	D6S	42334.822	2.5	4P	240.6390	-2.512	103608.909	4.5	5S	62065.521	3.5	4P
239.9254	-1.108	31387.948	2.5	D6S	73054.881	2.5	4P	240.6510	-3.261	49506.934	1.5	D6S	91048.256	1.5	5P
239.9269	-0.386	86710.837	1.5	4D	45044.168	1.5	4P	240.6662	-0.140	862.613	1.5	D6S	42401.302	1.5	4P
239.9500	-3.449	105127.770	2.5	5D	63465.109	1.5	4P	240.6993	-0.061	31483.176	3.5	D6S	73016.147	3.5	4P
239.9508	-0.267	86416.333	3.5	4D	44753.799	3.5	4P	240.7046	-5.829	20516.960	2.5	D7	62049.025	2.5	4SP
239.9591	-0.914	103983.510	3.5	5S	62322.431	3.5	4P	240.7228	-0.559	49100.976	0.5	D6S	90629.902	1.5	4P
239.9647	-0.543	31483.176	3.5	D6S	73143.288	3.5	4P	240.7409	-0.733	103608.909	4.5	5S	62083.108	4.5	4P
239.9928	-3.250	83990.063	1.5	4D	42334.822	2.5	4P	240.7598	-1.589	105398.852	5.5	4D	63876.317	5.5	4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
240.7685	-3.995	21308.040	1.5	D7 (5D)2D	62829.875	0.5	4P (3F)4D	241.6882	-4.175	104828.160	2.5	5D (5D)6D	63465.109	1.5	4P (3F)4D
240.7754	-0.432	86599.738	2.5	4D (5D)4F	45079.079	2.5	4P (3D)4F	241.6925	-3.884	50212.826	2.5	D6S (3F)4P	91575.139	2.5	5P (5D)6P
240.7939	-1.265	20805.770	4.5	D7 (5D)2H	62322.431	3.5	4P (3H)2G	241.6936	-4.452	105449.540	3.5	5D (5D)4G	64087.418	2.5	4P (3F)4G
240.7952	-6.317	23317.633	2.5	D5S2(7S)6S	64834.073	1.5	4P (3P)2P	241.7115	-2.960	57411.065	2.5	D5S2(7S)4F	98770.140	1.5	4SP(5D)4D
240.8072	-3.409	57493.321	1.5	D5S2(7S)4D	99007.700	0.5	4SP(3D)4D	241.7158	-3.191	20805.770	4.5	D7 (5D)2H	62158.110	1.5	4P (3F)4F
240.8208	-1.438	104174.270	5.5	4D (3H)4I	62662.244	5.5	4P (3H)2I	241.7821	-0.499	22939.358	2.5	D6S (3F)2F	64286.345	3.5	4P (3F)2F
240.8651	-0.011	86710.837	1.5	4D (5D)4F	45206.450	0.5	4P (5D)4D	241.7870	0.109	26170.181	5.5	D6S (3H)2H	96217.420	3.5	4SP(5F)4D
240.8790	0.171	105589.420	3.5	4D (3F)4H	64087.418	2.5	4P (3F)4G	241.8100	-0.829	105291.010	3.5	4D (3F)4G	63948.790	4.5	4P (3F)4G
240.8862	-4.465	105449.540	3.5	5D (5D)4G	63948.790	4.5	4P (3F)4G	241.8170	-2.331	20830.582	2.5	D6S (3P)4P	62171.615	3.5	4SP(7S)6P
240.9340	-3.016	49100.976	0.5	D6S (3P)4P	90593.497	1.5	5P (5D)6F	241.8377	0.045	86416.333	3.5	4D (5D)4F	43079.879	2.5	4P (5D)4F
240.9379	-1.652	20830.582	2.5	D6S (3P)4P	62322.431	3.5	4P (3H)2G	241.8437	0.045	105211.140	4.5	5D (5D)4G	63876.317	5.5	4P (3F)4G
240.9497	-2.726	36252.918	2.5	D6S (3D)2D	77742.730	3.5	4P (1D)2F	241.8533	-4.212	49506.934	1.5	D6S (3P)4P	90839.480	0.5	4P (3P)4P
240.9525	-2.244	83726.364	4.5	4D (5D)6D	42237.033	2.5	4P (1G)2F	241.8666	-0.794	31811.822	2.5	D7 (5D)2F	73143.288	3.5	4P (1G)2G
240.9623	-4.346	57411.065	2.5	D5S2(7S)4P	98989.710	3.5	4P (1G)2F	241.8729	-1.176	102842.119	4.5	5S (3G)4G	61512.634	4.5	4P (3H)4I
240.9694	-1.719	54870.528	2.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	241.8845	-1.860	102842.119	4.5	5S (3G)4G	61512.634	4.5	4P (3H)4I
240.9706	-1.607	25787.598	1.5	D6S (3P)2F	67273.826	1.5	4P (3F)2D	241.8889	-3.527	47674.721	1.5	D7 (5D)2D	89003.460	0.5	4P (3F)2S
240.9860	0.370	22939.358	2.5	D6S (3F)4F	64425.408	2.5	4P (3F)2F	241.9005	-0.315	105414.180	2.5	4D (3F)4G	64087.418	2.5	4P (3F)4G
240.9953	-5.174	105524.461	4.5	4D (3F)4H	69102.380	2.5	4P (3F)4G	241.9343	-2.841	20830.582	2.5	D6S (3P)4P	62151.561	2.5	4P (3F)4F
241.0213	-0.642	27620.412	2.5	D6S (3F)2F	69102.380	2.5	4SP(3S)4P	241.9458	-3.214	80177.975	1.5	5S (5D)4D	38858.958	2.5	4P (5D)6D
241.0271	-0.292	83713.536	3.5	4D (5D)6D	42237.033	3.5	4P (5D)6F	241.9799	-2.443	54904.222	3.5	D6S (3F)2F	96217.420	3.5	4SP(5P)4D
241.0301	-1.361	22810.357	3.5	D6S (3F)4F	64286.345	3.5	4P (3D)4F	241.9893	-1.793	22637.205	4.5	D6S (3F)4F	63948.790	4.5	4P (3F)4G
241.0415	-1.693	30764.485	3.5	D6S (3G)2G	72238.513	2.5	4P (3D)4F	241.9990	-0.237	86599.738	2.5	4D (3H)4H	45289.801	1.5	4P (5D)4F
241.0520	-0.001	862.613	1.5	D6S (5D)6D	42334.822	2.5	4P (5D)6F	242.0146	-1.820	103600.440	6.5	4D (3H)4H	64286.345	3.5	4P (3H)2I
241.0527	-1.804	84710.685	3.5	4D (5D)6G	42334.822	2.5	4P (5D)6P	242.0392	-1.625	105589.420	3.5	4D (3F)4G	63876.317	5.5	4P (3F)4G
241.1069	-0.294	977.053	0.5	D6S (5D)6D	42439.822	0.5	4P (5D)6F	242.0496	-4.348	102394.718	3.5	6S (5D)4D	61093.413	2.5	4P (3P)2D
241.1177	-2.629	21812.055	1.5	D6S (3F)4P	63272.976	2.5	4P (3F)4D	242.0864	-3.802	20830.582	2.5	D6S (3P)4P	62215.600	1.5	4P (3P)2D
241.1318	-2.433	103751.660	5.5	4D (3H)4H	62993.164	6.5	4P (3H)2I	242.0946	-3.711	103983.510	3.5	5S (3G)2G	62689.880	2.5	4P (3H)2D
241.1348	-4.621	20516.960	2.5	D7 (5F)2D	61974.933	1.5	4SP(7S)6P	242.1175	-3.427	103608.909	4.5	5P (3G)2G	62322.431	3.5	4P (3H)2G
241.1653	-0.248	54904.222	3.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	242.1365	-3.427	105155.090	4.5	4D (3F)4G	63876.317	5.5	4P (3F)4G
241.1765	-1.422	103608.909	4.5	5S (3G)2G	62158.110	4.5	4P (3F)4F	242.1817	-0.879	105155.090	4.5	4D (3F)4G	63876.317	5.5	4P (3F)4G
241.1808	0.618	105398.852	5.5	4D (3F)4H	63948.790	4.5	4P (3F)4G	242.1901	-2.208	20805.770	4.5	D7 (5D)2H	62083.108	4.5	4P (3H)2G
241.2009	-0.674	84685.198	3.5	4D (5D)4D	43238.586	2.5	4P (5D)6P	242.1918	-1.920	22810.357	3.5	D6S (3F)4F	64087.418	2.5	4P (3F)4G
241.2263	-4.348	104380.940	3.5	5D (5D)6F	62945.038	3.5	4P (3F)4D	242.1932	-2.557	57493.321	1.5	D5S2(7S)4P	98770.140	1.5	4SP(5D)4D
241.2834	-3.952	104705.420	3.5	5D (5D)6D	63272.976	2.5	4P (3F)4D	242.2688	0.029	31364.440	1.5	D6S (3D)4D	72619.490	2.5	4P (3D)4D
241.3022	-2.387	57578.484	0.5	D5S2(7S)4P	99007.700	0.5	4SP(5D)4D	242.2929	-1.005	37227.326	0.5	D6S (1S)2S	78487.153	1.5	4P (1D)2D
241.3114	-2.873	85048.602	1.5	4D (5D)4D	42401.302	1.5	4P (5D)6P	242.2934	-1.953	20805.770	4.5	D7 (5D)2H	62065.521	3.5	4P (3F)4F
241.3311	-0.365	977.053	0.5	D6S (5D)6D	42401.302	1.5	4P (5D)6F	242.3210	-0.118	31364.440	1.5	D6S (3D)4D	72619.490	2.5	4P (3D)4D
241.3499	-0.378	86710.837	1.5	4D (5D)4F	45289.801	1.5	4P (5D)4F	242.3218	-0.984	102842.119	4.5	5S (3G)4G	61587.214	5.5	4P (3H)4I
241.3912	-3.870	20830.582	2.5	D6S (3P)4P	62244.520	1.5	4P (3F)4F	242.3499	-0.180	105291.010	3.5	4D (3F)4G	64040.886	3.5	4P (3F)4G
241.3994	0.717	105288.847	6.5	4D (3F)4H	63876.317	5.5	4P (3F)4G	242.3512	-1.606	84870.863	2.5	4D (5D)4D	43620.957	1.5	4P (5D)6P
241.4083	-1.183	21231.608	6.5	4D (3H)4H	62662.244	5.5	4P (3H)2I	242.3914	-1.194	31811.822	2.5	D7 (5D)2F	73054.881	2.5	4P (1G)2F
241.4202	-0.373	54870.528	2.5	D6S (3F)2F	96279.490	2.5	4SP(3G)2F	242.4146	0.398	22637.205	4.5	D6S (3F)4F	63876.317	5.5	4P (3F)4G
241.4510	-1.802	22637.205	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	242.4205	-0.067	105524.461	4.5	4D (3F)4H	64286.345	3.5	4P (3F)2F
241.4583	-1.777	104064.670	6.5	4D (3H)4I	62662.244	5.5	4P (3H)2I	242.4288	-3.200	80346.016	0.5	5S (5D)4D	39109.307	0.5	4P (5D)6D
241.5069	-0.500	23031.300	1.5	D6S (3F)4F	64425.408	2.5	4P (3F)2F	242.4392	-0.284	20830.582	2.5	D6S (3P)4P	62015.521	3.5	4P (3F)4F
241.5195	-3.242	49506.934	1.5	D6S (3F)4F	90898.873	1.5	4P (3F)4P	242.4499	-2.724	21711.917	3.5	D6S (3H)4H	62945.038	3.5	4P (3F)4D
241.5785	-2.405	21308.040	1.5	D7 (5D)2D	62689.880	2.5	4P (3F)4D	242.4516	-3.065	85679.698	2.5	4D (5D)4G	44446.478	3.5	4P (5D)4D
241.5967	-1.199	83713.536	3.5	4D (5D)6D	42334.822	2.5	4P (5D)6F	242.4571	-3.537	21430.359	5.5	D6S (3H)4H	62662.244	5.5	4P (3H)2I
241.6051	-3.238	31811.822	2.5	D7 (5D)2F	73189.110	1.5	4P (3D)2P	242.4591	-0.113	31387.948	2.5	D6S (3D)4D	72619.490	2.5	4P (3D)4D
241.6057	-3.494	54902.315	1.5	D6S (3P)2P	96279.490	2.5	4SP(3G)2F	242.4651	-1.628	22810.357	3.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
241.6168	-1.610	54904.222	3.5	D6S (3F)4G	96279.490	2.5	4SP(3G)2F	242.4662	-1.996	85462.862	3.5	4D (5D)4G	44232.512	4.5	4P (5D)4F
241.6284	-1.251	105414.180	2.5	4D (3F)4G	64425.408	3.5	4P (3F)4G	242.4950	-2.509	79885.493	2.5	5S (5D)6D	38660.043	3.5	4P (5D)6D
241.6447	0.140	86154.301	4.5	4D (5D)4F	44753.799	3.5	4P (5D)4F	242.5042	-2.509	84844.834	2.5	4D (5D)6G	43620.957	1.5	4P (5D)6P
241.6715	-1.118	30764.485	3.5	D6S (3G)2G	72130.390	4.5	4P (1G)2H	242.5362	-3.631	20830.582	2.5	D6S (3P)4P	62049.025	1.5	4SP(7S)6P
241.6719	-5.914	20805.770	4.5	D7 (5D)2H	62171.615	3.5	4P (1G)2H	242.5364	-1.292	26055.423	2.5	D6S (3G)4F	67273.826	1.5	4P (3F)2D
241.6862	-2.614	21581.638	4.5	D6S (3H)4H	62945.038	3.5	4P (3F)4D	242.5687	-0.661	23787.598	1.5	D6S (3P)2P	67000.517	2.5	4P (3F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
242.5911	-2.462	20516.960	2.5	D7 (5D)2D	61726.077	3.5	4P (3F)4D	243.2700	-1.251	32875.646	6.5	D6S (11)21	73969.767	5.5	4P (11)21
242.6077	0.129	105155.090	4.5	4D (3F)4G	63948.790	4.5	4P (3F)4G	243.2705	-2.693	57411.065	2.5	D5S2 (7S)4P	98505.100	2.5	4SP(5D)4D
242.6193	-1.823	31811.822	2.5	D7 (5D)2F	73016.147	3.5	4P (1G)2F	243.2744	-2.840	54902.315	1.5	D6S (3P)2F	95995.690	2.5	4SP(5P)4D
242.6236	-4.077	105291.010	3.5	4D (3F)4G	64087.410	2.5	4P (3F)4G	243.2794	-0.895	31999.048	3.5	D7 (5D)2F	73091.590	4.5	4P (1G)2G
242.6435	-4.392	30764.485	3.5	D6S (3G)2G	71964.718	2.5	4P (3D)4F	243.2857	-3.100	54904.222	3.5	D6S (3F)2F	95995.690	2.5	4SP(5P)4D
242.6493	-2.150	57578.484	0.5	D5S2 (7S)4P	98770.140	1.5	4SP(5D)4D	243.2874	0.599	32875.646	6.5	D6S (11)21	73966.832	6.5	4P (11)21
242.7056	-0.430	88157.116	1.5	4D (5D)4P	46967.444	2.5	4P (5D)4P	243.2893	-1.569	58666.258	3.5	D6S (1G)2G	99757.120	4.5	4P (1G)2G
242.7065	-4.971	60384.370	0.5	D5S2 (7S)4D	101573.900	1.5	4SP(5D)4P	243.2979	-2.307	103751.660	5.5	4D (3H)4H	62662.244	5.5	4P (3H)21
242.7195	-1.727	20340.300	5.5	D7 (5D)2H	61527.616	6.5	4P (3H)41	243.3043	-1.119	84326.912	2.5	4D (5D)6P	43238.586	2.5	4P (5D)6P
242.7200	0.256	105063.550	5.5	4D (3F)4G	63876.317	5.5	4P (3F)4G	243.3129	-4.794	105127.770	2.5	5D (5D)4D	64040.886	3.5	4P (5D)4G
242.7285	-0.282	84424.370	1.5	4D (5D)6P	43238.586	2.5	4P (5D)6P	243.3148	-2.784	49506.934	1.5	D6S (3P)4F	90593.497	1.5	5P (5D)6F
242.7811	-1.300	58631.531	4.5	D6S (1G)2G	99808.400	3.5	4P (1G)2G	243.3160	-4.556	100749.810	2.5	5S (3F)2F	59663.436	1.5	4P (3P)4S
242.8078	-1.984	20340.300	5.5	D7 (5D)2H	61512.634	4.5	4P (3H)41	243.3300	-0.826	21581.638	4.5	D6S (3H)4H	62662.244	5.5	4P (3H)21
242.8201	-3.971	105211.140	4.5	5D (5D)4G	64040.886	3.5	4P (3F)4G	243.3372	-0.648	38162.194	2.5	D6S (1D)2D	79243.600	1.5	4P (1D)2P
242.8293	-0.728	31483.176	3.5	D6S (3D)4D	72651.876	3.5	4P (3D)4D	243.3759	-3.648	102804.312	2.5	6S (5D)4D	61726.077	3.5	4P (3F)4D
242.8365	0.375	131483.176	3.5	D6S (3D)4D	72650.658	4.5	4P (3D)4D	243.3991	-2.761	102584.963	5.5	5S (3G)4G	61512.634	4.5	4P (3H)41
242.8492	-4.859	104630.430	1.5	5D (5D)6P	63465.109	1.5	4P (3F)4D	243.4060	-0.425	83308.194	2.5	4D (5D)6F	42237.033	3.5	4P (5D)6F
242.8525	-3.314	80177.975	1.5	5S (5D)4D	39013.206	1.5	4P (5D)6D	243.4093	-4.512	38214.507	1.5	D6S (1D)2D	79285.110	2.5	4SP(5S)6P
242.8596	-1.992	105589.420	3.5	4D (3F)4H	64425.408	2.5	4P (3F)2F	243.4208	-2.861	80177.975	1.5	5S (5D)4D	39109.307	0.5	4P (5D)6D
242.8618	-1.885	105449.540	3.5	5D (5D)4G	64286.345	3.5	4P (3F)2F	243.4360	-3.485	83726.364	4.5	4D (5D)6D	42658.224	3.5	4P (5D)6P
242.8799	-0.224	25428.784	5.5	D6S (3G)4G	66589.008	4.5	4P (3G)4H	243.4409	-0.336	31364.440	1.5	D6S (3D)4D	72429.711	0.5	4P (3D)4D
242.8969	-0.757	83558.540	0.5	4D (5D)6F	72524.566	1.5	4P (3D)4D	243.4647	-2.241	31368.450	0.5	D6S (3D)4D	72429.711	0.5	4P (3D)4D
242.9035	-0.372	31368.450	0.5	D6S (3D)4D	72524.566	1.5	4P (3D)4D	243.4730	0.534	32909.905	5.5	D6S (11)21	73969.767	5.5	4P (5D)6F
242.9155	-0.259	83812.316	2.5	4D (5D)6D	42401.302	1.5	4P (5D)6F	243.4819	-0.955	83459.670	1.5	4D (5D)6F	42401.302	1.5	4P (5D)6F
242.9191	-4.816	104426.460	2.5	5D (5D)6F	63272.976	2.5	4P (3F)4D	243.4879	-0.853	102584.963	5.5	5S (3G)4G	61527.616	6.5	4P (3H)41
242.9388	-0.520	21812.055	1.5	D6S (3F)4P	62962.205	1.5	4P (3F)4D	243.4904	-0.839	32909.905	5.5	D6S (11)21	73966.832	6.5	4P (11)21
242.9418	-1.889	22409.852	0.5	D6S (3F)4P	63559.488	0.5	4P (3F)4D	243.4952	-0.212	23031.300	1.5	D6S (3F)4F	64087.418	2.5	4P (3F)4G
242.9511	-1.692	22939.358	2.5	D6S (3F)4F	64087.418	2.5	4P (3F)4G	243.4973	-4.610	104000.810	3.5	5D (5D)6P	62945.038	3.5	4P (3F)4D
242.9730	-3.777	20830.582	2.5	D6S (3F)4P	61974.933	1.5	4SP(7S)6P	243.5000	0.075	83713.536	3.5	4D (5D)6D	42658.224	3.5	4P (5D)6P
242.9736	-0.018	31999.048	3.5	D7 (5D)2F	73143.288	3.5	4P (1G)2G	243.5003	-3.061	22409.852	0.5	D6S (3P)4F	63465.109	1.5	4P (3F)4D
242.9860	-2.428	58666.258	3.5	D6S (1G)2G	62125.600	1.5	4P (3P)2D	243.5048	-1.865	83495.304	2.5	4D (5D)6S	44446.878	3.5	4P (5D)4D
242.9981	-4.450	103265.694	0.5	6S (5D)4D	62125.600	1.5	4P (3P)2D	243.5048	-1.865	83495.304	2.5	4D (5D)6S	44446.878	3.5	4P (5D)4D
243.0079	0.259	22810.357	3.5	D6S (3F)4F	63948.790	4.5	4P (3F)4G	243.5070	-3.522	103094.730	3.5	4SP(7S)6P	62049.025	2.5	4SP(7S)6P
243.0187	-2.790	31387.948	2.5	D6S (3D)4D	72524.566	1.5	4P (3D)4D	243.5816	-2.140	21251.608	6.5	D6S (3H)4H	62293.164	6.5	4P (3H)21
243.0205	-1.436	31483.176	3.5	D6S (3D)4D	72524.566	1.5	4P (3D)4D	243.5887	-4.397	105127.770	2.5	5D (5D)4D	64087.418	2.5	4P (3F)4G
243.0402	-4.015	50075.910	1.5	D6S (3F)4F	91208.887	1.5	5P (5D)4F	243.5999	-1.770	103983.510	3.5	5S (3G)2G	62945.038	3.5	4P (3F)4D
243.0408	-4.196	60441.033	1.5	D5S2 (7S)4D	101573.900	1.5	4SP(5D)4P	243.6220	-0.852	23428.784	5.5	D6S (3G)4G	66463.528	5.5	4P (3G)4H
243.0466	-2.929	49506.934	1.5	D6S (3F)4P	67516.332	5.5	4P (3G)2H	243.6556	-0.124	38214.507	1.5	D6S (1D)2D	79243.600	1.5	4P (1D)2P
243.0659	-2.824	60445.275	2.5	D5S2 (7S)4D	101573.900	1.5	4SP(5D)4P	243.6623	0.226	84266.556	3.5	4D (5D)6P	43238.586	2.5	4P (5D)6P
243.0706	-1.359	105414.180	2.5	4D (3F)4G	64286.345	3.5	4P (3F)2F	243.6708	-4.401	79885.493	2.5	5S (5D)4D	38858.958	2.5	4P (5D)6D
243.0838	-0.202	58631.531	4.5	D6S (1G)2G	99757.120	4.5	4P (1G)2G	243.6851	-4.953	103449.540	3.5	5D (5D)4G	64425.408	2.5	4P (3F)2F
243.0864	-2.926	54870.528	2.5	D6S (3F)2F	95995.690	2.5	4SP(5P)4D	243.6996	0.289	58631.531	4.5	D6S (1G)2G	99653.220	4.5	4SP(3G)2G
243.0882	-2.549	83459.670	1.5	4D (5D)6F	42334.822	2.5	4P (5D)6F	243.7105	-0.347	83136.487	3.5	4D (5D)6F	42414.818	4.5	4P (5D)6F
243.0886	-0.618	57411.065	2.5	D5S2 (7S)4P	98535.850	3.5	4SP(5D)4F	243.7162	-1.357	23428.784	5.5	D6S (3G)4G	64439.822	0.5	4P (5D)6F
243.0942	-2.840	50075.910	1.5	D6S (3F)4F	91199.746	0.5	5P (5D)4F	243.7273	-1.382	23428.784	5.5	D6S (3G)4G	64439.822	0.5	4P (5D)6F
243.0993	-0.376	49506.934	1.5	D6S (3P)4F	90629.902	1.5	4P (3F)4S	243.7273	-1.382	23428.784	5.5	D6S (3G)4G	64439.822	0.5	4P (5D)6F
243.1115	-4.111	38164.194	2.5	D6S (1D)2D	79285.110	2.5	4P (3F)4S	243.7273	-1.382	23428.784	5.5	D6S (3G)4G	64439.822	0.5	4P (5D)6F
243.1245	-0.973	83558.540	0.5	4D (5D)6F	61726.077	3.5	4P (3D)6F	243.7335	-1.265	85462.862	3.5	4D (5D)4G	44446.878	3.5	4P (5D)4D
243.1403	-2.312	102842.119	4.5	5S (3G)4G	61726.077	3.5	4P (3D)6F	243.7385	-2.118	57493.321	1.5	D5S2 (7S)4P	98505.100	2.5	4SP(5D)4D
243.1479	-1.223	105063.550	5.5	4D (3F)4G	63948.790	4.5	4P (3F)4G	243.7662	-4.739	50157.452	4.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P
243.1512	-1.891	105155.090	4.5	4D (3F)4G	64040.886	3.5	4P (3F)4G	243.7662	-4.739	50157.452	4.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P
243.1518	-2.915	108630.429	5.5	5S (11)21	67516.332	5.5	4P (3G)2H	243.8008	-0.522	105291.010	3.5	4D (3F)4G	64286.345	3.5	4P (3F)2F
243.1892	-6.300	23317.633	2.5	D5S2 (7S)6S	64425.408	2.5	4P (3F)2F	243.8048	-0.736	58631.531	4.5	D6S (1G)2G	99635.520	3.5	4SP(3G)2G
243.2021	-3.232	33501.253	3.5	D6S (1G)2G	74606.841	2.5	4P (3D)2D	243.8419	-1.857	102584.963	5.5	5S (3G)4G	61587.214	5.5	4P (3H)41
243.2262	0.014	22939.358	2.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	243.8519	-3.483	50212.826	2.5	D6S (3P)4P	91208.887	1.5	5P (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
243.8604	-4.874	50075.910	1.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F	244.7835	-4.352	31811.822	2.5	D7 (5D)2F	72651.876	3.5	4P (3D)4D
243.8713	-4.719	103118.400	1.5	6S (5D)4D	62125.600	1.5	4P (3F)2D	244.8112	-2.807	50212.826	2.5	D6S (3P)4F	91048.256	1.5	5P (5D)4D
243.8953	-0.664	105414.180	2.5	4D (3F)4G	64425.408	2.5	4P (3F)2F	244.8297	-4.845	104873.230	3.5	5D (5D)4D	61970.886	3.5	4P (3F)4G
243.9027	-3.977	54870.528	2.5	D6S (3F)2F	95858.050	1.5	48P (5P)4D	244.8595	-4.874	102802.312	1.5	6S (3D)2P	61974.933	1.5	4SP (7S)6P
243.9061	-0.818	58666.258	3.5	D6S (1G)2G	99653.220	4.5	48P (3G)2D	244.8734	-2.418	25787.598	1.5	D6S (3P)2P	66612.656	1.5	4P (3G)4F
243.9436	-2.047	79439.467	3.5	5S (5D)4D	66411.686	6.5	4P (3G)4H	244.9184	-2.151	21308.040	1.5	D7 (5D)2D	62125.600	1.5	4P (3P)2D
243.9459	-1.498	57411.065	2.5	D5S2 (7S)4F	38458.981	4.5	4P (5D)6D	244.9201	-2.723	54063.459	0.5	D6S (3P)2P	94880.740	1.5	4SP (5P)4F
243.9596	-2.873	21711.917	3.5	D6S (3H)4H	98391.330	3.5	48P (5D)4D	244.9290	-2.500	20516.960	2.5	D7 (5D)2D	61332.764	1.5	4P (5D)6P
243.9729	-2.873	54063.459	0.5	D6S (3P)2P	62689.880	2.5	4P (3F)4D	244.9729	-2.841	2430.097	3.5	D7 (5D)4F	43238.586	2.5	4P (5D)6P
243.9931	-3.815	83308.194	2.5	4D (5D)6F	95039.200	1.5	4P (3P)2P	244.9778	-2.735	31811.822	2.5	D7 (5D)2F	72619.490	2.5	4P (3D)4D
244.0115	-0.001	50075.910	1.5	D6S (3F)4F	42334.822	2.5	4P (5D)6F	244.9958	-0.580	31364.440	1.5	D6S (3D)4F	72168.998	1.5	4P (3D)4F
244.0147	-5.411	23317.633	2.5	D5S2 (7S)6S	91048.256	1.5	5P (5D)4D	244.9968	-4.903	54275.637	2.5	D5S2 (7S)4G	95709.640	3.5	4P (3G)2H
244.0259	-4.913	103118.400	1.5	6S (5D)4D	99635.520	3.5	48P (3G)2G	245.0005	-4.654	108804.667	3.5	5S (3D)4D	68000.788	4.5	4P (3G)2H
244.0424	-0.059	31387.948	2.5	D6S (3D)4D	64286.345	3.5	4P (3F)2F	245.0033	-0.161	84424.370	1.5	4D (5D)6F	43620.957	1.5	4P (5D)6F
244.0586	-3.615	60441.033	1.5	D5S2 (7S)4D	62151.561	2.5	4P (3F)4F	245.0138	-0.826	81336.487	3.5	4D (5D)6F	42334.822	2.5	4P (5D)6F
244.0921	-2.629	54902.315	1.5	D6S (3P)2P	72352.024	3.5	4P (3F)4F	245.0205	-0.307	31368.450	0.5	D6S (3D)4D	72168.998	1.5	4P (3D)4F
244.1155	-1.973	85184.734	4.5	4D (5D)4G	101402.380	0.5	48P (5D)4P	245.0283	-0.259	88189.030	0.5	4D (5D)4F	47389.779	1.5	4P (5D)4P
244.1618	-2.181	85728.806	1.5	4D (5D)4S	95858.050	1.5	48P (5P)4D	245.1100	-2.317	1872.567	4.5	D7 (5D)4F	42658.224	3.5	4P (5D)6P
244.1966	-2.433	103600.440	6.5	4D (3H)4H	44232.512	4.5	4P (5D)4F	245.1143	-3.758	57411.065	2.5	D5S2 (7S)4F	98196.000	1.5	4SP (5D)4F
244.2069	-3.938	21308.040	1.5	D7 (5D)2D	62244.520	1.5	4P (3F)4G	245.1219	-0.673	25805.328	4.5	D6S (3G)4G	66589.008	4.5	4P (3G)4H
244.2322	-1.670	57411.065	2.5	D5S2 (7S)4F	64831.943	4.5	4P (3F)2G	245.1259	-3.716	2837.950	2.5	D7 (5D)4F	43620.957	1.5	4P (3H)4I
244.2700	-1.599	85679.698	2.5	4D (5D)4G	44753.799	3.5	4P (5D)4F	245.1353	-2.039	20805.770	4.5	D7 (5D)2H	61587.214	5.5	4P (3H)4I
244.2866	-4.425	104873.230	3.5	5D (5D)4D	63948.790	4.5	4P (3F)4G	245.2054	-6.606	23317.633	2.5	D5S2 (7S)6S	64087.418	2.5	4P (3F)4G
244.3034	-3.091	20805.770	4.5	D7 (5D)2H	61726.077	3.5	4P (3F)4D	245.2202	-0.587	88157.116	1.5	4D (5D)4F	47389.779	1.5	4P (5D)4P
244.3372	-3.928	104863.430	5.5	5D (5D)4G	63948.790	4.5	4P (3F)4G	245.2428	-3.357	50075.910	1.5	D6S (3F)4F	90839.480	0.5	4P (3P)4P
244.3920	-2.939	50142.786	2.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	245.2655	-2.396	107842.119	4.5	D5S2 (7S)4F	98338.280	1.5	4SP (5P)4S
244.4280	-0.488	83136.487	3.5	4D (5D)6F	91048.256	1.5	5P (5D)4D	245.2703	-1.968	502842.119	4.5	5S (3G)4G	62083.108	4.5	4P (3H)2G
244.4516	-0.276	20830.582	2.5	D6S (3P)4P	42237.033	3.5	4P (5D)6F	245.2743	-4.358	50142.786	2.5	D6S (3F)4F	90901.124	2.5	5P (5D)4P
244.4550	-1.373	85679.698	2.5	4D (5D)4G	44784.761	2.5	4P (5D)4D	245.2795	-2.414	105589.420	3.5	4D (3F)4H	64831.943	4.5	4P (3F)2G
244.5107	-0.305	82853.658	5.5	4D (5D)6F	41968.046	5.5	4P (5D)6F	245.2846	-4.715	104705.420	3.5	5D (5D)6D	63948.790	4.5	4P (3F)4G
244.5279	-3.688	50187.813	3.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F	245.2924	-1.573	31483.176	3.5	D6S (3D)4F	72238.513	2.5	4P (3D)4F
244.5573	-0.118	21812.055	1.5	D6S (3P)4P	62689.880	2.5	4P (3F)4D	245.3047	-4.763	102802.312	2.5	6S (5D)4D	62049.025	2.5	4SP (7S)6P
244.5798	-0.091	31364.440	1.5	D6S (3D)4D	72238.513	2.5	4P (3F)4D	245.3156	-0.305	83990.063	1.5	4D (5D)6D	43238.586	2.5	4P (5D)6P
244.5904	-2.438	79885.493	2.5	5S (5D)4D	39013.206	1.5	4P (5D)6D	245.3178	-3.232	83495.304	2.5	4D (5D)6S	44753.799	3.5	4P (5D)4F
244.6110	-0.110	31483.176	3.5	D6S (3D)4D	72352.024	3.5	4P (3D)4F	245.3788	-5.639	21308.040	1.5	D7 (5D)2D	62049.025	2.5	4SP (7S)6P
244.6221	-2.046	25805.328	4.5	D6S (3G)4G	64286.345	3.5	4P (3F)2F	245.3799	-0.831	21581.638	4.5	D6S (3H)4H	62322.431	3.5	4P (3H)2G
244.6305	-2.246	105291.010	3.5	4D (3F)4G	66672.334	3.5	4P (3G)4H	245.3917	-0.889	82853.658	5.5	4D (5D)6F	42114.818	4.5	4P (5D)6F
244.6318	-3.340	54902.315	1.5	D6S (3P)2P	95767.700	0.5	48P (5P)4D	245.3976	-0.182	85184.734	4.5	4D (5D)4G	44446.878	3.5	4P (5D)4D
244.6409	-0.098	82978.677	4.5	4D (5D)6F	64425.408	2.5	4P (3F)2F	245.4040	-4.936	102802.312	1.5	6S (3D)4D	66522.304	2.5	4P (3G)4F
244.6472	-0.442	21430.359	5.5	D6S (3H)4H	42114.818	4.5	4P (5D)6F	245.4166	-1.549	32875.646	6.5	D6S (11)2I	73603.500	5.5	4P (11)2H
244.6560	-2.128	57493.321	1.5	D5S2 (7S)4F	98354.660	2.5	48P (5D)4F	245.4379	-0.339	50187.813	3.5	D6S (3F)4F	62049.025	2.5	4SP (7S)6P
244.6777	-3.249	50212.826	2.5	D6S (3P)4P	91070.547	2.5	5P (5D)4F	245.4579	-1.411	21430.359	5.5	D6S (3H)4H	62158.110	4.5	4P (3F)4F
244.7205	-0.191	31387.948	2.5	D6S (3D)4D	72238.513	2.5	4P (3D)4F	245.4856	-6.010	23317.633	2.5	D5S2 (7S)6S	64040.886	3.5	4P (3F)4G
244.7327	-1.577	31364.440	1.5	D6S (3D)4D	72212.978	0.5	4P (3D)4P	245.5456	-3.436	50187.813	3.5	D6S (3F)4F	90901.124	2.5	5P (5D)4P
244.7401	-4.531	104120.270	2.5	5D (5D)6P	63272.976	2.5	4P (3F)4D	245.5490	-4.266	31811.822	2.5	D7 (5D)2F	72524.566	1.5	4P (3D)4D
244.7541	-1.779	57493.321	1.5	D5S2 (7S)4F	98338.280	1.5	48P (5P)4S	245.5623	-2.546	83983.510	3.5	5S (3G)2G	44784.761	2.5	4P (5D)4D
244.7567	-0.300	31368.450	0.5	D6S (3D)4D	72212.978	0.5	4P (3D)4P	245.5712	-0.118	103462.862	3.5	4D (5D)4G	44753.799	3.5	4P (5D)4F
244.7627	-4.751	21308.040	1.5	D7 (5D)2D	62151.561	2.5	4P (3F)4F	245.5845	-3.292	20805.770	4.5	D7 (5D)2H	61521.634	4.5	4P (3H)4I
244.7753	-4.505	105127.770	2.5	5D (5D)4D	64286.345	3.5	4P (3F)2F	245.5900	-0.041	84326.912	1.5	4D (5D)6P	43620.957	1.5	4P (5D)6P
244.7756	-0.342	32909.905	5.5	D6S (11)2I	73751.282	4.5	4P (11)2H	245.6097	-4.178	57493.321	1.5	D5S2 (7S)4F	98196.000	1.5	4SP (5D)4F
								245.6116	-4.681	105127.770	2.5	5D (5D)4D	64425.408	2.5	4P (3F)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
245.6646	-1.019	32909.905	5.5	D6S	(11)2I	246.4318	-3.394	105398.852	5.5	4D	(3F)4H	64831.943	4.5	4P	(3F)2G	64831.943	4.5	4P	(3F)2G
245.6711	-2.929	105524.461	4.5	4D	(3F)4H	246.4558	-0.893	88189.030	0.5	4D	(5D)4P	47626.076	0.5	4P	(5D)4P	47626.076	0.5	4P	(5D)4P
245.6756	-3.866	102666.694	0.5	6S	(5D)6D	246.4561	-4.534	50075.910	1.5	D6S	(3F)4F	90638.822	2.5	5P	(5D)4D	90638.822	2.5	5P	(5D)4D
245.6820	-0.728	25981.629	3.5	D6S	(3G)4G	246.4906	-0.404	26055.423	2.5	D6S	(3G)4G	66612.656	1.5	4P	(3G)4F	66612.656	1.5	4P	(3G)4F
245.6965	-2.681	50212.826	2.5	D6S	(3P)4P	246.5103	-4.537	50075.910	1.5	D6S	(3F)4F	90629.902	1.5	4P	(3F)4S	90629.902	1.5	4P	(3F)4S
245.7101	-1.886	50212.826	2.5	D6S	(3P)4P	246.5203	-0.238	22409.852	0.5	D6S	(3P)4P	62962.205	1.5	4P	(3P)4D	62962.205	1.5	4P	(3P)4D
245.7112	-5.997	27314.922	3.5	D6S	(3F)2F	246.5510	-5.137	20340.300	5.5	D7	(5D)2D	60887.598	5.5	4P	(3H)4H	60887.598	5.5	4P	(3H)4H
245.7187	-1.729	85728.806	1.5	4D	(5D)4S	246.5913	0.008	25981.629	3.5	D6S	(3G)4G	66522.304	2.5	4P	(3D)4F	66522.304	2.5	4P	(3D)4F
245.7225	-2.200	102842.119	4.5	5S	(3G)4G	246.5942	-4.878	31811.822	2.5	D7	(5D)2F	72352.024	3.5	4P	(3D)4F	72352.024	3.5	4P	(3D)4F
245.7552	-0.745	31364.440	1.5	D6S	(3D)4D	246.6499	-0.113	88157.116	1.5	4D	(5D)4P	47626.076	0.5	4P	(5D)4P	47626.076	0.5	4P	(5D)4P
245.7581	-0.381	85462.862	3.5	4D	(5D)4G	246.6673	-0.283	23031.300	1.5	D6S	(3F)4F	63559.488	0.5	4P	(3F)4D	63559.488	0.5	4P	(3F)4D
245.7665	-4.300	102802.312	2.5	6S	(5D)4D	246.6766	0.043	38164.194	2.5	D6S	(1D)2D	78690.846	2.5	4P	(1D)2D	78690.846	2.5	4P	(1D)2D
245.7726	-2.796	54063.459	0.5	D6S	(3P)2P	246.6821	-0.138	22939.358	2.5	D6S	(3F)4F	63465.109	1.5	4P	(3F)4D	63465.109	1.5	4P	(3F)4D
245.7794	-1.044	31368.450	0.5	D6S	(3D)4D	246.6869	-3.194	49100.976	0.5	D6S	(3P)4P	89625.940	1.5	4P	(3F)4G	89625.940	1.5	4P	(3F)4G
245.8041	-4.820	102842.119	4.5	5S	(3G)4G	246.6880	-3.458	20516.960	2.5	D7	(5D)2D	61041.748	2.5	4P	(3H)4P	61041.748	2.5	4P	(3H)4P
245.8153	-2.911	102394.118	3.5	6S	(5D)4D	246.7028	-2.485	85728.806	1.5	4D	(5D)4S	45206.450	0.5	4P	(5D)4D	45206.450	0.5	4P	(5D)4D
245.8259	-3.835	21308.040	1.5	D7	(5D)2D	246.7190	-2.325	102842.119	4.5	5S	(3G)4G	62322.431	3.5	4P	(3H)2G	62322.431	3.5	4P	(3H)2G
245.8401	-4.582	104705.420	3.5	5D	(5D)6D	246.7743	-0.551	84131.563	0.5	4D	(5D)6D	43620.957	1.5	4P	(5D)6P	43620.957	1.5	4P	(5D)6P
245.8441	-2.303	103608.909	4.5	5S	(3G)2G	246.8176	-4.261	3117.461	1.5	D7	(5D)4F	43620.957	1.5	4P	(5D)6P	43620.957	1.5	4P	(5D)6P
245.8478	-0.457	25805.328	4.5	D6S	(3G)4G	246.8188	-1.843	33466.463	4.5	D6S	(1G)2G	73969.767	5.5	4P	(11)2I	73969.767	5.5	4P	(11)2I
245.8973	-0.135	31387.948	2.5	D6S	(3D)4D	246.8257	-1.677	20830.582	2.5	D6S	(3P)4P	61332.764	1.5	4P	(3F)4D	61332.764	1.5	4P	(3F)4D
245.9109	-1.650	31999.048	3.5	D7	(5D)2F	246.8276	-2.566	102584.963	5.5	5S	(3G)4G	62083.108	4.5	4P	(3H)2G	62083.108	4.5	4P	(3H)2G
245.9114	-0.950	21430.359	5.5	D6S	(3H)4H	246.8300	-1.095	21581.638	4.5	D6S	(3H)4H	62083.108	4.5	4P	(3H)2G	62083.108	4.5	4P	(3H)2G
245.9183	-2.052	31999.048	3.5	D7	(5D)2F	246.8556	-1.969	20340.300	5.5	D7	(5D)2D	60837.569	6.5	5P	(5D)4D	60837.569	6.5	5P	(5D)4D
245.9235	-4.143	102802.312	2.5	6S	(5D)6F	246.8631	-3.978	50142.786	2.5	D6S	(3F)4F	90638.822	2.5	4P	(3D)4G	90638.822	2.5	4P	(3D)4G
245.9282	-1.284	83308.194	2.5	4D	(5D)6F	246.8717	-4.045	102543.648	1.5	6S	(5D)6D	62049.025	2.5	4P	(7S)6P	62049.025	2.5	4P	(7S)6P
245.9332	-2.649	20340.300	5.5	D7	(5D)2H	246.9175	-4.328	50142.786	2.5	D6S	(3F)4F	90629.902	1.5	4P	(3F)4S	90629.902	1.5	4P	(3F)4S
245.9345	-2.659	85728.806	1.5	4D	(5D)4S	246.9372	-1.948	31483.176	3.5	D6S	(3H)4H	62065.521	3.5	4P	(3F)4F	62065.521	3.5	4P	(3F)4F
245.9449	-4.343	31483.176	3.5	D6S	(3D)4D	246.9516	-4.992	102802.312	2.5	6S	(5D)4D	62322.431	3.5	4P	(3H)2G	62322.431	3.5	4P	(3H)2G
245.9893	-3.084	20516.960	2.5	D7	(5D)2D	246.9625	-2.514	105589.420	3.5	4D	(3F)4H	65109.679	3.5	4P	(3F)2G	65109.679	3.5	4P	(3F)2G
246.0017	-4.008	50142.786	2.5	D6S	(3F)4F	246.9715	-0.862	83136.487	3.5	4D	(5D)6F	44232.512	4.5	4P	(5D)4F	44232.512	4.5	4P	(5D)4F
246.0440	-0.760	84863.351	5.5	4D	(5D)4G	246.9721	-3.218	83136.487	3.5	4D	(5D)6F	44232.512	4.5	4P	(5D)4F	44232.512	4.5	4P	(5D)4F
246.0513	-1.525	108630.429	5.5	5S	(11)2I	246.9833	-0.373	38214.507	1.5	D6S	(1D)2D	78690.846	2.5	4P	(3H)4D	78690.846	2.5	4P	(3H)4D
246.0645	-0.323	38214.507	1.5	D6S	(1D)2D	246.9917	-1.020	83713.536	3.5	4D	(5D)6D	43238.586	2.5	4P	(3D)6P	43238.586	2.5	4P	(3D)6P
246.0645	-3.606	50157.452	4.5	D6S	(3F)4F	247.0407	-3.342	20340.300	5.5	D7	(5D)2D	60807.230	4.5	4P	(3H)4G	60807.230	4.5	4P	(3H)4G
246.1070	-3.835	31999.048	3.5	D7	(5D)2F	247.0410	-0.431	26055.423	2.5	D6S	(3G)4G	65222.304	2.5	4P	(3G)4F	65222.304	2.5	4P	(3G)4F
246.1247	-4.005	57578.484	0.5	D5S2	(7S)4P	247.0670	-0.025	22810.357	3.5	D6S	(3F)4F	63272.976	2.5	4P	(3F)4D	63272.976	2.5	4P	(3F)4D
246.1284	-0.268	26055.423	2.5	D6S	(3G)4G	247.0765	-0.769	25787.598	1.5	D6S	(3P)2P	66248.660	0.5	4P	(3F)2S	66248.660	0.5	4P	(3F)2S
246.1672	-0.986	21711.917	3.5	D6S	(3H)4H	247.0848	-4.172	21711.917	3.5	D6S	(3H)4H	62171.615	3.5	4P	(3F)2G	62171.615	3.5	4P	(3F)2G
246.1822	-4.919	102334.112	2.5	6S	(5D)6D	247.0887	-1.928	105291.010	3.5	4D	(3F)4G	64831.943	4.5	4P	(3F)2G	64831.943	4.5	4P	(3F)2G
246.1862	-0.379	25981.629	3.5	D6S	(3G)4G	247.1277	-0.590	84685.198	3.5	4D	(5D)4D	44232.512	4.5	4P	(5D)4F	44232.512	4.5	4P	(5D)4F
246.2293	-3.401	31364.440	1.5	D6S	(3D)4D	247.1372	-2.996	85495.304	2.5	4D	(5D)6S	45044.168	1.5	4P	(5D)4D	45044.168	1.5	4P	(5D)4D
246.2320	-0.288	85679.698	2.5	4D	(5D)4G	247.1374	-1.174	36126.387	1.5	D6S	(3D)2D	76577.482	0.5	4P	(1S)2P	76577.482	0.5	4P	(1S)2P
246.2561	-0.114	87985.628	2.5	4D	(5D)4P	247.1379	-3.329	50187.813	3.5	D6S	(3F)4F	90638.822	2.5	5P	(5D)4D	90638.822	2.5	5P	(5D)4D
246.2917	-3.749	21581.638	4.5	D6S	(3H)4H	247.1674	-1.312	21711.917	3.5	D6S	(3H)4H	62158.110	4.5	4P	(3F)4D	62158.110	4.5	4P	(3F)4D
246.3105	-4.388	104873.230	3.5	5D	(5D)4D	247.2074	-1.149	20516.960	2.5	D7	(5D)2D	60956.781	3.5	4P	(3H)4G	60956.781	3.5	4P	(3H)4G
246.3282	-0.149	25428.784	5.5	D6S	(3G)4G	247.2110	-2.406	104315.370	6.5	4D	(3H)2K	63876.317	5.5	4P	(3F)4G	63876.317	5.5	4P	(3F)4G
246.3492	-2.267	79439.467	3.5	5S	(5D)4D	247.2113	-3.194	85728.806	1.5	4D	(5D)4S	45289.801	1.5	4P	(3F)4F	45289.801	1.5	4P	(3F)4F
246.3516	-2.453	105414.180	2.5	4D	(3F)4G	247.2259	-4.016	103265.694	0.5	6S	(5D)4D	62829.075	0.5	4P	(3F)4D	62829.075	0.5	4P	(3F)4D
246.3720	-1.085	31387.948	2.5	D6S	(3D)4D	247.2431	-0.476	23031.300	1.5	D6S	(3F)4F	63465.109	1.5	4P	(3F)4D	63465.109	1.5	4P	(3F)4D
246.3737	-1.066	21581.638	4.5	D6S	(3H)4H	247.2513	-5.572	21812.055	1.5	D6S	(3F)4F	62244.520	1.5	4P	(3F)4F	62244.520	1.5	4P	(3F)4F
246.3904	-0.357	83812.316	2.5	4D	(5D)6D	247.2606	-0.529	85184.734	4.5	4D	(5D)4G	44753.799	3.5	4P	(5D)4F	44753.799	3.5	4P	(5D)4F
246.4012	0.032	25805.328	4.5	D6S	(3G)4G	247.2754	-3.733	103118.400	1.5	6S	(5D)4D	62689.880	2.5	4P	(3F)4D	62689.880	2.5	4P	(3F)4D
24																			

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
247.2968	-4.700	54275.637	2.5	D5S2(7S)4G	94700.660	2.5	4P(3F)2D	248.2658	0.150	25428.784	5.5	D6S(3G)4G	65896.038	4.5	4P(3C)4G
247.3032	-0.306	84870.863	2.5	4D(5D)4D	44446.878	3.5	4P(5D)4D	248.2663	0.254	58631.531	4.5	D6S(1G)2G	98898.710	3.5	4P(1G)2F
247.3323	-0.263	22409.852	0.5	D6S(3P)4F	62829.075	0.5	4P(3P)4D	248.2868	-0.259	85048.602	1.5	4D(5D)4D	44784.761	2.5	4P(5D)4D
247.3332	-4.257	104705.420	3.5	5D(5D)6D	64286.345	3.5	4P(3F)2F	248.2870	-1.655	84710.685	2.5	4D(5D)6G	44446.878	3.5	4P(5D)4D
247.3347	-2.101	26170.181	5.5	D6S(3H)2H	66589.008	4.5	4P(3G)4H	248.2931	-2.415	20830.582	2.5	D6S(3P)4P	61093.413	2.5	4P(3P)2D
247.3432	-3.501	54283.220	3.5	D5S2(7S)4G	94700.660	2.5	4P(3F)2D	248.3407	-4.471	99918.569	1.5	5S(3F)4F	59663.456	1.5	4P(3P)4S
247.3454	-0.438	50212.826	2.5	D6S(3P)4P	90629.902	1.5	4P(3P)4S	248.3409	-4.157	50142.786	2.5	D6S(3F)4F	90397.868	3.5	5P(5D)4D
247.3555	-3.871	85495.304	2.5	4D(5D)6S	45079.879	2.5	4P(5D)4F	248.3720	-0.515	33501.253	3.5	D6S(1G)2G	73751.282	4.5	4P(11)2H
247.3595	-2.824	105524.461	4.5	4D(3F)4G	65109.679	3.5	4P(3F)2G	248.4145	-4.707	102394.718	3.5	6S(5D)4D	62151.561	2.5	4P(3F)4F
247.3921	-4.747	54275.637	2.5	D5S2(7S)4G	94685.090	2.5	4SP(5D)6P	248.4201	-2.199	1872.567	4.5	D7(5D)4F	42114.818	4.5	4P(5D)6F
247.4385	-4.991	54283.220	3.5	D5S2(7S)4G	94685.090	2.5	4SP(5D)6P	248.4236	-1.311	23031.300	1.5	D6S(3F)4F	63272.976	2.5	4P(3F)4D
247.4461	-3.417	2837.950	2.5	D7(5D)4F	43238.586	2.5	4P(5D)6P	248.4247	-0.265	26170.181	5.5	D6S(3H)2H	66411.686	6.5	4P(3G)4H
247.4620	-1.144	105763.270	5.5	4D(3F)2H	65363.595	5.5	4P(3H)2H	248.4314	-3.619	50157.452	4.5	D6S(3F)4F	90397.868	3.5	5P(5D)4D
247.4625	-3.477	84844.834	2.5	4D(5D)6G	44446.878	3.5	4P(5D)4D	248.4373	-3.986	31999.048	3.5	D7(5D)2F	72238.513	2.5	4P(3D)4F
247.4766	-0.119	25981.629	3.5	D6S(3G)4G	66377.283	3.5	4P(3G)4F	248.4443	0.227	84685.198	3.5	4D(5D)4D	44446.878	3.5	4P(5D)4D
247.5119	0.327	85679.698	2.5	4D(5D)4G	45289.801	1.5	4P(5D)4F	248.4527	-3.587	21812.055	1.5	D6S(3F)4P	62044.025	2.5	4SP(7S)6P
247.5543	0.411	85462.862	3.5	4D(5D)4G	45079.879	2.5	4P(5D)4F	248.4572	-1.339	26352.766	4.5	D6S(3H)2H	66589.008	4.5	4P(3G)4H
247.5684	-2.894	50212.826	2.5	D6S(3P)4P	90593.497	1.5	5P(5D)6F	248.4806	-0.614	58666.258	3.5	D6S(1G)2G	98898.710	3.5	4P(1G)2F
247.6266	-1.077	21711.917	3.5	D6S(3H)4H	62083.108	4.5	4P(3H)2G	248.4858	-3.334	105063.550	5.5	D6S(3F)4G	64831.943	4.5	4P(3F)2G
247.6394	-0.914	83990.063	1.5	4D(5D)6D	43620.957	1.5	4P(5D)6P	248.4858	-3.334	105063.550	5.5	D6S(3F)4G	64831.943	4.5	4P(3F)2G
247.6678	-2.398	1872.567	4.5	D7(5D)4F	42237.033	3.5	4P(5D)6F	248.4883	-4.210	31811.822	2.5	D7(5D)2F	72043.026	1.5	4P(3D)4P
247.7003	-3.879	102334.112	2.5	6S(5D)6D	61974.933	1.5	4SP(7S)6P	248.4944	-4.413	49100.976	0.5	D6S(3F)4P	89331.195	1.5	5P(5D)6D
247.7126	-4.403	31811.822	2.5	D7(5D)2F	72168.998	1.5	4P(3D)4F	248.5014	-3.548	50157.452	4.5	D6S(3F)4F	90386.528	4.5	5P(5D)4F
247.7345	-0.782	21711.917	3.5	D6S(3H)4H	62065.521	3.5	4P(3F)4F	248.5073	-3.058	2430.097	3.5	D7(5D)4F	42658.224	3.5	4P(5D)6P
247.7384	-1.461	31999.048	3.5	D7(5D)2F	72352.024	3.5	4P(3D)4F	248.5236	-1.121	104174.270	5.5	4D(3H)4I	63948.790	4.5	4P(3F)4G
247.7501	-1.949	20805.870	4.5	D7(5D)2H	61156.835	3.5	4P(3H)4H	248.5383	-4.045	102394.718	3.5	6S(5D)4D	62171.615	3.5	4SP(7S)6P
247.7722	-3.661	100749.810	2.5	5S(3F)2F	60402.342	2.5	4P(3P)4F	248.5550	-4.365	49506.934	1.5	D6S(3F)4P	89727.342	2.5	4P(3F)4G
247.7831	-4.248	102394.718	3.5	6S(5D)4D	62049.025	2.5	4SP(7S)6P	248.6120	-2.960	20830.582	2.5	D6S(3F)4P	61041.748	2.5	4P(3H)4G
247.8114	-0.809	26932.748	0.5	D6S(3P)2P	67273.826	1.5	4P(3F)2D	248.6190	-4.659	50187.813	3.5	D6S(3F)4F	90397.868	3.5	5P(5D)4D
247.8358	-4.136	21711.917	3.5	D6S(3H)4H	62049.025	2.5	4SP(7S)6P	248.6248	-1.305	54870.528	2.5	D6S(3F)2F	95079.640	3.5	4P(3F)2F
247.8451	-1.113	21251.608	6.5	D6S(3H)4H	61587.214	5.5	4P(3H)4I	248.6379	-0.737	105763.270	5.5	4D(3F)2H	65556.280	4.5	4P(3H)2H
247.8573	-0.267	22939.358	2.5	D6S(3F)4F	63272.976	2.5	4P(3F)4F	248.6471	-4.104	85495.304	2.5	4D(5D)6S	45289.801	1.5	4P(5D)4F
247.9025	-3.138	20830.582	2.5	D6S(3P)4P	61156.835	3.5	4P(3H)4H	248.6891	-3.102	50187.813	3.5	D6S(3F)4F	90386.528	4.5	5P(5D)4F
247.9216	-1.165	105155.090	4.5	4D(3F)4G	64831.943	4.5	4P(3F)2G	248.7346	-2.860	83812.316	2.5	4D(5D)6D	43620.957	1.5	4P(5D)6P
247.9228	-0.170	38164.194	2.5	D6S(1D)2D	78487.153	1.5	4P(1D)2D	248.7532	-1.282	104064.670	6.5	4D(3H)4I	63876.317	5.5	4P(3F)4G
247.9296	-1.398	26055.423	2.5	D6S(3G)4G	66377.283	3.5	4P(3G)4F	248.7737	-3.259	50212.826	2.5	D6S(3F)4P	90397.868	3.5	5P(5D)4D
247.9382	-1.069	82978.677	4.5	4D(5D)6F	42658.224	3.5	4P(5D)6P	248.7822	-3.354	20805.770	4.5	D7(5D)2H	60989.444	4.5	4P(3H)4H
247.9436	-2.008	26352.766	4.5	D6S(3H)2H	66672.334	3.5	4P(3G)4H	248.7850	-0.938	105763.270	5.5	4D(3F)2H	65580.041	5.5	4P(3G)4G
247.9807	-1.905	21812.055	1.5	D6S(3P)4P	62125.600	1.5	4P(3P)2D	248.7945	-2.013	32909.905	5.5	D6S(11)2I	73091.590	4.5	4P(1G)2G
247.9926	-4.820	102394.718	3.5	6S(5D)4D	62083.108	4.5	4P(3H)2G	248.7967	-1.781	105291.010	3.5	4D(3F)4G	65109.679	3.5	4P(3F)2G
248.0158	0.088	22637.205	4.5	D6S(3F)4F	62945.038	3.5	4P(3F)4D	248.8024	0.030	102842.119	4.5	5S(3G)4G	62662.244	5.5	4P(3H)2I
248.0343	-3.713	102030.912	3.5	6S(5D)6D	61726.077	3.5	4P(3P)4D	248.8333	0.162	54904.222	3.5	D6S(3F)2F	95079.640	3.5	4P(3F)2F
248.0363	-1.857	105414.180	2.5	4D(3F)4G	65109.679	3.5	4P(3F)2G	248.8751	-1.304	54870.528	2.5	D6S(3F)2F	95039.200	1.5	4P(3F)2P
248.0426	-4.072	103265.694	0.5	6S(5D)4D	62962.205	1.5	4P(3P)4D	248.9110	-2.308	21812.055	1.5	D6S(3F)4P	61974.933	1.5	4SP(7S)6P
248.0641	-4.780	50187.813	3.5	D6S(3F)4F	90487.810	2.5	5P(5D)6F	248.9134	-4.447	102334.112	2.5	6S(5D)6D	62171.615	3.5	4SP(7S)6P
248.0767	-1.834	104174.270	5.5	4D(3H)4I	63876.317	5.5	4P(3F)4G	248.9235	-3.768	105524.461	4.5	4D(3F)4H	65363.595	5.5	4P(3H)2H
248.0932	-4.313	84527.778	4.5	4D(5D)6G	44232.512	4.5	4P(5D)4F	248.9252	-4.025	99824.045	5.5	5S(3F)4F	59663.456	1.5	4P(3F)4S
248.1050	-0.677	26170.181	5.5	D6S(3H)2H	66463.528	5.5	4P(3G)4H	248.9484	-0.130	21430.359	5.5	D6S(3F)4F	61587.214	5.5	4P(3H)4I
248.1145	-4.017	102984.963	5.5	5S(3G)4G	62293.164	6.5	4P(3G)4G	248.9525	-3.794	103118.400	1.5	6S(5D)4D	62962.205	1.5	4P(3P)4D
248.1215	-2.924	25787.598	1.5	D6S(3P)2P	66078.269	2.5	4P(3G)4G	248.9697	-3.883	84938.180	1.5	4D(5D)6G	44784.761	2.5	4P(5D)4D
248.1298	-3.987	103118.400	1.5	6S(5D)4D	62829.075	0.5	4P(3P)4D	248.9831	0.417	25428.784	5.5	D6S(3G)4G	65580.041	5.5	4P(3G)4G
248.1555	-3.366	20340.300	5.5	D7(5D)2H	68629.549	5.5	4P(3H)4G	248.9846	-2.913	20805.770	4.5	D7(5D)2H	60956.781	3.5	4P(3H)4G
248.1559	-3.537	102334.112	2.5	6S(5D)6D	62049.025	2.5	4SP(7S)6P	249.0065	-5.640	23317.633	2.5	D5S2(7S)6S	63465.109	1.5	4P(3F)4D
248.1575	-0.958	33466.463	4.5	D6S(1G)2G	73751.282	4.5	4P(11)2H	249.0254	-4.407	54902.315	1.5	D6S(3H)4H	61726.077	2.5	4P(3F)4D
248.2118	0.058	21251.608	6.5	D6S(3H)4H	61527.616	6.5	4P(3H)4I	249.0294	-4.407	54902.315	1.5	D6S(3H)4H	61726.077	2.5	4P(3F)4D
248.2326	-0.519	38214.507	1.5	D6S(1D)2D	78487.153	1.5	4P(1D)2D	249.0332	-4.368	50157.452	4.5	D6S(3F)4F	90300.625	3.5	5P(5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
249.0413	-1.151	54904.422	3.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F	250.1350	-0.585	85172.809	0.5	4D (5D)4D	45206.450	0.5	4P (5D)4D
249.0713	-0.028	33466.463	4.5	D6S (1G)2G	73603.500	5.5	4P (1I)2H	250.1394	-3.809	31999.048	3.5	D7 (5D)2F	71964.710	2.5	4P (3D)4P
249.0722	-0.013	54902.315	1.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P	250.1411	-4.979	102030.912	3.5	6S (5D)6D	62065.521	3.5	4P (3F)4F
249.0829	-1.830	30388.542	4.5	D6S (3G)2G	70523.706	3.5	4P (3G)2G	250.1428	-2.540	58631.531	4.5	D6S (1G)2G	98596.650	4.5	48P(3D)4F
249.0859	-0.217	22810.357	3.5	D6S (3F)4F	62945.038	3.5	4P (3F)4F	250.1791	-3.716	60441.033	1.5	D5S2(7S)4D	100400.360	2.5	48P(3P)2D
249.1066	-1.656	31999.048	3.5	D7 (5D)2F	72130.390	4.5	4P (1G)2H	250.1893	-1.143	54232.195	5.5	D5S2(7S)4G	94189.880	5.5	48P(5G)4G
249.1148	-4.101	60270.339	3.5	D5S2(7S)4D	100400.360	2.5	48P(3P)2D	250.1944	-2.460	84710.685	3.5	4D (5D)6G	44753.799	3.5	4P (3F)4F
249.1234	-0.481	85172.809	0.5	4D (5D)4D	45044.168	1.5	4P (5D)4D	250.2040	-4.796	23317.633	2.5	D5S2(7S)6S	63272.976	2.5	4P (3F)4D
249.1305	-1.392	25428.784	5.5	D6S (3G)4G	65556.280	4.5	4P (3H)2H	250.2050	-3.418	60445.275	2.5	D5S2(7S)4D	100400.360	2.5	48P(3P)2D
249.1386	-6.311	20830.582	2.5	D6S (3P)4P	60956.781	3.5	4P (3H)4G	250.2393	0.051	25981.629	3.5	D6S (3G)4G	65931.334	3.5	4P (3G)4G
249.1398	-0.072	25805.328	4.5	D6S (3G)4G	65931.334	3.5	4P (3G)4G	250.2724	-4.423	105524.461	4.5	4D (3F)4H	65580.041	5.5	4P (3G)4G
249.1701	-4.634	3117.461	1.5	D7 (5D)4F	43238.586	2.5	4P (5D)6P	250.2837	-1.896	103983.510	3.5	5S (3G)2G	64040.886	3.5	4P (3F)4G
249.1833	-2.994	49506.934	1.5	D6S (3P)4P	89625.940	1.5	48P(5P)6P	250.3153	-2.339	83558.540	0.5	4D (5D)6F	43620.957	1.5	4P (5D)6P
249.1953	-1.085	84870.863	2.5	4D (5D)4D	44753.799	3.5	4P (5D)4F	250.3246	-4.493	54275.677	2.5	D5S2(7S)4G	94211.739	2.5	48P(3H)4P
249.2217	-4.404	50187.813	3.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F	250.3327	-0.223	25428.784	5.5	D6S (3G)4G	65363.595	5.5	4P (3H)2H
249.2241	-3.382	102802.312	2.5	6S (5D)4D	62689.880	2.5	4P (3F)4D	250.3541	-1.066	84685.198	3.5	4D (5D)4D	44753.799	3.5	4P (5D)4F
249.2345	-0.744	26352.766	4.5	D6S (3H)2H	66463.528	5.5	4P (3G)4H	250.3566	-0.464	21581.638	4.5	D6S (3H)4H	61512.634	4.5	4P (3H)4I
249.2923	-4.951	105211.140	4.5	5D (5D)4G	65109.679	3.5	4P (3F)2G	250.3571	-2.839	23031.300	1.5	D6S (3F)4F	62962.205	1.5	4P (3F)4D
249.3184	0.428	21430.359	5.5	D6S (3H)4H	61527.616	6.5	4P (3H)4I	250.3604	-3.194	58666.258	3.5	D6S (1G)2G	98596.650	4.5	48P(5D)4F
249.3262	0.708	21251.608	6.5	D6S (3H)4H	61347.614	7.5	4P (3H)4I	250.3875	0.358	30388.542	4.5	D6S (3G)2G	70314.604	4.5	4P (3G)2G
249.3295	-3.256	1872.567	4.5	D7 (5D)4F	41968.046	5.5	4P (3H)4I	250.3926	-1.938	105288.847	6.5	4D (3F)4H	44784.761	2.5	4P (5D)4D
249.3571	-3.424	84844.834	2.5	4D (5D)6G	44753.799	3.5	4P (5D)4F	250.4085	-3.480	102584.963	5.5	5S (3G)4G	62662.244	5.5	4P (3H)2I
249.3656	-2.661	100492.020	3.5	5S (3F)2F	60402.342	2.5	4P (3P)4P	250.4447	-2.033	54232.195	5.5	D5S2(7S)4G	94148.510	4.5	48P(5G)4G
249.3772	-4.531	50212.826	2.5	D6S (3P)4P	90300.625	3.5	5P (5D)6F	250.4491	-3.574	54273.641	4.5	D5S2(7S)4G	94189.880	5.5	48P(5G)4G
249.3878	0.003	84870.863	2.5	4D (5D)4D	44784.761	2.5	4P (5D)4D	250.4556	-1.996	57411.065	2.5	D5S2(7S)4F	97326.270	1.5	48P(3P)2P
249.4116	-1.021	21430.359	5.5	D6S (3H)4H	61512.634	4.5	4P (3H)4I	250.5214	-2.443	2430.097	3.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F
249.4144	-2.271	20805.770	4.5	D7 (5D)2H	60887.598	5.5	4P (3H)4H	250.5240	-2.473	58631.531	4.5	D6S (1G)2G	89335.850	3.5	48P(5D)4F
249.4905	-1.658	84527.778	4.5	4D (5D)6G	44446.878	3.5	4P (5D)4D	250.5355	-2.303	49100.976	0.5	D6S (3F)4P	89003.460	0.5	4P (3P)2S
249.5053	-1.585	105763.270	5.5	4D (5D)6G	43238.586	2.5	4P (5D)6F	250.5483	-1.299	84685.198	3.5	4D (5D)4D	44784.761	2.5	4P (5D)4D
249.5499	-2.199	84296.830	5.5	4D (5D)6G	65696.038	4.5	4P (3G)4G	250.5643	-1.524	83136.487	3.5	4D (5D)6F	62945.038	3.5	4P (3F)4D
249.6412	-2.769	105155.090	4.5	4D (3F)4F	90211.700	5.5	4P (3F)4G	250.5694	-2.159	102842.119	4.5	5S (3G)4G	62945.038	3.5	4P (3F)4D
249.7045	-2.759	103398.852	5.5	4D (3F)4H	65363.595	5.5	4P (3H)2H	250.5756	-1.342	103983.510	3.5	5S (3G)2G	64087.418	2.5	4P (3F)4G
249.7079	-4.008	103983.510	3.5	5S (3G)2G	63948.790	4.5	4P (3F)4G	250.5924	-0.085	25805.328	4.5	D6S (3F)4H	65696.038	4.5	4P (3G)4G
249.7121	-1.706	84266.556	3.5	4D (5D)6P	44232.512	4.5	4P (3F)4G	250.6429	-2.271	20516.960	2.5	D7 (5D)2D	60402.342	2.5	4P (3F)4P
249.7178	-2.922	105589.420	3.5	4D (3F)4H	65556.280	4.5	4P (3H)2H	250.6433	-0.521	50157.452	4.5	D6S (3F)4F	90042.779	4.5	4P (3F)4G
249.7281	-4.521	104863.430	5.5	5D (5D)4G	64831.943	4.5	4P (3F)2G	250.6578	-1.553	85172.809	0.5	4D (5D)4D	45289.801	1.5	4P (5D)4F
249.7303	-1.123	25981.629	3.5	D6S (3G)4G	66012.750	4.5	4P (3G)4F	250.6765	-1.358	84326.912	2.5	4D (5D)6P	44446.878	3.5	4P (5D)4D
249.7683	-1.851	22637.205	4.5	D6S (3F)4F	61332.764	1.5	4P (3P)4P	250.6797	-3.064	22810.357	3.5	D6S (3F)4F	90067.347	4.5	5P (5D)6F
249.7703	-4.098	21308.040	1.5	D7 (5D)2D	62662.244	5.5	4P (3H)2I	250.6986	-1.022	36252.918	2.5	D6S (3D)2D	76129.446	1.5	4P (1S)2P
249.7716	-1.412	26352.766	4.5	D6S (3H)2H	66377.283	3.5	4P (3G)4F	250.7024	-1.079	26055.423	2.5	D6S (3G)4G	65931.334	3.5	4P (3G)4G
249.7820	-2.616	22939.358	2.5	D6S (3F)4F	62962.205	1.5	4P (3P)4D	250.7060	-0.365	103751.660	5.5	4D (3H)4H	63876.317	5.5	4P (3F)4G
249.7820	0.024	26055.423	2.5	D6S (3G)4G	66078.269	2.5	4P (3G)4G	250.7090	-1.303	54273.641	4.5	D5S2(7S)4G	94148.510	4.5	48P(5G)4G
249.8362	-1.384	21711.917	3.5	D6S (3H)4H	61726.077	3.5	4P (3P)4D	250.7422	-2.843	58666.258	3.5	D6S (1G)2G	98335.850	3.5	48P(5D)4F
249.8892	-1.114	22939.358	2.5	D6S (3F)4F	62945.038	3.5	4P (3F)4D	250.7482	-2.688	54870.528	2.5	D6S (3F)2F	94739.170	1.5	48P(5P)4P
249.8898	0.388	21581.638	4.5	D6S (3H)4H	61587.214	5.5	4P (3H)4I	250.7595	-0.560	78725.790	1.5	5S (5D)6D	38858.958	2.5	4P (5D)6D
249.8970	-0.347	85048.602	1.5	4D (5D)4D	45044.168	1.5	4P (5D)4D	250.7688	-0.565	78525.400	2.5	5S (5D)6D	38660.043	3.5	4P (5D)6D
249.9055	-1.621	36126.387	1.5	D6S (3D)2D	76129.446	1.5	4P (1S)2P	250.7692	-3.026	54283.220	3.5	D5S2(7S)4G	94148.510	4.5	48P(5G)4G
249.9155	-3.411	20805.770	4.5	D7 (5D)2H	60807.230	4.5	4P (3H)4G	250.8070	-3.673	102030.912	3.5	D6S (5D)6D	62171.615	3.5	48P(7S)6P
250.0379	-3.368	102030.912	3.5	6S (5D)6D	62049.025	2.5	48P(7S)6P	250.8088	-4.534	54904.222	3.5	D6S (3F)2F	94763.219	3.5	48P(5D)6P
250.0595	-3.114	54902.315	1.5	D6S (3P)2P	94880.740	0.5	48P(5P)4P	250.8132	-3.236	84938.180	1.5	4D (5D)6G	45079.879	2.5	4P (5D)4F
250.0924	0.326	38164.194	2.5	D6S (1D)2D	78137.364	3.5	4P (1D)2F	250.8197	-3.567	102802.312	2.5	6S (5D)4D	62945.038	3.5	4P (3F)4D
250.1202	-1.410	85048.602	1.5	4D (5D)4D	45079.879	2.5	4P (5D)4F	250.8342	0.440	50187.813	3.5	D6S (3F)4F	90042.779	4.5	4P (3F)4G
250.1236	-3.068	105524.461	4.5	4D (3F)4H	65556.280	4.5	4P (3H)2H	250.8943	-3.438	103118.400	1.5	6S (5D)4D	63272.976	2.5	4P (3F)4D
250.1253	-3.740	54063.459	0.5	D6S (3P)2P	94031.378	0.5	48P(5D)6D	250.9122	-1.913	105398.852	5.5	4D (3F)4H	65556.280	4.5	4P (3H)2H

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
250.9123	-1.001	26170.181	5.5	D6S (3H)2H	251.6123	-1.781	84938.180	1.5	4D (5D)6G	45206.450	0.5	4P (5D)4D
250.9149	-0.800	85048.602	1.5	4D (5D)4D	251.6607	-3.025	10308.040	1.5	D7 (5D)2D	61035.287	0.5	4P (3F)4P
250.9278	-3.829	102802.312	2.5	6S (5D)4D	251.6605	-1.032	103600.440	6.5	4D (3H)4H	63876.317	5.5	4P (3F)4G
250.9365	-1.877	83459.670	1.5	4D (5D)6F	251.7135	-0.499	22409.852	0.5	D6S (3F)4P	62125.600	1.5	4P (3P)2D
250.9483	-2.129	54902.315	1.5	D6S (3P)2P	251.7220	-1.218	25981.629	3.5	D6S (3G)4G	65696.038	4.5	4P (3G)4G
250.9620	-1.994	22409.852	0.5	D6S (3P)4P	251.7336	-2.108	78725.790	1.5	5S (5D)6D	39013.206	1.5	4P (5D)6D
250.9729	-2.827	57493.321	1.5	D5S2(7S)4P	251.7339	-1.524	54275.637	2.5	D5S2(7S)4G	93988.170	2.5	48P(5G)4G
250.9865	-0.712	78843.992	0.5	5S (5D)6D	251.7575	-0.956	105288.847	6.5	4D (3F)4H	65580.041	5.5	4P (3G)4G
250.9906	-1.676	54870.528	2.5	D6S (3F)2F	251.7623	-3.935	100749.810	2.5	5S (3F)2F	61041.748	2.5	4P (3H)4D
251.0014	-3.934	105524.461	4.5	4D (3F)4H	251.7740	-3.545	103265.694	0.5	6S (5D)4D	63559.488	0.5	4P (3F)4D
251.0123	-0.825	84870.863	2.5	4D (5D)4D	251.7820	-2.094	54283.220	3.5	D5S2(7S)4G	93988.170	2.5	48P(5G)4G
251.0193	-4.548	54232.195	5.5	D5S2(7S)4G	251.7827	-3.769	102394.718	3.5	6S (5D)4D	62689.880	2.5	4P (3F)4D
251.0276	-3.926	49506.934	1.5	D6S (3P)4P	251.7955	-1.203	105398.852	5.5	4D (3F)4H	65696.038	4.5	4P (3G)4G
251.0528	-4.303	2837.950	2.5	D7 (5D)4F	251.7972	-0.447	50187.813	3.5	D6S (3F)4F	89890.373	3.5	4P (3F)4G
251.0565	-3.882	20805.770	4.5	D7 (5D)2H	251.7989	-1.921	108804.667	3.5	5S (3D)4D	69102.380	2.5	48P(5S)4P
251.0565	-0.673	84266.556	3.5	4D (5D)6F	251.8137	-2.151	103083.550	5.5	4D (3F)2G	65363.595	5.5	4P (3H)2H
251.0620	-2.449	105398.852	5.5	4D (3F)4H	251.8314	-1.919	105983.510	3.5	5S (3F)2G	64286.345	5.5	4P (3F)2F
251.0888	-4.615	54870.528	2.5	D6S (3F)2F	251.8944	-2.285	83308.194	2.5	4D (5D)6F	43620.957	1.5	4P (5D)6P
251.1369	-2.742	2430.097	3.5	D7 (5D)4F	251.9048	-0.139	27314.922	3.5	D6S (3F)2F	67000.517	2.5	4P (3F)2D
251.1625	-0.329	21711.917	3.5	D6S (3H)4H	251.9099	-3.259	100492.020	3.5	5S (3F)2F	60807.230	4.5	4P (3H)4G
251.1764	-1.660	84844.834	2.5	4D (5D)6G	251.9103	-3.976	2430.097	3.5	D7 (5D)4F	42114.818	4.5	4P (5D)6F
251.1770	-3.516	103265.694	0.5	6S (5D)4D	251.9409	-1.387	26932.748	0.5	D6S (3P)2P	66612.656	1.5	4P (3G)4F
251.1832	-1.945	54902.315	1.5	D6S (3P)2P	251.9559	-3.251	50212.826	2.5	D6S (3F)4G	89890.373	3.5	4P (3F)4G
251.1911	0.067	23031.300	1.5	D6S (3F)2F	251.9605	-1.894	33466.463	4.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
251.1947	-2.079	100749.810	2.5	5S (3F)2F	251.9605	-1.894	33466.463	4.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
251.2031	-0.437	54904.222	3.5	D6S (3F)2F	252.0268	-1.463	36252.918	2.5	D6S (3D)2D	38858.958	2.5	4P (5D)6D
251.2247	-4.427	100749.810	2.5	5S (3F)2F	252.0528	-1.463	36252.918	2.5	D6S (3D)2D	38858.958	2.5	4P (5D)6D
251.2343	-1.617	105155.090	4.5	4D (3F)4G	252.0666	-2.589	103608.909	4.5	5S (3G)2G	63948.790	4.5	4P (3F)4G
251.2376	-1.154	84870.863	2.5	4D (5D)4D	252.0675	-1.343	26352.766	4.5	D6S (3H)2H	66012.750	4.5	4P (3G)4F
251.2512	-0.018	36126.387	1.5	D6S (3D)2D	252.0764	-2.612	23031.300	1.5	D6S (3F)4F	62689.880	2.5	4P (3F)4D
251.2730	-2.389	21308.040	1.5	D7 (5D)2D	252.0903	-2.240	100749.810	2.5	5S (3F)2F	61093.413	2.5	4P (3F)2D
251.2808	-4.010	54273.641	4.5	D5S2(7S)4G	252.1092	-0.049	27620.412	2.5	D6S (3F)2F	67273.826	1.5	4P (3F)2D
251.2894	-1.908	54902.315	1.5	D6S (3P)2P	252.1100	-3.477	30318.400	1.5	6S (5D)4D	63465.109	1.5	4P (3F)4D
251.3015	-2.374	54904.222	3.5	D6S (3F)2F	252.1218	0.157	50075.910	1.5	D6S (3F)4F	89727.342	2.5	4P (3F)4G
251.3151	-0.737	78237.685	3.5	5S (5D)6D	252.1413	-2.618	84938.180	1.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
251.3266	-2.796	54063.459	0.5	D6S (3P)2P	252.1485	0.536	58631.531	4.5	D6S (1G)2G	98278.770	5.5	4P (1G)2H
251.3403	-0.715	25805.328	4.5	D6S (3G)4G	252.1655	-5.833	23317.633	2.5	D5S2(7S)6S	62962.205	1.5	4P (3F)4D
251.3450	-3.495	84527.778	4.5	4D (5D)6G	252.1676	-4.583	102334.112	2.5	6S (1G)2G	62689.880	2.5	4P (3F)4F
251.3909	-0.103	50157.452	4.5	D6S (3F)4F	252.1816	0.264	33501.253	3.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
251.4020	-2.567	84844.834	2.5	4D (5D)6G	252.1971	-2.141	84424.370	1.5	4D (5D)6P	44784.761	2.5	4P (5D)4D
251.4346	-3.704	38631.531	4.5	D6S (1G)2G	252.2201	-0.693	21251.608	6.5	D6S (3H)4H	60887.598	5.5	4P (3H)4H
251.4383	0.225	50764.485	3.5	D6S (3G)2G	252.2436	-1.801	86599.738	2.5	4D (5D)4F	46967.444	2.5	4P (5D)4F
251.4409	-1.445	85048.602	1.5	4D (5D)4D	252.2531	-4.541	84710.685	3.5	4D (5D)6G	45079.879	2.5	4P (5D)4F
251.4906	-0.939	25805.328	4.5	D6S (3G)4G	252.2747	-4.470	23317.633	2.5	D5S2(7S)6S	62945.038	3.5	4P (3F)4D
251.4933	-1.678	22939.358	2.5	D6S (3F)4F	252.2892	0.317	33466.463	4.5	D6S (1G)2G	73091.590	4.5	4P (1G)2G
251.5106	-3.004	105763.270	5.5	4D (3F)2H	252.3443	-0.612	78725.790	1.5	5S (5D)6D	39109.307	0.5	4P (5D)6D
251.5119	0.280	50142.786	2.5	D6S (3F)4F	252.3695	-4.875	49506.934	1.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D
251.5384	-3.150	86710.837	1.5	4D (5D)4F	252.4154	-2.134	84685.198	3.5	4D (5D)4D	45079.879	2.5	4P (5D)4F
251.5551	-3.122	32909.905	5.5	D6S (11)2I	252.4569	-2.710	105155.090	4.5	4D (3F)4G	65556.280	4.5	4P (3H)2H
251.5933	-1.609	105291.010	3.5	4D (3F)4G	252.4814	-3.350	105291.010	3.5	4D (3F)4G	65696.038	4.5	4P (3G)4G
251.5936	-1.218	78843.992	0.5	5S (5D)6D	252.4931	-1.150	105524.461	4.5	4D (3F)4H	65931.334	3.5	4P (3G)4G
251.5997	-4.129	21308.040	1.5	D7 (5D)2D	252.4931	-1.150	105524.461	4.5	4D (3F)4H	65931.334	3.5	4P (3G)4G
251.6047	-2.052	50157.452	4.5	D6S (3F)4F	252.5109	-0.548	33501.253	3.5	D6S (1G)2G	73091.590	4.5	4P (1G)2G
251.6068	-3.025	103608.909	4.5	5S (3G)2G	252.5389	-0.408	21251.608	6.5	D6S (3H)4H	60887.598	5.5	4P (3H)4H
					252.5478	-0.591	50142.786	2.5	D6S (3F)4G	89727.342	2.5	4P (3F)4G
					252.5701	-2.122	84870.863	2.5	4D (5D)4D	45289.801	1.5	4P (5D)4F
					252.5860	-1.505	26352.766	4.5	D6S (3H)2H	65931.334	3.5	4P (3G)4G
					252.5862	-0.375	38164.194	2.5	D6S (1D)2D	77742.730	2.5	4P (1D)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
252.5919	-0.257	78237.685	3.5	5S (5D)6D	38660.043	3.5	4P (5D)6D	253.5912	-3.740	99824.045	2.5	5S (3F)4F	60402.342	2.5	4P (3P)4P
252.5981	-0.318	105589.420	3.5	4D (3F)4H	66012.750	4.5	4P (3G)4F	253.6211	-2.400	100749.810	2.5	5S (3F)2F	61332.764	1.5	4P (3P)4P
252.6076	-0.306	21581.638	4.5	6S (3H)4H	61156.835	3.5	4P (3H)4H	253.6464	-2.923	50212.826	2.5	6S (3P)4P	89625.940	1.5	4SP(5P)6P
252.6085	-1.917	105155.090	4.5	4D (3F)4G	65580.041	5.5	4P (3G)4G	253.6674	-0.554	26170.181	5.5	6S (3H)2H	65580.041	5.5	4P (3G)4G
252.6110	-1.544	25981.629	3.5	6S (3G)4G	65556.280	4.5	4P (3H)2H	253.6806	0.129	21581.638	4.5	6S (3H)4H	60989.444	4.5	4P (3H)4H
252.6295	0.195	20830.582	2.5	6S (3P)4P	60402.342	2.5	4P (3F)4P	253.6845	0.133	21430.359	5.5	6S (3H)4H	60837.569	6.5	4P (3H)4H
252.6534	-1.337	103608.909	4.5	5S (3G)2G	64040.886	3.5	4P (3F)4G	253.7105	-8.474	25428.784	5.5	6S (3G)4G	64831.943	4.5	4P (3F)2G
252.6721	-2.421	22409.852	0.5	6S (3P)4P	61974.933	1.5	4SP(7S)6P	253.7139	0.125	77861.625	4.5	5S (5D)6D	38458.981	4.5	4P (5D)6F
252.6746	-4.844	54275.637	2.5	D5S2(7S)4G	93840.340	1.5	4SP(5D)6D	253.7368	-3.736	2837.950	2.5	D7 (5D)4F	42237.033	3.5	4P (5D)6F
252.6832	-2.654	2837.950	2.5	D7 (5D)4F	42401.302	1.5	4P (5D)6F	253.7398	-1.146	100492.020	3.5	5S (3F)2F	61093.413	2.5	4P (3P)2D
252.7104	-0.190	21430.359	5.5	6S (3H)4H	60989.444	4.5	4P (3H)4H	253.8013	-4.765	102334.112	2.5	6S (5D)6D	62945.038	3.5	4P (3F)4D
252.7115	-3.545	103118.400	1.5	6S (5D)4D	63559.488	0.5	4P (3F)4H	253.8204	-1.930	105398.852	5.5	4D (3F)4H	66012.750	4.5	4P (3G)4F
252.7157	-1.951	25805.328	4.5	6S (3G)4G	65363.595	5.5	4P (3H)2H	253.8204	-1.506	26170.181	5.5	6S (3H)2H	65556.280	4.5	4P (3H)2H
252.7167	-0.986	103983.510	3.5	5S (3G)2G	64425.408	2.5	4P (3F)2F	253.8205	-0.090	32275.646	6.5	6S (1I)2I	72261.729	5.5	4P (1G)2H
252.7453	-0.065	33501.253	3.5	6S (1G)2G	73054.881	2.5	4P (1G)2F	253.8399	-1.493	22939.358	2.5	6S (3F)4F	72261.729	5.5	4P (1G)2H
252.7526	-4.706	105630.750	2.5	5D (5D)4G	66078.269	2.5	4P (3G)4G	253.8412	-4.760	60270.339	3.5	D5S2(7S)4D	99653.220	4.5	4SP(3G)2G
252.7677	-1.243	30764.485	3.5	6S (3G)2G	70314.604	4.5	4P (3G)2G	253.8501	-1.102	21711.917	3.5	6S (3H)4H	61093.413	2.5	4P (3P)2D
252.7705	-0.152	33466.463	4.5	6S (1G)2G	73016.147	3.5	4P (1G)2F	253.8584	-3.880	84424.370	1.5	4D (5D)6P	45044.168	1.5	4P (5D)4D
252.7828	-4.518	54283.220	3.5	D5S2(7S)4G	93830.979	2.5	4SP(5D)6D	253.8591	-1.199	27620.412	2.5	6S (3F)2F	67000.517	2.5	4P (3F)2D
252.8187	-2.293	84326.912	2.5	4D (5D)6P	44784.761	2.5	4P (5D)4D	253.8680	-0.322	78237.685	3.5	5S (5D)6D	38858.958	2.5	4P (5D)6D
252.8354	-1.979	50187.813	3.5	6S (3F)4F	89727.342	2.5	4P (3F)4G	253.8799	0.035	21430.359	5.5	6S (3H)4H	60956.781	3.5	4P (3H)4G
252.8629	-2.943	100492.020	3.5	5S (3F)2F	60956.781	3.5	4P (3H)4G	253.8891	-0.098	21581.638	4.5	6S (3H)4H	60956.781	3.5	4P (3H)4G
252.8682	-3.694	22637.205	4.5	6S (3F)4F	62171.615	3.5	4SP(7S)6P	253.8895	0.331	21251.608	6.5	6S (3H)4H	60625.449	5.5	4P (3H)4G
252.9006	-3.283	102802.312	2.5	6S (5D)4D	63272.976	2.5	4P (3F)4D	253.9097	-5.692	23317.633	2.5	D5S2(7S)6S	62689.880	2.5	4P (3P)4D
252.9164	-2.930	101698.489	4.5	6S (1D)2D	77742.730	2.5	4P (1D)2F	253.9160	-3.775	105449.540	3.5	5D (5D)4G	66078.269	2.5	4P (3G)4G
252.9229	-0.590	38214.507	1.5	6S (5D)6D	62171.615	3.5	4SP(7S)6P	253.9336	-4.730	50075.910	1.5	6S (3F)4F	89444.458	2.5	4SP(5P)6P
252.9546	0.308	22637.205	4.5	6S (3F)4F	65696.038	4.5	4P (3G)4G	253.9403	-1.672	105063.550	5.5	4D (3F)4G	65696.038	4.5	4P (3G)4G
252.9559	-0.091	21812.055	1.5	6S (3P)4P	62158.110	4.5	4P (3F)4P	253.9537	-1.778	83812.316	2.5	4D (5D)6D	44446.878	3.5	4P (5D)4D
252.9719	-4.157	105449.540	3.5	5S (5D)4G	61332.764	1.5	4P (3P)4P	253.9806	-2.201	22810.357	3.5	6S (3F)4F	42171.615	3.5	4SP(7S)6P
252.9845	-4.255	99918.569	1.5	5S (3F)4F	60402.342	2.5	4P (3P)4P	253.9908	-1.028	105291.010	3.5	4D (3F)4G	65931.334	3.5	4P (3G)4G
252.9931	-0.837	33501.253	3.5	6S (1G)2G	73016.147	3.5	4P (1G)2G	254.0055	-1.975	27314.922	3.5	6S (3F)2F	66672.334	3.5	4P (3G)2H
252.9955	-4.171	50212.826	2.5	6S (3P)4P	65696.038	4.5	4P (1G)2G	254.0415	-2.812	32909.905	5.5	6S (1S)2S	72261.729	5.5	4P (1G)2H
253.0068	-1.952	84266.556	3.5	4D (5D)6P	89727.342	2.5	4P (3F)4G	254.0661	0.197	36252.918	2.5	6S (3D)2D	75600.931	3.5	4P (3D)2F
253.0170	-1.136	105589.420	3.5	4D (3F)4H	66012.750	4.5	4P (3G)4F	254.0678	-0.593	28414.270	5.5	6S (3F)4F	62158.110	4.5	4P (3F)4F
253.0419	-0.231	105063.550	5.5	4D (3F)4G	66078.269	2.5	4P (3G)4G	254.0889	-4.436	44424.370	1.5	4D (5D)6P	45079.879	2.5	4P (5D)4F
253.0720	-3.825	100492.020	3.5	5S (3F)2F	60989.444	4.5	4P (3H)4H	254.0967	-1.120	26352.766	4.5	6S (3H)2H	65696.038	4.5	4P (3G)4G
253.1085	-3.618	2837.950	2.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F	254.1029	-2.755	104174.270	5.5	4D (3H)4I	64831.943	4.5	4P (3F)2G
253.1107	-1.635	49506.934	1.5	6S (5D)6D	39013.206	1.5	4P (5D)6D	254.1101	-4.874	54870.528	2.5	6S (3F)2F	94211.739	2.5	4SP(5P)4P
253.1279	-3.439	83726.364	4.5	4D (5D)6D	62322.431	3.5	4P (3F)2G	254.1112	-4.620	102030.912	3.5	6S (5D)6D	62151.561	2.5	4P (3F)4P
253.1732	-4.169	60270.339	3.5	D5S2(7S)4D	44232.512	4.5	4P (1G)2G	254.1443	-1.248	105414.180	2.5	4D (3F)4G	66078.269	2.5	4P (3G)4G
253.1942	-2.790	105414.180	2.5	4D (3F)4G	65580.041	5.5	4P (3G)4G	254.1490	-1.929	100492.020	3.5	5S (3F)2F	61156.835	3.5	4P (3H)4H
253.2052	-1.499	84266.556	3.5	4D (5D)6P	44784.761	2.5	4P (5D)4D	254.1836	-0.128	21711.917	3.5	6S (3H)4H	61041.748	2.5	4P (3H)4H
253.2101	-2.445	83713.536	3.5	4D (5D)6D	44232.512	4.5	4P (5D)6D	254.2306	-0.830	103608.909	4.5	5S (3G)2G	64286.345	3.5	4P (3H)2F
253.3511	-0.973	105155.090	4.5	4D (3F)4G	65696.038	4.5	4P (3G)4G	254.2403	-2.152	86710.837	1.5	4D (5D)4F	47389.779	1.5	4P (3P)2S
253.4075	-2.191	100492.020	3.5	5S (3F)2F	60887.598	5.5	4P (3H)4H	254.2736	-0.471	26932.748	0.5	6S (3P)2P	66248.660	0.5	4P (3P)2S
253.4113	-3.069	102394.718	3.5	6S (5D)4D	61041.748	2.5	4P (3H)4G	254.3156	-2.264	54902.315	1.5	6S (3P)2P	94211.739	2.5	4SP(5P)4P
253.4164	-1.271	86467.444	2.5	4D (5D)4F	46967.444	2.5	4P (3F)4D	254.3279	-2.578	54904.222	3.5	6S (3F)2F	94211.739	2.5	4SP(5P)4P
253.4356	-0.607	22637.205	4.5	6S (3F)4F	62083.108	4.5	4P (3H)2G	254.3380	0.036	21581.638	4.5	6S (5D)4G	65580.041	5.5	4P (3H)2H
253.4419	0.093	21711.917	3.5	6S (3H)4H	61156.835	3.5	4P (3H)4D	254.3431	-0.501	22939.358	2.5	6S (3F)4F	62244.520	1.5	4P (3F)4F
253.5362	-0.010	44929.550	2.5	6S (1F)2F	84359.800	1.5	4P (1F)2D	254.3484	-2.259	25805.328	4.5	6S (3G)4G	65109.679	3.5	4P (3F)2G
253.5486	-0.360	22637.205	4.5	6S (3F)4F	62065.521	3.5	4P (3F)4F	254.3782	-1.462	105763.270	5.5	4D (3F)2H	66463.528	5.5	4P (3G)4P
								254.4672	-3.470	99688.337	3.5	5S (3F)4F	60402.342	2.5	4P (3P)4P
								254.4812	-7.777	3117.461	1.5	D7 (5D)4F	42401.302	1.5	4P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	VL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
254.4883	-2.253	84326.912	2.5	4D (5D)6P	45044.168	1.5	4P (5D)4D	255.3472	-1.120	35501.253	3.5	D6S (1G)2G	72651.876	3.5	4P (3D)4D
254.4973	-0.451	21812.055	1.5	D6S (3P)2D	61093.413	2.5	4P (3P)2D	255.3551	-1.467	35501.253	3.5	D6S (1G)2G	72650.658	4.5	4P (3D)4D
254.5073	-3.281	105211.140	4.5	5D (5D)4G	65931.334	3.5	4P (3G)4G	255.3696	-2.108	105524.461	4.5	4D (3F)4H	66377.283	3.5	4P (3G)4F
254.5094	-1.594	83726.364	4.5	4D (5D)6D	44446.878	3.5	4P (5D)6D	255.3741	-2.286	20516.960	2.5	D7 (5D)2D	59663.456	1.5	4P (3P)4S
254.5173	-2.379	105291.010	3.5	4D (3F)4G	66012.750	4.5	4P (3G)4F	255.4012	-3.160	105155.090	4.5	4D (3F)4G	66012.750	4.5	4P (3G)4F
254.5221	-0.136	21711.917	3.5	D6S (3H)4H	60989.444	4.5	4P (3H)4H	255.4442	-2.465	31387.948	2.5	D6S (3D)4D	70523.706	3.5	4P (3G)2G
254.5444	-0.849	27314.922	3.5	D6S (3F)2F	66589.008	4.5	4P (3G)4H	255.4879	-3.853	54902.315	1.5	D6S (3P)2P	94031.378	0.5	4SP(5D)6D
254.5531	-3.339	22810.357	3.5	D6S (3F)4F	62083.108	4.5	4P (3H)2G	255.4945	-1.528	25981.629	3.5	D6S (3G)4G	63109.679	3.5	4P (3F)2G
254.5926	-1.290	83713.536	3.5	4D (5D)6D	44446.878	3.5	4P (5D)6D	255.5068	-0.799	22939.358	2.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F
254.6032	-1.650	54063.459	0.5	D6S (3P)2P	93328.480	1.5	4P (3F)4F	255.5337	-3.712	102394.718	3.5	6S (5D)4D	62722.976	2.5	4P (3F)4D
254.6671	-0.243	22810.357	3.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F	255.5454	-0.748	54075.637	2.5	D5S2(7S)4G	93395.360	2.5	4P (3F)4F
254.6851	-4.519	54232.195	5.5	D5S2(7S)4G	93484.580	4.5	4P (3F)4F	255.5489	-2.674	54275.163	2.5	D5S2(7S)4G	93395.360	2.5	4P (3F)4F
254.7199	-3.601	84326.912	2.5	4D (5D)6P	45079.879	2.5	4P (5D)6P	255.5577	-4.506	50212.826	2.5	D6S (3P)4F	89331.195	1.5	5P (5D)6D
254.7339	-0.412	21711.917	3.5	D6S (3H)4H	60956.781	3.5	4P (3H)4G	255.5586	-1.533	35501.253	3.5	D6S (1G)2G	72619.490	2.5	4P (3D)4D
254.7377	-3.493	54904.222	3.5	D6S (3F)2F	94148.510	4.5	4SP(5G)4G	255.5625	-2.176	54870.528	2.5	D6S (3F)2F	93988.170	2.5	4SP(5G)4G
254.7742	-3.803	22810.357	3.5	D6S (3F)4F	62049.025	2.5	4SP(7S)6P	255.5671	-4.307	54870.528	2.5	D6S (3F)2F	93987.457	3.5	4SP(5D)6D
254.8158	-2.960	22939.358	2.5	D6S (3F)4F	62111.615	3.5	4SP(7S)6P	255.5984	-2.795	54283.220	3.5	D5S2(7S)4G	93395.360	2.5	4P (3F)4F
254.8325	-1.383	21812.055	1.5	D6S (3P)4P	61041.748	2.5	4P (3H)4G	255.6146	-2.869	22939.358	2.5	D6S (3F)4F	62049.025	2.5	4P (3G)4F
254.8482	-2.399	26352.766	4.5	D6S (3H)2H	65800.041	5.5	4P (3G)4G	255.6226	-3.537	105630.750	2.5	5D (5D)4G	52582.510	3.5	4SP(7S)8F
254.8591	-0.229	21581.638	4.5	D6S (3H)4H	60807.230	4.5	4P (3H)4G	255.6248	-7.900	13474.411	2.5	D7 (5D)4P	52582.510	3.5	4SP(7S)8F
254.8710	-1.627	105155.090	4.5	4D (3F)4G	65931.334	3.5	4P (3G)4G	255.6838	-4.299	105711.930	2.5	5D (5D)6S	66612.656	1.5	4P (3G)4F
254.8744	-0.287	21812.055	1.5	D6S (3P)4P	61035.287	0.5	4P (3P)4P	255.7084	-1.101	21711.917	3.5	D6S (3H)4H	60807.230	4.5	4P (3H)4G
254.8923	-0.470	32909.905	5.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	255.7151	-3.394	21308.040	1.5	D7 (5D)2D	60402.342	1.5	4P (3P)4D
254.8966	-0.749	58631.531	4.5	D6S (1G)2G	9781.350	4.5	4P (1G)2H	255.7151	-1.292	23031.300	1.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D
254.9084	0.167	30388.542	4.5	D6S (3G)2G	69606.552	3.5	4P (3G)2F	255.7245	-3.721	47674.721	1.5	D7 (5D)2D	86776.577	2.5	4P (3P)4D
254.9090	-3.822	84424.370	1.5	4D (5D)6P	45206.450	0.5	4P (5D)6P	255.7506	-0.661	22637.205	4.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D
254.9126	-4.186	3117.461	1.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F	255.7602	-3.781	84131.563	0.5	4D (5D)6D	45044.168	1.5	4P (5D)4D
254.9344	-4.349	54273.641	4.5	D5S2(7S)4G	93487.550	3.5	4P (3F)4F	255.7702	-3.803	102030.912	3.5	6S (5D)6D	62945.038	3.5	4P (3F)4D
254.9395	-0.167	23031.300	1.5	D6S (3F)4F	62244.520	1.5	4P (3F)4F	255.7775	-2.542	86710.837	1.5	4D (5D)4F	47626.076	0.5	4P (5D)4P
254.9426	-2.213	105291.010	3.5	4D (5D)4G	66078.269	2.5	4P (3G)4G	255.7828	-3.309	54904.222	3.5	D6S (3F)2F	93988.170	2.5	4SP(5G)4G
254.9461	-0.113	22939.358	2.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F	255.8182	-4.984	102543.648	1.5	6S (5D)6D	63465.109	1.5	4P (3F)4D
254.9466	-2.872	105589.420	3.5	4D (3F)4H	66377.283	3.5	4P (3G)4F	255.8593	-3.435	105449.540	3.5	5D (5D)4G	66377.283	3.5	4P (3G)4F
254.9474	-3.736	54275.637	2.5	D5S2(7S)4G	93487.550	3.5	4P (3F)4F	255.8930	-1.938	105589.420	3.5	4D (3F)4H	66522.283	3.5	4P (3G)4F
254.9544	-2.801	54273.641	4.5	D5S2(7S)4G	93484.580	4.5	4P (3F)4F	255.9242	-1.349	27314.922	3.5	D6S (3F)2F	66377.283	3.5	4P (3G)4F
254.9607	-1.756	86599.738	2.5	4D (5D)4F	47399.779	1.5	4P (5D)4P	255.9322	-4.404	102334.112	2.5	6S (5D)6D	63272.976	2.5	4P (3G)4H
254.9715	-1.153	87314.922	3.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	255.9335	-2.798	105524.461	4.5	4D (3F)4H	66463.528	5.5	4P (3H)4G
254.9910	-2.448	23909.063	1.5	4D (5D)6D	44784.761	2.5	4P (5D)6D	255.9494	-4.721	83812.316	2.5	4D (5D)6D	64753.799	3.5	4P (5D)4F
254.9967	-2.870	54283.220	3.5	D5S2(7S)4G	93487.550	3.5	4P (3F)4F	255.9773	-0.674	54275.637	2.5	D6S (3G)4G	65109.679	3.5	4P (3F)2G
255.0026	0.246	26352.766	4.5	D6S (3H)2H	65556.280	4.5	4P (3H)2H	255.9865	-2.307	54275.637	2.5	D6S (3G)4G	65109.679	3.5	4P (3F)2G
255.0152	-0.405	77861.625	4.5	5S (5D)6D	38660.043	3.5	4P (5D)6D	255.9926	-0.731	27620.412	2.5	D6S (3F)2F	66672.334	3.5	4P (3G)4H
255.0167	-3.664	54283.220	3.5	D5S2(7S)4G	93484.580	4.5	4P (3F)4F	255.9999	-1.184	105063.550	5.5	4D (3F)4G	66012.750	4.5	4P (3G)4F
255.0360	-3.711	105211.140	4.5	5D (5D)4G	66012.750	4.5	4P (3G)4F	256.0283	-0.114	25787.598	1.5	D6S (3P)2P	64834.073	1.5	4P (3P)2P
255.0378	-4.303	108804.667	3.5	5S (3G)4D	69606.552	3.5	4P (3G)2F	256.0458	-1.688	21581.638	4.5	D6S (3H)4H	60625.449	5.5	4P (3H)4G
255.0487	-4.723	105127.770	2.5	5D (5D)4D	65931.334	3.5	4P (3G)4G	256.0673	-2.602	31483.176	3.5	D6S (3D)4D	70523.706	3.5	4P (3G)2G
255.0575	-0.839	21430.359	5.5	D6S (3H)4H	60625.449	5.5	4P (3H)4G	256.0897	-3.901	84326.912	2.5	4D (5D)6P	45289.801	1.5	4P (5D)4F
255.0684	0.213	21430.359	5.5	D6S (3H)2H	65363.595	5.5	4P (3H)2H	256.0911	-2.692	105414.180	2.5	4D (5D)6P	45289.801	1.5	4P (5D)4F
255.1122	-2.766	84266.556	3.5	4D (5D)6P	45079.879	2.5	4P (5D)6P	256.0998	-4.931	105414.180	2.5	4D (5D)6P	45289.801	1.5	4P (5D)4F
255.1151	-1.744	22939.358	2.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D	256.1299	-4.720	103118.400	1.5	6S (5D)4D	64087.418	2.5	4P (3F)4G
255.1204	-0.300	33466.463	4.5	D6S (1G)2G	72651.876	3.5	4P (1G)2H	256.1524	-2.062	83812.316	2.5	4D (5D)6D	44784.761	2.5	4P (5D)4D
255.1225	0.425	58666.258	3.5	D6S (1G)2G	97851.350	4.5	4P (1G)2H	256.1586	-1.671	25805.328	4.5	D6S (3G)4G	64831.943	4.5	4P (3D)4D
255.1740	-4.521	104873.230	3.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F	256.1775	-4.017	100749.810	2.5	5S (3F)2F	61726.077	3.5	4P (3P)4D
255.1931	-2.452	105763.270	5.5	4D (3F)2H	66589.008	4.5	4P (3G)4H	256.2093	-0.462	25787.598	1.5	D6S (3P)2P	64806.487	0.5	4P (3G)4F
255.2048	-4.976	104868.500	4.5	5D (5D)4G	65696.038	4.5	4P (3G)4H	256.2145	-2.805	105630.750	2.5	5D (5D)4G	66612.656	1.5	4P (3G)4F
255.2272	-2.351	54904.222	3.5	D6S (3F)2F	94073.240	3.5	4SP(5G)4G	256.2170	-3.550	23031.300	1.5	D6S (3F)4F	62049.025	2.5	4SP(7S)8F
255.2378	-2.766	104863.430	5.5	5D (5D)4G	65696.038	4.5	4P (3G)4H	256.2536	0.071	7955.299	3.5	D6S (5D)4D	46967.444	2.5	4P (5D)4P
255.3281	-4.248	54904.222	3.5	D6S (3F)2F	94057.773	4.5	4P (5D)6D	256.2623	-1.731	26352.766	4.5	D6S (3H)2H	65363.595	5.5	4P (3H)4G
255.3410	-2.751	103983.510	3.5	5S (3G)2G	64831.943	4.5	4P (3F)2G	256.3019	-5.756	23317.633	2.5	D5S2(7S)6S	62322.431	3.5	4P (3H)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
256.3307	-2.713	105589.420	3.5	4D (3F)4H	66589.008	4.5	4P (3G)4H	257.2968	2317.633	2.5	D5S2(7S)6S	257.2968	2317.633	2.5	D5S2(7S)6S	62171.615	3.5	4SP(7S)6P
256.3476	-0.215	8391.938	2.5	D6S (5D)4D	47389.779	1.5	4P (5D)4P	257.3091	10524.461	4.5	4D (3F)4H	257.3091	10524.461	4.5	4D (3F)4H	66672.334	3.5	4P (3G)4H
256.3844	-1.347	27620.412	2.5	D6S (3F)2F	66612.656	1.5	4P (3G)4F	257.3181	33501.253	3.5	D6S (1G)2G	257.3181	33501.253	3.5	D6S (1G)2G	72352.024	3.5	4P (3G)4F
256.4178	-2.979	105398.852	5.5	4D (3F)4H	66411.686	6.5	4P (3H)4H	257.3187	104863.430	5.5	5D (5D)4G	257.3187	104863.430	5.5	5D (5D)4G	66012.750	4.5	4P (3G)4F
256.4690	-4.625	100492.020	3.5	5S (3F)2F	61512.634	4.5	4P (3H)4I	257.3211	45283.220	3.5	D5S2(7S)4G	257.3211	45283.220	3.5	D5S2(7S)4G	64831.943	4.5	4P (3F)2G
256.4839	-2.676	83726.364	4.5	4D (5D)6D	44753.799	3.5	4P (5D)4F	257.3452	30764.485	3.5	D6S (3G)2G	257.3452	30764.485	3.5	D6S (3G)2G	93129.900	3.5	4P (3F)4D
256.5320	-3.160	54870.528	2.5	D6S (3F)2F	93840.340	1.5	4SP(5D)6D	257.3757	23317.633	2.5	D5S2(7S)6S	257.3757	23317.633	2.5	D5S2(7S)6S	69606.552	3.5	4P (3F)2F
256.5584	-2.492	102842.119	4.5	5S (3G)4G	63876.317	5.5	4P (3F)4G	257.4297	105211.140	4.5	5D (5D)4G	257.4297	105211.140	4.5	5D (5D)4G	62151.561	2.5	4P (3F)4F
256.5983	-2.001	83713.536	3.5	4D (5D)6D	44753.799	3.5	4P (5D)4F	257.4302	20830.582	2.5	D6S (3P)4F	257.4302	20830.582	2.5	D6S (3P)4F	66377.283	3.5	4P (3G)4F
256.6220	-0.456	44915.046	3.5	D6S (1F)2F	83871.184	4.5	4P (1F)2G	257.4367	31483.176	3.5	D6S (3D)4D	257.4367	31483.176	3.5	D6S (3D)4D	59663.456	1.5	4P (3G)2G
256.6401	-0.140	44915.046	3.5	D6S (1F)2F	83868.450	2.5	4P (1F)2D	257.4463	105288.847	6.5	4D (3F)4F	257.4463	105288.847	6.5	4D (3F)4F	70314.604	4.5	4P (3G)2G
256.6508	-1.358	104315.370	6.5	4D (3H)2K	63363.595	5.5	4P (3H)2H	257.4868	99918.569	1.5	5S (3F)4F	257.4868	99918.569	1.5	5S (3F)4F	66463.528	4.5	4P (3G)4H
256.6624	-0.954	22637.205	4.5	D6S (3F)4F	61587.214	5.5	4P (3H)4I	257.4879	13474.411	2.5	D7 (5D)4F	257.4879	13474.411	2.5	D7 (5D)4F	61093.413	2.5	4P (3P)2D
256.6771	-0.457	99573.225	4.5	5S (3F)4F	60625.449	5.5	4P (3H)4G	257.4890	103398.852	5.5	4D (3F)4F	257.4890	103398.852	5.5	4D (3F)4F	52299.390	2.5	4SP(7S)8P
256.6895	-3.352	57411.065	2.5	D5S2(7S)4P	96356.960	3.5	4SP(3G)2F	257.5894	23317.633	2.5	D5S2(7S)6S	257.5894	23317.633	2.5	D5S2(7S)6S	66589.008	4.5	4P (3G)4H
256.6913	-0.609	8680.454	1.5	D6S (5D)4D	45044.168	1.5	4P (5D)4P	257.6019	57411.065	2.5	D5S2(7S)4P	257.6019	57411.065	2.5	D5S2(7S)4P	62125.600	1.5	4P (3P)2D
256.7045	-3.982	23031.300	1.5	D6S (3F)4F	47626.076	0.5	4P (5D)4P	257.6126	105414.180	2.5	4D (3F)4G	257.6126	105414.180	2.5	4D (3F)4G	96217.420	3.5	4SP(5P)4D
256.7357	-1.730	44929.550	2.5	D6S (1F)2F	83868.450	2.5	4P (1F)2D	257.6447	49100.976	0.5	D6S (3P)4P	257.6447	49100.976	0.5	D6S (3P)4P	66612.656	1.5	4P (3G)4F
256.7414	-3.973	54902.315	1.5	D6S (3P)2P	65931.334	3.5	4P (3G)4G	257.6466	33466.463	4.5	D6S (1G)2G	257.6466	33466.463	4.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G
256.7471	-4.293	104868.500	4.5	5D (5D)6G	93840.340	1.5	4SP(5D)6D	257.6738	22939.358	2.5	D6S (3F)4F	257.6738	22939.358	2.5	D6S (3F)4F	87898.120	0.5	4SP(5G)6F
256.7584	-3.457	105524.461	4.5	4D (3F)4H	66589.008	4.5	4P (3G)4H	257.7467	57493.321	1.5	D5S2(7S)4F	257.7467	57493.321	1.5	D5S2(7S)4F	72261.729	5.5	4P (1G)2H
256.7592	-2.830	105398.852	5.5	4D (3F)4H	66463.528	4.5	4P (3G)4H	257.7430	98924.045	2.5	5S (3F)4F	257.7430	98924.045	2.5	5S (3F)4F	45206.450	0.5	4P (3H)4D
256.8032	-3.254	54902.315	1.5	D6S (3P)2P	93830.979	2.5	4SP(5D)6D	257.7637	89824.045	2.5	5S (3F)4F	257.7637	89824.045	2.5	5S (3F)4F	61041.748	2.5	4P (3H)4D
256.8105	-3.944	50075.910	1.5	D6S (5D)4G	89003.460	0.5	4P (3P)2S	257.7724	26055.423	2.5	D6S (3G)4G	257.7724	26055.423	2.5	D6S (3G)4G	66377.283	3.5	4P (3G)4F
256.8126	-2.704	105449.540	3.5	5D (5D)4G	66522.304	2.5	4P (3G)4F	257.7923	103155.090	4.5	4D (3F)4G	257.7923	103155.090	4.5	4D (3F)4G	64834.073	1.5	4P (3P)2P
256.8149	-6.053	23317.633	2.5	D5S2(7S)6S	62244.520	1.5	4P (3F)4F	257.7967	100492.020	3.5	5S (3F)2F	257.7967	100492.020	3.5	5S (3F)2F	61726.077	3.5	4P (3F)2G
256.8158	-3.275	54904.222	3.5	D6S (3F)2F	93830.979	2.5	4SP(5D)6D	257.8023	103608.900	4.5	5S (3G)2G	257.8023	103608.900	4.5	5S (3G)2G	66377.283	3.5	4P (3G)4F
256.8266	-3.576	84131.563	0.5	4D (5D)6D	45206.450	0.5	4P (5D)4D	257.8079	100749.810	2.5	5S (3F)2F	257.8079	100749.810	2.5	5S (3F)2F	61974.933	1.5	4SP(7S)6P
256.8411	-0.622	22409.852	0.5	D6S (3F)4P	61332.764	1.5	4P (3F)4P	257.8218	105291.010	3.5	4D (3F)4G	257.8218	105291.010	3.5	4D (3F)4G	66522.304	2.5	4P (3G)4F
256.8622	-2.422	103751.660	5.5	4D (3H)4H	64831.943	4.5	4P (3F)2G	257.8628	83812.316	2.5	4D (5D)6D	257.8628	83812.316	2.5	4D (5D)6D	45044.168	1.5	4P (5D)4D
256.8886	-0.774	22810.357	3.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D	257.8665	89824.045	2.5	5S (3F)4F	257.8665	89824.045	2.5	5S (3F)4F	45044.168	1.5	4P (5D)4D
256.9018	-2.242	105291.010	3.5	4D (3F)4G	66377.283	3.5	4P (3G)4F	257.8808	99573.225	4.5	5S (3F)2F	257.8808	99573.225	4.5	5S (3F)2F	60807.230	4.5	4P (3H)4G
256.9486	-4.952	50212.826	2.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D	257.8812	27620.412	2.5	D6S (3F)2F	257.8812	27620.412	2.5	D6S (3F)2F	61726.077	3.5	4P (3F)4D
256.9662	-2.102	83136.487	3.5	4D (5D)6F	44232.512	4.5	4P (5D)4P	257.8984	102802.312	2.5	D6S (3F)2F	257.8984	102802.312	2.5	D6S (3F)2F	66040.886	3.5	4P (3F)4G
256.9784	-0.146	37227.326	0.5	D6S (1S)2S	76129.446	1.5	4P (1S)2P	257.9117	85728.806	1.5	4D (5D)4S	257.9117	85728.806	1.5	4D (5D)4S	46967.444	2.5	4P (5D)4P
256.9799	-1.981	27620.412	2.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	257.9345	102030.912	3.5	6S (5D)6D	257.9345	102030.912	3.5	6S (5D)6D	63272.976	2.5	4P (3F)4D
257.0107	-3.643	104593.270	5.5	5D (5D)6G	65966.038	4.5	4P (3G)4G	257.9415	26352.766	4.5	D6S (3H)2H	257.9415	26352.766	4.5	D6S (3H)2H	65109.679	3.5	4P (3F)2G
257.0365	-2.462	102842.119	4.5	5S (3G)4G	63948.790	4.5	4P (3F)4G	257.9418	105127.770	2.5	5D (5D)4D	257.9418	105127.770	2.5	5D (5D)4D	66377.283	3.5	4P (3G)4F
257.0461	-2.200	105414.180	2.5	4D (3F)4G	66522.304	2.5	4P (3G)4F	257.9418	23317.633	2.5	D5S2(7S)6S	257.9418	23317.633	2.5	D5S2(7S)6S	62065.521	3.5	4P (3F)4F
257.0548	-3.210	48039.090	2.5	D7 (5D)2D	86929.649	3.5	4P (3P)4D	257.9840	82978.677	4.5	4D (5D)6F	257.9840	82978.677	4.5	4D (5D)6F	44232.512	4.5	4P (5D)4F
257.0849	0.037	30764.485	3.5	D6S (3G)2G	69650.484	2.5	4P (3G)2F	258.0018	105414.180	2.5	4D (3F)4G	258.0018	105414.180	2.5	4D (3F)4G	66672.334	3.5	4P (3G)4H
257.1029	-3.639	99918.569	1.5	5S (3F)4F	61035.287	0.5	4P (3P)4P	258.0416	33501.253	3.5	D6S (1G)2G	258.0416	33501.253	3.5	D6S (1G)2G	72238.513	2.5	4P (3D)4F
257.1173	-0.426	99688.337	3.5	5S (3F)4F	60807.230	4.5	4P (3H)4G	258.0721	104315.370	6.5	4D (3H)2K	258.0721	104315.370	6.5	4D (3H)2K	65580.041	5.5	4P (3G)4G
257.1456	-0.574	99918.569	1.5	5S (3F)4F	61041.748	2.5	4P (3H)4G	258.0850	83812.316	2.5	4D (5D)6D	258.0850	83812.316	2.5	4D (5D)6D	45079.879	2.5	4P (5D)4F
257.1549	-1.461	22637.205	4.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	258.1043	96888.337	3.5	5S (3F)4F	258.1043	96888.337	3.5	5S (3F)4F	60956.781	3.5	4P (3H)4G
257.1654	-2.157	103983.510	3.5	5S (3G)2G	65109.679	3.5	4P (3F)2G	258.1101	23317.633	2.5	D5S2(7S)6S	258.1101	23317.633	2.5	D5S2(7S)6S	62049.025	2.5	4SP(7S)6P
257.1725	-3.282	47674.721	1.5	D7 (5D)2D	86547.490	2.5	4P (1F)2F	258.1112	99824.045	2.5	5S (3F)4F	258.1112	99824.045	2.5	5S (3F)4F	61093.413	2.5	4P (3P)2D
257.1957	-3.139	47674.721	1.5	D7 (5D)2D	86543.974	1.5	4P (3P)4D	258.1163	48039.090	2.5	D7 (5D)2D	258.1163	48039.090	2.5	D7 (5D)2D	86767.577	2.5	4P (3P)4D
257.1974	-4.676	102334.112	2.5	6S (5D)6D	63465.109	1.5	4P (3F											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
258.3073	-1.978	105291.010	3.5	4D (3F)4G	66589.008	4.5	4P (3G)4H	259.2870	-2.321	102842.119	4.5	5S (3G)4G	64286.345	3.5	4P (3F)2F
258.3134	-1.919	104064.670	6.5	4D (3H)4I	65363.595	5.5	4P (3H)2H	259.2963	-2.308	83308.194	2.5	4D (5D)6F	44753.799	3.5	4P (5D)4F
258.3189	-3.436	83990.063	1.5	4D (5D)6D	45289.801	1.5	4P (3D)4F	259.3094	-3.422	49506.934	1.5	D6S (3P)4P	88059.380	2.5	4SP(5P)6D
258.3280	-1.635	99688.337	3.5	5S (3F)4F	60989.444	4.5	4P (3H)4H	259.3707	-4.043	105063.630	3.5	5D (5D)6G	66522.304	2.5	4P (3G)4F
258.3351	-1.753	27314.922	3.5	D6S (3F)2F	66012.750	4.5	4P (3G)4F	259.3729	-1.217	8846.768	0.5	D6S (5D)4D	47389.779	1.5	4P (5D)4P
258.3468	-4.346	50157.452	4.5	D6S (3F)4F	88853.533	3.5	5P (3D)6D	259.4228	-4.827	50187.813	3.5	D6S (3F)4F	88723.400	4.5	5P (5D)6D
258.3696	-4.046	104705.420	3.5	5D (5D)6D	66012.750	4.5	4P (3G)4F	259.4398	-2.455	72978.930	2.5	D5S2(7S)4F	111929.000	2.5	290DD
258.3770	-2.256	105155.090	4.5	4D (3F)4G	66463.528	5.5	4P (3G)4H	259.4483	-2.437	82978.677	4.5	4D (5D)6F	44446.878	3.5	4P (5D)4D
258.3846	-4.179	21711.917	3.5	D6S (3H)4H	60402.528	2.5	4P (3F)4P	259.4583	-4.994	99688.337	3.5	5S (3F)4F	61156.835	3.5	4P (3H)4H
258.3984	-4.881	105065.630	3.5	5D (5D)6G	66377.283	3.5	4P (3G)4F	259.4749	-2.839	85495.304	2.5	4D (5D)6S	46967.444	2.5	4P (5D)4P
258.4166	-2.195	99573.225	4.5	5S (3F)4F	60887.598	5.5	4P (3H)4H	259.4950	-1.091	99332.102	4.5	5S (3H)2H	60807.230	4.5	4P (3H)4G
258.4255	-2.379	100749.810	2.5	5S (3F)2F	62065.521	3.5	4P (3F)4F	259.4953	-4.404	54870.528	2.5	D6S (3F)2F	93395.368	2.5	4P (3F)4F
258.4882	-2.653	83459.670	1.5	4D (5D)6F	44784.761	2.5	4P (3D)4D	259.4964	-1.047	31999.048	3.5	D7 (5D)2F	70523.706	3.5	4P (3G)2G
258.5397	-1.867	99824.045	2.5	5S (3F)4F	61156.835	3.5	4P (3H)4H	259.5047	-2.694	83308.194	2.5	4D (5D)6F	44784.761	2.5	4P (5D)4D
258.5616	-0.582	33466.463	4.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	259.5109	-4.000	83812.316	2.5	4D (5D)6D	45289.801	1.5	4P (5D)4F
258.5761	-1.278	26170.181	5.5	D6S (3H)2H	64831.943	4.5	4P (3F)2G	259.5278	-1.722	25428.784	5.5	D6S (3G)4G	63948.790	4.5	4P (3F)4G
258.5876	-0.113	0.000	4.5	D6S (5D)6D	38660.043	3.5	4P (3D)6D	259.5303	-2.164	22637.205	4.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H
258.6060	-3.913	23317.633	2.5	D5S2(7S)6S	61974.933	1.5	4SP(7S)6P	259.5350	-4.821	102802.312	2.5	6S (5D)4D	44286.345	1.5	4P (3F)2F
258.6423	-1.889	105063.550	5.5	4D (3F)4G	66411.686	6.5	4P (3G)4H	259.5657	-2.552	83558.540	0.5	4D (5D)6F	45044.168	1.5	4P (5D)4D
258.6777	-1.839	99688.337	3.5	5S (3F)4F	61041.748	2.5	4P (3H)4G	259.6060	-3.313	48039.090	2.5	D7 (5D)2D	86547.490	2.5	4P (1F)2F
258.7170	-4.199	50212.826	2.5	D6S (3P)4P	88853.533	3.5	5P (5D)6D	259.6270	-1.772	100749.810	2.5	5S (3F)2F	62244.520	1.5	4P (3F)4F
258.7364	-3.905	25787.598	1.5	D6S (3F)2P	64425.408	2.5	4P (3F)2F	259.6297	-4.486	48039.090	2.5	D7 (5D)2D	86543.974	1.5	4P (3P)4D
258.7474	-2.269	102584.963	5.5	5S (3G)4G	63948.790	4.5	4P (3F)4G	259.6467	-3.449	57493.321	1.5	D5S2(7S)4P	95995.690	2.5	4SP(5P)4D
258.7642	-4.426	83713.536	3.5	4D (5D)6D	45079.879	2.5	4P (3D)4F	259.6678	-1.759	103608.909	3.5	5S (3G)2G	65109.679	3.5	4P (3G)2G
258.7872	-4.482	105630.750	2.5	5D (5D)4G	72130.390	4.5	4P (1G)2H	259.6935	-2.172	85462.862	3.5	5D (5D)4D	46377.283	3.5	4P (3G)4F
258.7945	0.356	33501.253	3.5	D6S (1G)2G	60700.517	2.5	4P (3F)2D	259.6900	-4.826	104873.230	3.5	5D (3G)4G	66967.444	2.5	4P (5D)4P
258.7997	-4.653	60270.339	3.5	D5S2(7S)4D	98898.710	3.5	4P (1G)2F	259.7096	-2.110	54902.315	1.5	D6S (3P)2P	93395.360	2.5	4P (3F)4F
258.8142	-8.689	13673.185	1.5	D7 (5D)4P	52299.390	2.5	4SP(7S)8P	259.7215	-3.338	99824.045	2.5	5S (3F)4F	61332.764	1.5	4P (3P)4F
258.8193	-1.439	22409.852	0.5	D6S (3P)4P	61035.287	0.5	4P (3P)4P	259.7224	-3.623	104868.500	4.5	5D (5D)6G	66377.283	3.5	4P (3G)4F
258.8275	-1.255	100749.810	2.5	5S (3F)2F	62125.600	1.5	4P (3F)2D	259.7297	-3.570	108804.667	3.5	5S (3D)4D	70314.604	4.5	4P (3G)2G
258.8319	-3.153	54275.637	2.5	D5S2(7S)4G	92899.200	2.5	4P (3F)4D	259.7663	-1.774	104064.670	6.5	4D (3H)4I	65580.041	5.5	4P (3G)4G
258.8334	-2.595	60384.370	0.5	D5S2(7S)4D	99007.700	0.5	4SP(5D)4D	259.7790	-3.087	103155.090	4.5	4D (3F)4G	66672.334	3.5	4P (3G)4H
258.8481	-2.225	82853.658	5.5	4D (5D)6F	44232.512	4.5	4P (5D)4F	259.7907	-3.013	25805.328	4.5	D6S (3G)4G	64286.345	3.5	4P (3F)2F
258.8646	-2.378	105291.010	3.5	4D (3F)4G	66672.334	3.5	4P (3G)4H	259.7945	-1.287	36126.387	1.5	D6S (3D)2D	74606.841	2.5	4P (3D)2D
258.8692	-3.164	104174.270	5.5	4D (3H)4I	65556.280	4.5	4P (3H)2H	259.8032	-1.952	26352.766	4.5	D6S (3H)2H	64831.943	4.5	4P (3F)2G
258.8716	-4.034	105230.290	0.5	5D (5D)4D	66612.656	1.5	4P (3G)4F	259.8095	-1.946	104174.270	5.5	4D (3H)4I	65696.038	4.5	4P (3G)4G
258.8751	-1.542	54870.528	2.5	D6S (3F)2F	93487.650	3.5	4P (3F)4F	259.8345	-2.024	105063.550	5.5	4D (3F)4G	66589.008	4.5	4P (3G)4G
258.8796	-1.767	99573.225	4.5	5S (3F)4F	60956.781	3.5	4P (3H)4G	259.8370	-0.027	384.790	3.5	D6S (5D)6D	38858.958	2.5	4P (5D)6D
258.8998	-1.309	27314.922	3.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	259.8786	-1.754	99093.452	5.5	5S (3H)2H	60625.449	5.5	4P (3H)4G
258.8827	-2.633	105063.550	5.5	4D (3F)4G	66463.528	5.5	4P (3G)4H	259.9093	-3.471	33501.253	3.5	D6S (1G)2G	71964.710	2.5	4P (3D)4P
259.0016	-3.001	99688.337	3.5	5S (3F)2F	62151.561	2.5	4P (3F)4F	259.9396	0.418	0.000	4.5	D6S (5D)6D	38458.981	4.5	4P (5D)6D
259.0240	-2.142	99688.337	3.5	5S (3F)4F	61093.413	2.5	4P (3P)2D	259.9466	-4.380	54870.528	2.5	D6S (3F)2F	93328.480	1.5	4P (3F)4F
259.0360	-4.540	104174.270	5.5	4D (3H)4I	65580.041	5.5	4P (3G)4G	259.9472	-0.746	27620.412	2.5	D6S (3F)2F	66078.269	2.5	4P (3G)4G
259.0551	-1.187	105205.790	2.5	5D (5D)6G	66612.656	1.5	4P (3G)4F	259.9481	-4.238	49506.934	1.5	D6S (3P)4P	87964.650	1.5	4SP(5P)6D
259.0644	-2.645	105589.420	3.5	4D (3F)4H	60402.342	2.5	4P (3F)4P	259.9771	-4.562	60445.275	2.5	D5S2(7S)4D	98988.710	3.5	4P (1G)2F
259.0852	-3.470	99918.569	1.5	5S (3F)4F	61332.764	1.5	4P (3P)4P	260.0069	-3.590	105449.540	3.5	D6S (3G)4G	63706.517	2.5	4P (3G)4F
259.0931	-2.460	57411.065	2.5	D5S2(7S)4P	92647.510	1.5	4SP(3F)4D	260.0170	-2.099	25428.784	5.5	D6S (3G)4G	63876.317	5.5	4P (3F)2D
259.0970	-3.364	54063.459	0.5	D6S (3F)2P	95957.690	2.5	4SP(3F)4D	260.0207	-2.980	57411.065	2.5	D5S2(7S)4P	95858.050	1.5	4SP(5P)4D
259.0988	-2.222	99573.225	4.5	5S (3F)4F	60989.444	4.5	4P (3H)4H	260.0279	-4.739	102394.718	3.5	6S (5D)4D	63948.790	4.5	4P (3F)4G
259.1011	-3.516	54904.222	3.5	D6S (3F)2F	93487.650	3.5	4P (3F)4F	260.0375	-2.077	99332.102	4.5	5S (3H)2H	60887.598	5.5	4P (3H)4H
259.1207	-3.570	104593.270	5.5	5D (5D)6G	66012.750	4.5	4P (3G)4F	260.0424	-1.984	25981.629	3.5	D6S (3G)4G	64425.408	2.5	4P (3F)2F
259.1218	-1.031	54904.222	3.5	D6S (3F)2F	93484.580	4.5	4P (3G)4F	260.0477	-4.409	100492.020	3.5	5S (3F)2F	62049.025	2.5	4SP(7S)6P
259.1543	-0.485	8391.938	2.5	D6S (5D)4D	46967.444	2.5	4P (3D)4P	260.0897	-3.702	73492.215	3.5	D5S2(7S)4F	111929.000	2.5	290DD
259.2137	-2.782	60441.033	1.5	D5S2(7S)4D	99007.700	0.5	4SP(5D)4D	260.1534	-1.278	100749.810	2.5	5S (3F)2F	62322.431	3.5	4P (3H)2G
259.2177	-2.523	105155.090	4.5	4D (3F)4G	66589.008	4.5	4P (3G)4H	260.1544	-0.462	103983.510	3.5	5S (3F)2G	65556.280	4.5	4P (3H)2H
259.2785	0.693	32875.646	6.5	D6S (1I)2I	71432.680	7.5	4P (1I)2K	260.1993	-1.513	100492.020	3.5	5S (3F)2F	62065.521	3.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
260.1616	-3.614	54902.315	1.5	D6S (3P)2P	93328.480	1.5	4P (3F)4F	261.1342	-2.166	22810.357	3.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D
260.2051	-3.019	54275.637	2.5	D5S2(7S)4G	92695.374	2.5	4P (3P)2D	261.1485	-2.980	108804.667	3.5	5S (3D)4D	70523.706	3.5	4P (3G)2G
260.2278	-1.545	99573.225	4.5	5S (3F)4F	61156.835	3.5	4P (3H)4H	261.1580	-3.993	57578.484	0.5	D5S2(7S)4F	98860.050	1.5	48P(5P)4D
260.2338	-2.542	83459.670	1.5	4D (5D)6F	45044.168	1.5	4P (3F)2D	261.1874	0.033	384.790	3.5	D6S (5D)6D	35858.043	3.5	4P (5D)6D
260.2463	-2.663	105414.180	2.5	4D (3F)4G	67000.517	2.5	4P (3P)2D	261.1934	-3.014	57493.321	1.5	D5S2(7S)4F	95767.700	0.5	48P(5P)4D
260.2565	-2.343	54283.220	3.5	D5S2(7S)4G	92695.374	2.5	4P (3P)2D	261.2319	-3.277	83558.540	0.5	4D (5D)6F	45289.801	1.5	4P (5D)4F
260.2785	-0.990	100492.020	3.5	5S (3F)2F	62083.108	4.5	4P (3H)2G	261.2539	-3.237	60270.339	3.5	D5S2(7S)4D	98535.850	3.5	48P(5D)4F
260.2816	-5.884	23317.633	2.5	D5S2(7S)6S	61726.077	3.5	4P (3P)4D	261.2641	-2.751	83308.194	2.5	4D (5D)6F	45044.168	1.5	4P (5D)4F
260.3836	-2.966	22939.358	2.5	D6S (3F)4F	61332.764	1.5	4P (3P)4D	261.2742	-2.577	31387.948	2.5	D6S (3D)4D	69650.484	2.5	4P (3G)2F
260.4053	-0.870	44915.046	3.5	D6S (1F)2F	83305.251	3.5	4P (1F)2G	261.2959	-1.940	54870.528	2.5	D6S (3F)2F	93129.900	3.5	4P (3F)4H
260.4067	-2.184	54063.459	0.5	D6S (3P)2P	92453.460	0.5	4P (3F)4D	261.3197	-1.428	99093.452	5.5	5S (3H)2H	60837.569	6.5	4P (3H)4H
260.4198	-3.879	103751.660	5.5	4D (3H)4H	65363.595	5.5	4P (3H)2H	261.3379	-2.719	83459.670	1.5	4D (5D)6F	45206.450	0.5	4P (5D)4D
260.4354	-2.775	60384.370	0.5	D5S2(7S)4D	98770.140	1.5	48P(5D)4D	261.3510	-2.170	54063.459	0.5	D6S (3P)2F	92314.758	0.5	5P (5D)4F
260.4563	-2.131	83136.487	3.5	4D (5D)6F	44753.799	3.5	4P (5D)4F	261.3572	-3.912	22637.205	4.5	D6S (3F)4F	60887.598	5.5	4P (3H)4H
260.4670	-1.635	27314.922	3.5	D6S (3F)2F	65696.038	4.5	4P (3G)4G	261.3808	-0.920	105763.270	5.5	4D (3F)2H	67516.332	5.5	4P (3G)2H
260.4760	-2.619	83459.670	1.5	4D (5D)6F	45079.879	2.5	4P (5D)4F	261.3825	-0.322	862.613	1.5	D6S (5D)6D	39109.307	0.5	4P (5D)6D
260.4956	-4.838	102802.312	2.5	6S (5D)4D	64425.408	2.5	4P (3F)2F	261.3919	-0.326	103608.909	4.5	5S (3G)2G	65363.595	5.5	4P (3H)2H
260.5037	-0.324	44929.550	2.5	D6S (1F)2F	83305.251	3.5	4P (1F)2G	261.3931	-0.815	261.3931	-0.815				
260.5063	-1.961	99332.102	4.5	5S (3H)2H	60956.781	3.5	4P (3H)4D	261.3931	-0.815	261.3931	-0.815				
260.5297	-2.442	54275.637	2.5	D5S2(7S)4G	92647.510	1.5	4P (3F)4D	261.4498	-1.995	103600.440	6.5	4D (3H)4H	65363.595	5.5	4P (3H)2H
260.5311	-0.047	36126.387	1.5	D6S (3D)2D	74498.057	1.5	4P (3F)4D	261.4586	-1.850	25805.328	4.5	D6S (3G)4G	64040.886	3.5	4P (3F)4G
260.5425	-0.769	26055.423	1.5	D6S (3G)4G	64425.408	2.5	4P (3F)2F	261.4641	-3.600	60270.339	3.5	D5S2(7S)4D	98505.100	2.5	48P(5D)4D
260.5782	-2.693	57493.321	1.5	D5S2(7S)4F	74498.057	1.5	4P (3H)4H	261.4871	-1.473	22810.357	3.5	D6S (3F)2F	74498.057	1.5	4P (3H)2H
260.5902	-1.040	38214.507	1.5	D6S (1D)2D	60956.781	3.5	4P (3H)4D	261.4903	-3.839	26055.423	2.5	D6S (3G)4G	64286.345	3.5	4P (3F)2F
260.6313	-3.538	105630.750	2.5	5D (5D)4G	67273.826	1.5	4P (3F)2D	261.5081	-2.552	83308.194	2.5	4D (5D)6F	45079.879	2.5	4P (5D)4F
260.6415	-4.277	21308.040	1.5	D7 (5D)2D	59663.456	1.5	4P (3F)4D	261.5262	-2.732	54904.222	3.5	D6S (3F)2F	93129.900	3.5	4P (3F)4D
260.6517	-0.185	36252.918	2.5	D6S (3D)2D	74606.841	2.5	4P (3D)2D	261.5317	-4.258	82978.677	4.5	4D (5D)6F	44753.799	3.5	4P (5D)4F
260.6631	-1.870	22637.205	4.5	D6S (3F)4F	60989.444	4.5	4P (3H)4H	261.5746	-2.072	31387.948	2.5	D6S (3D)4D	69606.552	3.5	4P (3G)2F
260.6641	-2.566	83558.540	0.5	4D (5D)6F	45206.450	0.5	4P (5D)4D	261.5823	-1.599	22939.358	2.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H
260.6666	-2.805	83136.487	3.5	4D (5D)6F	44784.761	2.5	4P (5D)4D	261.6619	-2.059	99093.452	5.5	5S (3H)2H	60887.598	5.5	4P (3H)4H
260.7023	-3.322	22810.357	3.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H	261.7024	-4.044	54232.195	5.5	D5S2(7S)4G	92432.136	5.5	48P(5D)6F
260.7088	-0.098	667.683	2.5	D6S (5D)6D	39013.206	1.5	4P (5D)6D	261.7336	-3.648	103751.660	5.5	4D (3H)4H	65556.280	4.5	4P (3H)4H
260.7282	-4.101	99332.102	4.5	5S (3H)2H	60989.444	4.5	4P (3H)4H	261.7377	-1.332	54232.195	5.5	D5S2(7S)4G	92426.980	4.5	48P(5G)4F
260.7432	-1.996	100492.020	3.5	5S (3F)2F	82151.561	2.5	4P (3F)4F	261.7618	-0.507	667.683	2.5	D6S (5D)6D	38858.958	2.5	4P (5D)6D
260.7529	-0.271	85728.806	1.5	4D (5D)4G	47389.779	1.5	4P (5D)4F	261.7759	-3.325	57578.484	0.5	D5S2(7S)4F	95767.700	0.5	48P(5P)4D
260.7606	-4.534	30764.485	3.5	D6S (3G)2G	69102.380	2.5	48P(5S)4F	261.8454	-1.355	22810.357	3.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I
260.7877	-2.864	100492.020	3.5	5S (3F)2F	62158.110	4.5	4P (3F)4F	261.8686	-2.068	99688.337	3.5	5S (3F)4F	61512.634	4.5	4P (3H)4I
260.8204	-2.373	60441.033	1.5	D5S2(7S)4D	98770.140	1.5	48P(5D)4D	261.8716	-0.850	99332.102	4.5	5S (3H)2H	61156.835	3.5	4P (3H)4H
260.8207	-1.768	54273.641	4.5	D5S2(7S)4G	92602.703	3.5	4P (3F)2G	261.8966	-2.440	103751.660	5.5	4D (3H)4H	65580.041	5.5	4P (3G)4G
260.8343	-3.006	54275.637	2.5	D5S2(7S)4G	92602.703	3.5	4P (3F)2G	261.9075	-0.511	22637.205	4.5	D6S (3F)4F	60807.230	4.5	4P (3H)4G
260.8395	-2.637	60270.339	3.5	D5S2(7S)4D	98596.650	4.5	48P(5D)4F	261.9086	-3.132	83459.670	1.5	4D (5D)6F	45289.801	1.5	4P (5D)4F
260.8493	-2.710	60445.275	2.5	D5S2(7S)4D	98770.140	1.5	48P(5D)4D	261.9105	-1.010	100492.020	3.5	5S (3F)2F	62322.431	3.5	4P (3H)2G
260.8797	-4.483	100492.020	3.5	5S (3F)2F	62171.615	3.5	48P(5S)4F	261.9262	-4.778	31483.176	3.5	D6S (3D)4D	69650.484	2.5	4P (3G)2F
260.8853	-1.196	22637.205	4.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G	261.9312	-4.260	104174.270	5.5	4D (3H)4I	66012.342	2.5	4P (3P)4F
260.8859	-2.647	54283.220	3.5	D5S2(7S)4G	92602.703	3.5	4P (3F)2G	261.9621	-2.725	54063.459	0.5	D6S (3P)2P	92225.538	1.5	5P (5D)4P
260.9127	-0.525	31999.048	3.5	D7 (5D)2F	70314.604	4.5	4P (3G)2G	261.9659	-2.152	104174.270	5.5	4D (3H)4I	66012.342	2.5	4P (3P)4F
260.9442	-1.060	27620.412	2.5	D6S (3F)2F	70314.604	4.5	4P (3G)2G	261.9867	-3.482	54273.641	4.5	D5S2(7S)4G	92432.136	5.5	48P(5D)6F
260.9865	-1.039	25981.629	3.5	D6S (3G)4G	64286.345	3.5	4P (3F)2F	262.0172	-1.491	22939.358	2.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D
261.0087	-3.167	23031.300	1.5	D6S (3F)4F	64286.345	3.5	4P (3F)2F	262.0221	-2.169	54273.641	4.5	D5S2(7S)4G	92426.980	4.5	48P(5G)4F
261.0199	-3.471	25787.598	1.5	D6S (3P)2P	61332.764	1.5	4P (3F)4G	262.0254	-0.575	54063.459	0.5	D6S (3P)2P	92216.320	1.5	4P (3P)2D
261.0517	-1.247	54063.459	0.5	D6S (3P)2P	92358.610	1.5	48P(5G)4F	262.0409	-1.800	862.613	1.5	D6S (5D)6D	39013.206	1.5	4P (5D)6D
261.0755	-2.866	73637.340	1.5	D5S2(7S)4F	111929.000	2.5	2900D	262.0696	-0.464	22810.357	3.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G
261.0835	-1.528	105291.010	3.5	4D (3F)4D	67000.517	2.5	4P (3F)2D	262.0879	-4.044	54283.220	3.5	D5S2(7S)4G	92426.980	4.5	48P(5G)4F
261.0874	-2.907	85679.698	2.5	4D (5D)4G	47389.779	1.5	4P (5D)4F	262.0899	-2.647	25805.328	4.5	D6S (3G)4G	63948.790	4.5	4P (3F)4G
261.1041	-1.627	103983.510	3.5	5S (3G)2G	65696.038	4.5	4P (3G)4G	262.1113	-1.576	105414.180	2.5	4D (3F)4D	67273.826	1.5	4P (3F)2D
261.1074	-1.367	8680.454	1.5	D6S (5D)4D	46967.444	2.5	4P (5D)4F	262.1670	-0.931	977.053	0.5	D6S (5D)6D	39109.307	0.5	4P (5D)6D
261.1126	-2.691	99093.452	5.5	5S (3H)2H	60807.230	4.5	4P (3H)4G	262.1894	-4.709	49506.934	1.5	D6S (3P)4F	87635.920	0.5	48P(5P)6D
261.1138	-2.077	31364.440	1.5	D6S (3D)4D	69650.484	2.5	4P (3G)2F	262.2280	-3.342	31483.176	3.5	D6S (3D)4D	69606.552	3.5	4P (3G)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WI(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
262.2444	-1.967	60270.339	3.5	D5S2(7S)4D	98391.330	3.5	4SP(5D)4D	263.1425	-2.246	54283.220	3.5	D5S2(7S)4G	92274.120	2.5	4P(3P)4P
262.3130	-0.858	32875.646	6.5	D6S(11)2K	70986.677	6.5	4P(11)2K	263.1609	-0.015	22637.205	4.5	D6S(3F)4F	60625.449	5.5	4P(3H)4G
262.3313	-4.349	102394.718	3.5	6S(5D)4D	64286.345	3.5	4P(3F)2F	263.1763	-1.943	99373.225	4.5	5S(3F)4F	61587.214	5.5	4P(3H)4I
262.3491	-3.959	25981.629	3.5	D6S(3G)4G	64087.418	2.5	4P(3F)4G	263.1801	-2.559	26055.423	2.5	D6S(3G)4G	64040.886	3.5	4P(3F)4G
262.3509	-3.316	85495.304	2.5	4D(5D)6S	47389.779	1.5	4P(5D)4P	263.2821	-2.109	103983.510	3.5	5S(3G)2G	66012.750	4.5	4P(3G)4F
262.3613	-1.277	99093.452	5.5	5S(3H)2H	60989.444	4.5	4P(3H)4H	263.2822	-4.959	84938.180	1.5	4D(5D)6G	46967.444	2.5	4P(3F)4P
262.3701	-0.813	85728.806	1.5	4D(5D)4S	47626.076	0.5	4P(5D)4P	263.3070	-2.851	25981.629	3.5	D6S(3G)4G	63948.790	4.5	4P(3F)4G
262.3725	-0.706	22939.358	2.5	D6S(3F)4F	61041.748	2.5	4P(3H)4G	263.3203	-0.620	38164.194	2.5	D6S(1D)2D	76129.446	1.5	4P(1S)2P
262.4029	-1.666	99824.045	2.5	5S(3F)4F	61726.077	3.5	4P(3P)4D	263.3410	-1.047	99688.337	3.5	5S(3F)4F	61726.077	3.5	4P(3P)4D
262.4538	-3.205	60445.275	2.5	D5S2(7S)4D	98535.850	3.5	4SP(5D)4F	263.3812	-4.541	105230.290	0.5	5D(5D)4D	61723.826	1.5	4P(3F)2D
262.4969	-3.452	60270.339	3.5	D5S2(7S)4D	98354.660	3.5	4SP(5D)4F	263.3989	-3.518	60284.370	0.5	D5S2(7S)4D	98338.280	1.5	4SP(5P)4S
262.5062	-1.614	54275.637	2.5	D5S2(7S)4G	92358.610	1.5	4SP(5G)4F	263.4268	-4.519	54275.637	2.5	D5S2(7S)4G	92225.538	1.5	5P(5D)4P
262.5187	-1.140	85048.602	1.5	4D(5D)4D	46967.444	2.5	4P(5D)4P	263.4535	-3.400	60445.275	2.5	D5S2(7S)4D	98391.330	3.5	4SP(5D)4F
262.5490	0.615	32909.905	5.5	D6S(11)2I	70986.677	6.5	4P(11)2K	263.4628	-2.411	80346.016	0.5	5S(5D)4D	49240.1302	1.5	4P(5D)6F
262.5668	-0.438	384.790	3.5	D6S(5D)6D	38438.981	4.5	4P(5D)6D	263.4703	-4.215	99918.569	1.5	5S(3F)4F	61974.933	1.5	4SP(7S)6P
262.5889	-1.650	25805.328	4.5	D6S(3G)4G	63876.317	5.5	4P(3F)4G	263.4908	-3.114	54275.637	2.5	D5S2(7S)4G	92216.320	1.5	4P(3P)2D
262.6089	-3.563	54232.195	5.5	D5S2(7S)4G	92300.277	4.5	4SP(5D)6F	263.4989	-2.288	54232.195	5.5	D5S2(7S)4G	92171.716	4.5	4P(3F)2G
262.6294	-4.974	105065.630	3.5	5D(5D)6G	67000.517	2.5	4P(3F)2D	263.5118	-2.238	31364.440	1.5	D6S(3D)4D	69302.090	1.5	4SP(5S)4P
262.6366	-3.133	60441.033	1.5	D5S2(7S)4D	98505.100	2.5	4SP(5D)4D	263.5344	-3.783	54232.195	5.5	D5S2(7S)4G	92166.600	5.5	4SP(5G)4H
262.6472	-2.286	31364.440	1.5	D6S(3D)4D	69426.980	0.5	4SP(5S)4P	263.5397	-3.081	31368.450	0.5	D6S(3D)4D	69302.090	1.5	4SP(5S)4P
262.6501	-1.213	23031.300	1.5	D6S(3F)4F	61093.413	2.5	4P(3P)2D	263.5401	-1.406	26352.766	4.5	D6S(3H)2H	64286.345	3.5	4P(3F)2F
262.6606	-1.611	99573.225	4.5	5S(3F)4F	61512.634	2.5	4P(3H)4I	263.6582	-4.376	50142.786	2.5	D6S(3F)4F	88059.380	2.5	4SP(5P)6D
262.6652	-3.054	100749.810	2.5	5S(3F)2F	62689.880	2.5	4P(3P)4D	263.6697	-1.634	38214.507	1.5	D6S(1D)2D	76129.446	1.5	4P(1S)2P
262.6659	-2.369	60445.275	2.5	D5S2(7S)4D	98505.100	2.5	4SP(5D)4D	263.6732	-1.881	31387.948	2.5	D6S(3D)4D	69302.090	1.5	4SP(5S)4P
262.6698	-1.896	25981.629	3.5	D6S(3G)4G	64040.886	3.5	4P(3F)4G	263.6781	-1.851	60441.033	1.5	D5S2(7S)4D	98354.660	2.5	4SP(5D)4F
262.6748	-2.328	31368.450	0.5	D6S(3D)4D	69426.980	0.5	4SP(5S)4P	263.7083	-2.308	60445.275	2.5	D5S2(7S)4D	98354.660	2.5	4SP(5D)4F
262.6881	-3.414	83136.487	3.5	4D(5D)6F	45079.879	2.5	4P(5D)4F	263.7372	-3.311	103983.510	3.5	5S(3G)2G	66078.269	2.5	4P(3G)4G
262.7044	-2.384	54275.637	2.5	D5S2(7S)4G	92329.890	2.5	4SP(5G)4F	263.7498	-0.489	84870.863	2.5	4D(5D)4D	46967.444	2.5	4P(5D)4P
262.7156	-2.160	103608.909	4.5	5S(3G)2G	65556.280	4.5	4P(3H)2H	263.7549	-0.489	84870.863	2.5	4D(5D)4D	46967.444	2.5	4P(5D)4P
262.7187	-2.712	103983.510	3.5	5S(3G)2G	65931.334	3.5	4P(3G)4G	263.7644	-0.548	26932.748	0.5	D6S(3P)2P	64834.073	1.5	4P(3P)2P
262.7199	-3.244	50157.452	4.5	D6S(3F)4F	88209.450	3.5	4SP(5P)6D	263.7870	-3.586	54273.641	4.5	D5S2(7S)4G	92171.716	4.5	4P(3F)2G
262.7567	-1.618	54283.220	3.5	D5S2(7S)4G	92329.890	2.5	4SP(5G)4F	263.7928	-2.859	60441.033	1.5	D5S2(7S)4D	98338.280	1.5	4SP(5P)4S
262.8294	-0.427	977.053	0.5	D6S(5D)6D	39013.206	1.5	4P(5D)6D	263.8223	-3.625	60445.275	2.5	D5S2(7S)4D	98338.280	1.5	4SP(5P)4S
262.8581	-1.341	26055.423	2.5	D6S(3G)4G	64087.418	2.5	4P(3F)4G	263.8227	-1.715	54273.641	4.5	D5S2(7S)4G	92166.600	5.5	4SP(5G)4H
262.8797	-1.121	103608.909	4.5	5S(3G)2G	65580.041	5.5	4P(3G)4G	263.8520	-4.638	50075.910	1.5	D6S(3F)4F	87964.650	1.5	4SP(5P)6D
262.8811	-3.531	54870.528	2.5	D6S(3F)2F	92899.200	2.5	4P(3F)4D	263.8537	-2.470	54283.220	3.5	D5S2(7S)4G	92171.716	4.5	4P(3F)2G
262.8952	-3.795	54273.641	4.5	D5S2(7S)4G	92300.277	4.5	4SP(5D)6F	263.8810	-2.999	104315.370	6.5	4D(3H)2K	66463.528	5.5	4P(3G)4H
262.9297	-4.543	50187.813	3.5	D6S(3F)4F	88209.450	3.5	4SP(5P)6D	263.9093	-4.196	54273.641	4.5	D5S2(7S)4G	92154.165	3.5	4SP(5D)6F
262.9383	-1.161	103600.440	6.5	4D(3H)4H	65580.041	5.5	4P(3G)4G	263.9565	-0.756	26932.748	0.5	D6S(3P)2P	64806.487	0.5	4P(3P)2P
262.9522	-3.520	83308.194	2.5	4D(5D)6F	45289.801	1.5	4P(5D)4F	263.9717	-3.410	50187.813	3.5	D6S(3F)4F	88059.380	2.5	4SP(5P)6D
262.9548	-1.504	54232.195	5.5	D5S2(7S)4G	60956.781	3.5	4P(3H)4G	263.9760	-4.279	54283.220	3.5	D5S2(7S)4G	92154.165	3.5	4SP(5D)6F
262.9589	-0.197	22939.358	2.5	D6S(3F)4F	60956.781	3.5	4P(3H)4G	263.9858	-3.833	99918.569	1.5	5S(3F)4F	62049.025	2.5	4SP(7S)6P
262.9614	-3.782	54283.220	3.5	D5S2(7S)4G	92300.277	4.5	4SP(5D)6F	264.1092	-1.908	104315.370	6.5	4D(3H)2K	66463.528	5.5	4P(3G)4H
262.9747	-4.540	23317.633	2.5	D5S2(7S)6S	61332.764	1.5	4P(3P)4P	264.1123	-1.593	21812.055	1.5	D6S(3P)4P	59663.456	1.5	4P(3P)4S
263.0071	-0.278	23031.300	1.5	D6S(3F)4F	61041.748	2.5	4P(3H)4G	264.1462	-4.233	50212.826	2.5	D6S(3P)4P	88059.380	2.5	4SP(5P)6D
263.0090	-2.393	54273.641	4.5	5S(3G)4G	64831.943	4.5	4P(3F)2G	264.1699	-2.220	80346.016	0.5	5S(5D)4D	42334.822	2.5	4P(5D)6F
263.0184	-1.596	54273.641	4.5	D5S2(7S)4G	92282.460	3.5	4SP(5G)4F	264.1975	-6.550	23317.633	2.5	D5S2(7S)6S	61156.835	3.5	4P(3H)4H
263.0232	-4.013	105524.461	4.5	4D(3F)4H	67516.332	5.5	4P(3G)2H	264.2012	-0.796	31811.822	2.5	D7(5D)2F	69650.484	2.5	4P(3G)2F
263.0322	-4.510	54275.637	2.5	D5S2(7S)4G	92282.460	3.5	4SP(5G)4F	264.2298	-1.160	54870.528	2.5	D5S2(7S)4G	92166.600	5.5	4SP(5G)4H
263.0519	-3.502	23031.300	1.5	D6S(3F)4F	61035.287	0.5	4P(3P)4P	264.2369	-2.034	60807.430	4.5	4P(3H)4G	92166.600	5.5	4SP(5G)4H
263.0847	-2.219	54283.220	3.5	D5S2(7S)4G	92282.460	3.5	4SP(5G)4F	264.2978	-1.160	54870.528	2.5	D5S2(7S)4G	92166.600	5.5	4SP(5G)4H
263.1010	-2.952	54902.315	1.5	D6S(3P)2P	92899.200	2.5	4P(3F)4D	264.3162	-4.375	50075.910	1.5	D6S(3F)4F	87898.120	0.5	4SP(5G)6F
263.1011	-0.137	22810.357	3.5	D6S(3F)4F	60807.430	4.5	4P(3H)4G	264.3186	-3.829	50142.786	2.5	D6S(3F)4F	87964.650	1.5	4SP(5P)6D
263.1028	-3.423	50212.826	2.5	D6S(3P)4P	88209.450	3.5	4SP(5P)6D	264.3320	-2.114	98445.400	4.5	5S(3H)4H	60625.449	5.5	4P(3H)4G
263.1048	-0.274	862.613	1.5	D6S(5D)6D	38858.958	2.5	4P(5D)6D								
263.1142	-1.571	54904.222	3.5	D6S(3F)2F	92899.200	2.5	4P(3F)4D								
263.1324	-0.277	667.683	2.5	D6S(5D)6D	38660.043	3.5	4P(5D)6D								

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
264.3353	-4.509	99332.102	4.5	5S (3H)2H	265.5042	-2.321	104064.670	6.5	4D (3H)4I	66411.686	6.5	4P (3G)4H
264.3762	-2.152	54275.637	2.5	D5S2(7S)4G	265.5081	-3.268	99824.045	2.5	5S (3F)4F	62171.615	3.5	4SP(7S)6P
264.3901	-4.702	60384.370	0.5	D5S2(7S)4D	265.5151	-3.000	31999.048	3.5	D7 (5D)2F	69650.484	2.5	4P (3G)2F
264.4452	-4.767	54283.220	3.5	D5S2(7S)4G	265.5361	-2.203	79885.493	2.5	5S (5D)4D	42237.033	3.5	4P (3G)6F
264.4565	-1.690	100492.020	3.5	5S (3F)2F	265.5693	0.297	108630.429	5.5	5S (11)2K	70986.677	6.5	4P (11)2K
264.4582	-1.586	27314.922	3.5	D6S (3F)2F	265.5936	-4.919	54275.637	2.5	D5S2(7S)4G	91915.950	1.5	4SP(5D)6F
264.5084	-1.134	31811.822	2.5	D7 (5D)2F	265.6006	-4.347	99698.337	3.5	5S (3F)4F	62049.025	2.5	4SP(7S)6P
264.5201	-0.434	54902.315	1.5	D6S (3P)2F	265.6018	-9.384	23317.633	2.5	D5S2(7S)6S	60956.781	3.5	4P (3H)4G
264.5207	-0.581	99918.569	1.5	5S (3F)4F	265.6045	-1.642	105155.090	4.5	4D (3F)4G	67516.332	5.5	4P (3G)2H
264.5334	-0.021	54904.222	3.5	D6S (3F)2F	265.6087	-0.561	98445.400	4.5	5S (3H)4H	90870.230	4.5	4P (3H)4G
264.5492	-1.626	100749.810	2.5	5S (3F)2F	265.6308	-4.484	57411.065	2.5	D5S2(7S)4P	95046.100	2.5	4P (3F)2F
264.5903	-1.247	85172.809	0.5	4D (5D)4D	265.6795	-3.637	57411.065	2.5	D5S2(7S)4P	95039.200	1.5	4P (3P)2P
264.6212	-2.033	26170.181	5.5	D6S (3H)2H	265.7171	-0.517	99688.337	3.5	5S (3F)4F	62065.521	3.5	4P (3F)4F
264.6326	-2.142	54870.528	2.5	D6S (3F)2F	265.7426	-1.639	31483.176	3.5	D6S (3D)4F	69102.380	2.5	4SP(5S)4P
264.6348	-2.523	80177.975	1.5	5S (5D)4D	265.7848	-2.457	58666.258	3.5	D6S (1G)2G	96279.490	2.5	4SP(3G)2F
264.6464	-3.145	99824.045	2.5	5S (3F)4F	265.7918	-1.437	30388.542	4.5	D6S (3G)2G	68000.788	4.5	4P (3G)2H
264.6639	-2.613	105288.847	6.5	4D (3F)4H	265.7926	-0.724	98568.912	3.5	5S (3H)4H	60956.781	3.5	4P (3G)2H
264.6683	-2.670	25787.598	1.5	D6S (3P)2P	265.8241	-3.832	58631.531	4.5	D6S (1G)2G	96239.200	4.5	4SP(3G)2H
264.7025	-1.051	99918.569	1.5	5S (3F)4F	265.8343	-2.818	103983.510	3.5	5S (3G)2G	66377.283	3.5	4P (3G)4F
264.7336	-3.969	104174.270	5.5	4D (3H)4I	265.8357	-1.253	99332.102	4.5	5S (3H)2H	61726.077	3.5	4P (3P)4D
264.7343	-3.380	105763.270	5.5	4D (3F)2H	265.8414	-3.780	99824.045	2.5	5S (3F)4F	62244.520	1.5	4P (3F)4H
264.7399	-1.431	98568.912	3.5	5S (3H)4H	265.8414	-3.780	99824.045	2.5	5S (3F)4F	62244.520	1.5	4P (3F)4H
264.7620	-1.097	99824.045	2.5	5S (3F)4F	265.8703	-0.939	104064.670	6.5	4D (3H)4I	66463.528	5.5	4P (3G)4H
264.7870	-4.304	60441.033	1.5	D5S2(7S)4G	265.9055	-1.671	103608.909	4.5	5S (3G)2G	66012.750	4.5	4P (3G)4F
264.8006	-2.419	102584.963	5.5	5S (3G)4G	265.9065	-2.477	26352.766	4.5	D6S (3H)2H	63948.790	4.5	4P (3F)4G
264.8146	-3.444	38164.194	2.5	D6S (1D)2D	265.9350	-3.108	22810.357	3.5	D6S (3F)4F	60402.342	2.5	4P (3P)4P
264.8167	-4.316	60445.275	2.5	D5S2(7S)4D	265.9588	-3.877	105589.420	3.5	4D (3F)4H	68000.788	4.5	4P (3G)2H
264.8555	-2.228	54902.315	1.5	D6S (3P)2P	265.9782	-0.959	58631.531	4.5	D6S (1G)2G	96217.420	3.5	4SP(5P)4D
264.8577	-1.357	99332.102	4.5	5S (3H)2H	266.0141	-0.914	99093.452	5.5	5S (3H)2H	61512.634	4.5	4P (3H)4I
264.8692	-2.338	84710.685	3.5	4D (5D)6G	266.0232	-0.828	99824.045	2.5	5S (3F)4F	62244.520	1.5	4P (3F)4H
264.8703	-4.757	54275.637	2.5	D5S2(7S)4G	266.0236	-0.474	98568.912	3.5	5S (3H)4H	60989.444	4.5	4P (3H)4H
264.8996	-2.431	103751.660	5.5	4D (3H)4H	266.0698	-2.544	85666.258	3.5	D6S (1G)2G	96239.200	4.5	4SP(3G)2H
264.9049	-2.574	80177.975	1.5	5S (5D)4D	266.1202	-1.468	99093.452	5.5	5S (3H)2H	61527.616	6.5	4P (3H)4I
264.9064	-3.388	31364.440	1.5	D6S (3D)4D	266.1771	-0.292	98445.400	4.5	5S (3H)4H	61527.616	6.5	4P (3H)4I
264.9235	-4.599	54283.220	3.5	D5S2(7S)4G	266.2243	-2.468	54902.315	1.5	D6S (3F)4P	90453.460	0.5	4P (3F)4D
264.9451	-2.580	102842.119	4.5	5S (3G)4G	266.2276	-2.336	79885.493	2.5	5S (5D)4D	42334.822	2.5	4P (5D)6F
264.9469	0.061	54870.528	2.5	D6S (3F)2F	266.2437	-4.367	84938.180	1.5	4D (5D)6G	47389.779	1.5	4P (5D)4P
264.9943	-1.960	58631.531	4.5	D6S (1G)2G	266.2521	-2.398	105063.550	5.5	4D (3F)4G	67516.332	5.5	4P (3G)2H
265.0035	-6.725	23317.633	2.5	D5S2(7S)6S	266.2538	-1.268	100492.020	3.5	5S (3F)2F	62945.038	3.5	4P (3F)4D
265.0482	0.037	84685.198	3.5	4D (5D)4D	266.2556	-0.645	85172.809	0.5	4D (5D)4D	47626.076	0.5	4P (5D)4P
265.0716	-2.351	31387.948	2.5	D6S (3D)4D	266.3262	-0.578	99698.337	3.5	5S (3F)4F	62151.561	2.5	4P (3F)4F
265.0975	-2.379	104174.270	5.5	4D (3H)4I	266.3727	-0.916	99698.337	3.5	5S (3F)4F	62158.110	4.5	4P (3F)4F
265.1166	-3.002	104119.710	7.5	4D (3H)2K	266.3944	-0.429	98568.912	3.5	5S (3H)4H	61041.748	2.5	4P (3H)4G
265.1299	-1.984	26170.181	5.5	D6S (3H)2H	266.4192	-3.214	105524.461	4.5	4D (3F)4H	68000.788	4.5	4P (3G)2H
265.1681	-1.437	38214.507	1.5	D6S (1D)2D	266.4201	-1.605	24392.766	4.5	D6S (3F)2H	68876.317	5.5	4P (3F)4G
265.1837	-1.313	54904.222	3.5	D6S (1G)2G	266.4257	-0.491	54904.222	3.5	D6S (3F)2F	92426.980	4.5	4SP(5G)4F
265.1840	-1.928	99824.045	2.5	5S (3F)4F	266.4664	0.350	27314.922	3.5	D6S (3F)2F	64831.943	4.5	4P (3F)2G
265.2385	-3.498	58666.258	3.5	D6S (1G)2G	266.4686	-1.250	99698.337	3.5	5S (3F)4F	62171.615	3.5	4SP(7S)6P
265.2566	-1.276	62352.766	4.5	D6S (3H)2H	266.5430	-2.505	99093.452	5.5	5S (3H)2H	61587.214	5.5	4P (3H)4I
265.3309	-1.996	103608.909	4.5	5S (3G)2G	266.5541	0.026	98130.131	6.5	5S (3F)4G	60625.449	3.5	4P (3H)4G
265.3313	-3.154	25787.598	1.5	D6S (3P)2P	266.5759	-1.892	99824.045	2.5	5S (3F)4F	62322.431	3.5	4P (3H)2G
265.3557	-0.473	99918.569	1.5	5S (3F)4F	266.6577	-1.343	99573.225	4.5	5S (3F)4F	62083.108	4.5	4P (3H)2G
265.3667	-0.411	99824.045	2.5	5S (3F)4F	266.6637	0.245	27620.412	2.5	D6S (3F)2G	65109.679	3.5	4P (3F)2G
265.3916	-1.197	98294.401	5.5	5S (3H)4H	266.6683	-0.396	98445.400	4.5	5S (3H)4H	60956.781	3.5	4P (3H)4G
265.3943	-4.004	57411.065	2.5	D5S2(7S)4P	266.6721	-1.149	54870.528	2.5	D6S (3F)2F	92358.160	1.5	4SP(5G)4F
265.4405	-1.164	108648.695	6.5	5S (11)2I	266.6786	-0.271	98294.401	5.5	5S (3H)4H	60807.230	4.5	4P (3H)4G
265.4630	-0.563	85048.602	1.5	4D (5D)4D								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
266.6914	-2.391	25787.598	1.5	D6S (3F)2P	63272.976	2.5	4P (3F)4D	268.0917	-3.484	57411.065	2.5	D5S2(7S)4P	94700.660	2.5	4P (3F)2D
266.6998	-2.532	79885.493	2.5	5S (5D)4D	42401.302	1.5	4P (5D)6F	268.0991	-0.664	984445.400	4.5	5S (3H)4H	61156.835	3.5	4P (3H)4H
266.7219	-0.287	84870.863	2.5	4D (5D)4D	47389.779	1.5	4P (5D)4P	268.1022	-2.304	103751.660	5.5	4D (3H)4H	66463.528	5.5	4P (3G)4H
266.7402	-1.508	102842.119	4.5	5S (3G)4G	65363.595	5.5	4P (3H)2H	268.1043	-0.601	49100.976	0.5	D6S (3P)4P	86388.820	0.5	4P (3P)4D
266.7522	-1.432	100749.810	2.5	5S (3F)2F	63272.976	2.5	4P (3F)4D	268.1187	-2.754	102842.119	4.5	5S (3G)4G	65556.280	4.5	4P (3H)2H
266.7617	-1.455	98568.912	3.5	5S (3H)4H	61093.413	2.5	4P (3F)2D	268.1269	-2.439	100749.810	2.5	5S (3F)2F	63465.109	1.5	4P (3F)4D
266.8247	-0.842	103878.340	7.5	4D (3H)4I	66411.686	6.5	4P (3G)4H	268.1323	-4.212	50187.813	3.5	D6S (3F)4F	87471.765	3.5	4SP(5G)6F
266.8508	-3.443	22939.358	2.5	D6S (3F)4F	60402.342	2.5	4P (3G)4P	268.1345	-2.995	54870.528	2.5	D6S (3F)2F	92154.165	3.5	4SP(5D)6F
266.8635	-1.910	103983.510	3.5	5S (3G)2G	66522.304	2.5	4P (3F)4F	268.2037	-2.191	57411.065	2.5	D5S2(7S)4P	94685.090	2.5	4SP(5D)6F
266.8766	-2.147	54870.528	2.5	D6S (3F)2F	92329.890	2.5	4SP(5G)4F	268.2274	-3.622	37227.326	0.5	D6S (1S)2S	74498.057	1.5	4P (3D)2D
266.8940	-2.066	84424.370	1.5	4D (5D)6P	46967.444	2.5	4P (5D)4P	268.2507	0.302	54904.222	3.5	D6S (3F)2F	92171.716	4.5	4P (3F)2G
266.8946	-0.182	98294.401	5.5	5S (3H)4H	60837.569	6.5	4P (3H)4P	268.2573	-0.604	99332.102	4.5	5S (3H)2H	62065.521	3.5	4P (3F)4F
266.8985	-2.099	54902.315	1.5	D6S (3F)2P	92358.610	1.5	4SP(5G)4F	268.2573	-0.604	102842.119	4.5	5S (3G)4G	65580.041	5.5	4P (3G)4G
266.9009	-0.186	98445.400	4.5	5S (3H)4H	60989.444	4.5	4P (3H)4H	268.3000	-0.321	49506.934	1.5	D6S (3P)4P	86767.577	2.5	4P (3P)4D
266.9933	-0.619	49100.976	0.5	D6S (3F)4P	86543.974	1.5	4P (3P)4D	268.3507	-4.054	22409.852	0.5	D6S (3P)4P	95663.456	1.5	4P (3P)4S
267.0379	-1.720	38164.194	2.5	D6S (1D)2D	75600.931	3.5	5P (3F)2F	268.3709	-0.649	99573.225	4.5	5S (3F)4F	62322.431	3.5	4P (3H)2G
267.0822	-2.869	58631.531	4.5	D6S (1G)2G	96062.060	5.5	4SP(3G)2H	268.3771	-4.420	54904.222	3.5	D6S (3F)2F	92154.165	3.5	4SP(5D)6F
267.0885	-4.877	50142.786	2.5	D6S (3F)4F	87572.431	2.5	4SP(5G)6F	268.3839	-0.952	99332.102	4.5	5S (3H)2H	62038.108	4.5	4P (3H)2G
267.1033	-1.352	54902.315	1.5	D6S (3F)2P	92329.890	2.5	4SP(5G)4F	268.4066	-2.628	57493.321	1.5	D5S2(7S)4P	94739.170	1.5	4SP(5P)4P
267.1169	-0.653	85048.602	1.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F	268.4303	-1.003	98130.131	6.5	5S (3H)4H	60887.598	5.5	4P (3H)4H
267.1393	-0.653	85048.602	1.5	4D (5D)4D	47626.076	0.5	4P (5D)4P	268.4754	0.257	30764.484	3.5	D6S (3G)2G	68000.788	4.5	4P (3G)2H
267.1922	-0.126	99573.225	4.5	5S (3F)4F	62158.110	4.5	4P (3F)4F	268.4959	-2.197	25428.784	5.5	D6S (3G)4G	62662.244	5.5	4P (3H)2I
267.2113	-1.986	54902.315	1.5	D6S (3F)2P	92314.758	0.5	5P (5D)4P	268.5091	-1.320	103608.909	4.5	5S (3G)2G	66377.283	3.5	4P (3P)4D
267.2139	-0.210	98568.912	3.5	5S (3H)4H	61156.835	3.5	4P (3H)4H	268.5303	-3.072	99918.569	1.5	5S (3F)4F	62689.880	2.5	4P (3P)4D
267.2150	-0.067	54870.528	2.5	D6S (3F)2F	92282.460	3.5	4SP(5G)4F	268.5405	-2.406	79885.493	2.5	5S (3D)4D	42658.224	3.5	4P (5D)6F
267.2210	-2.576	26055.423	2.5	D6S (3G)4G	63465.109	1.5	4P (3F)4D	268.5831	-0.172	102584.963	5.5	5S (3G)4G	65363.595	5.5	4P (3H)2H
267.2516	0.010	98294.401	5.5	5S (3H)4H	60887.598	5.5	4P (3H)4H	268.5999	-2.329	100492.020	3.5	5S (3F)2F	63272.976	2.5	4P (3F)4D
267.2666	-3.922	32909.905	5.5	D6S (1I)2I	70314.604	4.5	4P (3G)2G	268.6021	-2.065	54870.528	2.5	D6S (3F)2F	92089.260	3.5	4SP(5G)4H
267.2746	-4.032	54870.528	2.5	D6S (3F)2F	92274.120	2.5	4P (3P)4P	268.6107	-1.875	26805.423	2.5	D6S (3G)4G	63272.976	2.5	4P (3F)4D
267.2847	-3.845	99573.225	4.5	5S (3F)4F	62171.615	3.5	4SP(7S)6P	268.6218	0.365	108648.695	6.5	5S (1I)2I	71432.680	7.5	4P (1I)2K
267.3141	-2.546	105398.852	5.5	4D (3F)4H	68000.788	4.5	4P (3G)2H	268.6388	-2.038	27620.412	2.5	D6S (3F)2F	64834.073	1.5	4P (3P)2P
267.3369	-4.896	50142.786	2.5	D6S (3F)4F	87537.652	3.5	4SP(5G)6F	268.6467	-3.496	57493.321	1.5	D5S2(7S)4P	94700.660	2.5	4P (3P)2D
267.3902	-2.378	57493.321	1.5	D5S2(7S)4P	94880.740	0.5	4SP(5P)4P	268.6844	-0.711	54904.222	3.5	D6S (3F)2F	92116.780	4.5	4P (3H)2D
267.4559	-1.633	54904.222	3.5	D6S (3F)2F	92282.460	3.5	4SP(5G)4F	268.7198	-2.203	79439.467	3.5	5S (5D)4D	42237.033	3.5	4P (5D)6F
267.5019	-1.698	54902.315	1.5	D6S (3P)2P	92274.120	2.5	4P (3P)4P	268.7969	-2.515	57493.321	1.5	D5S2(7S)4P	946815.090	2.5	4SP(5D)6P
267.5074	-3.822	23031.300	1.5	D6S (3P)4P	60402.342	2.5	4P (3P)4P	268.8187	-0.535	103600.440	6.5	4D (3H)4H	66411.686	6.5	4P (3G)4H
267.5156	-3.577	54904.222	3.5	D6S (3F)4F	92274.120	2.5	4P (3P)4P	268.8957	-3.531	54904.222	3.5	D6S (3F)2F	92089.260	3.5	4SP(5G)4H
267.5441	-0.786	99688.337	3.5	5S (3F)4F	62322.431	3.5	4P (3H)2G	268.8564	-3.762	50157.452	4.5	D6S (3F)4F	87340.983	5.5	4SP(5G)6F
267.5902	-2.086	84326.912	2.5	4D (5D)6P	46967.444	2.5	4P (5D)4P	268.8564	-3.762	269.0232	4.5	D6S (3P)2P	62962.205	1.5	4P (3P)4D
267.6222	-3.731	54870.528	2.5	D6S (3F)2F	92225.538	1.5	5P (5D)4P	268.9254	-0.622	99332.102	4.5	5S (3H)2H	62158.110	4.5	4P (3F)4F
267.6592	-4.422	50187.813	3.5	D6S (3F)4F	66411.686	6.5	4P (3G)4H	269.0232	-4.860	25787.598	1.5	D6S (3P)2P	62962.205	1.5	4P (3P)4D
267.6882	-0.225	54870.528	2.5	D6S (3F)2F	92216.320	1.5	4P (3P)2D	269.0680	-2.804	105154.090	4.5	4D (3F)4G	68000.788	4.5	4P (3G)2H
267.7300	-0.538	103751.660	5.5	4D (3H)4H	66411.686	6.5	4P (3G)4H	269.1275	-0.401	102842.119	4.5	5S (3G)4G	65696.038	4.5	4P (3G)4G
267.8056	-4.708	58666.258	3.5	D6S (1G)2G	95995.690	2.5	4SP(5P)4P	269.1326	-1.910	103608.909	4.5	5S (3G)2G	66463.528	5.5	4P (3G)4H
267.8151	-2.646	57411.065	2.5	D5S2(7S)4P	94739.170	1.5	4SP(5P)4P	269.1737	-1.534	23600.328	4.5	D6S (3G)4G	62945.038	3.5	4P (3F)4D
267.8399	-2.539	79439.467	3.5	5S (5D)4D	42114.818	4.5	4P (5D)4P	269.1940	-3.112	103608.909	4.5	5S (3G)4G	66463.528	5.5	4P (3G)4H
267.8501	-2.619	54902.315	1.5	D6S (3P)2P	92225.538	1.5	5P (5D)4P	269.1985	-4.892	54063.459	0.5	D6S (3P)2P	91199.746	0.5	5P (5D)4D
267.9141	-4.424	50157.452	4.5	D6S (3F)4F	87471.765	4.5	4SP(5G)6F	269.2139	-2.035	99824.042	2.5	5S (3F)4F	62689.880	2.5	4P (3P)4D
267.9163	-1.637	54902.315	1.5	D6S (3P)2P	92216.320	1.5	4P (3P)2D	269.2601	0.285	30388.542	4.5	D6S (3G)2G	67516.332	5.5	4P (3G)2H
267.9299	-4.287	84938.180	1.5	4D (5D)6G	47626.076	0.5	4P (5D)4P	269.2834	-4.297	7955.299	3.5	D6S (5D)4D	45079.879	2.5	4P (5D)4F
267.9366	-2.694	103983.510	3.5	5S (3G)2G	66672.334	3.5	4P (3G)4H	269.2834	-4.297	27314.922	3.5	D6S (3F)2F	64423.482	2.5	4P (3F)2F
267.9813	-0.531	98294.401	5.5	5S (3H)4H	60989.444	4.5	4P (3H)4H	269.3857	-1.707	79439.467	3.5	5S (5D)4D	42334.822	2.5	4P (3D)6F
268.0007	-2.877	57578.484	0.5	D5S2(7S)4P	94880.740	0.5	4SP(5P)4P	269.4281	-2.799	99918.569	1.5	5S (3F)4F	62829.075	0.5	4P (3P)4D
268.0233	-0.930	84266.556	3.5	4D (5D)6P	46967.444	2.5	4P (5D)4P	269.5381	-2.327	23317.633	2.5	D5S2(7S)6S	60402.342	2.5	4P (3P)4P
268.0704	0.090	98130.131	6.5	5S (3H)4H	60837.569	6.5	4P (3H)4H	269.5729	-4.948	105063.550	5.5	4D (3F)4G	68000.788	4.5	4P (3G)2H
268.0791	-2.278	25981.629	3.5	D6S (3G)4G	63272.976	2.5	4P (3F)4D	269.7326	-1.033	36126.387	1.5	D6S (3D)2D	73189.110	1.5	4P (3G)2P
268.0872	-1.867	105291.010	3.5	4D (3F)4G	68000.788	4.5	4P (3G)2H	269.7462	-0.495	36126.387	1.5	D6S (3D)2D	73187.280	0.5	4P (3D)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
269.7727	-1.216	33466.463	4.5	D6S (1G)2G	70523.706	3.5	4P (3G)2G	271.6697	-1.317	7555.299	3.5	D6S (5D)4D	44753.799	3.5	4P (5D)4F
269.7998	-0.006	98568.912	3.5	5S (3H)4H	61512.634	4.5	4P (3H)4I	271.6712	-3.036	84424.370	1.5	4D (5D)6F	47626.076	0.5	4P (5D)4F
269.8876	-3.187	25787.598	1.5	D6S (3P)2P	62829.075	0.5	4P (3P)4D	271.6962	-3.231	54275.637	2.5	D5S2(7S)4G	91070.547	2.5	5P (5D)4F
269.8943	-1.188	49506.934	1.5	D6S (3P)4P	86547.490	2.5	4P (1F)2F	271.7511	-3.744	1872.567	4.5	D7 (5D)4F	38660.043	3.5	4P (5D)6D
269.8974	-4.654	103118.400	1.5	6S (5D)4D	66078.269	2.5	4P (3G)4G	271.7522	-2.259	54283.220	3.5	D5S2(7S)4G	91070.547	2.5	5P (5D)4F
269.9199	-0.539	49506.934	1.5	D6S (3P)4P	86543.974	1.5	4P (3P)4D	271.7522	-2.047	50142.786	2.5	D6S (3F)4F	86929.649	3.5	4P (3P)4D
269.9377	-1.926	84424.370	1.5	4D (5D)6F	47389.779	1.5	4P (5D)4P	271.7556	0.361	98130.131	6.5	5S (3H)4H	61347.614	7.5	4P (3H)4I
269.9808	-2.136	102584.963	5.5	5S (3G)4G	65556.280	4.5	4P (3H)2H	271.7933	-1.486	98294.401	5.5	5S (3H)4H	61512.634	4.5	4P (3H)4I
270.0250	-2.238	83990.063	1.5	4D (5D)6D	46967.444	2.5	4P (5D)4P	271.7933	-1.538	79439.467	3.5	5S (5D)6F	42658.224	3.5	4P (5D)6F
270.0263	-2.176	33501.253	3.5	D6S (1G)2G	70523.706	3.5	4P (3G)2G	271.8358	-2.351	54063.459	0.5	D6S (3P)2P	90839.480	0.5	4P (3P)4P
270.0449	-2.393	103608.909	4.5	5S (3G)2G	66589.008	4.5	4P (3G)4H	271.8609	-2.684	54275.637	2.5	D5S2(7S)4G	91048.256	1.5	5P (5D)4D
270.1146	-0.135	99093.452	5.5	5S (3H)2H	62083.108	4.5	4P (3H)2G	271.8618	-1.963	50157.452	4.5	D6S (3F)4F	86929.649	3.5	4P (3P)4D
270.1195	-0.596	99332.102	4.5	5S (3H)2H	62322.431	3.5	4P (3H)2G	271.8640	0.044	50157.452	4.5	D6S (3F)4F	86929.649	3.5	4P (3P)4D
270.1542	-0.094	102584.963	5.5	5S (3G)4G	65580.041	5.5	4P (3G)4G	271.9041	0.106	98294.401	5.5	5S (3H)4H	61527.616	6.5	4P (3H)4I
270.2014	-3.419	99688.337	3.5	5S (3F)4F	62689.880	2.5	4P (3P)4D	271.9304	-0.851	36252.918	2.5	D6S (3D)2D	73016.147	3.5	4P (1G)2F
270.3144	-3.723	103983.510	3.5	5S (3G)2G	67000.517	2.5	4P (3P)2D	272.0572	-2.656	83713.536	3.5	4D (5D)6D	46967.444	2.5	4P (5D)4F
270.3990	-0.029	27314.922	3.5	D6S (3F)2F	64286.345	3.5	4P (3F)2F	272.0779	-0.580	99688.337	3.5	5S (3F)4F	62945.038	3.5	4P (3F)4D
270.4576	-1.816	25981.629	3.5	D6S (3G)4G	62945.038	3.5	4P (3F)4D	272.0887	-0.974	50187.813	3.5	D6S (3F)4F	86929.649	3.5	4P (3P)4D
270.5092	-3.152	99918.569	1.5	5S (3F)4F	62962.205	1.5	4P (3P)4D	272.0891	-2.789	84131.563	0.5	4D (5D)6D	47389.779	1.5	4P (5D)4P
270.5674	-4.761	54902.315	1.5	D6S (3P)2P	91850.722	0.5	4SP(5D)6F	272.1814	-0.928	25428.784	5.5	D6S (3G)4G	62158.110	4.5	4P (3F)4F
270.6151	-4.833	60384.370	0.5	D5S2(7S)4D	97326.270	1.5	4SP(3P)2P	272.2063	-0.534	27314.922	3.5	D6S (3F)2F	64040.886	3.5	4P (3F)4G
270.6335	-2.555	80177.975	1.5	5S (5D)4D	43238.586	2.5	4P (5D)6P	272.2130	-3.163	80346.016	0.5	5S (5D)4D	43620.957	1.5	4P (5D)6P
270.6500	-1.994	84326.912	2.5	4D (5D)6P	47389.779	1.5	4P (5D)4P	272.2201	-3.849	22939.358	2.5	D6S (3F)4F	59663.456	1.5	4P (3P)4S
270.6541	-3.488	103608.909	4.5	5S (3G)2G	66672.334	3.5	4P (3G)4H	272.2555	-2.532	98445.400	4.5	5S (3H)4H	61726.077	3.5	4P (3P)4D
270.6569	-0.208	36252.918	2.5	D6S (3H)2H	73189.110	1.5	4P (3D)2P	272.2622	-2.097	57493.321	1.5	D5S2(7S)4F	94211.739	2.5	4SP(5P)4P
270.6631	-1.079	99093.452	5.5	5S (3H)2H	62158.110	4.5	4P (3P)4F	272.2741	-0.102	50212.826	2.5	D6S (3P)4D	86929.649	3.5	4P (3P)4D
270.6785	-2.241	54275.637	2.5	D5S2(7S)4G	91208.887	1.5	5P (5D)4F	272.3327	-2.624	100749.810	2.5	5S (3F)2F	64040.886	3.5	4P (3F)4G
270.6820	-0.765	98445.400	4.5	5S (3H)4H	61512.634	4.5	4P (3H)4I	272.3377	-2.976	35981.629	3.5	D6S (3G)4G	62689.880	2.5	4P (3P)4D
270.7133	-0.405	36126.387	1.5	5S (3F)4F	73054.881	2.5	4P (1G)2F	272.3455	-0.455	98294.401	5.5	5S (3H)4H	61587.214	5.5	4P (3H)4I
270.8418	-0.396	99573.225	4.5	5S (3F)4F	62662.244	5.5	4P (3H)2I	272.4087	-3.495	102394.718	1.5	6S (5D)4D	65696.038	4.5	4P (3G)4G
270.8432	-0.390	102842.119	4.5	5S (3G)4G	65931.334	3.5	4P (3G)4G	272.4608	-2.059	50075.910	1.5	D6S (3F)4F	86767.577	2.5	4P (3P)4D
270.8726	-2.630	26055.423	2.5	D6S (3G)4G	62962.205	1.5	4P (3P)4D	272.4884	-0.749	8391.938	2.5	D6S (5D)4D	43238.586	2.5	4P (5D)4F
270.9056	-0.574	25787.598	1.5	D6S (3P)2P	62689.880	2.5	4P (3P)4D	272.5097	-1.936	47674.721	1.5	D7 (5D)4F	84509.800	1.5	4P (1F)2D
270.9381	-2.589	8391.938	2.5	D6S (5D)4D	45289.801	1.5	4P (5D)4F	272.6228	0.084	99332.102	4.5	5S (3H)2H	62662.244	5.5	4P (3H)2I
270.9931	-2.242	36252.918	2.5	D6S (3D)2D	73143.288	3.5	4P (1G)2G	272.6520	-1.444	27620.412	2.5	D6S (3F)2F	64286.345	3.5	4P (3F)2F
270.9987	-2.797	26055.423	2.5	D6S (3G)4G	62945.038	3.5	4P (3F)4D	272.6783	-0.648	100749.810	2.5	5S (3F)2F	64807.418	2.5	4P (3F)4G
271.0037	-0.099	102584.963	5.5	5S (3G)4G	65696.038	4.5	4P (3G)4G	272.6799	-4.969	57411.065	2.5	D5S2(7S)4F	94073.240	3.5	4SP(5G)4G
271.0308	-4.703	60441.033	1.5	D5S2(7S)4D	97326.270	1.5	4SP(3P)2P	272.7383	-0.832	25428.784	5.5	D6S (3G)4G	62083.108	4.5	4P (3G)2G
271.0555	-1.315	49506.934	1.5	D6S (3P)4P	86388.820	0.5	4P (3P)4D	272.7479	-3.713	103265.694	0.5	6S (5D)4D	66612.656	1.5	4P (3G)4F
271.0620	-3.110	60445.275	2.5	D5S2(7S)4D	97326.270	1.5	4SP(3P)2P	272.7539	-0.366	8391.938	2.5	D6S (5D)4D	45044.168	1.5	4P (5D)4D
271.0766	-1.437	99824.045	2.5	5S (3F)4F	62945.038	3.5	4P (3F)4D	272.7936	-1.951	79885.493	2.5	5S (5D)4D	43238.586	2.5	4P (5D)6P
271.1356	-4.098	102802.312	2.5	6S (5D)4D	65931.334	3.5	4P (3G)4G	272.8033	-1.635	99918.569	1.5	5S (3F)4F	63272.976	2.5	4P (3F)4D
271.1842	-0.335	25428.784	5.5	D6S (3G)4G	62293.164	6.5	4P (3H)2I	272.8863	-4.296	26055.423	2.5	D6S (3G)4G	62689.880	2.5	4P (3P)4D
271.2029	-2.588	99824.045	2.5	5S (3F)4F	62962.205	1.5	4P (3P)4D	272.8907	-0.869	27314.922	3.5	D6S (3F)2F	63948.790	4.5	4P (3F)4G
271.2298	0.060	98445.400	4.5	5S (3H)4H	61587.214	5.5	4P (3H)4I	272.9034	-4.379	23031.300	1.5	D6S (3F)4F	59663.456	1.5	4P (3P)4S
271.2391	-0.997	25805.328	4.5	D6S (3G)4G	62662.244	5.5	4P (3H)2I	272.9330	-0.241	99573.225	4.5	5S (3F)4F	62945.038	3.5	4P (3F)4D
271.3037	-1.911	33466.463	4.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	272.9438	-2.532	26932.748	0.5	D6S (3F)2P	63559.488	0.5	4P (3F)4D
271.3278	-3.169	83812.316	2.5	4D (5D)6D	46967.444	2.5	4P (5D)4P	272.9531	-4.071	54275.637	2.5	D5S2(7S)4G	90901.124	2.5	5P (5D)4P
271.3428	-1.730	98568.912	3.5	5S (3H)4H	61726.077	3.5	4P (3P)4D	272.9598	-0.925	50142.786	2.5	D6S (3F)4F	86767.577	2.5	4P (3P)4D
271.3640	-0.135	108804.667	3.5	5S (3D)4D	71964.710	2.5	4P (3D)4P	272.9699	-4.455	54275.637	2.5	D5S2(7S)4G	90898.873	1.5	4P (3P)4D
271.4413	-0.416	7995.299	3.5	D6S (5D)4D	44784.761	2.5	4P (5D)4D	273.0096	-3.088	54283.220	3.5	D5S2(7S)4G	90901.124	2.5	5P (5D)4P
271.4420	-0.113	102842.119	4.5	5S (3G)4G	66012.750	4.5	4P (3G)4F	273.0734	-0.687	8680.454	1.5	D6S (5D)4D	45289.801	1.5	4P (5D)4F
271.5601	-1.719	33501.253	3.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	273.1244	-0.266	98130.131	6.5	5S (3H)4H	61527.616	6.5	4P (3H)4I
271.6218	-0.259	27620.412	2.5	D6S (3F)2F	64425.408	2.5	4P (3G)2F	273.1411	-4.221	83990.063	1.5	4D (5D)6D	47389.779	1.5	4P (5D)4P
271.6441	-1.748	36252.918	2.5	D6S (3D)2D	73054.881	2.5	4P (1G)2F	273.1723	-3.572	103118.400	1.5	6S (5D)4D	66522.304	2.5	4P (3G)4F
271.6537	-1.950	57411.065	2.5	D5S2(7S)4P	94211.739	2.5	4SP(3H)4P	273.2009	-1.114	26352.766	4.5	D6S (3H)2H	62945.038	3.5	4P (3F)4D
271.6565	0.281	99093.452	5.5	5S (3H)2H	62293.164	6.5	4P (3H)2I	273.2046	-3.353	1872.567	4.5	D7 (5D)4F	38458.981	4.5	4P (5D)6D
271.6657	-1.299	104315.370	6.5	4D (3H)2K	67516.332	5.5	4P (3G)2H	273.2943	-0.181	50187.813	3.5	D6S (3F)4F	86767.577	2.5	4P (3P)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
273.3142	-4.980	57411.065	2.5	D582(7S)4P	93988.170	2.5	4SP(5G)4G	274.6351	-0.351	50142.786	2.5	D6S	86543.974	1.5	4P(3P)4D	
273.3195	-3.965	57411.065	2.5	D582(7S)4P	93987.457	3.5	4SP(5D)6D	274.6484	0.157	8680.454	1.5	D6S	45079.879	2.5	4P(5D)4F	
273.3507	-0.412	102584.963	5.5	5S(3G)4G	66012.750	4.5	4P(3G)4F	274.6519	-0.685	36252.918	2.5	D6S	72651.876	3.5	4P(3D)4D	
273.3939	-3.069	54063.459	0.5	D6S(3P)2P	90629.902	1.5	4P(3G)4F	274.6578	-2.245	36126.387	1.5	D6S	72524.566	1.5	4P(3D)4D	
273.3960	-1.908	108804.667	3.5	5S(3D)4D	72238.513	2.5	4P(3D)4F	274.6644	-4.499	98568.912	3.5	5S(3H)4H	62171.615	3.5	4SP(7S)6P	
273.4644	-2.618	80177.975	1.5	5S(5D)4D	43620.957	1.5	4P(3D)6P	274.6982	-0.039	8391.938	2.5	D6S	44784.761	2.5	4P(3D)4D	
273.4813	-0.714	50212.826	2.5	5S(3P)4F	86767.577	2.5	4P(3P)4D	274.7014	-3.754	38214.507	1.5	D6S	74606.841	2.5	4P(3D)2D	
273.5089	-0.619	99824.045	2.5	5S(3F)4F	63272.976	2.5	4P(3F)4D	274.7122	-0.353	78725.790	1.5	5S(5D)6D	42334.822	2.5	4P(3D)6F	
273.5293	-2.513	104064.670	6.5	4D(3H)4I	67516.332	5.5	4P(3G)2H	274.7417	-1.255	99332.102	4.5	5S(3H)2H	62945.038	3.5	4P(3F)4D	
273.5675	-1.680	100492.020	3.5	5S(3F)2F	63948.790	4.5	4P(3F)4F	274.7424	-0.441	108648.695	6.5	5S(11)2I	72261.729	5.5	4P(1G)2H	
273.5699	-1.431	98130.131	6.5	5S(3H)4H	61587.214	5.5	4P(3H)4I	274.7643	-3.247	73395.930	2.5	D582(7S)4F	109780.000	1.5	280DD	
273.6063	-2.770	57493.321	1.5	D582(7S)4P	94031.378	0.5	4SP(5D)6D	274.7802	-3.395	102394.718	3.5	6S(5D)4D	66012.750	4.5	4P(3G)4F	
273.6489	-2.623	26932.748	0.5	D6S(3P)2P	63465.109	1.5	4P(3F)4D	274.7960	-2.661	98445.400	4.5	5S(3H)4H	62065.521	3.5	4P(3F)4F	
273.6966	-0.559	8680.454	1.5	D6S(5D)4D	45206.450	0.5	4P(5D)4D	274.7962	-1.551	58666.258	3.5	D6S(1G)2G	95046.100	2.5	4P(3F)2F	
273.7424	-4.513	98568.912	3.5	5S(3H)4H	62049.025	2.5	4SP(7S)6P	274.8057	0.132	102842.119	4.5	5S(3G)4G	66463.528	5.5	4P(3G)4H	
273.7595	-4.585	31483.176	3.5	D6S(3D)4D	68000.788	4.5	4P(3G)2H	274.8804	-3.155	108630.429	5.5	5S(11)2I	72261.729	5.5	4P(1G)2H	
273.7633	-2.022	25805.328	4.5	D6S(3G)4G	92322.431	3.5	4P(3H)2G	274.8965	-3.743	36252.918	2.5	D6S(3D)2D	72619.490	2.5	4P(3D)4D	
273.8392	-2.149	54273.641	4.5	D582(7S)4G	90780.621	3.5	5P(5D)4F	274.8987	-3.948	25805.328	4.5	D6S(3G)4G	62171.615	3.5	4SP(7S)6P	
273.8485	-3.964	103118.400	1.5	6S(5D)4D	66612.656	1.5	4P(3G)4F	274.9161	-3.935	83990.063	1.5	4D(5D)6D	47626.076	0.5	4P(5D)4P	
273.8504	-3.780	84131.563	0.5	4D(5D)6D	90780.621	3.5	5P(5D)4F	274.9162	-2.555	25787.598	1.5	D6S(3F)2P	62151.561	2.5	4P(3F)4F	
273.8542	-4.669	54275.637	2.5	D582(7S)4G	62065.521	3.5	4P(3F)4F	274.9221	-3.537	54275.637	2.5	D582(7S)4G	90638.822	2.5	5P(5D)4D	
273.8661	-1.152	98568.912	3.5	5S(3H)4H	72130.390	4.5	4P(1G)2H	274.9289	-1.545	98445.400	4.5	5S(3H)4H	44504.168	1.5	4P(1F)2F	
273.8913	-0.788	108630.429	5.5	5S(11)2I	90780.621	3.5	5P(5D)4F	274.9321	0.319	8391.938	2.5	D6S(5D)4D	62151.561	2.5	4P(3F)4D	
273.9111	-3.120	54283.220	3.5	D582(7S)4G	72619.490	2.5	4P(3D)4F	274.9486	-1.028	50187.813	3.5	D6S(3F)4F	86547.490	2.5	4P(1F)2F	
273.9433	-1.728	36126.387	1.5	D6S(3D)2D	46967.444	2.5	4P(5D)4P	274.9486	-1.028	50187.813	3.5	D6S(3F)4F	86547.490	2.5	4P(1F)2F	
273.9499	-2.960	83459.670	1.5	4D(5D)6F	62662.244	5.5	4P(3H)2I	274.9532	-0.622	99918.569	1.5	5S(3F)4F	63559.488	0.5	4P(3F)4D	
273.9511	-0.132	26170.181	5.5	D6S(3H)2H	44446.878	3.5	4P(5D)4D	274.9543	-0.479	99824.045	2.5	5S(3F)4F	63465.109	1.5	4P(3F)4D	
273.9548	0.317	7955.299	3.5	D6S(5D)4D	62083.108	4.5	4P(3H)2G	274.9795	-2.596	54283.220	3.5	D582(7S)4G	90638.822	2.5	5P(5D)4D	
273.9981	-1.488	98568.912	3.5	5S(3H)4H	86547.490	2.5	4P(1F)2F	275.0008	-1.454	25805.328	4.5	D6S(3G)4G	62158.110	4.5	4P(3F)4D	
274.1050	-3.442	50075.910	1.5	D6S(3F)4F	86547.490	2.5	4P(1F)2F	275.0044	-3.074	57493.321	1.5	D582(7S)4P	93840.340	1.5	4SP(5D)6D	
274.1314	-0.980	50075.910	1.5	D6S(3F)4F	86543.974	1.5	4P(3P)4D	275.0535	-4.733	23317.633	2.5	D582(7S)6S	59663.456	1.5	4P(3F)4S	
274.1394	-0.425	27620.412	2.5	D6S(3F)2F	64087.418	2.5	4P(3F)4G	275.0535	-4.733	23317.633	2.5	D582(7S)6S	59663.456	1.5	4P(3F)4S	
274.1557	-0.312	102842.119	4.5	5S(3G)4G	66377.283	3.5	4P(3G)4F	275.0915	-1.909	25981.629	3.5	D6S(3G)4G	62322.431	3.5	4P(3H)2G	
274.1660	-2.084	100749.810	2.5	5S(3F)2F	64286.345	3.5	4P(3F)2F	275.0919	-2.452	83308.194	2.5	4D(5D)6F	46967.444	2.5	4P(5D)4P	
274.1666	-4.597	102394.718	3.5	6S(5D)4D	65931.334	3.5	4P(3G)4G	275.0978	-3.850	50142.786	2.5	D6S(3F)4F	86482.750	3.5	4P(1F)2F	
274.2152	-1.929	25787.598	1.5	D6S(3P)2P	62244.520	1.5	4P(3F)4F	275.1127	-0.859	25787.598	1.5	D6S(3P)2P	62125.600	1.5	4P(3F)2D	
274.2413	-0.810	99918.569	1.5	5S(3F)4F	63465.109	1.5	4P(3F)4D	275.1153	-2.689	57493.321	1.5	D582(7S)4P	93830.979	2.5	4SP(5D)6D	
274.2455	-3.281	57578.484	0.5	D582(7S)4P	94031.378	0.5	4SP(5D)6D	275.1379	-1.608	102030.912	3.5	6S(5D)6D	65696.038	4.5	4P(3G)4G	
274.2474	-0.441	108804.667	3.5	5S(3D)4D	72352.024	3.5	4P(3D)4F	275.1379	-1.608	102030.912	3.5	6S(5D)6D	65696.038	4.5	4P(3G)4G	
274.2588	-0.806	100492.020	3.5	5S(3F)2F	64040.886	3.5	4P(3F)4G	275.1440	-2.607	38164.194	2.5	D6S(1D)2D	74498.057	1.5	4P(3D)2D	
274.3197	-0.058	8846.768	0.5	D6S(5D)4D	45289.801	1.5	4P(5D)4F	275.1646	-1.659	50212.826	2.5	D6S(3F)4F	86543.974	1.5	4P(3F)4D	
274.3223	-0.718	78843.992	0.5	5S(5D)6D	42401.302	1.5	4P(5D)6F	275.2089	-0.912	50157.452	4.5	D6S(3F)4F	86482.750	3.5	4P(1F)2F	
274.3226	-4.765	58631.531	4.5	D6S(1D)2D	74606.841	2.5	4P(3D)2D	275.2150	-0.502	78725.790	1.5	5S(5D)6D	42401.302	1.5	4P(5D)6F	
274.4088	-1.411	99093.452	5.5	5S(3H)2H	62662.244	5.5	4P(3H)2I	275.2157	-0.459	100749.810	2.5	5S(3F)2F	64425.408	2.5	4P(3F)2F	
274.4233	-3.458	57411.065	2.5	D582(7S)4P	93840.340	1.5	4SP(5D)6D	275.2436	-3.191	48039.090	2.5	D7	5D(5D)2D	84359.800	1.5	4P(1F)2D
274.4265	-3.985	2430.097	3.5	D7	38858.958	2.5	4P(5D)6D	275.2652	-3.248	54275.637	2.5	D582(7S)4G	90593.497	1.5	5P(5D)6F	
274.4553	-3.418	102802.312	2.5	6S(5D)4D	66377.283	3.5	4P(3G)4F	275.3028	-0.593	50075.910	1.5	D6S(3F)4F	86388.820	0.5	4P(3F)4D	
274.4741	-2.888	83812.116	2.5	4D(5D)6D	47389.779	1.5	4P(5D)4F	275.3288	0.473	26352.766	4.5	D6S(3H)2H	62662.244	5.5	4P(3F)4D	
274.4897	-1.660	27620.412	2.5	D6S(3F)2F	64040.886	3.5	4P(3F)4G	275.3288	0.473	26352.766	4.5	D6S(3H)2H	62662.244	5.5	4P(3F)4D	
274.4939	-2.601	57411.065	2.5	D582(7S)4P	93830.979	2.5	4SP(5D)6D	275.4202	-4.130	54902.315	1.5	D6S(3P)2P	72629.711	0.5	4P(3D)4D	
274.5132	-1.492	98568.912	3.5	5S(3H)4H	62151.561	2.5	4P(3F)4F	275.4391	-2.157	78525.817	3.5	D6S(3F)4F	86482.750	3.5	4P(1F)2F	
274.5431	-3.148	58666.258	3.5	D6S(1G)2G	95079.640	3.5	4P(3F)4F	275.4391	-2.157	78525.817	3.5	D6S(3F)4F	86482.750	3.5	4P(1F)2F	
274.5626	-1.652	98568.912	3.5	5S(3H)4H	62158.110	4.5	4P(3F)4F	275.4972	-1.301	98445.400	4.5	5S(3H)4H	62158.110	4.5	4P(3F)4F	
274.6086	-1.790	50142.786	2.5	D6S(3F)4F	86547.490	2.5	4P(1F)2F	275.5072	-1.267	78725.790	1.5	5S(5D)6D	42334.822	2.5	4P(5D)6F	
274.6093	-2.005	100492.020	3.5	5S(3F)2F	64087.418	2.5	4P(3F)4G	275.5237	-3.717	30388.542	4.5	D6S(3G)2G	66672.334	3.5	4P(3G)4H	
274.6126	-0.653	78843.992	0.5	5S(5D)6D	42439.822	0.5	4P(5D)6F	275.5256	-2.576	38214.507	1.5	D6S(1D)2D	74498.057	1.5	4P(3D)2D	
								275.5525	-3.792	102802.312	2.5	6S(5D)4D	66522.304	2.5	4P(3G)4F	
								275.5694	-4.561	25805.328	4.5	D6S(3G)4G	62083.108	4.5	4P(3H)2G	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
275.5737	0.425	7955.299	3.5	D6S (5D)4D	44232.512	4.5	4P (5D)4F	276.9355	-0.398	25428.784	5.5	D6S (3G)4G	61527.616	6.5	4P (3H)4I
275.5997	-4.092	98445.400	4.5	5S (3H)4H	62171.615	3.5	4SP(7S)6P	276.9562	-2.450	26055.423	2.5	D6S (3G)4G	62151.561	2.5	4P (3F)4F
275.6160	-1.392	36252.918	2.5	D6S (3D)2D	72524.566	1.5	4P (3D)4D	276.9835	-0.003	103608.909	4.5	5S (3G)2G	67516.332	5.5	4P (3G)2H
275.6291	-1.142	50212.826	2.5	D6S (3P)4P	86482.750	3.5	4P (1F)2F	277.0292	-4.572	60270.339	3.5	D5S2(7S)4D	96356.960	3.5	4SP(3G)2F
275.6512	-1.098	26055.423	2.5	D6S (3G)4G	62322.431	3.5	4P (3H)2G	277.0292	-1.785	36126.387	1.5	D6S (3D)2D	72212.978	0.5	4P (3D)4P
275.6700	-3.228	79885.493	2.5	5S (5D)4D	43620.957	1.5	4P (5D)6P	277.0485	-4.704	103600.440	6.5	4D (3H)4H	67516.332	5.5	4P (3G)2H
275.6904	-2.588	57578.484	0.5	4SP(5D)6D	93840.340	1.5	4SP(5D)6D	277.0502	-2.462	25428.784	5.5	D6S (3G)4G	62056.521	3.5	4P (3H)4I
275.6937	-3.568	25787.998	1.5	D6S (3P)2P	62049.025	2.5	4SP(7S)6P	277.0502	-1.358	25428.784	5.5	D6S (3G)4G	61512.634	3.5	4P (3F)4F
275.7030	-1.601	25805.328	4.5	D6S (3G)4G	62065.521	3.5	4P (3F)4F	277.1063	-2.887	57411.065	2.5	D5S2(7S)4P	93487.650	3.5	4P (3F)4F
275.7569	-1.158	102842.119	4.5	5S (3G)4G	66589.008	4.5	4P (3G)4H	277.1186	-1.646	30388.542	4.5	D6S (3G)2G	66463.528	5.5	4P (3G)4H
275.8073	-1.415	98568.912	3.5	5S (3H)4H	62322.431	3.5	4P (3H)2G	277.1555	-1.854	26055.423	2.5	D6S (3G)4G	62125.600	1.5	4P (3P)2D
275.8869	-3.220	30764.485	3.5	D6S (3G)2G	67000.517	2.5	4P (3F)2D	277.1577	-2.529	83459.670	1.5	4D (5D)6F	47389.770	1.5	4P (5D)4P
275.9332	-3.533	2430.097	3.5	D7 (5D)4F	38660.043	3.5	4P (5D)6D	277.1769	-4.736	25981.629	3.5	D6S (3G)4G	62049.025	2.5	4SP(7S)6P
276.0687	-3.521	54275.637	2.5	D5S2(7S)4G	90487.810	2.5	5P (5D)6F	277.1829	-1.918	100492.020	3.5	D5S (3F)2F	64425.408	2.5	4P (3P)2F
276.0754	-1.099	98294.401	5.5	5S (3H)4H	62083.108	4.5	4P (3H)2G	277.2126	-1.406	8391.938	2.5	D6S (5D)4D	44446.878	3.5	4P (5D)4D
276.1182	-2.299	100492.020	3.5	5S (3F)2F	64286.345	3.5	4P (3F)2F	277.3675	-4.547	36126.387	1.5	D6S (3D)2D	72168.998	1.5	4P (3D)4F
276.1265	-2.544	54283.220	3.5	D5S2(7S)4G	90487.810	2.5	5P (5D)6F	277.4307	-3.739	58666.258	3.5	D6S (1G)2G	94700.660	2.5	4P (3F)2D
276.1548	-2.703	79439.467	3.5	5S (5D)4D	43238.586	2.5	4P (5D)6P	277.4688	-0.944	26932.748	0.5	D6S (3P)2P	62962.205	1.5	4P (3F)4D
276.1579	-3.413	30388.542	4.5	D6S (3G)2G	66589.008	4.5	4P (3G)4H	277.4732	-4.578	2430.097	3.5	D7 (5D)4F	38458.981	4.5	4P (5D)6D
276.1813	-0.873	8846.768	0.5	D6S (5D)4D	45044.168	1.5	4P (5D)4D	277.4878	-2.094	54273.641	4.5	D5S2(7S)4G	69102.380	2.5	4SP(5S)4P
276.2094	-3.306	47674.721	1.5	D7 (5D)2D	83868.450	2.5	4P (1F)2D	277.5001	-3.442	105127.770	2.5	D5S (5D)4D	69102.380	2.5	4SP(5S)4P
276.2333	-0.437	78525.407	2.5	5S (5D)6D	42334.822	2.5	4P (5D)6F	277.5032	-4.644	54275.637	2.5	D5S2(7S)4G	90300.625	3.5	5P (5D)6F
276.2379	-4.144	25981.629	3.5	D6S (3G)4G	62171.615	3.5	4SP(7S)6P	277.5338	-3.918	2837.950	2.5	D7 (5D)4F	38858.958	2.5	4P (5D)6D
276.2404	-4.969	102802.312	2.5	6S (5D)4D	66612.656	1.5	4P (3G)4F	277.5506	-4.938	58666.258	3.5	D6S (1G)2G	94685.090	2.5	4SP(5D)6P
276.2447	-2.189	26055.423	2.5	D6S (3G)4G	62244.520	1.5	4P (3F)4F	277.5558	-4.146	102030.912	3.5	6S (5D)6D	66012.750	4.5	4P (3G)4F
276.2582	-2.467	25787.998	1.5	D6S (3P)2P	61974.930	1.5	4SP(7S)6P	277.5614	-3.803	102394.718	3.5	6S (5D)4D	66377.283	3.5	4P (3G)4F
276.2746	-1.762	108804.667	3.5	5S (3D)4D	72619.490	2.5	4P (3D)4D	277.5616	-3.073	277.5616	-3.073	54283.220	3.5	D5S2(7S)4G	
276.3410	-1.843	25981.629	3.5	D6S (3G)4G	62158.110	4.5	4P (3F)4F	277.6179	-1.508	26055.423	2.5	D6S (3G)4G	62065.521	3.5	5P (5D)6F
276.3504	-4.401	2837.950	2.5	D7 (5D)4F	39013.206	1.5	4P (5D)6D	277.6252	-4.775	60270.339	3.5	D5S2(7S)4G	96279.490	2.5	4SP(3G)2F
276.3655	0.243	102584.963	5.5	5S (3G)4G	68000.788	4.5	4P (3G)2H	277.6824	-2.615	31999.048	3.5	D7 (5D)2F	68000.788	4.5	4P (3G)2H
276.3922	-2.671	102842.119	4.5	5S (3G)4G	66411.686	6.5	4P (3G)4H	277.6863	-1.176	98294.401	5.5	5S (3H)4I	42237.033	3.5	4P (3H)2I
276.3979	-2.375	83136.487	3.5	4D (5D)6F	62151.561	2.5	4P (3F)4F	277.6908	-0.466	78237.685	3.5	5S (5D)6D	42237.033	3.5	4P (3F)4F
276.4000	-3.122	83558.540	0.5	4D (5D)6F	66672.334	3.5	4P (3G)4H	277.7224	-4.879	54902.315	1.5	D6S (3H)2H	90898.873	1.5	4P (3P)4P
276.4790	-1.727	25428.784	5.5	D6S (3G)4G	46967.444	2.5	4P (5D)4P	277.7270	-2.646	102584.963	5.5	5S (3G)4G	66589.008	4.5	4P (3G)4H
276.5103	-1.808	54232.195	5.5	D5S2(7S)4G	47389.779	1.5	4P (5D)4P	277.7452	-5.131	26055.423	2.5	D6S (3G)4G	62049.025	2.5	4SP(7S)6P
276.5128	0.025	108804.667	3.5	5S (3D)4D	61587.214	5.5	4P (3H)4I	277.7586	-4.666	103265.694	0.5	6S (5D)4D	67273.826	1.5	4P (3F)2D
276.5221	-1.047	108804.667	3.5	5S (3D)4D	90386.528	4.5	5P (5D)4F	277.7587	-5.075	3117.461	1.5	D7 (5D)4F	39109.307	0.5	4P (5D)6D
276.5494	-1.488	33501.253	3.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F	277.7827	-1.870	30388.542	4.5	D6S (3G)2G	66377.283	3.5	4P (3G)4F
276.6193	-1.489	33466.463	4.5	D6S (1G)2G	72651.876	3.5	4P (3D)4D	277.7890	-1.154	26170.181	5.5	D6S (3H)2H	62158.110	4.5	4P (3F)4F
276.6484	-1.943	98294.401	5.5	5S (3H)4H	69650.484	2.5	4P (3G)2F	277.8070	-2.798	36252.918	2.5	D6S (3D)2D	72238.513	2.5	4P (3D)4F
276.7408	-3.046	54273.641	4.5	D5S2(7S)4G	69606.552	3.5	4P (3G)2F	277.8280	-3.047	105589.420	3.5	4D (3F)4H	69606.552	3.5	4P (3G)2F
276.7417	-1.327	78525.407	2.5	5S (5D)6D	62158.110	4.5	4P (3F)4F	277.8292	-0.055	103983.510	3.5	5S (3G)2G	68000.788	4.5	4P (3G)2H
276.7503	0.488	26170.181	5.5	D6S (3H)2H	90397.868	3.5	5P (5D)4D	277.8520	-3.342	108630.429	5.5	5S (1I)2I	72650.658	4.5	4P (3D)4F
276.7504	-1.031	98445.400	4.5	5S (3H)4H	42401.302	1.5	4P (5D)6F	277.8540	-1.744	54232.195	5.5	D5S2(7S)4G	90211.700	5.5	4P (3F)4G
276.7622	-1.896	102584.963	5.5	5S (3G)4G	62293.164	6.5	4P (3H)2I	277.9300	-0.053	26352.766	4.5	D6S (3H)2H	62322.431	3.5	4P (3H)2G
276.7894	-4.701	103118.400	1.5	6S (5D)4D	62322.431	3.5	4P (3H)2G	277.9796	-0.477	105065.630	3.5	5D (5D)6G	69102.380	2.5	4SP(5S)4P
276.8024	-5.992	26055.423	2.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	277.9909	-0.777	37227.326	0.5	D6S (1S)2S	73189.110	1.5	4P (3D)2P
276.8142	-3.941	54283.220	3.5	D5S2(7S)4G	66463.528	5.5	4P (3G)4H	278.0051	-1.025	37234.922	3.5	D6S (1S)2S	73187.280	0.5	4P (3D)2P
276.8355	-2.004	36126.387	1.5	D6S (3D)2D	67000.517	2.5	4P (3F)2D	278.0198	-3.182	27314.922	3.5	D6S (3F)2F	63272.976	2.5	4P (3F)4D
276.8355	-3.025	33501.253	3.5	D6S (1G)2G	62171.615	3.5	4SP(7S)6P	278.0292	-4.534	102334.112	2.5	6S (5D)6D	66377.283	3.5	4P (3G)4F
276.8935	-0.922	8680.454	1.5	D6S (5D)4D	90397.868	3.5	5P (5D)4D	278.1046	-2.011	60270.339	3.5	D5S2(7S)4D	96217.420	3.5	4SP(5F)4D
276.9012	-4.512	54283.220	3.5	D5S2(7S)4G	90386.528	4.5	5P (5D)4F	278.1677	-3.209	105589.420	3.5	4D (3F)4H	69650.484	2.5	4P (3G)2F
276.9152	-1.099	25981.629	3.5	D6S (3G)4G	72238.513	2.5	4P (3D)4F	278.1745	-3.002	54273.641	4.5	D5S2(7S)4G	90211.700	5.5	4P (3F)4G
276.9334	-0.993	36252.918	2.5	D6S (3D)2D	69606.552	3.5	4P (3G)4F	278.1814	-2.211	54902.315	1.5	D6S (5S)2(7S)4G	90839.480	0.5	4P (3F)4P
					44784.761	2.5	4P (5D)4D	278.2178	-2.685	83558.540	0.5	4D (5D)6F	47626.076	0.5	4P (5D)4P
					90386.528	4.5	5P (5D)4F	278.2508	-4.209	105230.320	0.5	5D (3G)4G	69302.090	1.5	4SP(5S)4P
					62083.108	4.5	4P (3H)2G	278.3085	-2.036	25805.428	4.5	D6S (3G)4G	61726.077	3.5	4P (3F)4D
					72352.024	3.5	4P (3D)4F	278.3181	-3.627	26055.423	2.5	D6S (3G)4G	61974.933	1.5	4SP(7S)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
278.3266	-2.507	83308.194	2.5	4D (5D)6F	47389.779	1.5	4P (5D)4P	279.7196	-0.082	99688.337	3.5	5S (3F)4F	63948.790	4.5	4P (3F)4G
278.3305	-3.488	105524.461	4.5	4D (3F)4H	69606.552	3.5	4P (3G)2F	279.7425	-2.463	99824.045	2.5	5S (3F)4F	64087.418	2.5	4P (3F)4G
278.3404	-1.599	36126.387	1.5	D6S (3D)2D	72043.026	1.5	4P (3D)4P	279.7917	-1.375	26352.766	4.5	D6S (3H)2H	62083.108	4.5	4P (3H)2G
278.3447	-1.857	36252.918	2.5	D6S (3D)2D	72168.998	1.5	4P (3D)4F	279.8133	-3.019	54902.315	1.5	D6S (3P)2P	90629.902	1.5	4P (3P)4S
278.3474	-2.250	100749.810	2.5	5S (3F)2F	64834.073	1.5	4P (3P)2P	279.8274	-4.516	104828.160	2.5	5D (5D)6D	96102.380	2.5	4SP(5S)4F
278.3691	-0.105	26170.181	5.5	D6S (3H)2H	62083.108	4.5	4P (3H)2G	279.8308	-3.112	60270.339	3.5	D5S2(7S)4D	95995.690	2.5	4SP(5P)4D
278.3788	-4.659	60445.275	2.5	D5S2(7S)4D	96356.960	3.5	4SP(3G)2F	279.8818	-2.896	57411.065	2.5	D5S2(7S)4D	93129.900	3.5	4P (3F)4D
278.3966	-2.181	31364.440	3.5	D6S (3D)4D	67273.826	1.5	4P (3G)2D	279.9270	-0.861	108804.667	3.5	5S (3D)4D	93191.500	3.5	4P (1G)2G
278.4085	-2.829	30764.485	3.5	D6S (3D)4D	67273.826	1.5	4P (3F)2D	279.9295	-0.895	26352.766	4.5	D6S (3H)2H	62065.521	3.5	4P (3F)4F
278.4277	-1.981	31368.450	0.5	D6S (3D)4D	67273.826	1.5	4P (3D)6F	279.9722	-1.174	29805.328	4.5	D6S (3D)2D	61512.634	4.5	4P (3H)4I
278.4472	-1.673	78237.685	3.5	5S (5D)6D	42334.822	2.5	4P (3F)4F	280.0038	-0.062	95853.225	4.5	5S (3F)4G	63876.317	5.5	4P (3F)4G
278.4536	-3.242	57493.321	1.5	D5S2(7S)4P	93395.360	2.5	4P (3P)4F	280.0924	-2.359	54232.195	5.5	D5S2(7S)4G	89924.175	5.5	5P (5D)6F
278.4979	-2.844	26932.748	0.5	D6S (3P)2P	62829.075	0.5	4P (3P)4D	280.1515	-3.196	105291.010	3.5	4D (3F)4G	69606.552	3.5	4P (3P)4D
278.5024	-4.529	3117.461	1.5	D7 (5D)4F	39013.206	1.5	4P (5D)6D	280.2599	-2.343	26055.423	2.5	D6S (3G)4G	17126.077	3.5	4P (3P)4D
278.5192	-0.222	77861.625	4.5	5S (5D)6D	41968.046	5.5	4P (5D)6F	280.3328	-0.903	108804.667	3.5	5S (3D)4D	73143.288	3.5	4P (1G)2G
278.5790	-3.091	31387.948	2.5	D6S (3D)4D	67273.826	1.5	4P (3F)2D	280.3430	0.071	100492.020	3.5	5S (3F)2F	64831.943	4.5	4P (3F)2G
278.6321	-3.226	98568.912	3.5	5S (3H)4H	62689.880	2.5	4P (3P)4D	280.3937	-4.625	102030.912	3.5	6S (5D)6D	66377.283	3.5	4P (3G)4F
278.6835	-4.990	102394.718	3.5	6S (5D)4D	66522.304	2.5	4P (3G)4F	280.4021	-1.459	27620.412	2.5	D6S (3F)2F	63272.976	2.5	4P (3F)4D
278.8990	-3.950	27620.412	2.5	D6S (3F)2F	63465.109	1.5	4P (3F)4D	280.4181	-3.654	54273.641	4.5	D5S2(7S)4G	89924.175	5.5	5P (5D)6F
278.9000	-4.682	103118.400	1.5	6S (5D)4D	67273.826	1.5	4P (3F)2D	280.4423	-2.540	99688.337	3.5	5S (3F)4F	64040.886	3.5	4P (3F)4G
278.9486	-3.816	36126.387	1.5	D6S (3D)2D	71964.710	2.5	4P (3H)2I	280.4999	-0.021	100749.810	2.5	5S (3F)2F	65109.679	3.5	4P (3F)2G
278.9592	-2.531	98130.131	6.5	5S (3H)4H	62293.164	6.5	4P (3H)2I	280.5318	-1.945	31364.440	1.5	D6S (3D)4D	67000.517	2.5	4P (3F)2D
278.9733	-4.589	57493.321	1.5	D5S2(7S)4P	93328.480	1.5	4P (3P)4F	280.5627	-4.011	98294.401	5.5	5S (3H)4H	62662.244	5.5	4P (3H)2I
278.9733	-4.589	57493.321	1.5	D5S2(7S)4P	93328.480	1.5	4P (3P)4F	280.5627	-4.011	98294.401	5.5	5S (3H)4H	62662.244	5.5	4P (3H)2I
278.9733	-4.589	57493.321	1.5	D5S2(7S)4P	93328.480	1.5	4P (3P)4F	280.5627	-4.011	98294.401	5.5	5S (3H)4H	62662.244	5.5	4P (3H)2I
278.9806	-4.321	60445.275	2.5	D5S2(7S)4G	96079.490	2.5	4SP(3G)2F	280.5788	-1.313	27314.922	3.5	D6S (3F)2F	62945.038	3.5	4P (3F)4D
278.9855	-2.801	83459.670	1.5	4D (5D)6F	47626.076	0.5	4P (5D)4P	280.6223	-3.448	77861.625	4.5	5S (5D)6D	42237.033	3.5	4P (5D)6F
279.0045	-0.575	99918.569	1.5	5S (3F)4F	64087.418	2.5	4P (3F)4G	280.6235	-3.617	30388.542	4.5	D6S (3G)2G	66012.750	4.5	4P (3F)4G
279.0184	-1.973	48039.090	2.5	D7 (5D)2D	83868.450	2.5	4P (1F)2D	280.6279	-2.932	98568.912	3.5	5S (3H)4H	62945.038	3.5	4P (3F)4D
279.0471	-3.485	105127.770	2.5	5D (5D)4D	69302.090	1.5	4SP(5S)4P	280.6842	-2.785	54273.641	4.5	D5S2(7S)4G	89890.373	3.5	4P (3F)4G
279.0561	-1.807	30764.485	3.5	D6S (3G)2G	66589.008	4.5	4P (3G)4H	280.7000	-2.892	54273.637	2.5	D5S2(7S)4G	89890.373	3.5	4P (3F)4G
279.0750	-4.535	2837.950	2.5	D7 (5D)4F	38660.043	3.5	4P (3D)6D	280.7152	-4.377	30764.485	3.5	D6S (3G)2G	66377.283	3.5	4P (3G)4F
279.1003	-5.451	26352.766	4.5	D6S (3H)2H	62171.615	3.5	4SP(7S)6P	280.7170	-2.273	31387.948	2.5	D6S (3D)4D	67000.517	2.5	4P (3F)2D
279.1552	-4.972	102334.112	2.5	6S (5D)6D	66522.304	2.5	4P (3G)4F	280.7521	-1.701	103608.909	4.5	5S (3G)2G	68000.788	4.5	4P (3G)2H
279.1647	-2.898	54232.195	5.5	D5S2(7S)4G	90042.779	4.5	4P (3G)2F	280.7597	-1.905	54283.220	3.5	D5S2(7S)4G	89890.373	3.5	4P (3F)4G
279.1878	-3.594	105414.180	2.5	4D (3F)4G	69606.552	3.5	4P (3F)4F	280.7922	-3.376	104705.420	3.5	5D (5D)6D	69102.380	2.5	4SP(5S)4P
279.2056	-2.736	26352.766	4.5	D6S (3H)2H	62158.110	4.5	4P (3G)2F	280.8089	-2.459	99688.337	3.5	5S (3F)4F	64087.418	2.5	4P (3F)4G
279.2214	-3.755	105230.290	0.5	5D (5D)4D	69426.980	0.5	4SP(5S)4P	280.9783	-0.662	78237.685	3.5	5S (5D)6D	42658.224	3.5	4P (5D)6F
279.2333	-4.588	102802.312	2.5	6S (5D)4D	67000.517	2.5	4P (3F)2D	281.1268	-2.412	25428.784	5.5	D6S (3G)4G	60989.444	4.5	4P (3H)4H
279.2964	-3.397	54273.641	4.5	D5S2(7S)4G	90067.347	4.5	5P (3F)4F	281.1743	-3.041	60441.033	1.5	D5S2(7S)4D	95995.690	2.5	4SP(5P)4D
279.3245	-1.296	36252.918	2.5	D6S (3D)2D	72043.026	1.5	4P (3D)4P	281.2227	-3.868	105155.090	4.5	4D (3F)4G	69606.552	3.5	4P (3G)2F
279.3368	-0.408	108804.667	3.5	5S (3D)4D	73016.147	3.5	4P (1G)2F	281.2494	-1.920	25787.598	1.5	D6S (3F)2P	61332.764	1.5	4P (3P)4P
279.3711	-4.830	54283.220	3.5	D5S2(7S)4G	90067.347	4.5	5P (3F)4G	281.2682	-3.141	30388.542	4.5	D6S (3G)2G	65931.334	3.5	4P (3G)4G
279.3787	-0.341	99824.045	2.5	5S (3F)4F	64040.886	3.5	4P (3F)4G	281.2994	-3.227	108630.429	5.5	5S (11)2I	73091.590	4.5	4P (1G)2G
279.3787	-1.550	98445.400	4.5	5S (3H)4H	62662.244	5.5	4P (3H)2I	281.3085	-0.847	99824.045	2.5	5S (3F)4F	64286.345	3.5	4P (3F)2F
279.3886	-0.640	25805.328	4.5	D6S (3G)4G	61587.214	5.5	4P (3P)4I	281.3509	-2.586	99573.225	4.5	5S (3F)4F	64040.886	3.5	4P (3F)4G
279.4647	-3.054	60445.275	2.5	D5S2(7S)4D	96217.420	3.5	4SP(3P)4D	281.3615	-1.058	58631.531	4.5	D6S (1G)2G	94189.880	5.5	4SP(5G)4G
279.4748	-3.270	104873.230	3.5	5D (5D)4D	69102.380	2.5	4SP(5S)4P	281.4006	-4.548	104828.160	2.5	5D (5D)6D	69302.090	1.5	4SP(5S)4P
279.4882	-1.791	54273.641	4.5	D5S2(7S)4G	90042.779	4.5	4P (3G)2F	281.4697	-3.259	31483.176	3.5	D6S (3D)4D	67000.517	2.5	4P (3F)2D
279.5307	-3.161	105414.180	2.5	4D (3F)4G	69650.484	2.5	4P (3G)2F	281.5050	-4.806	73393.745	4.5	D5S2(7S)4F	108906.640	3.5	4SP(3G)4H
279.5631	-2.775	54283.220	3.5	D5S2(7S)4G	90042.779	4.5	4P (3F)4G	281.5621	-2.571	73395.930	2.5	D5S2(7S)4F	108906.640	3.5	4SP(3G)4H
279.5767	-2.124	30764.485	3.5	D6S (3G)2G	66522.304	2.5	4P (3G)4F	281.6043	-2.965	99845.400	1.5	5S (3H)4H	62945.038	2.5	4P (3F)4F
279.6310	-3.648	103751.660	5.5	4D (3H)4H	68000.788	4.5	4P (3G)2H	281.6615	-0.864	99418.569	1.5	5S (3F)2F	64425.408	3.5	4P (3F)2F
279.6399	-4.049	57578.484	0.5	D5S2(7S)4D	93328.480	1.5	4P (3P)4F	281.7014	-3.422	57411.065	2.5	D5S2(7S)4F	92899.200	2.5	4P (3F)4D
279.6395	-2.428	108804.667	3.5	5S (3D)4D	73054.881	2.5	4P (1G)2F								
279.6628	-0.790	77861.625	4.5	5S (5D)6D	42114.818	4.5	4P (3D)6F								
279.6813	-2.497	25981.629	3.5	D6S (3G)4G	61726.077	3.5	4P (3P)4D								
279.7044	-4.931	3117.461	1.5	D7 (5D)4F	38858.958	2.5	4P (5D)6D								

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	ODD E	J	LABEL
281.7088	-0.860	78725.790	1.5	5S (5D)6D	43238.586	2.5	4P (5D)6P	283.5336	-2.550	283.5336	-2.550	49100.976	0.5	D6S (3P)4P	84359.800	1.5	4P (1F)2D	84359.800	1.5	4P (1F)2D
281.7481	-4.568	58666.258	3.5	D6S (1G)2G	94148.510	4.5	4SP(5G)4G	283.5711	-0.975	283.5711	-0.975	25787.598	1.5	D6S (3P)2P	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G
281.8038	-3.112	73393.745	4.5	D5S2(7S)4F	108868.980	4.5	4SP(3G)4H	283.6185	-1.986	283.6185	-1.986	30764.485	3.5	D6S (3G)2G	66012.750	4.5	4P (3G)4F	66012.750	4.5	4P (3G)4F
281.8162	-3.180	60384.370	0.5	D5S2(7S)4D	95858.050	1.5	4SP(5P)4D	283.6189	-1.465	283.6189	-1.465	31364.440	1.5	D6S (3D)4D	66612.656	1.5	4P (3G)4F	66612.656	1.5	4P (3G)4F
281.8622	-2.183	98130.131	6.5	5S (3H)4H	62662.244	5.5	4P (3F)2D	283.6231	-3.230	283.6231	-3.230	25787.598	1.5	D6S (3P)4P	61035.287	0.5	4P (3F)4P	61035.287	0.5	4P (3F)4P
281.9090	-4.173	31811.822	2.5	D7 (5D)2F	67273.826	1.5	4P (3F)2D	283.6512	-1.202	283.6512	-1.202	31368.450	0.5	D6S (3D)4D	66612.656	1.5	4P (3G)4F	66612.656	1.5	4P (3G)4F
281.9343	-2.359	25428.784	5.5	D6S (3G)4G	60887.598	5.5	4P (3H)4H	283.7064	-3.686	283.7064	-3.686	73393.745	4.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
281.9584	-0.645	99332.102	4.5	5S (3H)2H	63876.317	5.5	4P (3F)4G	283.7136	-3.971	283.7136	-3.971	57411.065	2.5	D5S2(7S)4F	92647.510	1.5	4P (3H)4I	92647.510	1.5	4P (3H)4I
281.9909	-1.987	54275.637	2.5	D5S2(7S)4G	89727.342	2.5	4P (3F)4G	283.7240	-1.706	283.7240	-1.706	73395.930	2.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
282.0150	-2.354	105763.270	5.5	4D (3F)2H	70314.604	4.5	4P (3G)2G	283.7388	-2.360	283.7388	-2.360	73395.930	2.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
282.0512	-2.897	54283.220	3.5	D5S2(7S)4G	89727.342	2.5	4P (3F)4G	283.7297	-1.580	283.7297	-1.580	26352.766	4.5	D6S (3H)2H	61587.214	5.5	4P (3H)4I	61587.214	5.5	4P (3H)4I
282.0704	-3.312	58631.531	4.5	D6S (1G)2G	94073.240	3.5	4SP(5F)4G	283.7734	-4.831	283.7734	-4.831	8391.938	2.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
282.0950	-1.702	79885.493	2.5	5S (5D)4D	44446.878	3.5	4P (5D)4D	283.8082	-2.396	283.8082	-2.396	31387.948	2.5	D6S (3D)4D	43620.957	1.5	4P (5D)6P	43620.957	1.5	4P (5D)6P
282.2669	-2.454	26170.181	5.5	D6S (3H)2H	61587.214	5.5	4P (3H)4I	283.8217	-0.755	283.8217	-0.755	78843.992	0.5	5S (5D)6D	63760.957	1.5	4P (3F)4G	63760.957	1.5	4P (3F)4G
282.2671	-2.829	60441.033	1.5	D5S2(7S)4D	95858.050	1.5	4SP(5P)4D	283.8692	-2.279	283.8692	-2.279	99033.452	5.5	5S (3H)2H	63876.317	5.5	4P (3F)4G	63876.317	5.5	4P (3F)4G
282.2786	-2.050	73393.745	4.5	D5S2(7S)4F	108809.310	5.5	4SP(3G)4H	283.9800	-0.179	283.9800	-0.179	77861.625	4.5	5S (5D)6D	72429.711	0.5	4P (3D)6P	72429.711	0.5	4P (3D)6P
282.2877	-3.715	73492.215	3.5	D5S2(7S)4F	108906.640	3.5	4SP(3G)4H	283.9882	-2.089	283.9882	-2.089	37227.326	0.5	D6S (1S)2S	60625.449	5.5	4P (3H)4G	60625.449	5.5	4P (3H)4G
282.3009	-3.289	60445.275	2.5	D5S2(7S)4D	95858.050	1.5	4SP(5P)4D	284.0343	-0.790	284.0343	-0.790	25428.784	5.5	D6S (3G)4G	62125.600	1.5	4P (3P)2D	62125.600	1.5	4P (3P)2D
282.3327	-1.244	54063.459	0.5	D6S (3P)2P	60837.569	6.5	4P (3H)4H	284.0651	-0.404	284.0651	-0.404	26932.748	0.5	D6S (3P)2P	92602.703	3.5	4P (3F)2G	92602.703	3.5	4P (3F)2G
282.3471	-4.393	58666.258	3.5	D6S (1G)2G	89471.365	0.5	5P (5D)6D	284.0749	-3.189	284.0749	-3.189	57411.065	2.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
282.3559	-3.094	57493.321	1.5	D5S2(7S)4F	92899.200	2.5	4P (3F)4D	284.0760	-0.695	284.0760	-0.695	30388.542	4.5	D6S (3G)2G	65586.280	4.5	4P (3H)4H	65586.280	4.5	4P (3H)4H
282.3869	-1.337	99688.337	3.5	5S (3F)4F	64286.345	3.5	4P (3F)2F	284.2680	-2.233	284.2680	-2.233	30388.542	4.5	D6S (3G)2G	65586.280	4.5	4P (3H)4H	65586.280	4.5	4P (3H)4H
282.4136	-1.569	99824.045	2.5	5S (3F)4F	64425.408	2.5	4P (3F)2F	284.2751	-3.551	284.2751	-3.551	30764.485	3.5	D6S (3G)2G	65931.334	3.5	4P (3G)4H	65931.334	3.5	4P (3G)4H
282.4369	-1.226	80177.975	1.5	5S (5D)4D	44784.761	2.5	4P (5D)4D	284.3316	-1.572	284.3316	-1.572	26352.766	4.5	D6S (3H)2H	61512.634	4.5	4P (3H)4I	61512.634	4.5	4P (3H)4I
282.4569	-1.226	80177.975	1.5	5S (5D)4D	44784.761	2.5	4P (5D)4D	284.3478	-1.048	284.3478	-1.048	31811.822	2.5	D7 (5D)2F	67000.517	2.5	4P (3D)6P	67000.517	2.5	4P (3D)6P
282.5299	-3.689	73395.930	2.5	D5S2(7S)4F	108780.000	1.5	270DD	284.3581	-3.745	284.3581	-3.745	25805.328	4.5	D6S (3G)4G	60989.444	4.5	4P (3H)4H	60989.444	4.5	4P (3H)4H
282.5358	-3.078	60384.370	0.5	D5S2(7S)4D	95767.700	0.5	4SP(5P)4D	284.3946	-2.284	284.3946	-2.284	73393.745	4.5	D5S2(7S)4F	108570.560	4.5	4SP(3G)4G	108570.560	4.5	4SP(3G)4G
282.5360	-4.459	99332.102	4.5	5S (3H)2H	63948.790	4.5	4P (3F)4G	284.4040	-2.136	284.4040	-2.136	25981.629	3.5	D6S (3G)4G	61156.835	3.5	4P (3H)4H	61156.835	3.5	4P (3H)4H
282.5437	-2.150	100492.020	3.5	5S (3F)2F	65109.679	3.5	4P (3F)2G	284.4266	-2.233	284.4266	-2.233	30388.542	4.5	D6S (3G)2G	65586.280	4.5	4P (3H)4H	65586.280	4.5	4P (3H)4H
282.5748	-1.482	25428.784	5.5	D6S (3G)4G	60807.230	4.5	4P (3H)4G	284.4546	-1.617	284.4546	-1.617	30764.485	3.5	D6S (3G)2G	65931.334	3.5	4P (3G)4H	65931.334	3.5	4P (3G)4H
282.5882	-2.395	73492.215	3.5	D5S2(7S)4F	108868.980	4.5	4SP(3G)4H	284.4708	-0.912	284.4708	-0.912	26352.766	4.5	D6S (3H)2H	61512.634	4.5	4P (3H)4I	61512.634	4.5	4P (3H)4I
282.6027	-1.456	27314.922	3.5	D6S (3P)2F	62689.880	2.5	4P (3P)4D	284.4708	-0.912	284.4708	-0.912	26352.766	4.5	D6S (3H)2H	61512.634	4.5	4P (3H)4I	61512.634	4.5	4P (3H)4I
282.6158	-2.292	26352.766	4.5	D6S (3H)2H	61276.077	3.5	4P (3P)4D	284.4959	-2.648	284.4959	-2.648	31811.822	2.5	D7 (5D)2F	67000.517	2.5	4P (3D)6P	67000.517	2.5	4P (3D)6P
282.7427	-1.458	26170.181	5.5	D6S (3H)2H	61527.616	6.5	4P (3H)4I	284.5040	-2.081	284.5040	-2.081	30764.485	3.5	D6S (3G)2G	65931.334	3.5	4P (3G)4H	65931.334	3.5	4P (3G)4H
282.7902	-2.073	25805.328	4.5	D6S (3G)4G	61156.835	3.5	4P (3H)4I	284.5164	-4.459	284.5164	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
282.8626	-0.823	26170.181	5.5	D6S (3H)2H	61512.634	4.5	4P (3H)4I	284.5381	-1.274	284.5381	-1.274	31387.948	2.5	D6S (3D)4D	43620.957	1.5	4P (3G)4F	43620.957	1.5	4P (3G)4F
282.8679	-1.400	27620.412	2.5	D6S (3F)2F	62962.205	1.5	4P (3P)4D	284.5425	-0.624	284.5425	-0.624	80177.975	1.5	5S (5D)4D	45044.168	1.5	4P (5D)4F	45044.168	1.5	4P (5D)4F
282.9890	-3.468	60441.033	1.5	D5S2(7S)4D	95767.700	0.5	4SP(5P)4D	284.5596	0.008	284.5596	0.008	79885.493	2.5	5S (3F)4F	44753.799	3.5	4P (5D)4F	44753.799	3.5	4P (5D)4F
282.9961	-2.128	102842.119	4.5	5S (3G)4G	67516.332	5.5	4P (3G)2H	284.5629	-2.426	284.5629	-2.426	73492.215	3.5	D5S2(7S)4F	108631.090	3.5	4SP(3G)4G	108631.090	3.5	4SP(3G)4G
283.0054	-3.469	27620.412	2.5	D6S (3F)2F	62945.038	3.5	4P (3G)2H	284.5640	-4.459	284.5640	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
283.0271	-3.261	58666.258	3.5	D6S (1G)2G	93988.170	2.5	4SP(5G)4G	284.5640	-4.459	284.5640	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
283.0923	-2.241	30764.485	3.5	D6S (3G)2G	66078.269	2.5	4P (3G)4G	284.5640	-4.459	284.5640	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
283.1084	-1.604	26932.748	0.5	D6S (3P)2P	62244.520	1.5	4P (3F)4F	284.5640	-4.459	284.5640	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
283.1427	-4.628	30388.542	4.5	D6S (3G)2G	65696.038	4.5	4P (3G)4G	284.5640	-4.459	284.5640	-4.459	73492.215	3.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	108629.250	2.5	4SP(3G)4G
283.1562	-0.048	25787.598	1.5	D6S (3P)2P	61093.413	2.5	4P (3P)2D	284.5												

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
285.0951	-3.917	105589.420	3.5	4D (3F)4H	70523.706	3.5	4P (3G)2G	286.8038	-2.908	54870.528	2.5	D6S (3F)2F	89727.342	2.5	4P (3F)4G
285.1406	-2.041	25981.629	3.5	D6S (3G)4G	61041.748	2.5	4P (3H)4D	286.8048	-5.406	27314.922	3.5	D6S (3F)2F	62171.615	3.5	4SP(7S)6P
285.1723	-0.374	80346.016	0.5	5S (5D)4D	43289.801	1.5	4P (5D)4F	286.8072	-2.201	99688.337	3.5	5S (3F)4F	64831.943	4.5	4P (3F)2G
285.1954	-4.607	108804.667	3.5	5S (3D)4D	73751.282	4.5	4P (11)2H	286.8095	-2.942	58631.531	4.5	D6S (1G)2G	93484.650	3.5	4P (3F)4F
285.2574	-1.205	99332.102	4.5	5S (3H)2H	64286.345	3.5	4P (3F)2F	286.8347	-2.957	58631.531	4.5	D6S (1G)2G	93484.650	3.5	4P (3F)4F
285.2620	-0.004	108648.695	6.5	5S (11)2I	73603.500	5.5	4P (11)2I	286.8362	-2.619	49506.934	1.5	D6S (3P)4P	84359.800	1.5	4P (1F)2D
285.2865	-2.022	26932.748	0.5	D6S (3P)2P	61974.933	1.5	4SP(7S)6P	286.8438	-1.835	38164.194	2.5	D6S (1D)2D	73016.147	3.5	4P (1G)2F
285.3114	-2.403	31483.176	3.5	D6S (3D)4D	66522.304	2.5	4P (3G)4F	286.8874	-2.103	8391.938	2.5	D6S (5D)4D	43238.586	2.5	4P (3D)6P
285.3207	-2.677	26055.423	2.5	D6S (3G)4G	61093.413	2.5	4P (3P)2D	286.8897	-2.565	73393.745	4.5	D5S2(7S)4F	108239.200	3.5	240DD
285.4108	-1.395	108630.429	5.5	5S (11)2I	73603.500	5.5	4P (11)2H	286.9152	-3.011	73395.930	2.5	D5S2(7S)4F	108239.200	3.5	240DD
285.4272	-2.725	38164.194	2.5	D6S (1D)2D	73189.110	1.5	4P (3D)2P	286.9152	-3.011	73395.930	2.5	D5S2(7S)4F	108239.200	3.5	240DD
285.4685	-2.512	54870.528	2.5	D6S (3F)2F	89890.373	3.5	4P (3F)4G	286.9312	-1.846	102842.119	4.5	5S (3G)4G	68000.788	4.5	4P (3G)2H
285.5691	-0.958	25981.629	3.5	D6S (3G)4G	60989.444	4.5	4P (3H)4H	286.9312	-1.846	102842.119	4.5	5S (3G)4G	68000.788	4.5	4P (3G)2H
285.6149	-1.090	105524.461	4.5	4D (3F)4H	62322.431	3.5	4P (3H)2G	286.9382	-1.894	105155.090	4.5	4D (3F)4G	70314.604	4.5	4P (1G)2F
285.6242	-3.905	79439.467	3.5	5S (5D)4D	60807.230	4.5	4P (3H)4D	286.9382	-1.894	105155.090	4.5	4D (3F)4G	70314.604	4.5	4P (1G)2F
285.6377	-0.486	78237.685	3.5	5S (3D)6D	43238.586	2.5	4P (5D)6P	286.9699	-2.212	38214.507	1.5	D6S (1D)2D	73054.881	2.5	4P (3F)4F
285.6909	-0.010	79439.467	3.5	5S (5D)4D	60807.230	4.5	4P (3H)4D	286.9699	-2.212	38214.507	1.5	D6S (1D)2D	73054.881	2.5	4P (3F)4F
285.6964	-1.759	73637.340	1.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	287.0052	-2.488	25981.629	3.5	D6S (3G)4G	60807.230	4.5	4P (3H)4G
285.7122	-3.586	99824.045	2.5	5S (3F)4F	64834.073	1.5	4P (3P)2P	287.0052	-2.488	25981.629	3.5	D6S (3G)4G	60807.230	4.5	4P (3H)4G
285.7174	-0.860	31387.948	2.5	D6S (3D)4D	66377.283	3.5	4P (3G)4F	287.1060	-1.570	57493.321	1.5	D5S2(7S)4P	92329.890	2.5	4P (5G)4F
285.7420	-1.383	26055.423	2.5	D6S (3G)4G	61041.748	2.5	4P (3H)4G	287.1060	-1.570	57493.321	1.5	D5S2(7S)4P	92329.890	2.5	4P (5G)4F
285.7434	-3.341	54904.222	3.5	D6S (3F)2F	89890.373	3.5	4P (3F)4G	287.1196	-1.697	100749.810	2.5	5S (3F)2F	65931.334	3.5	4P (3G)4G
285.7475	-2.354	37227.326	0.5	D6S (1S)2S	72212.978	0.5	4P (3D)4P	287.1196	-1.697	100749.810	2.5	5S (3F)2F	65931.334	3.5	4P (3G)4G
285.8011	-1.992	38164.194	2.5	D6S (1D)2D	73143.288	3.5	4P (1G)2G	287.1208	-4.152	58666.258	3.5	D6S (1G)2G	93484.650	4.5	4P (3F)4F
285.8111	-3.395	73395.930	2.5	D5S2(7S)4F	108373.800	3.5	260DD	287.1425	-2.197	37227.326	0.5	D6S (1S)2S	72043.026	1.5	4P (3D)4P
285.8231	-4.313	105291.010	3.5	4D (3F)4G	70314.604	4.5	4P (3G)2G	287.1425	-2.197	37227.326	0.5	D6S (1S)2S	72043.026	1.5	4P (3D)4P
285.8283	-4.608	73395.930	2.5	D5S2(7S)4F	108371.700	1.5	250DD	287.1526	-4.061	60270.339	3.5	D5S2(7S)4D	95079.640	3.5	4P (3F)2F
285.8333	-1.232	25981.629	3.5	D6S (3G)4G	60956.781	3.5	4P (3H)4G	287.2254	-1.058	79885.493	2.5	5S (5D)4D	45079.879	2.5	4P (3D)4H
285.8341	-0.029	30388.542	4.5	D6S (3G)2G	65363.595	5.5	4P (3H)2H	287.2254	-1.058	79885.493	2.5	5S (5D)4D	45079.879	2.5	4P (3D)4H
285.8378	-2.451	38214.507	1.5	D6S (1D)2D	73189.110	1.5	4P (3D)2P	287.2651	-3.456	31811.822	2.5	D7 (5D)2F	66612.656	1.5	4P (3G)4F
285.8528	-1.911	38214.507	1.5	D6S (1D)2D	73189.110	1.5	4P (3D)2P	287.3052	-2.189	100492.020	3.5	5S (3F)2F	65696.038	4.5	4P (3G)4G
285.8630	-0.882	80177.975	1.5	5S (5D)4D	45206.450	0.5	4P (5D)4D	287.3052	-2.189	100492.020	3.5	5S (3F)2F	65696.038	4.5	4P (3G)4G
285.9561	-3.729	57493.321	1.5	D5S2(7S)4F	92453.460	0.5	4P (3F)4D	287.3398	-0.189	30764.485	3.5	D6S (3G)2G	65556.280	4.5	4P (3H)2H
286.0591	-4.125	57411.065	2.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F	287.4306	-2.535	57493.321	1.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4F
286.1072	-3.034	37227.326	0.5	D6S (1S)2S	72168.998	1.5	4P (3D)4F	287.4306	-2.535	57493.321	1.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4F
286.1168	-2.927	8680.454	1.5	D6S (5D)4D	43620.957	1.5	4P (5D)6P	287.4654	-3.369	8846.270	5.5	D6S (5D)4D	43620.957	1.5	4P (11)2D
286.1209	-0.713	54063.459	0.5	D6S (3P)2P	89003.460	0.5	4P (3P)2S	287.4852	-3.369	8846.270	5.5	D6S (5D)4D	43620.957	1.5	4P (11)2D
286.1538	-1.939	100492.020	3.5	5S (3F)2F	65556.280	4.5	4P (3H)2H	287.5349	-0.816	27314.922	3.5	D6S (3F)2F	62083.108	4.5	4P (3H)2G
286.1638	-4.908	73393.745	4.5	D5S2(7S)4F	38458.981	4.5	4P (5D)6D	287.5422	-2.191	105291.010	3.5	4D (3F)4G	70523.706	3.5	4P (3G)2G
286.1901	-1.446	30764.485	3.5	D6S (3G)2G	65696.038	4.5	4P (3G)4G	287.6804	-0.998	27314.922	3.5	D6S (3F)2F	62065.521	3.5	4P (3G)4G
286.2944	-3.165	57411.065	2.5	D5S2(7S)4F	92329.890	2.5	4SP(5G)4F	287.6804	-0.998	27314.922	3.5	D6S (3F)2F	62065.521	3.5	4P (3G)4G
286.4123	-0.927	78525.407	2.5	5S (5D)6D	43620.957	1.5	4P (5D)6P	287.7103	-2.904	73492.215	3.5	D5S2(7S)4F	108239.200	3.5	240DD
286.4377	-3.194	26055.423	2.5	D6S (3G)4G	60956.781	3.5	4P (3H)4G	287.7103	-2.904	73492.215	3.5	D5S2(7S)4F	108239.200	3.5	240DD
286.4972	-1.292	31483.176	3.5	D6S (3D)4D	66377.283	3.5	4P (3G)4F	287.7576	-2.610	99573.225	4.5	5S (3F)4F	64831.943	4.5	4P (3F)2G
286.5253	-3.194	38164.194	2.5	D6S (1D)2D	73054.881	2.5	4P (1G)2F	287.7576	-2.610	99573.225	4.5	5S (3F)4F	64831.943	4.5	4P (3F)2G
286.5271	-3.389	105414.180	2.5	4D (3F)4G	70523.706	3.5	4P (3G)2G	287.7991	-3.027	57578.484	0.5	D5S2(7S)4P	92314.758	0.5	5P (5D)4P
286.5459	-1.003	80177.975	1.5	5S (5D)4D	45289.801	1.5	4P (5D)4F	287.7991	-3.027	57578.484	0.5	D5S2(7S)4P	92314.758	0.5	5P (5D)4P
286.5784	-4.320	31364.440	1.5	D6S (3D)4D	66248.660	0.5	4P (3P)2S	287.8123	-2.496	73395.930	2.5	D5S2(7S)4F	108130.600	2.5	220DD
286.6001	-4.748	73492.215	3.5	D5S2(7S)4F	108373.800	3.5	260DD	287.8123	-2.496	73395.930	2.5	D5S2(7S)4F	108130.600	2.5	220DD
286.6038	-4.701	103983.510	3.5	5S (3G)2G	69102.380	2.5	4SP(5S)4P	287.8149	-2.141	73637.340	1.5	D5S2(7S)4F	108371.700	1.5	250DD
286.6114	-4.044	31368.450	0.5	D6S (3D)4D	66248.660	0.5	4P (3P)2S	287.8149	-2.141	73637.340	1.5	D5S2(7S)4F	108371.700	1.5	250DD
286.6201	-0.005	108630.429	5.5	5S (11)2I	73751.282	4.5	4P (11)2H	287.8170	-4.240	27314.922	3.5	D6S (3F)2F	62049.025	2.5	4SP(7S)6P
286.6544	-3.145	57578.484	0.5	D5S2(7S)4F	92453.460	0.5	4P (3F)4G	287.8170	-4.240	27314.922	3.5	D6S (3F)2F	62049.025	2.5	4SP(7S)6P
286.6838	-2.946	57411.065	2.5	D5S2(7S)4F	92282.460	3.5	4SP(5G)4F	287.8327	-3.915	57493.321	1.5	D5S2(7S)4F	92225.538	1.5	5P (5D)4P
286.7340	-3.533	57493.321	1.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F	287.8585	-3.360	58666.258	3.5	D6S (1G)2G	93395.360	2.5	4P (3F)4F
286.7524	-3.786	57411.065	2.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4P	287.9091	-3.923	57493.321	1.5	D5S2(7S)4F	92216.320	1.5	4P (3F)2D
286.7733	-3.972	31811.822	2.5	D7 (5D)2F	66672.334	3.5	4P (3G)4H	287.9245	-2.810	26170.181	5.5	D6S (3H)2H	60887.598	5.5	4P (3H)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
288.2506	0.243	108648.695	6.5	5S (1I)2I	73966.832	6.5	4P (1I)2I	290.0759	-3.945	58666.258	3.5	D6S (1G)2G	93129.900	3.5	4P (3F)4D	
288.2710	-1.600	108648.695	6.5	5S (1I)2I	73969.767	5.5	4P (1I)2I	290.0767	-2.818	99573.225	4.5	5S (3F)2F	95109.679	3.5	4P (3F)2G	
288.3259	-4.946	31999.048	3.5	D7 (5D)2F	66672.334	3.5	4P (3G)4H	290.1464	-5.147	26170.181	5.5	D6S (3H)2H	60625.449	5.5	4P (3H)4G	
288.3364	-2.460	100749.810	2.5	5S (3F)2F	66078.269	2.5	4P (3G)4G	290.1531	-5.182	26352.766	4.5	D6S (3H)2H	60807.230	4.5	4P (3H)4G	
288.3710	-0.625	26170.181	5.5	D6S (3H)2H	60837.569	6.5	4P (3H)4H	290.2062	-2.533	31483.176	3.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	
288.4025	-1.205	108630.429	5.5	5S (1I)2I	73966.832	6.5	4P (1I)2I	290.2319	-2.281	27620.412	2.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F	
288.4269	0.179	108630.429	5.5	5S (1I)2I	73969.767	5.5	4P (1I)2I	290.2463	-1.514	30388.542	4.5	D6S (3G)2G	64831.943	4.5	4P (3F)2G	
288.4765	-0.733	79439.467	3.5	5S (5D)4D	44784.761	2.5	4P (5D)4D	290.2775	-2.846	60441.033	1.5	D5S2(7S)4D	94880.740	1.5	4SP(5P)4P	
288.5402	-2.539	57578.484	0.5	D5S2(7S)4P	92225.538	1.5	5P (5D)4P	290.3390	-4.484	57411.065	2.5	D5S2(7S)4P	91843.470	1.5	5P (5D)6P	
288.5933	-1.420	32875.646	6.5	D6S (1I)2I	75156.332	5.5	4P (3G)2H	290.3566	-3.399	60270.339	3.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D	
288.6124	-2.883	73492.215	3.5	D5S2(7S)4F	108130.600	2.5	220DD	290.3710	-4.738	27620.412	2.5	D6S (3F)2F	62049.075	2.5	4SP(7S)6P	
288.6170	-4.351	57578.484	0.5	D5S2(7S)4P	92216.320	1.5	4P (3G)2H	290.4377	-3.449	25981.629	3.5	D6S (3H)4G	60402.342	2.5	4P (3F)4G	
288.6236	-3.028	26170.181	5.5	D6S (3H)2H	60807.230	4.5	4P (3H)4H	290.4598	-1.062	98294.401	5.5	5S (3H)4H	83876.317	2.5	4P (3F)4G	
288.6266	-3.206	66352.766	4.5	D6S (3H)2H	60989.444	4.5	4P (3H)4H	290.4880	-3.196	60270.339	3.5	D5S2(7S)4D	94685.090	2.5	4SP(5D)6P	
288.6459	-4.950	60445.275	2.5	D5S2(7S)4D	95079.640	3.5	4P (3F)2F	290.5704	-2.539	100492.020	3.5	5S (3F)2F	66078.269	2.5	4P (3G)4G	
288.6708	-3.827	105155.090	4.5	4D (3F)4G	70523.706	3.5	4P (3G)2G	290.5183	-1.926	27314.922	1.5	D6S (3F)2F	61726.077	1.5	4P (3P)4D	
288.7314	-1.578	27620.412	2.5	D6S (3F)2F	62244.520	1.5	4P (3F)4F	290.5704	-4.568	38214.507	1.5	D6S (1D)2D	72619.490	2.5	4P (3D)4D	
288.7647	-1.878	98568.912	3.5	5S (3H)4H	63948.790	4.5	4P (3F)4F	290.6124	-1.669	26932.748	0.5	D6S (3F)2P	64040.886	3.5	4P (3F)4G	
288.8095	-1.357	25787.598	1.5	D6S (3P)2P	60402.342	2.5	4P (3P)4P	290.6600	-2.164	73492.215	3.5	D5S2(7S)4F	107886.600	3.5	200DD	
288.8790	-3.211	32909.905	5.5	D6S (1I)2I	67516.332	5.5	4P (3G)2H	290.7856	-2.919	31999.048	3.5	D7 (5D)2F	66377.283	3.5	4P (3G)4F	
288.9257	-4.979	60445.275	2.5	D5S2(7S)4D	95046.100	2.5	4P (3F)2F	290.8073	-2.269	100983.510	3.5	5S (3G)2G	96066.552	3.5	4P (3G)2F	
288.9686	-2.895	79885.493	2.5	D7 (5D)4D	45289.801	1.5	4P (3G)4F	290.8448	-2.913	103747.810	2.5	5S (3F)2F	66377.283	3.5	4P (3G)4F	
288.9736	-4.430	31483.176	3.5	D6S (3D)4D	66078.269	2.5	4P (3G)4G	290.8657	-4.938	44915.046	3.5	D6S (1F)2F	79285.110	2.5	4SP(5S)6P	
288.9834	-3.917	60445.275	2.5	D5S2(7S)4D	95039.200	1.5	4P (3P)2P	290.9380	-2.234	49506.934	1.5	D6S (3F)2P	83868.450	2.5	4P (1F)2D	
289.0165	-4.310	10492.020	3.5	5S (3F)2F	66589.008	4.5	4P (3G)4H	290.9477	-3.523	38164.194	2.5	D6S (1D)2D	72524.566	1.5	4P (3D)4D	
289.0648	-3.182	102584.963	5.5	5S (3G)4G	68000.788	4.5	4P (3G)2H	290.9544	-4.818	79439.467	3.5	5S (5D)4D	45079.879	2.5	4P (5D)4F	
289.1006	-4.793	54273.641	4.5	D5S2(7S)4G	88853.533	3.5	5P (5G)6D	290.9729	-4.851	57493.321	1.5	D5S2(7S)4P	91850.722	0.5	4SP(5D)6F	
289.1110	-2.616	99688.337	3.5	5S (3F)4F	65109.679	3.5	4P (3F)2G	290.9973	-2.658	27620.412	2.5	D6S (3F)2F	61974.933	1.5	4SP(7S)6P	
289.1191	-1.844	98445.400	4.5	5S (3H)4H	63876.317	5.5	4P (3F)4G	291.0617	-4.079	26055.423	2.5	D6S (3G)4G	60402.342	2.5	4P (3F)4P	
289.1913	-4.796	54902.315	1.5	D6S (3P)2P	89471.365	0.5	5P (5D)6D	291.0728	-0.520	98294.401	5.5	5S (3H)4H	83948.790	4.5	4P (3F)4G	
289.2213	-3.342	31811.822	2.5	D7 (5D)2F	66377.283	3.5	4P (3G)4F	291.0763	-2.166	30764.485	3.5	D6S (3G)2G	65109.679	3.5	4P (3F)2G	
289.2613	-3.187	100492.020	3.5	5S (3F)2F	65931.334	3.5	4P (3G)4G	291.1795	-0.318	103983.510	2.5	5S (3G)2G	96950.484	2.5	4P (3G)2F	
289.2827	-2.690	8680.454	1.5	D6S (5D)4D	43238.586	2.5	4P (3D)6P	291.3074	-3.934	60445.275	2.5	D5S2(7S)4D	94763.219	3.5	4SP(5D)6P	
289.3151	-4.253	73637.340	1.5	D5S2(7S)4F	108191.600	1.5	230DD	291.3405	-1.511	44929.550	2.5	D6S (1F)2F	79243.600	1.5	4P (1D)2P	
289.3407	-5.340	27620.412	2.5	D6S (3F)2F	62171.615	3.5	4SP(7S)6P	291.3744	-4.226	38214.507	1.5	D6S (1D)2D	72524.566	1.5	4P (3D)4D	
289.4062	-2.002	31387.948	2.5	D6S (3D)4D	65931.334	3.5	4P (3G)4G	291.4757	-3.856	60441.033	1.5	D5S2(7S)4D	94739.170	1.5	4SP(5P)4P	
289.4779	-1.098	26352.766	4.5	D6S (3H)2H	60887.598	5.5	4P (3H)4H	291.5117	-2.705	60445.275	2.5	D5S2(7S)4D	94739.170	1.5	4SP(5P)4P	
289.4821	-3.327	33466.463	4.5	D6S (1G)2G	68000.788	4.5	4P (3G)2H	291.5968	-3.190	50075.910	1.5	D6S (3F)4F	84359.800	1.5	4P (1F)2D	
289.5087	-1.814	27620.412	2.5	D6S (3F)2F	62151.561	2.5	4P (3F)4F	291.6081	-1.956	98568.912	3.5	5S (3H)4H	64286.345	3.5	4P (3F)2F	
289.5220	-0.814	31483.176	3.5	D6S (3D)4D	66012.750	4.5	4P (3G)4F	291.6151	-3.021	7955.299	3.5	D6S (5D)4D	42237.033	3.5	4P (5D)6F	
289.5349	-1.150	98568.912	3.5	5S (3H)4H	64040.886	3.5	4P (3F)4G	291.6922	-3.601	26352.766	4.5	D6S (3H)2H	60625.449	5.5	4P (3H)4G	
289.5749	-4.658	10492.020	3.5	D7 (5D)2F	66522.304	2.5	4P (3G)4F	291.7083	-1.334	36252.918	2.5	D6S (3D)2D	70523.706	3.5	4P (3G)2G	
289.7266	-1.094	27620.412	2.5	D6S (3F)2F	62125.600	1.5	4P (3G)2D	291.7453	-2.554	31811.822	2.5	D7 (5D)2F	66078.269	2.5	4P (3F)2D	
289.7688	-1.697	99332.102	4.5	5S (3H)2H	64831.943	4.5	4P (3F)2G	291.7466	-2.597	8391.938	2.5	D6S (5D)4D	42658.224	3.5	4P (5D)6P	
289.7741	-1.555	33501.253	3.5	D6S (1G)2G	68000.788	4.5	4P (3G)2H	291.7873	-1.763	99093.452	5.5	5S (3H)2H	64831.943	4.5	4P (3F)2G	
289.7986	-0.966	98445.400	4.5	5S (3H)4H	63948.790	4.5	4P (3F)4G	291.8033	-4.653	60441.033	1.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D	
289.8006	-3.161	60384.370	0.5	D5S2(7S)4D	94763.219	3.5	4SP(5P)4P	291.8395	-3.597	60445.275	2.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D	
289.8268	-2.954	73637.340	1.5	D5S2(7S)4F	108130.600	2.5	220DD	291.8529	-0.424	98130.131	6.5	5S (3H)4H	83876.317	5.5	4P (3F)4G	
289.8300	-4.568	60270.339	3.5	D5S2(7S)4D	94763.219	3.5	4SP(5D)6P	291.9722	-4.264	60445.275	2.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D	
289.8302	-2.689	73393.745	4.5	D5S2(7S)4F	107886.600	3.5	200DD	292.0308	-3.762	58666.258	3.5	D6S (1G)2G	92889.200	2.5	4SP(5D)6P	
289.8440	-4.560	54232.195	5.5	D5S2(7S)4G	88723.400	4.5	5P (5D)6D	292.0772	-2.716	100749.810	2.5	5S (3F)2F	66522.304	2.5	4P (3G)4F	
289.8485	-2.169	73395.930	2.5	D5S2(7S)4F	107886.600	3.5	200DD	292.1206	-2.071	99332.102	4.5	5S (3H)2H	65109.679	3.5	4P (3F)2G	
289.8736	-1.791	38164.194	2.5	D6S (1D)2D	72651.876	3.5	4P (3D)4D	292.1668	-2.986	50142.786	2.5	D6S (3F)2F	84359.800	1.5	4P (1F)2D	
289.9257	-0.634	98568.912	3.5	5S (3H)4H	64087.418	2.5	4P (3F)4G	292.1822	-2.734	38214.507	1.5	D6S (1D)2D	72429.711	0.5	4P (3D)4D	
289.9444	-2.499	100492.020	3.5	5S (3F)2F	66012.750	4.5	4P (3G)4F	292.2022	-1.197	31483.176	3.5	D6S (3D)4D	65696.038	4.5	4P (3G)4G	
290.0014	-2.551	73492.215	3.5	D5S2(7S)4F	107964.700	4.5	210DD	292.2298	-1.461	99573.225	4.5	5S (3F)4F	65363.595	5.5	4P (3H)2H	

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
292.3307	-2.065	108804.667	3.5	5S (3D)4D	295.4052	-1.542	27314.922	3.5	D6S (3F)2F	61156.835	3.5	4P (3H)4H
292.3317	-1.902	27314.922	3.5	D6S (3F)2F	295.4193	-1.588	99918.569	1.5	5S (3F)4F	66078.269	2.5	4P (3G)4G
292.4162	-2.541	38164.194	2.5	D6S (1D)2D	295.4332	-3.285	93263.694	0.5	6S (3D)4D	69426.980	1.5	4SP(5S)4P
292.6195	-4.040	57411.065	2.5	D5S2(7S)4P	295.5222	-3.198	38214.507	1.5	D6S (1D)2D	72043.026	0.5	4P (3D)4P
292.6585	-1.333	7955.299	3.5	D6S (5D)4P	295.5994	-4.484	100492.020	3.5	5S (3F)2F	66672.334	3.5	4P (3G)4H
292.6625	-1.102	98445.400	4.5	5S (3H)4H	295.6289	-3.170	103118.400	1.5	6S (5D)4D	69302.090	1.5	4SP(5S)4P
292.7661	-4.212	50212.826	2.5	D6S (3P)4P	295.7671	-3.140	38164.194	2.5	D6S (1D)2D	71964.710	2.5	4P (3D)4P
292.7958	-0.934	98568.912	3.5	5S (3H)4H	295.7731	-3.187	78843.992	0.5	5S (5D)6D	45044.168	1.5	4P (5D)4D
292.8503	-0.966	100749.810	2.5	5S (3F)2F	295.7906	-4.421	84359.800	1.5	D5S2(7S)4F	91208.887	1.5	5P (5D)4F
292.8940	-3.120	99688.337	3.5	5S (3F)4F	295.8114	-2.199	58631.531	4.5	D6S (1G)2G	92426.980	4.5	4SP(5G)4F
292.9082	-4.798	78577.280	4.5	D5S2(7S)2G	295.8369	-4.404	50075.910	1.5	D6S (3F)4F	83868.450	2.5	4P (1F)2D
293.0017	-3.703	31811.822	2.5	D7 (5D)2F	295.8520	-1.662	78237.685	3.5	5S (5D)6D	44446.878	3.5	4P (5D)4D
293.0427	-2.962	100492.020	3.5	5S (3F)2F	295.8816	-3.543	60270.339	3.5	D5S2(7S)4D	94057.380	2.5	4SP(5P)6D
293.1207	-4.152	27620.412	2.5	D6S (3P)2F	295.8952	-3.543	60270.339	3.5	D5S2(7S)4D	94057.380	2.5	4SP(5P)6D
293.1475	-2.746	26932.748	0.5	D6S (3P)2P	295.9139	-4.963	54275.637	2.5	D5S2(7S)4G	88059.380	2.5	4SP(5P)6D
293.1595	-0.567	54902.315	1.5	D6S (3P)2P	295.9599	-1.008	27314.922	3.5	D6S (3F)2D	61093.413	2.5	4P (3F)2D
293.3481	-3.167	31999.048	3.5	D7 (5D)2F	295.9803	-4.592	54283.220	3.5	D5S2(7S)4G	88059.380	2.5	4SP(5P)6D
293.3541	-4.859	78525.407	2.5	5S (3D)6D	295.9833	-0.297	99332.102	4.5	5S (3H)2H	65556.280	4.5	4P (3H)2H
293.3631	-4.735	100749.810	2.5	5S (3F)2F	295.9835	-0.777	44915.046	3.5	D6S (1F)2F	78690.846	2.5	4P (1D)2D
293.3683	-4.048	105063.550	5.5	4D (3F)4G	296.0181	-3.089	73993.745	4.5	D5S2(7S)4F	107165.600	3.5	170DD
293.4008	-3.639	31483.176	3.5	D6S (3D)4D	296.0202	-3.285	78525.407	2.5	5S (5D)6D	44753.799	3.5	4P (5D)4F
293.4494	-2.312	30764.485	3.5	D6S (3G)2G	296.0282	-3.929	60441.033	1.5	D5S2(7S)4D	94211.739	2.5	4SP(5P)4P
293.6010	-1.716	33466.463	4.5	D6S (1G)2G	296.0372	-2.755	73395.930	2.5	D5S2(7S)4F	107165.600	3.5	170DD
293.7801	-3.039	58666.258	3.5	D6S (1G)2G	296.0653	-4.272	60445.275	2.5	D5S2(7S)4D	94211.739	2.5	4SP(5P)4P
293.8242	-3.385	38214.507	1.5	D6S (1D)2D	296.1107	-2.781	99332.102	4.5	5S (3H)2H	78690.846	2.5	4P (1D)2D
293.8852	-0.568	99573.225	4.5	5S (3F)4F	296.1157	-3.346	58666.258	3.5	D6S (1G)2G	92426.980	4.5	4SP(5G)4F
293.8932	-4.191	103118.400	1.5	6S (5D)4D	296.1276	-2.556	8680.454	1.5	D6S (5D)4D	42439.822	0.5	4P (5D)6F
293.9132	-4.303	31999.048	3.5	D7 (5D)2F	296.1483	-1.697	99688.337	3.5	5S (3F)4F	65931.334	3.5	4P (3G)4G
293.9507	-2.598	8391.938	2.5	D6S (5D)4D	296.1495	-3.857	57411.065	2.5	D5S2(7S)4F	91167.937	3.5	5P (5D)6P
293.9869	-3.284	78237.685	3.5	5S (3D)6D	296.1917	-1.436	99332.102	4.5	5S (3H)2H	65580.041	5.5	4P (3G)4G
293.9901	-3.580	38164.194	2.5	D6S (1D)2D	296.2160	-1.756	100749.810	2.5	5S (3F)2F	70000.517	2.5	4P (3F)2D
294.0113	-0.206	103608.909	4.5	5S (3G)2G	296.2469	-2.003	99824.045	2.5	5S (3F)4F	66078.269	2.5	4P (3G)4G
294.0449	-4.789	38214.507	1.5	D6S (1D)2D	296.2919	-1.827	78525.407	2.5	5S (5D)6D	44784.761	2.5	4P (5D)4D
294.0906	-1.960	99573.225	4.5	5S (3F)4F	296.3242	-2.974	98568.912	3.5	5S (3H)4H	64831.943	4.5	4P (3F)2G
294.0983	-1.560	99688.337	3.5	5S (3F)4F	296.3867	-0.463	99093.452	5.5	5S (3H)2H	65363.595	5.5	4P (3H)2H
294.2281	-2.877	58631.531	4.5	D6S (1G)2G	296.4133	-1.722	27314.922	3.5	D6S (3F)2F	61041.748	2.5	4P (3H)4G
294.2938	-0.985	100492.020	3.5	5S (3F)2F	296.4235	-3.417	50142.786	2.5	D6S (3F)4F	83868.450	2.5	4P (1F)2D
294.3043	-3.978	103265.694	0.5	6S (3D)4D	296.4623	-1.739	13904.824	0.5	D7 (5D)4P	47626.076	0.5	4P (5D)4P
294.3468	-3.978	103265.694	0.5	6S (3D)4D	296.4659	-2.940	8680.454	1.5	D6S (5D)4D	42401.302	1.5	4P (5D)6F
294.4258	-4.637	38214.507	1.5	D6S (1D)2D	296.4987	-3.220	60270.339	3.5	D5S2(7S)4D	93987.457	3.5	4SP(5S)4P
294.4396	-1.011	13673.185	1.5	D7 (5D)4P	296.5033	-1.481	13673.185	1.5	D7 (5D)4P	47389.779	1.5	4P (5D)4P
294.5265	-3.094	8391.938	2.5	D6S (5D)4D	296.5284	-2.787	50157.452	4.5	D6S (3F)4F	83871.184	4.5	4P (1F)2G
294.5393	-3.078	94211.739	2.5	4SP(5P)4P	296.5406	-2.298	27620.412	2.5	D6S (3F)2F	61332.764	1.5	4P (3F)4P
294.5426	-3.508	78725.790	1.5	5S (3D)6D	296.5927	-4.919	73493.321	1.5	D5S2(7S)4F	91199.746	0.5	5P (5D)4D
294.5879	-4.838	54273.641	4.5	D5S2(7S)4G	296.6142	-3.924	73493.321	1.5	D5S2(7S)4F	107196.200	2.5	180DD
294.6185	-3.319	31999.048	3.5	D5S2(7S)4G	296.6499	-3.237	102802.312	2.5	6S (5D)4D	69102.380	2.5	4SP(5S)4P
294.6710	-4.833	54283.220	3.5	D5S2(7S)4G	296.6758	-2.785	31999.048	3.5	D7 (5D)2F	65696.038	4.5	4P (3G)4G
294.7654	-0.974	13474.411	2.5	D7 (5D)4P	296.7248	-3.285	103118.400	1.5	6S (5D)4D	69426.980	0.5	4SP(5S)4P
294.8729	-3.293	30388.542	4.5	D6S (3G)2G	296.7460	-4.779	54275.637	2.5	D5S2(7S)4G	87964.650	1.5	4SP(5P)6D
294.9182	-0.625	30888.542	4.5	D6S (3G)2G	296.7957	-3.101	50187.813	3.5	D6S (3F)4F	83871.184	4.5	4P (1F)2G
294.9625	-1.561	99824.045	2.5	5S (3F)4F	296.8111	-2.123	78725.790	1.5	5S (5D)6D	45044.168	1.5	4P (5D)4D
295.0833	-2.904	38164.194	2.5	D6S (1D)2D	296.8198	-3.375	50187.813	3.5	D6S (3F)4F	83868.450	2.5	4P (1F)2D
295.0891	-3.963	60170.339	3.5	D5S2(7S)4D	296.8333	-3.268	32909.905	5.5	D6S (11)2I	66589.008	4.5	4P (3G)4H
295.0977	-1.734	99573.225	4.5	5S (3F)4F	296.8643	-1.781	99688.337	3.5	5S (3F)4F	66012.750	4.5	4P (3G)4F
295.1092	-2.414	25787.598	1.5	D6S (3P)2P	296.8737	-3.025	27314.922	3.5	D6S (3F)2F	60989.444	4.5	4P (3H)4H
295.2504	-3.603	104174.270	5.5	4D (3H)4I	296.8838	-3.025	73492.215	3.5	D5S2(7S)4F	107165.600	3.5	170DD
295.3775	-1.417	8391.938	2.5	D6S (5D)4D	296.9144	-4.351	99918.569	1.5	5S (3F)4F	66248.660	0.5	4P (3P)2S
					296.9232	-1.766	103983.510	3.5	5S (3G)2G	70314.604	4.5	4P (3G)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
296.9698	-3.008	58666.258	3.5	D6S (1G)2G	92329.890	2.5	4SP(5G)4F	298.5090	-2.503	57411.065	2.5	D5S2(7S)4F	90901.124	2.5	5P (5D)4P
296.9937	-0.825	30764.485	3.5	D6S (3G)2G	64425.408	2.5	4P (3F)2F	298.5282	-4.820	58666.258	3.5	D6S (1G)2G	92154.165	3.5	4SP(5D)6F
297.0064	-2.641	57411.065	2.5	D5S2(7S)4F	91070.547	2.5	5P (3D)4F	298.5290	-3.300	57411.065	2.5	D5S2(7S)4F	90898.873	1.5	4P (3P)4P
297.0404	-3.450	50212.826	2.5	D6S (3P)4F	83868.450	2.5	4P (1F)2D	298.5293	-3.315	30388.542	4.5	D6S (3G)2G	63876.317	5.5	4P (3F)4G
297.0515	-1.651	8680.454	1.5	D6S (5D)4D	42334.822	2.5	4P (5D)6F	298.5519	-2.312	58631.531	4.5	D6S (1G)2G	92116.780	4.5	4SP(5G)4H
297.0694	-1.041	30388.542	4.5	D6S (3G)2G	64040.886	3.5	4P (5D)6F	298.5545	-1.043	13904.824	0.5	D7 (5D)4P	47389.779	1.5	4P (5D)4F
297.0819	-3.941	58631.531	4.5	D6S (1G)2G	92282.460	3.5	4SP(5G)4F	298.5640	-2.147	78237.685	3.5	5S (5D)6D	44753.799	1.5	4P (5D)4F
297.1165	-3.196	60384.370	0.5	D5S2(7S)4D	94031.378	0.5	4SP(5D)6D	298.5876	-3.024	78252.407	2.5	5S (5D)6D	45044.168	1.5	4P (5D)4D
297.1262	-3.464	78725.790	1.5	5S (5D)6D	45079.879	2.5	4P (5D)4F	298.6345	-0.540	100749.810	2.5	5S (3F)2F	67273.826	1.5	4P (3F)2D
297.1617	-3.514	99573.225	4.5	5S (3F)4F	65931.334	3.5	4P (3G)4G	298.6611	-2.007	27620.412	2.5	D6S (3F)2F	61093.413	1.5	4P (3F)2D
297.1820	-3.956	27314.922	3.5	D6S (3F)2F	60956.781	3.5	4P (3H)4G	298.6899	-3.249	57578.484	0.5	D5S2(7S)4F	91048.256	1.5	5P (5D)4D
297.2001	-2.457	78843.992	0.5	5S (5D)6D	45206.450	0.5	4P (5D)4D	298.6912	-3.564	31364.440	1.5	D6S (3D)4D	64834.073	1.5	4P (3F)2P
297.2032	-3.828	57411.065	2.5	D5S2(7S)4D	91048.256	1.5	5P (5D)4D	298.6927	-4.361	73393.745	4.5	D5S2(7S)4F	106863.200	3.5	160DD
297.2132	-1.552	99332.102	4.5	5S (3H)2H	65696.038	4.5	4P (3G)4G	298.7123	-3.788	73393.930	2.5	D5S2(7S)4F	106863.200	3.5	160DD
297.2243	-2.122	105763.270	5.5	4D (3F)2H	72130.390	4.5	4P (1G)2H	298.7270	-3.706	31368.450	0.5	D6S (3D)4D	64834.073	1.5	4P (3P)2P
297.2632	-3.630	57578.484	0.5	D5S2(7S)4P	91208.887	1.5	5P (5D)4F	298.7552	-1.463	98294.401	5.5	5S (3H)4H	64831.943	1.5	4P (3F)2G
297.2746	-2.003	77861.625	4.5	5S (5D)6D	44232.512	4.5	4P (5D)4F	298.7615	-4.291	105630.750	2.5	5D (5D)4G	72168.998	1.5	4P (3D)4F
297.2848	-4.032	60445.275	2.5	D5S2(7S)4D	94073.240	3.5	4SP(5G)4G	298.7789	-0.115	103983.510	3.5	5S (3G)2G	70523.706	3.5	4P (3G)2G
297.2977	-3.854	31483.176	3.5	D6S (3D)4D	65109.679	3.5	4P (3F)2G	298.7840	-2.689	98568.912	3.5	5S (3H)4H	65109.679	3.5	4P (3F)2G
297.3440	-1.030	57578.484	0.5	D5S2(7S)4P	91199.746	0.5	5P (5D)4D	298.7858	-4.585	105589.420	3.5	4D (3F)4H	72130.390	4.5	4P (1G)2H
297.3888	-1.823	58666.258	3.5	D6S (1G)2G	92282.460	3.5	4SP(5G)4F	298.8131	-4.771	60384.370	0.5	D5S2(7S)4D	93840.340	1.5	4SP(5D)6D
297.4131	-4.664	98445.400	4.5	5S (3H)4H	64831.943	4.5	4P (3F)2G	298.8404	-3.860	78237.685	3.5	5S (5D)6D	44784.761	2.5	4P (5D)4D
297.4206	-4.573	73393.745	4.5	D5S2(7S)4F	107006.350	4.5	4SP(3I)2H	298.8618	-3.415	58666.258	3.5	D6S (1G)2G	92116.780	4.5	4SP(5G)4H
297.4431	-4.497	99688.337	2.5	5S (3F)4F	60078.269	2.5	4P (3G)4G	298.8712	-4.565	105644.180	2.5	4D (3F)4G	71964.710	2.5	4P (3D)4P
297.4631	-4.077	26055.423	2.5	D6S (3G)4F	59663.456	1.5	4P (3P)4S	298.8954	-2.033	99824.045	2.5	5S (3F)4F	66377.283	3.5	4P (3G)4F
297.4626	-4.077	58666.258	3.5	D6S (1G)2G	92274.120	2.5	4P (3P)4P	298.9011	-4.018	31274.948	2.5	D6S (3D)4D	64834.073	1.5	4P (3F)2P
297.5937	-2.545	8846.768	0.5	D6S (5D)4D	42439.822	0.5	4P (5D)6F	298.9064	-2.573	78525.407	2.5	5S (5D)6D	45079.879	2.5	4P (5D)4F
297.6177	-3.198	60441.033	1.5	D5S2(7S)4D	94031.378	0.5	4SP(5D)6D	298.9376	-3.478	31364.440	1.5	D6S (3D)4D	64806.487	0.5	4P (3F)2P
297.6395	-2.561	32875.646	6.5	D6S (1I)2I	66463.528	5.5	4P (3G)4H	298.9734	-3.152	31368.450	0.5	D6S (3D)4D	64806.487	0.5	4P (3F)2P
297.6409	-4.836	105630.750	2.5	5D (5D)4G	72043.026	1.5	4P (5D)4F	298.9822	-3.588	103751.660	5.5	4D (3H)4H	70314.604	4.5	4P (3G)2G
297.7340	-3.109	57493.321	1.5	D5S2(7S)4P	91070.547	2.5	5P (5D)4F	298.9917	-3.201	78725.790	1.5	5S (5D)6D	45289.801	1.5	4P (5D)4F
297.8812	-3.988	60270.339	3.5	D5S2(7S)4D	93830.979	2.5	4SP(5D)6D	299.1079	-3.942	58666.258	3.5	D6S (1G)2G	92089.260	3.5	4SP(5G)4H
297.8826	-1.775	99573.225	4.5	5S (3F)4F	66012.750	4.5	4P (3G)4F	299.1228	-2.691	77861.625	4.5	D6S (3F)2F	61041.748	2.5	4P (3H)4G
297.8846	-2.388	30388.542	4.5	D6S (3G)2G	63948.790	2.5	4P (3F)4G	299.1818	-1.841	77861.625	4.5	5S (5D)6D	44446.878	3.5	4P (5D)4P
297.8970	-3.263	73637.340	1.5	D5S2(7S)4F	107196.200	2.5	180DD	299.2440	-3.612	57493.321	1.5	D5S2(7S)4P	90901.124	2.5	5P (5D)4P
297.9081	-1.304	44929.550	2.5	D6S (1F)2F	78487.153	1.5	4P (1D)2D	299.2642	-2.952	57493.321	1.5	D5S2(7S)4P	90898.873	1.5	4P (3F)4P
297.9114	-2.045	31999.048	3.5	D7 (5D)2F	65556.280	4.5	4P (3H)2H	299.3070	-4.073	99332.102	4.5	5S (3H)2H	65931.334	3.5	4P (3G)4G
297.9318	-4.217	57493.321	1.5	D5S2(7S)4P	91048.256	1.5	5P (5D)4D	299.3201	-3.487	60441.033	1.5	D5S2(7S)4D	93840.340	1.5	4SP(5D)6D
297.9384	-3.943	8846.768	0.5	D6S (5D)4D	42401.302	1.5	4P (5D)6F	299.3357	-2.284	36252.918	2.5	D6S (3D)2D	69650.484	2.5	4P (3G)2F
298.0011	-4.300	78843.992	0.5	5S (5D)6D	45289.801	1.5	4P (5D)4F	299.3581	-3.323	99093.452	5.5	5S (3H)2H	65696.038	4.5	4P (3G)4F
298.0628	-1.317	32909.905	5.5	D6S (1I)2I	66463.528	5.5	4P (3G)4H	299.3474	-2.316	99918.569	1.5	5S (3F)4F	66522.304	2.5	4P (3G)4F
298.0896	-1.624	99093.452	5.5	5S (3H)2H	61156.835	3.5	4P (3H)4H	299.3744	-2.316	99918.569	1.5	5S (3F)4F	66522.304	2.5	4P (3G)4F
298.0963	-1.961	27620.412	2.5	D6S (1G)2G	92171.716	4.5	4P (3F)2G	299.3835	-4.779	60445.275	2.5	D5S2(7S)4D	93840.340	1.5	4SP(5D)6D
298.2059	-0.612	36126.387	1.5	D6S (3F)2F	61156.835	3.5	4P (3H)4H	299.4421	-3.761	60445.275	2.5	D5S2(7S)4D	93840.340	1.5	4SP(5D)6D
298.2258	-1.705	30764.485	3.5	D6S (3G)2G	45206.450	0.5	4P (3D)4D	299.4421	-3.761	60445.275	2.5	D5S2(7S)4D	93840.340	1.5	4SP(5D)6D
298.2482	-2.835	78725.790	1.5	5S (5D)6D	45206.450	0.5	4P (3D)4D	299.5742	-2.521	73492.215	3.5	D5S2(7S)4F	106863.200	3.5	160DD
298.2945	-4.530	73492.215	3.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	299.5870	-3.802	57411.065	2.5	D5S2(7S)4P	90780.621	3.5	5P (5D)4F
298.3010	-0.322	99093.452	5.5	5S (3H)2H	65580.041	5.5	4P (3G)4G	299.7545	-3.004	104315.370	6.5	4D (3H)2K	70986.677	6.5	4P (1I)2K
298.3718	-2.462	58666.258	3.5	D6S (1G)2G	92171.716	4.5	4P (3F)2G	299.7738	-4.182	31483.176	3.5	D6S (3D)4D	64831.943	4.5	4P (3F)2G
298.4045	-4.923	32909.905	5.5	D6S (1I)2I	66411.686	6.5	4P (3G)4H	299.7972	-4.585	57493.321	1.5	D5S2(7S)4P	90839.480	0.5	4P (3P)4P
298.4067	-3.691	105763.270	5.5	4D (3F)2H	72261.729	5.5	4P (1G)2H	299.8852	-2.543	27620.412	2.5	D6S (3F)2F	60956.781	3.5	4P (3H)4G
298.4184	-2.881	102802.312	2.5	6S (5D)4D	69302.090	1.5	4SP(5S)4P	299.8911	-1.782	98445.400	4.5	5S (3H)4H	65109.679	3.5	4P (3F)2G
298.4269	-3.331	33501.253	3.5	D6S (1G)2G	67000.517	2.5	4P (3G)2D	299.9543	-4.100	104315.370	6.5	4D (3H)2K	70986.677	6.5	4P (1I)2K
298.4825	-0.611	13474.411	2.5	D7 (5D)4P	46967.444	2.5	4P (5D)4P	299.9759	-4.505	54275.637	2.5	D5S2(7S)4G	87602.250	1.5	4SP(5G)6F
298.4889	-2.186	27314.922	3.5	D6S (3F)2F	60807.230	4.5	4P (3H)4G	300.0062	-1.106	30764.485	3.5	D6S (3G)2G	64087.418	2.5	4P (3F)4G
298.4961	-0.300	100492.020	3.5	5S (3F)2F	67000.517	2.5	4P (3F)2D	300.0291	-3.078	57578.484	0.5	D5S2(7S)4P	90898.873	1.5	4P (3P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
300.0384	-1.955	99332.102	4.5	5S (3H)2H	66012.750	4.5	4P (3G)4F	-3.001	301.9299	-3.001	31999.048	3.5	D7 (5D)2F	65109.679	3.5	4P (3F)2G
300.1132	-1.509	99688.337	3.5	5S (3F)4F	66377.283	3.5	4P (3G)4F	-2.685	301.9384	-2.685	99573.225	4.5	5S (3F)4F	66463.528	5.5	4P (3G)4H
300.1595	-1.832	99918.569	1.5	5S (3F)4F	66612.656	1.5	4P (3G)4F	-3.421	301.9467	-3.421	54232.195	5.5	D5S2(7S)4G	87340.983	5.5	48P(5G)6F
300.1971	-1.648	99824.045	2.5	5S (3F)4F	66522.304	2.5	4P (3G)4F	-2.914	302.0009	-2.914	32909.905	5.5	D6S (11)2I	66012.750	4.5	48P(5G)6F
300.2321	-1.548	31811.822	2.5	D7 (5D)2F	65109.679	3.5	4P (3F)2G	-4.456	302.0252	-4.456	57493.321	1.5	D5S2(7S)4F	90593.497	1.5	5P (5D)6F
300.2417	-4.457	54275.637	2.5	D5S2(7S)4G	87572.431	2.5	4SP(5G)6F	-3.978	302.0330	-3.978	99688.337	3.5	5S (3F)4F	66589.008	4.5	4P (3G)4H
300.2450	-2.686	73393.745	4.5	D5S2(7S)4F	106690.170	5.5	4SP(3I)2H	-4.710	302.0495	-4.710	105449.540	3.5	5D (5D)4G	72352.024	3.5	4P (3G)4F
300.2641	-0.016	103608.909	4.5	5S (3G)2G	70314.604	4.5	4P (3G)2G	-2.824	302.1386	-2.824	30501.253	3.5	D6S (1G)2G	66589.008	4.5	4P (3G)4H
300.2646	-1.038	13673.185	1.5	D7 (5D)4P	46967.444	2.5	4P (5D)4P	-2.602	302.1417	-2.602	27314.922	3.5	D6S (3F)2F	60402.342	2.5	4P (3F)4P
300.2819	-2.608	102394.718	3.5	6S (5D)4D	69102.380	2.5	4SP(5S)4P	-2.258	302.1619	-2.258	103608.909	4.5	5S (3G)2G	70523.706	3.5	4P (3G)2G
300.3101	-4.009	54283.220	3.5	D5S2(7S)4G	87572.431	2.5	4SP(5G)6F	-3.568	302.1661	-3.568	105127.770	2.5	5D (5D)4D	72043.026	1.5	4P (3D)4D
300.3257	-1.748	30764.485	3.5	D6S (3G)2G	64040.886	3.5	4P (3F)4G	-2.639	302.1930	-2.639	98445.400	4.5	5S (3H)4H	65363.595	5.5	4P (3H)2H
300.4257	-3.713	105398.852	5.5	4D (3F)4H	72130.390	4.5	4P (1G)2H	-4.590	302.2278	-4.590	104064.670	6.5	4D (3H)4I	70986.677	6.5	4P (1I)2K
300.4974	-3.724	54273.641	4.5	D5S2(7S)4G	87537.652	3.5	4SP(5G)6F	-4.474	302.3251	-4.474	54273.641	4.5	D5S2(7S)4G	87340.983	5.5	48P(5G)6F
300.5376	-4.116	57578.484	0.5	D5S2(7S)4P	90839.480	0.5	4P (3P)4P	-4.990	302.3805	-4.990	105230.290	5.5	5D (5D)4F	72168.998	1.5	4P (3G)4F
300.5648	-3.923	54283.220	3.5	D5S2(7S)4G	87537.652	3.5	4SP(5G)6F	-2.480	302.3834	-2.480	31364.440	1.5	D6S (3D)4D	64425.408	2.5	4P (3F)2F
300.6242	-3.923	105414.180	2.5	4D (3F)4G	72168.998	1.5	4P (3D)4F	-2.269	302.4609	-2.269	105291.010	3.5	4D (3F)4G	72238.513	2.5	4P (3D)4F
300.7078	-2.325	54232.195	5.5	D5S2(7S)4G	87471.765	4.5	4SP(5G)6F	-2.400	302.4708	-2.400	57578.484	0.5	D5S2(7S)4P	90629.902	1.5	4P (3F)4S
300.7586	-3.643	78525.407	2.5	5S (5D)6D	45289.801	1.5	4P (5D)4F	-4.853	302.4914	-4.853	36252.918	2.5	D6S (3D)2D	69302.090	1.5	48P(5S)4P
300.7945	-1.523	102842.119	4.5	5S (3G)4G	69606.552	3.5	4P (3G)2F	-4.772	302.5536	-4.772	60445.275	2.5	D5S2(7S)4D	93487.650	3.5	4P (3F)4F
300.8295	-4.993	102334.112	2.5	6S (5D)6D	69102.380	2.5	4SP(5S)4P	-3.075	302.5986	-3.075	31387.948	2.5	D6S (3D)4D	64425.408	2.5	4P (3F)2F
300.8655	-3.014	57411.065	2.5	D5S2(7S)4P	90638.822	2.5	5P (5D)4D	-4.253	302.6484	-4.253	102334.112	2.5	6S (5D)6D	69302.090	1.5	48P(5S)4P
300.9148	-1.904	44915.046	3.5	D6S (1F)2F	78137.364	3.5	4P (1D)2F	-4.134	302.7155	-4.134	105155.090	4.5	4D (3F)4G	72130.390	4.5	4P (1G)2H
300.9463	-1.798	57411.065	2.5	D5S2(7S)4P	90629.902	1.5	4P (3P)4S	-3.608	302.7490	-3.608	31811.822	2.5	D7 (5D)2G	64834.073	1.5	4P (3F)2F
300.9601	-2.543	60270.339	3.5	D5S2(7S)4D	93487.650	3.5	4P (3F)4F	-3.772	302.7833	-3.772	105230.290	0.5	5D (5D)4D	66522.304	2.5	4P (3G)4F
300.9880	-3.483	60270.339	3.5	D5S2(7S)4D	93487.650	3.5	4P (3F)4F	-2.476	302.7953	-2.476	99688.337	3.5	5S (3F)4F	66672.334	3.5	4P (3G)4H
301.0138	-4.252	99824.045	2.5	5S (3F)4F	66612.656	1.5	4P (3G)4F	-2.603	302.8262	-2.603	85668.912	3.5	5S (3H)4H	65556.280	4.5	4P (3G)4H
301.0171	-4.109	105449.540	3.5	5D (5D)4G	72238.513	2.5	4P (3D)4F	-2.603	302.8691	-2.603	33466.463	4.5	D6S (1G)2G	66463.528	5.5	4P (3G)4H
301.0216	-1.700	80177.975	1.5	5S (5D)4D	46967.444	2.5	4P (5D)4P	-4.435	302.9927	-4.435	57493.321	1.5	D5S2(7S)4P	90487.810	2.5	5P (5D)6F
301.0462	-3.670	44929.550	2.5	D6S (1F)2F	78137.364	3.5	4P (1D)2F	-3.123	302.9973	-3.123	57411.065	2.5	D5S2(7S)4P	90539.868	3.5	5P (5D)4D
301.0638	-4.086	33466.463	4.5	D6S (1G)2G	66672.334	3.5	4P (3G)4H	-2.428	303.0633	-2.428	99573.225	4.5	5S (3F)4F	66589.008	4.5	4P (3G)4H
301.1341	-4.086	108804.667	3.5	5S (3D)4D	75600.931	3.5	4P (3D)2D	-4.478	303.0871	-4.478	36126.387	1.5	D6S (3D)2D	69102.380	2.5	48P(5S)4P
301.1541	-4.147	85495.304	2.5	4D (5D)6S	87471.765	4.5	4SP(5G)6F	-3.850	303.1627	-3.850	105589.420	3.5	4D (3F)4D	72618.998	1.5	4P (3D)4D
301.1539	-2.961	99573.225	4.5	5S (3F)4F	66377.283	3.5	4P (3G)4F	-1.552	303.2211	-1.552	105127.770	2.5	5D (5D)4D	72168.998	1.5	4P (3D)4D
301.2210	-4.609	54283.220	3.5	D5S2(7S)4G	87471.765	4.5	4SP(5G)6F	-3.089	303.3444	-3.089	99332.102	4.5	5S (3H)2H	66377.283	3.5	4P (3G)4F
301.2326	-4.766	105230.290	0.5	5D (5D)4D	72043.026	1.5	4P (3D)4P	-3.347	303.3575	-3.347	60441.033	1.5	D5S2(7S)4D	93395.360	2.5	4P (3F)4F
301.2595	-4.038	30764.485	3.5	D6S (3G)2G	63948.790	4.5	4P (3F)4G	-2.288	303.3620	-2.288	60441.033	1.5	D5S2(7S)4D	93395.360	2.5	4P (3F)4F
301.2765	-4.230	57411.065	2.5	D5S2(7S)4P	90593.497	1.5	5P (5D)6F	-4.104	303.4010	-4.104	105291.010	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F
301.3376	-4.760	36126.387	1.5	D6S (3D)2D	69302.090	1.5	4SP(5S)4P	-3.135	303.4561	-3.135	60384.370	0.5	D5S2(7S)4D	93328.480	1.5	4P (3F)4F
301.3379	-2.713	105414.180	2.5	4D (3F)4G	72238.513	2.5	4P (3G)4F	-2.288	303.4734	-2.288	105291.010	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F
301.3796	-3.097	10524.461	4.5	4D (3F)4H	72352.024	3.5	4P (3D)4F	-4.609	303.5033	-4.609	105589.420	3.5	4D (3F)4G	64425.408	2.5	4P (3D)4D
301.4525	-3.643	105127.770	2.5	5D (5D)4D	71964.710	2.5	4P (3D)4P	-3.114	303.5166	-3.114	105589.420	3.5	4D (3F)4G	72650.658	4.5	4P (3D)4F
301.4579	-3.176	50142.786	2.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	-2.788	303.5570	-2.788	98294.401	5.5	5S (3F)4G	72651.876	3.5	4P (3D)4D
301.4747	-3.769	105291.010	3.5	4D (3F)4G	72130.390	4.5	4P (1G)2G	-3.592	303.5787	-3.592	102030.912	3.5	6S (5D)6D	69102.380	2.5	48P(5S)4P
301.5003	-3.602	87327.685	3.5	5S (5D)6D	45079.879	2.5	4P (5D)4F	-2.988	303.5996	-2.988	99918.569	1.5	5S (3F)4F	67000.517	2.5	4P (3F)2D
301.5557	-3.865	99824.045	2.5	5S (3F)4F	66672.334	3.5	4P (3G)4H	-0.828	303.6963	-0.828	79885.493	2.5	5S (5D)4D	46967.444	2.5	4P (5D)4P
301.5913	-4.926	50142.786	2.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	-4.182	303.6963	-4.182	85495.304	2.5	4D (5D)6S	52582.510	3.5	48P(7S)8P
301.6122	-2.810	57493.321	1.5	D5S2(7S)4P	90638.822	2.5	5P (5D)4D	-3.128	303.7448	-3.128	33466.463	4.5	D6S (1G)2G	66377.283	3.5	4P (3G)4F
301.6885	-4.992	105398.852	5.5	4D (3F)4H	72261.729	5.5	4P (1G)2H	-3.369	303.7630	-3.369	104873.230	3.5	5D (5D)4D	71964.710	2.5	4P (3D)4P
301.6934	-2.051	57493.321	1.5	D5S2(7S)4P	90629.902	1.5	4P (3P)4S	-3.073	303.7843	-3.073	99573.225	4.5	5S (3F)4F	66672.334	3.5	4P (3G)4H
301.7257	-3.250	104119.710	7.5	4D (3H)2K	70986.677	6.5	4P (1I)2K	-2.162	303.8547	-2.162	31387.948	2.5	D6S (3D)4D	64286.345	3.5	4P (3F)2F
301.7987	-4.436	60270.339	3.5	D5S2(7S)4D	93395.360	2.5	4P (3F)4F	-3.100	303.9243	-3.100	105155.090	4.5	4D (3H)4I	72261.729	5.5	4P (1G)2K
301.8213	-3.334	33466.463	4.5	D6S (1G)2G	66589.008	4.5	4P (3G)4H	-3.838	303.9400	-3.838	103878.340	7.5	4D (3H)4I	70986.677	6.5	4P (1I)2K
301.8678	-3.977	50187.813	3.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	-3.640	303.9400	-3.640	105414.180	2.5	4D (3F)4G	72524.566	1.5	4P (3D)4D
301.8748	-4.921	102543.648	1.5	6S (5D)6D	69426.980	0.5	4SP(5S)4P	-3.633	303.9589	-3.633	57411.065	2.5	D5S2(7S)4P	90300.625	3.5	5P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
303.9635	-3.055	98445.400	4.5	5S (3H)4H	306.3881	-2.826	60270.339	3.5	D5S2(7S)4D	92899.200	2.5	4P (3F)4D
303.9789	-4.403	60441.033	1.5	D5S2(7S)4D	306.5316	-1.653	31811.822	2.5	D7 (5D)2F	64425.408	2.5	4P (3F)2F
304.0181	-4.482	60445.275	2.5	D5S2(7S)4D	306.6194	-3.335	31483.176	3.5	D6S (3D)4D	64087.418	1.5	4P (3F)4G
304.0229	-4.861	104315.370	6.5	4D (3H)2K	306.6292	-4.178	105127.770	2.5	5D (5D)4D	72524.566	1.5	4P (3D)4D
304.0845	-2.664	33501.253	3.5	D6S (1G)2G	306.6747	-2.659	98294.401	5.5	5S (3H)4H	65696.038	4.5	4P (3G)4G
304.1051	-3.893	105524.461	4.5	4D (3F)4H	306.7779	-4.920	104630.430	1.5	5D (5D)6P	72043.026	1.5	4P (3D)4P
304.1137	-4.477	98568.912	3.5	5S (3H)4H	306.8110	-3.314	105589.420	3.5	4D (3F)4H	73016.147	3.5	4P (1G)2F
304.1164	-3.399	105524.461	4.5	4D (3F)4H	307.0315	-4.634	105211.140	4.5	5D (5D)4G	72650.658	4.5	4P (3D)4F
304.1535	-2.846	99332.102	4.5	5S (3H)2H	307.0430	-4.434	105211.140	4.5	5D (5D)4G	72650.658	4.5	4P (3D)4F
304.1832	-3.130	98445.400	4.5	5S (3H)4H	307.0577	-2.602	31483.176	3.5	D6S (3D)4D	64040.886	3.5	4P (3F)4G
304.2009	-4.553	104828.160	2.5	5D (5D)6D	307.0691	-1.707	33501.253	3.5	D6S (1G)2G	62945.038	3.5	4P (3F)4D
304.2369	-2.499	60270.339	3.5	D5S2(7S)4D	307.0723	-4.124	98568.912	3.5	5S (3H)4H	66012.750	4.5	4P (3G)4F
304.2410	-4.157	105211.140	4.5	5D (5D)4G	307.1125	-0.951	80177.975	1.5	5S (5D)4D	47626.076	0.5	4P (5D)4P
304.3304	-4.384	36252.918	2.5	D6S (3D)2D	307.1283	-2.015	99824.045	2.5	5S (3F)4F	67273.826	1.5	4P (3F)2D
304.4840	-1.660	31999.048	3.5	D7 (5D)2F	307.1655	-2.597	98130.131	6.5	5S (3H)4H	65580.041	5.5	4P (3G)4G
304.5323	-2.189	44915.046	3.5	D6S (1F)2F	307.1796	-1.573	33466.463	4.5	D6S (1G)2G	66012.750	4.5	4P (3G)4F
304.5709	-2.541	99824.045	2.5	5S (3F)4F	307.2764	-4.019	105589.420	3.5	4D (3F)4H	73054.881	2.5	4P (1G)2F
304.6670	-1.879	44929.550	2.5	D6S (1F)2F	307.3427	-1.449	102842.119	4.5	5S (3G)4G	70314.604	4.5	4P (3G)2G
304.7599	-2.129	31483.176	3.5	D6S (3D)4D	307.4699	-2.543	98445.400	4.5	5S (3H)4H	65931.334	3.5	4P (3G)4G
304.7609	-2.187	105155.090	4.5	4D (3F)4G	307.5226	-2.161	30764.485	3.5	D6S (3G)2G	63272.976	2.5	4P (3F)4D
304.7725	-3.939	105063.550	5.5	4D (3F)4G	307.5243	-3.723	105524.461	4.5	4D (3F)4H	73016.147	3.5	4P (1G)2F
304.7840	-4.381	105230.290	0.5	5D (5D)4D	307.5609	-2.311	99027.770	2.5	5D (5D)4D	72619.400	2.5	4P (3D)4D
304.8387	-2.974	105414.180	2.5	4D (3F)4G	307.5610	-2.907	103155.090	4.5	4D (3F)4G	72650.658	4.5	4P (3D)4F
304.8991	-0.789	80177.975	1.5	5S (5D)4D	307.5725	-2.605	105155.090	4.5	4D (3F)4G	72650.658	4.5	4P (3D)4F
304.9183	-2.259	32909.905	5.5	D6S (1I)2I	307.5725	-2.605	105155.090	4.5	4D (3F)4G	72650.658	4.5	4P (3D)4F
304.9276	-4.354	104828.160	2.5	5D (5D)6D	307.6235	-3.791	105589.420	3.5	4D (3F)4H	73091.590	4.5	4P (1G)2G
304.9574	-3.733	27620.412	2.5	D6S (3F)2F	307.6435	-0.561	79885.493	2.5	5S (5D)4D	47389.779	1.5	4P (5D)4P
305.1007	-4.014	98130.131	6.5	5S (3H)4H	307.6793	-4.748	54275.637	2.5	D5S2(7S)4G	86767.577	2.5	4P (3P)4D
305.1401	-3.094	105414.180	2.5	4D (3F)4G	307.6860	-2.899	100492.020	3.5	5S (3G)2F	68000.788	4.5	4P (3G)2H
305.2607	-3.058	98445.400	4.5	5S (3H)4H	307.6915	-2.554	98568.912	3.5	5S (3H)4H	66078.269	2.5	4P (3G)4G
305.2716	-2.553	105398.852	5.5	4D (3F)4H	307.7170	-0.755	32875.646	6.5	D6S (1I)2I	65363.595	5.5	4P (3H)2H
305.3191	-1.587	99332.102	4.5	5S (3H)2H	307.7875	-2.732	54063.459	0.5	D6S (3F)2F	86543.974	1.5	4P (3P)4D
305.3414	-3.282	104705.420	3.5	5D (5D)6D	307.8313	-4.709	103127.770	2.5	5D (5D)4D	72651.876	3.5	4P (3D)4D
305.3655	-2.979	98294.401	5.5	5S (3H)4H	307.8443	-2.570	31811.822	2.5	D7 (5D)2F	64286.345	3.5	4P (3F)2F
305.4347	-6.424	26932.748	0.5	D6S (3F)2P	307.8680	-0.279	79439.467	3.5	5S (5D)4D	46967.444	2.5	4P (5D)4P
305.5068	-2.968	31364.440	1.5	D6S (3D)4D	307.9358	-3.142	33466.463	4.5	D6S (1G)2G	65931.334	3.5	4P (3G)4G
305.5352	-0.913	80346.016	0.5	5S (5D)4D	307.9994	-3.722	60441.033	1.5	D5S2(7S)4D	92899.200	2.5	4P (3F)4D
305.5873	-2.133	98294.401	5.5	5S (3H)4H	308.0397	-2.071	60445.275	2.5	D5S2(7S)4D	92899.200	2.5	4P (3F)4D
305.6680	-4.331	105230.290	0.5	5D (5D)4D	308.0419	-2.470	32909.905	5.5	D6S (1I)2I	65363.595	5.5	4P (3H)2H
305.6804	-1.111	32875.646	6.5	D6S (1I)2I	308.1137	-3.828	105589.420	3.5	4D (3F)4H	71432.680	7.5	4P (1G)2G
305.7265	-3.131	31387.948	2.5	D6S (3D)4D	308.1181	-3.874	103878.340	7.5	4D (3H)4I	73143.288	3.5	4P (1G)2G
305.8354	-1.706	99688.337	3.5	5S (3F)4F	308.2396	-4.776	105524.461	4.5	4D (3F)4H	73091.590	4.5	4P (1G)2G
305.8428	-3.513	104119.710	7.5	4D (3H)2K	308.2417	-2.664	98445.400	4.5	5S (3H)4H	66012.750	4.5	4P (3G)4F
305.8921	-4.959	99093.452	5.5	5S (3H)2H	308.2662	-2.854	33501.253	3.5	D6S (1G)2G	65931.334	3.5	4P (3G)4G
305.9865	-1.253	105763.270	5.5	4D (3F)4G	308.3015	-2.250	31999.048	3.5	D7 (5D)2F	64425.408	2.5	4P (3F)2F
305.9880	-3.001	105291.010	3.5	4D (3F)4G	308.3141	-3.050	10430.339	3.5	D5S2(7S)4D	92899.200	2.5	4P (3P)2D
306.0010	-2.841	32909.905	5.5	D6S (1I)2I	308.3379	-4.993	106380.940	3.5	5D (5D)6F	71964.710	2.5	4P (3D)4F
306.0423	-4.922	104630.430	1.5	5D (5D)6P	308.4296	-1.968	105063.550	5.5	4D (3F)4G	72650.658	4.5	4P (3D)4F
306.0981	-2.353	99332.102	4.5	5S (3H)2H	308.4419	-2.470	32909.905	5.5	D6S (1I)2I	65363.595	5.5	4P (3H)2H
306.1334	-4.644	54273.641	4.5	D5S2(7S)4G	308.5711	-3.312	105414.180	2.5	4D (3F)4G	73016.147	3.5	4P (1G)2F
306.1622	-2.909	31387.948	2.5	D6S (3D)4D	308.7318	-3.336	105524.461	4.5	4D (3F)4H	73143.288	3.5	4P (1G)2G
306.2237	-4.914	54283.220	3.5	D5S2(7S)4G	308.9384	-1.655	38164.194	2.5	D6S (1D)2D	70523.706	3.5	4P (3G)2G
306.2323	-0.735	32909.905	5.5	D6S (1I)2I	308.9405	-3.236	105414.180	2.5	4D (3F)4G	73054.881	2.5	4P (1G)2F
306.2390	-2.245	9918.569	1.5	5S (3F)4F	309.1979	-3.314	60270.339	3.5	D5S2(7S)4D	92607.703	3.5	4P (3F)2G
306.2802	-3.378	105291.010	3.5	4D (3F)4F	309.3313	-4.225	102842.119	4.5	4D (3F)4G	70523.706	3.5	4P (3G)2G
306.2916	-3.140	105291.010	3.5	4D (3F)4G	309.4381	-2.626	105398.852	5.5	5S (3G)4H	73091.590	4.5	4P (1G)2G
306.3062	-3.079	98568.912	3.5	5S (3H)4H	309.6295	-1.731	31999.048	3.5	D7 (5D)2F	64286.345	3.5	4P (3F)2F
306.3781	-0.986	99093.452	5.5	5S (3H)2H	309.6836	-2.137	98294.401	5.5	5S (3H)4H	66012.750	4.5	4P (3G)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
309.7417	-1.982	31811.822	2.5	D7 (5D)2F	64087.418	2.5	4P (3F)4G	312.1614	-3.537	54904.222	3.5	D6S (3F)2F	86929.649	3.5	4P (3P)4D
309.7487	-3.281	105291.010	3.5	4D (3F)4G	73016.147	3.5	4P (1G)2F	312.2260	-4.879	103983.510	3.5	5S (3G)2G	71964.710	2.5	4P (3D)4P
309.7599	-3.244	30388.542	4.5	D6S (3G)2G	62662.244	5.5	4P (3H)2I	312.2881	-3.103	60441.033	1.5	D5S2(7S)4D	92453.460	0.5	4P (3F)4D
309.7776	-4.029	54275.637	2.5	D5S2(7S)4G	86547.490	2.5	4P (1F)2F	312.2911	-3.265	60270.339	3.5	D5S2(7S)4D	92282.460	3.5	4SP(5G)4F
309.7869	-3.478	105414.180	2.5	4D (3F)4G	73143.288	3.5	4P (1G)2G	312.2924	-2.648	105763.270	5.5	4D (3F)2H	73751.282	4.5	4P (11)2H
309.7920	-3.888	102584.963	5.5	5S (3G)4G	70314.604	4.5	4P (3G)2G	312.2942	-4.359	105155.090	4.5	4D (3F)4G	73143.288	3.5	4P (1G)2G
309.8504	-4.963	54283.220	3.5	D5S2(7S)4G	86547.490	2.5	4P (1F)2F	312.3725	-1.682	60270.339	3.5	D5S2(7S)4D	92274.120	2.5	4P (3P)4P
309.8613	-4.327	60484.370	0.5	D5S2(7S)4D	92647.510	1.5	4P (3F)4D	312.5865	-1.923	98445.400	4.5	5S (3H)4H	66463.528	5.5	4P (3G)4H
309.9458	-3.220	60441.033	1.5	D5S2(7S)4D	92647.510	1.5	4P (3F)4D	312.6058	-2.080	98568.912	3.5	5S (3H)4H	66589.008	4.5	4P (3G)4H
309.9516	-4.727	104873.230	3.5	5D (5D)4D	72619.490	2.5	4P (3D)4D	312.6611	-2.232	60384.370	0.5	D5S2(7S)4D	92358.610	1.5	4SP(5G)4F
309.9866	-4.561	60445.275	2.5	D5S2(7S)4D	92695.374	2.5	4P (3P)2D	312.6834	-3.341	105063.550	5.5	4D (3F)4G	73091.590	4.5	4P (1G)2G
310.1209	-3.998	105291.010	3.5	4D (3F)4G	73054.881	2.5	4P (1G)2F	312.7303	-3.966	84266.556	3.5	4D (5D)6F	52299.390	2.5	4SP(7S)8P
310.1840	-2.907	33466.463	4.5	D6S (1G)2G	6596.038	4.5	4P (3G)4G	312.9009	-2.610	31999.048	3.5	D7 (5D)2F	63948.790	4.5	4P (3F)4G
310.1889	-2.251	31811.822	2.5	D7 (5D)2F	64040.886	3.5	4P (3F)4G	313.0095	-4.902	105127.770	2.5	5D (5D)4D	73189.110	1.5	4P (3H)2P
310.2274	-4.385	105414.180	2.5	4D (3F)4G	73189.110	1.5	4P (3D)2P	313.0562	-3.282	30388.542	4.5	D6S (3G)2G	62322.431	3.5	4P (3H)2G
310.4735	-4.260	54283.220	3.5	D5S2(7S)4G	86482.750	3.5	4P (1F)2F	313.0905	-1.889	60270.339	3.5	D5S2(7S)4D	92314.758	0.5	5P (5D)4P
310.4745	-3.848	105291.010	3.5	4D (3F)4G	73091.590	4.5	4P (1G)2G	313.3753	-2.700	33466.463	4.5	D6S (1G)2G	63563.595	5.5	4P (3F)2G
310.3458	-3.831	104863.430	5.5	5D (5D)4G	72650.658	4.5	4P (3D)4F	313.4170	-2.893	33466.463	4.5	D6S (1G)2G	63563.595	5.5	4P (3F)2G
310.3811	-4.276	54273.641	4.5	D5S2(7S)4G	86482.750	3.5	4P (1F)2F	313.4178	-3.084	54870.528	2.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D
310.5192	-4.305	33501.253	3.5	D6S (1G)2G	6596.038	4.5	4P (3G)4G	313.4224	-1.050	98568.912	3.5	5S (3H)4H	66672.334	3.5	4P (3G)4H
310.5497	-3.635	98568.912	3.5	5S (3H)4H	66377.283	3.5	4P (3G)4F	313.4224	-1.050	98568.912	3.5	5S (3H)4H	66672.334	3.5	4P (3G)4H
310.5554	-1.722	31368.450	0.5	D6S (3D)4D	63359.488	0.5	4P (3F)4D	313.4983	-2.070	60441.033	1.5	D5S2(7S)4D	92358.610	1.5	4SP(5G)4F
310.6565	-1.675	30764.485	3.5	D6S (3G)2G	62945.038	3.5	4P (3F)4D	313.5360	-1.135	31387.948	2.5	D6S (3D)4D	92358.610	1.5	4SP(5G)4F
310.7801	-4.984	103600.440	6.5	4D (3H)4H	71432.680	7.5	4P (11)2K	313.5478	-4.539	98294.401	5.5	5S (3G)4H	66414.686	6.5	4P (3G)4H
310.8573	-2.496	105763.270	5.5	4D (3F)2H	73603.500	5.5	4P (11)2H	313.5587	-1.883	60270.339	3.5	D5S2(7S)4D	92171.716	4.5	4P (3F)2G
310.8800	-2.276	60445.275	2.5	D5S2(7S)4D	92602.703	3.5	4P (3F)2G	313.6472	-3.207	60441.033	1.5	D5S2(7S)4D	92171.716	4.5	4P (3F)2G
310.8876	-1.768	60270.339	3.5	D5S2(7S)4D	92426.980	4.5	4SP(5G)4F	313.7305	-2.393	54904.222	3.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D
310.9738	-2.845	105291.010	3.5	4D (3F)4G	73143.288	3.5	4P (1G)2G	313.7492	-3.881	54904.222	3.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D
311.0588	-4.155	105155.090	4.5	4D (3F)4G	73016.147	3.5	4P (1G)2F	313.8178	-1.000	98445.400	4.5	5S (3H)4H	66589.008	4.5	4P (3G)4H
311.1200	-3.761	57493.321	1.5	D5S2(7S)4P	89625.940	1.5	4SP(5P)6P	313.8501	-1.590	103983.510	3.5	5S (3G)2G	72130.390	4.5	4P (1G)2H
311.1940	-4.420	84424.370	1.5	4D (5D)6P	52299.390	2.5	4SP(7S)8P	313.8501	-1.590	103983.510	3.5	5S (3G)2G	72130.390	4.5	4P (1G)2H
311.3045	-2.838	33466.463	4.5	D6S (1G)2G	6596.038	4.5	4P (3G)4G	313.9679	-3.436	60384.370	0.5	D5S2(7S)4D	92116.780	4.5	4SP(5G)4H
311.4297	-1.460	31364.440	1.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	313.9679	-3.436	60384.370	0.5	D5S2(7S)4D	92116.780	4.5	4SP(5G)4H
311.4686	-1.831	31368.450	0.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	313.9977	-3.616	105589.420	3.5	4D (3F)4H	73751.282	4.5	4P (11)2H
311.5350	-2.512	33466.463	4.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H	314.0004	-4.576	57493.321	1.5	D5S2(7S)4P	89331.195	1.5	5P (5D)6D
311.5490	-2.513	31999.048	3.5	D7 (5D)2F	64087.418	2.5	4P (3F)4G	314.0071	-2.125	60445.275	2.5	D5S2(7S)4D	92282.460	3.5	4SP(5G)4F
311.5727	-4.928	104705.420	3.5	5D (5D)6D	72619.490	2.5	4P (3D)4D	314.0476	-3.250	60445.275	2.5	D5S2(7S)4D	92274.120	2.5	4P (3P)4P
311.6579	-1.507	31387.948	2.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	314.0694	-0.880	98294.401	5.5	5S (3H)4H	66463.528	5.5	4P (3G)4H
311.7363	-2.805	60384.370	0.5	D5S2(7S)4D	92455.460	0.5	4P (3F)4D	314.0894	-2.353	60445.275	2.5	D5S2(7S)4D	92274.120	2.5	4P (3P)4P
311.7458	-2.534	98445.400	4.5	5S (3H)4H	66377.283	3.5	4P (3G)4F	314.2185	-2.192	99332.102	4.5	5S (3H)2H	67516.332	5.5	4P (3G)2H
311.7907	-3.077	105155.090	4.5	4D (3F)4G	73091.590	4.5	4P (1G)2G	314.2223	-4.563	13474.411	2.5	D7 (5D)4P	45289.801	1.5	4P (5D)4F
311.8291	-2.139	60270.339	3.5	D5S2(7S)4D	92329.890	2.5	4SP(5G)4F	314.4096	-3.443	105763.270	5.5	4D (3F)2H	73966.832	6.5	4P (11)2I
311.8550	-2.419	99573.225	4.5	5S (3F)4F	67516.332	5.5	4P (3G)2H	314.4203	-3.342	105398.852	5.5	4D (3F)4H	73603.500	5.5	4P (11)2H
311.8731	-2.598	33501.253	3.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H	314.4386	-3.381	105763.270	5.5	4D (3F)2H	73969.767	5.5	4P (11)2I
311.8866	-2.625	104315.370	6.5	4D (3H)2K	72261.729	5.5	4P (1G)2H	314.4752	-1.633	31483.176	3.5	D6S (3D)4D	63272.976	2.5	4P (3F)4D
311.8875	-4.917	104705.420	3.5	5D (5D)6D	72651.876	3.5	4P (3D)4D	314.5276	-2.259	60441.033	1.5	D5S2(7S)4D	92272.976	2.5	4P (3F)4D
311.9468	-3.956	57578.484	0.5	D5S2(7S)4P	89625.940	1.5	4SP(5P)6P	314.5418	-6.863	30388.542	4.5	D6S (3G)2G	62171.615	3.5	4SP(7S)6P
311.9550	-3.312	98568.912	3.5	5S (3H)4H	66522.304	2.5	4P (3G)4F	314.5696	-1.912	60445.275	2.5	D5S2(7S)4D	92225.538	1.5	5P (5D)4P
311.9852	-4.500	79885.493	2.5	5S (5D)4D	111929.000	2.5	2900D	314.6189	-4.486	60441.033	1.5	D5S2(7S)4D	92216.320	1.5	4P (3P)2D
311.9897	-4.564	27620.412	2.5	D6S (3F)2F	59663.456	1.5	4P (3P)4S	314.6397	-4.191	105524.461	4.5	4D (3F)4H	73751.282	4.5	4P (11)2H
312.0015	-2.371	31999.048	3.5	D7 (5D)2F	64040.886	3.5	4P (3F)4G	314.6408	-1.925	98445.400	4.5	5S (3H)4H	66672.334	3.5	4P (3G)4H
312.0115	-2.542	77230.900	4.5	D5S2(7S)2H	109271.710	5.5	4SP(31)2I	314.6755	-1.540	30388.542	4.5	D6S (3G)2G	66672.334	3.5	4P (3F)4F
312.0837	-4.341	57411.065	2.5	D5S2(7S)4P	89444.458	2.5	4SP(5P)6P	314.8426	-4.163	57578.484	0.5	D5S2(7S)4P	89331.195	1.5	5P (5D)6D
312.1174	-3.772	60270.339	3.5	D5S2(7S)4D	92300.277	4.5	4SP(5D)6F	314.8503	-8.071	20830.582	2.5	D6S (3P)4P	52582.510	3.5	4SP(7S)8P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
314.8593	-3.825	80177.975	1.5	5S (5D)4D	111929.000	2.5	290DD	317.6831	-8.518	20830.582	2.5	D6S (3P)4P	52299.390	2.5	4SF(7S)8P
314.8854	-4.569	60270.339	3.5	D5S2(7S)4D	92018.729	2.5	4SF(5D)6F	317.7079	-4.307	60384.370	0.5	D5S2(7S)4D	91850.722	0.5	4SP(5D)6F
314.9150	-2.329	103983.510	3.5	5S (3G)2G	72238.513	2.5	4P(7D)4F	317.7252	-2.875	31364.440	1.5	D6S (3D)4D	62829.075	0.5	4P (3F)4D
314.9290	-4.130	84326.912	2.5	4D (5D)6P	52582.510	3.5	4SF(7S)8P	317.7532	-0.931	31483.176	3.5	D6S (3D)4D	62945.038	3.5	4P (3F)4D
315.1827	-0.775	98130.131	6.5	5S (3H)4H	66411.686	6.5	4P (3C)4H	317.7604	-2.944	31811.822	2.5	D7 (5D)2F	63272.976	2.5	4P (3F)4D
315.1921	-4.316	57411.065	2.5	D5S2(7S)4D	92158.561	3.5	4SF(5D)6F	317.7657	-2.613	31368.450	0.5	D6S (3D)4D	62829.075	0.5	4P (3F)4D
315.2777	-3.410	60445.275	2.5	D5S2(7S)4D	89119.457	2.5	5P (5D)6D	317.7715	-2.831	105063.550	5.5	4D (3F)4G	73603.500	5.5	4P (1I)2H
315.3125	-1.774	98294.401	5.5	5S (3H)4H	82124.165	3.5	4SF(3P)6P	317.8961	-4.665	100749.810	2.5	5S (3F)2F	69302.090	1.5	4SF(5S)4P
315.4202	-0.527	30388.542	4.5	D6S (3G)2G	62083.108	4.5	4P (3H)2G	317.9177	-3.900	73492.215	3.5	D5S2(7S)4F	104937.800	4.5	4SF(3I)4H
315.4589	-4.361	83990.063	1.5	4D (5D)6D	52299.390	2.5	4SF(7S)8P	317.9503	-0.902	38164.194	2.5	D6S (1D)2D	69606.552	3.5	4P (3G)2F
315.5119	-2.727	105288.847	6.5	4D (3F)4H	73603.500	5.5	4P (1I)2H	318.0149	-1.133	38214.507	1.5	D6S (1D)2D	69650.484	2.5	4P (3G)2F
315.5249	-4.318	84266.556	3.5	4D (5D)6P	52582.510	3.5	4SF(7S)8P	318.1262	-4.488	57578.484	0.5	D5S2(7S)4F	89003.460	0.5	4P (3P)2S
315.5953	-2.433	30388.542	4.5	D6S (3G)2G	62065.521	3.5	4P (3F)4F	318.1457	-3.505	73393.745	4.5	D5S2(7S)4F	104816.800	5.5	4SF(3I)4H
315.6076	-3.819	77230.900	4.5	D5S2(7S)2H	86547.490	2.5	4P (1F)2F	318.2810	-3.948	60441.033	1.5	D5S2(7S)4D	91850.722	0.5	4SF(5D)6F
315.6305	-3.977	54870.528	2.5	D6S (3F)2F	66543.974	1.5	4P (3G)4D	318.3070	-5.533	13673.185	1.5	D7 (5D)4P	45079.879	2.5	4P (5D)4F
315.6987	-1.985	98130.131	6.5	5S (3H)4H	108906.640	3.5	4SF(3G)4H	318.3114	-2.581	13673.185	1.5	D7 (5D)4P	45079.879	2.5	4P (5D)4F
315.8315	-4.607	31811.822	2.5	D7 (5D)2F	63465.109	1.5	4P (3F)4D	318.3407	-4.010	103155.090	4.5	4D (3F)4G	73751.282	4.5	4P (1I)2H
315.8886	-3.280	105398.852	5.5	4D (3F)4H	73751.282	4.5	4P (1I)2H	318.3773	-4.728	77230.900	4.5	D5S2(7S)2H	108631.090	3.5	4SF(3G)4G
315.9244	-4.818	60445.275	2.5	D5S2(7S)4D	92089.260	3.5	4SF(5G)4H	318.4439	-2.889	30764.485	3.5	D6S (3G)2G	62158.110	4.5	4P (3F)4F
315.9315	-2.812	54904.222	3.5	D6S (3F)2F	86547.490	2.5	4P (1F)2F	318.5104	-2.780	30764.485	3.5	D6S (3G)2G	62151.561	2.5	4P (3F)4F
315.9320	-3.594	33466.463	4.5	D6S (1G)2G	65109.679	3.5	4P (3F)2G	318.5317	-3.290	13904.824	0.5	D7 (5D)4P	45289.801	1.5	4P (5D)4F
315.9476	-3.465	54902.315	1.5	D6S (3P)2P	86543.974	1.5	4P (3P)4D	318.6738	-1.683	13673.185	1.5	D7 (5D)4P	45044.168	1.5	4P (5D)4D
316.0374	-3.756	73395.930	2.5	D5S2(7S)4F	105028.600	3.5	4SF(3I)4H	318.7297	-1.041	33466.463	4.5	D6S (1G)2G	64831.943	4.5	4P (3F)2G
316.0492	-1.955	103983.510	3.5	5S (3G)2G	72352.024	3.5	4P (3D)4F	318.7445	-3.390	103983.510	3.5	5S (3G)2G	72619.490	2.5	4P (3D)4D
316.1027	-4.506	57493.321	1.5	D5S2(7S)4P	89119.457	2.5	5P (5D)6D	318.9157	-1.396	103608.909	4.5	5S (3G)2G	72261.729	5.5	4P (1G)2H
316.1979	-3.288	13673.185	1.5	D7 (5D)4P	45289.801	1.5	4P (5D)4F	318.9923	-4.686	77230.900	4.5	D5S2(7S)2H	108570.560	4.5	4SF(3G)4G
316.2418	-4.686	54870.528	2.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F	319.0019	-4.244	103600.440	6.5	4D (3H)4H	72261.729	5.5	4P (1G)2H
316.2798	-1.145	33501.253	3.5	D6S (1G)2G	65109.679	3.5	4P (3F)2G	319.0139	-3.147	30388.542	4.5	D6S (3G)2G	61726.077	1.5	4P (3P)4D
316.3094	-3.167	13474.411	2.5	D7 (5D)4P	45079.879	2.5	4P (5D)4F	319.0294	-3.050	78725.590	1.5	5S (5D)6D	47389.779	1.5	4P (5D)4P
316.3865	-2.856	31364.440	1.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.0616	-4.805	103983.510	3.5	5S (3G)2G	72650.658	4.5	4P (3D)4F
316.4267	-3.096	31368.450	0.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.0740	-1.833	103983.510	3.5	5S (3G)2G	72651.876	3.5	4P (3D)4D
316.5793	-1.863	54904.222	3.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F	319.0773	-0.657	99332.102	4.5	5S (3H)2H	68000.788	4.5	4P (3G)2H
316.5804	-3.385	77230.900	4.5	D5S2(7S)2H	108809.310	5.5	4SF(3G)4H	319.0836	-2.112	33501.253	3.5	D6S (1G)2G	64831.943	4.5	4P (3F)2G
316.5876	-3.449	60441.033	1.5	D5S2(7S)4D	92018.729	2.5	4SF(3D)6F	319.1371	-2.938	31364.440	1.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
316.5934	-0.376	99093.452	5.5	5S (3H)2H	67516.332	5.5	4P (3G)2H	319.1720	-4.181	105288.847	6.5	4D (3F)4H	73969.767	5.5	4P (1I)2I
316.6221	-4.060	31387.948	2.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.2017	-4.966	105288.847	6.5	4D (3F)4H	73969.767	5.5	4P (1I)2I
316.6301	-4.386	60445.275	2.5	D5S2(7S)4D	92018.729	2.5	4SF(5D)6F	319.2066	-2.154	30764.485	3.5	D6S (3G)2G	62083.108	4.5	4P (3H)2G
316.6403	-1.019	99573.225	4.5	5S (3F)4F	68000.788	4.5	4P (3G)2H	319.2713	-1.432	105063.550	5.5	4D (3F)4G	73751.282	4.5	4P (1I)2H
316.6672	-2.932	13474.411	2.5	D7 (5D)4P	45044.168	1.5	4P (3D)4D	319.2909	-1.875	13474.411	2.5	D7 (5D)4P	44784.761	2.5	4P (5D)4D
316.6760	-4.497	47674.721	1.5	D7 (5D)2D	79243.600	1.5	4P (1D)2P	319.3768	-3.283	31387.948	2.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
316.6809	-2.911	98568.912	3.5	5S (3H)4H	67000.517	2.5	4P (3F)2D	319.3799	-1.733	13904.824	0.5	D7 (5D)4P	45206.450	0.5	4P (5D)4D
316.7856	-2.845	78525.407	2.5	5S (5D)6D	46967.444	2.5	4P (5D)4P	319.3859	-1.509	30764.485	3.5	D6S (3G)2G	62065.521	3.5	4P (3F)4F
316.7857	-0.729	30764.485	3.5	D6S (3G)2G	62922.431	3.5	4P (3G)2G	319.5543	-6.297	30764.485	3.5	D6S (3G)2G	62049.025	2.5	4SF(7S)6P
316.7943	-2.537	31387.948	2.5	D6S (3D)4D	62345.038	3.5	4P (3F)4D	319.6070	-2.219	13474.411	2.5	D7 (5D)4P	44753.799	3.5	4P (5D)4F
316.8495	-2.573	105155.090	4.5	4D (3F)4G	73603.500	5.5	4P (1I)2H	319.6117	-4.371	73393.745	4.5	D5S2(7S)4F	42114.818	4.5	4P (5D)6F
317.0637	-2.530	105291.010	3.5	4D (3F)4G	73751.282	4.5	4P (1I)2H	319.6628	-3.297	31999.048	3.5	D7 (5D)2F	63272.976	2.5	4P (3F)4D
317.0506	-3.727	60384.370	0.5	D5S2(7S)4D	45206.450	0.5	4P (5D)4D	319.7005	-2.024	78237.685	3.5	5S (5D)6D	46967.444	2.5	4P (5D)4P
317.1308	-4.383	104174.270	5.5	4D (3H)4I	72650.658	4.5	4P (3D)4F	319.8170	-3.619	58631.531	4.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
317.2383	-4.518	83812.316	2.5	4D (5D)6D	52299.390	2.5	4SF(7S)8P	319.8371	-2.442	103608.909	4.5	5S (3G)2G	72352.024	3.5	4P (3D)4G
317.2383	-3.991	57493.321	1.5	D5S2(7S)4P	89003.460	0.5	4SF(3P)2S	319.8771	-3.610	77230.900	4.5	D5S2(7S)2H	108483.870	5.5	4SF(3G)4G
317.4700	-3.471	103751.660	5.5	4D (3H)4H	72261.729	5.5	4P (1G)2H	320.1144	-4.149	83812.316	2.5	4D (5D)6D	52582.510	3.5	4SF(7S)8P
317.5067	-2.132	38164.194	2.5	D6S (1D)2D	69650.484	2.5	4P (3G)2F	320.1728	-3.343	58666.258	3.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
317.5851	-2.300	103608.909	4.5	5S (3G)2G	72130.390	4.5	4P (1G)2H	320.2363	-3.468	78843.992	0.5	5S (5D)6D	47626.076	0.5	4P (5D)4P
317.6214	-4.361	60441.033	1.5	D5S2(7S)4D	91915.950	1.5	4SF(5D)6F	320.3514	-3.337	31483.176	3.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
317.6642	-4.191	60445.275	2.5	D5S2(7S)4D	91915.950	1.5	4SF(5D)6F	320.3739	-2.598	48039.090	2.5	D7 (5D)2D	79243.600	1.5	4P (1D)2P
					91915.950	1.5	4SF(5D)6F	320.4213	-4.471	44929.550	2.5	D6S (1F)2F	76129.446	1.5	4P (1S)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
320.4339	-3.550	30388.542	4.5	D6S (3G)2G	61587.822	5.5	4P (3H)4I	323.9866	-3.400	31387.948	2.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F
320.4457	-4.754	73637.340	1.5	D5S2(7S)4F	42439.822	0.5	4P (5D)6F	324.1445	-2.389	100492.020	3.5	5S (3F)2F	69650.484	2.5	4P (3G)2F
320.5710	-3.417	105155.090	4.5	4D (3F)4G	73969.767	5.5	4P (11)2I	324.1583	-3.369	103983.510	3.5	5S (3G)2G	73143.288	3.5	4P (1G)2G
320.7570	-2.816	47674.721	1.5	D7 (5D)2D	78841.960	0.5	4P (1D)2P	324.1685	-4.282	31483.176	3.5	D6S (3D)4D	62322.431	3.5	4P (3H)2G
320.8584	-4.422	73492.215	3.5	D5S2(7S)4F	42334.822	2.5	4P (5D)6F	324.1859	-4.214	102802.312	2.5	D6S (3D)4D	71964.710	2.5	4P (3D)4D
320.8654	-4.237	33393.745	4.5	D5S2(7S)4F	42327.033	3.5	4P (5D)6F	324.2029	-4.466	103265.694	0.5	6S (5D)4D	72429.711	0.5	4P (3D)4D
320.8966	-4.984	103118.400	1.5	6S (5D)4D	71964.710	2.5	4P (3D)4P	324.3235	-3.170	60384.370	0.5	D5S2(7S)4D	91208.887	1.5	5P (5D)4F
320.9306	-2.662	31811.822	2.5	D7 (5D)2F	62962.205	1.5	4P (3F)4D	324.3723	-1.286	33466.463	4.5	D6S (1G)2G	64286.345	3.5	4P (3F)2F
320.9610	-2.520	36126.387	1.5	D6S (3D)2D	67273.826	1.5	4P (3F)4D	324.4197	-3.045	60384.370	0.5	D5S2(7S)4D	91199.746	0.5	5P (5D)4D
320.9979	-3.971	83726.364	4.5	4D (5D)6D	52582.510	3.5	4SP(7S)8P	324.4507	-2.889	47674.721	1.5	D7 (5D)2D	78487.153	1.5	4P (1D)2D
321.0040	-1.932	100749.810	2.5	5S (3F)2F	69606.552	3.5	4P (3G)2F	324.5044	-4.579	105414.180	2.5	4D (3F)4G	74606.841	2.5	4P (3D)2D
321.0077	-4.061	77230.900	4.5	D5S2(7S)2H	108373.800	3.5	2600D	324.5795	-2.607	60270.339	3.5	D5S2(7S)4D	91070.539	3.5	4P (3F)2F
321.0444	-1.694	13904.824	0.5	D7 (5D)4P	45044.168	1.5	4P (5D)4D	324.5987	-3.475	57411.065	2.5	D5S2(7S)4P	88209.450	3.5	4SP(5P)6D
321.0827	-2.381	78525.407	2.5	5S (5D)6D	47389.779	1.5	4P (5D)4P	324.7175	-1.149	31364.440	1.5	D6S (3D)4D	62151.561	2.5	4P (3F)4F
321.1076	-2.685	31811.822	2.5	D7 (5D)2F	62945.038	3.5	4P (3F)4D	324.7539	-1.923	33501.253	3.5	D6S (1G)2G	64286.345	3.5	4P (3F)2F
321.1302	-3.901	83713.536	3.5	4D (5D)6D	52582.510	3.5	4SP(7S)8P	324.8130	-3.969	98294.401	5.5	5S (3H)4H	67516.332	5.5	4P (3G)2H
321.2017	-1.483	30388.542	4.5	D6S (3G)2G	61512.634	4.5	4P (3H)4I	324.9208	-3.895	30388.542	4.5	D6S (3G)2G	62171.615	3.5	4SP(7S)6P
321.3309	-1.307	13673.185	1.5	D7 (5D)4P	44784.761	2.5	4P (5D)4D	324.9162	-4.019	30388.542	4.5	D6S (3G)2G	61156.835	3.5	4P (3H)4H
321.4402	-2.451	103751.660	5.5	4D (3H)4H	72650.658	4.5	4P (3D)4F	324.9208	-3.697	60441.033	1.5	D5S2(7S)4D	91208.887	1.5	5P (5D)4F
321.4535	-2.960	78725.790	1.5	5S (5D)6D	47626.076	0.5	4P (5D)4P	324.9656	-1.962	31387.948	2.5	D6S (3D)4D	62151.561	2.5	4P (3F)4F
321.4575	-1.106	100749.810	2.5	5S (3F)2F	69650.484	2.5	4P (3G)2F	324.9915	-2.433	31364.440	1.5	D6S (3D)4D	62125.600	1.5	4P (3F)2D
321.4845	-4.339	105063.550	5.5	4D (3F)4G	73966.832	6.5	4P (11)2I	325.0113	-4.240	102802.312	2.5	6S (5D)4D	72043.026	1.5	4P (3D)4P
321.4847	-4.399	103265.694	0.5	6S (5D)4D	72168.998	1.5	4P (3D)4F	325.0174	-4.650	60441.033	1.5	D5S2(7S)4D	91199.746	0.5	5P (5D)4D
321.5148	-2.565	105063.550	5.5	4D (3F)4G	73969.767	5.5	4P (11)2I	325.0339	-3.595	31368.450	0.5	D6S (3D)4D	62125.600	1.5	4P (3P)2D
321.5264	-1.915	99093.452	5.5	5S (3H)2H	68000.788	4.5	4P (3G)2H	325.1290	-3.175	30764.485	3.5	D6S (3G)2G	61512.634	4.5	4P (3H)4I
321.6297	-4.018	104174.270	5.5	4D (3H)4I	73091.590	4.5	4P (1G)2G	325.1349	-2.785	36252.918	2.5	D6S (3D)2D	67000.517	2.5	4P (3F)2D
321.7053	-4.124	103118.400	1.5	6S (5D)4D	72043.026	1.5	4P (3D)4P	325.2626	-4.176	73393.745	4.5	D5S2(7S)4F	42658.224	3.5	4P (5D)6P
321.8533	-3.161	58666.258	3.5	D6S (1G)2G	89727.342	2.5	4P (3F)4G	325.5131	-1.684	104315.370	6.5	4D (3H)2K	73603.500	5.5	4P (1G)2H
321.9400	-4.655	103265.694	0.5	6S (5D)4D	72212.978	0.5	4P (3D)4P	325.5146	-4.319	102842.119	4.5	5S (3G)4G	72130.390	4.5	4P (5D)6D
322.0835	-3.293	32909.905	5.5	D6S (11)2I	63948.790	4.5	4P (3F)4G	325.5887	-2.520	7955.299	3.5	D6S (5D)4D	38660.043	3.5	4P (5D)6D
322.3199	-2.934	47674.721	1.5	D7 (5D)2D	78690.846	2.5	4P (1D)2D	325.6981	-2.657	78577.280	4.5	D5S2(7S)2G	109271.710	5.5	4SP(31)2I
322.4012	-3.880	77230.900	4.5	D5S2(7S)2H	108239.200	3.5	2400D	325.7363	-2.827	31999.048	3.5	D7 (5D)2F	62689.880	2.5	4P (3P)4D
322.4858	-3.263	44915.046	3.5	D6S (1F)2F	63876.317	5.5	4P (3F)4G	325.7617	-3.611	31483.176	3.5	D6S (3D)4D	62171.615	3.5	4SP(7S)6P
322.5434	-4.437	73395.930	2.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F	325.7888	-1.711	44915.046	3.5	D6S (1F)2F	75600.931	3.5	4P (3D)2F
322.6367	-1.895	44929.520	2.5	D6S (1F)2F	75915.215	2.5	4P (3D)2F	325.8026	-4.379	31364.440	1.5	D6S (3D)4D	62049.025	2.5	4SP(7S)6P
322.6689	-4.309	105589.420	3.5	4D (3F)4H	74606.841	2.5	4P (3D)2D	325.8070	-3.757	105291.010	3.5	4D (3F)4G	74606.841	2.5	4P (3D)2D
322.7742	-1.072	13474.411	2.5	D7 (5D)4P	44446.878	3.5	4P (5D)4D	325.8093	-3.951	78185.030	3.5	D5S2(7S)2G	108868.980	4.5	4SP(3G)4H
322.8274	-1.845	103983.510	3.5	5S (3G)2G	63876.317	5.5	4P (1G)2F	325.8771	-1.232	31387.948	2.5	D6S (3D)4D	62158.110	4.5	4P (3F)4F
322.8373	-4.588	32909.905	5.5	D6S (11)2I	72650.658	4.5	4P (3F)4G	325.9051	-0.981	31483.176	3.5	D6S (3D)4D	62158.110	4.5	4P (3F)4F
322.8876	-2.720	30764.485	3.5	D6S (3G)2G	61726.077	3.5	4P (3P)4D	325.9428	-3.530	44929.520	3.5	D6S (1F)2F	75600.931	3.5	4P (1D)2F
322.9224	-4.094	103608.909	4.5	5S (3G)2G	72650.658	4.5	4P (3D)4D	325.9862	-3.568	108804.667	3.5	5S (3D)4D	78137.364	3.5	4P (1D)2F
322.9351	-2.080	103608.909	4.5	5S (3G)2G	72650.658	4.5	4P (3D)4D	326.0225	-3.994	60384.370	0.5	D5S2(7S)4D	91048.256	1.5	5P (5D)4D
322.9504	-3.169	31999.048	3.5	D7 (5D)2F	62945.038	3.5	4P (3F)4D	326.0524	-4.106	31387.948	2.5	D6S (3D)4D	62049.025	2.5	4SP(7S)6P
323.1706	-1.709	13187.948	2.5	D6S (3D)4D	62922.431	3.5	4P (3H)2G	326.1096	-3.236	103751.660	5.5	4D (3H)4H	73091.590	4.5	4P (1G)2G
323.2271	-2.886	98445.400	4.5	5S (3H)4H	67516.332	5.5	4P (3G)2H	326.1096	-3.689	77230.900	4.5	D5S2(7S)2H	107886.600	3.5	2000D
323.2317	-1.314	103983.510	3.5	5S (3G)2G	73054.881	2.5	4P (1G)2F	326.1515	-2.561	48039.090	2.5	D7 (5D)2D	78690.846	2.5	4P (1D)2D
323.2785	-1.461	33501.253	3.5	D6S (1G)2G	64425.408	2.5	4P (3F)2F	326.1882	-4.279	57411.065	2.5	D5S2(7S)4P	88059.380	2.5	4SP(5P)6D
323.3625	-3.952	105414.180	2.5	4D (3F)4G	74498.057	1.5	4P (3D)4P	326.3784	-4.193	60441.033	1.5	D5S2(7S)4D	90901.124	2.5	5P (5D)4F
323.4745	-4.271	103118.400	1.5	6S (5D)4D	72212.978	0.5	4P (3D)4D	326.3884	-4.193	60441.033	1.5	D5S2(7S)4D	91070.547	2.5	5P (5D)4F
323.4929	-4.132	7955.299	3.5	D6S (5D)4D	38858.958	2.5	4P (5D)6D	326.4336	-2.957	60445.275	2.5	D5S2(7S)4D	91070.547	2.5	5P (5D)4F
323.5564	-4.511	60270.339	3.5	D5S2(7S)4D	91167.937	3.5	5P (5D)6P	326.4763	-3.759	8391.938	2.5	D6S (5D)4D	39013.206	1.5	4P (5D)6D
323.6158	-4.139	103983.510	3.5	5S (3G)2G	73091.590	4.5	4P (1G)2G	326.5559	-2.653	98130.131	6.5	5S (3H)4H	67516.332	5.5	4P (3G)2H
323.6834	-0.932	100492.020	3.5	5S (3F)2F	69606.552	3.5	4P (1G)2G	326.5912	-4.337	31364.440	1.5	D6S (3D)4D	61974.933	1.5	4SP(7S)6P
323.7399	-1.971	31364.440	1.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F	326.6261	-2.744	60441.033	1.5	D5S2(7S)4D	91048.256	1.5	5P (5D)4D
323.7419	-4.344	103118.400	1.5	6S (5D)4D	72238.513	2.5	4P (3D)4F	326.6340	-4.517	31368.450	0.5	D6S (3D)4D	61974.933	1.5	4SP(7S)6P
323.7820	-1.335	31368.450	0.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F	326.6714	-3.603	60445.275	2.5	D5S2(7S)4D	91048.256	1.5	5P (5D)4D
323.8023	-3.112	36126.387	1.5	D6S (3D)2D	67000.517	2.5	4P (3F)2D	326.6936	-2.132	30388.542	4.5	D6S (3G)2G	60989.444	4.5	4P (3H)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
326.7039	-2.133	31483.176	3.5	D6S (3D)4D	62083.108	4.5	4P (3H)2G	329.5535	-3.768	60445.275	2.5	D5S2(7S)4D	329.5535	-3.768	60445.275	2.5	D5S2(7S)4D	90780.621	3.5	5P (5D)4F
326.7237	-7.062	16369.360	3.5	D7 (5D)2G	46967.444	2.5	4P (5D)4P	329.5817	-2.988	8680.454	1.5	D6S (5D)4D	329.5817	-2.988	8680.454	1.5	D6S (5D)4D	39013.206	1.5	4P (5D)6D
326.7805	-1.555	103608.909	4.5	5S (3G)2G	73016.147	3.5	4P (1G)2F	329.6233	-3.603	30764.485	3.5	D6S (3G)2G	329.6233	-3.603	30764.485	3.5	D6S (3G)2G	61093.413	2.5	4P (3P)2D
326.8510	-1.742	33501.253	3.5	D6S (1G)2G	64087.418	2.5	4P (3F)4G	329.6267	-9.334	22637.205	4.5	D6S (3F)4F	329.6267	-9.334	22637.205	4.5	D6S (3F)4F	52965.820	2.5	4SP(7S)8P
326.9127	-2.851	102842.119	4.5	5S (3G)4G	72261.729	5.5	4P (1G)2H	329.6836	-2.597	31999.048	3.5	D7 (5D)2F	329.6836	-2.597	31999.048	3.5	D7 (5D)2F	62322.431	3.5	4P (3H)2G
326.9765	-1.832	33466.463	4.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G	329.6852	-4.278	102584.963	5.5	5S (3G)4G	329.6852	-4.278	102584.963	5.5	5S (3G)4G	72261.729	5.5	4P (1G)2H
327.0156	-4.828	104174.270	5.5	4D (3H)4I	73603.500	5.5	4P (1F)2H	329.7243	-4.787	57578.484	0.5	D5S2(7S)4F	329.7243	-4.787	57578.484	0.5	D5S2(7S)4F	87898.120	0.5	4SP(5G)6F
327.0427	-4.427	30388.542	4.5	D6S (3G)2G	60956.781	3.5	4P (3H)4G	329.7880	-2.159	31811.822	2.5	D7 (5D)2F	329.7880	-2.159	31811.822	2.5	D7 (5D)2F	62125.600	1.5	4P (3P)2D
327.0439	-2.970	98568.912	3.5	5S (3H)4H	88009.388	4.5	4P (3G)2H	329.9778	-1.812	94063.459	0.5	D6S (3P)2F	329.9778	-1.812	94063.459	0.5	D6S (3P)2F	84359.800	1.5	4P (1F)2D
327.0660	-4.007	57493.321	1.5	D5S2(7S)4P	80059.380	2.5	4SP(3P)6D	330.0076	-3.728	98294.401	5.5	5S (3H)4H	330.0076	-3.728	98294.401	5.5	5S (3H)4H	64300.788	4.5	4P (3G)2H
327.0902	-4.955	102802.312	2.5	6S (5D)4D	72238.513	2.5	4P (3D)4F	330.0498	-4.487	81639.260	2.5	D5S2(7S)2F	330.0498	-4.487	81639.260	2.5	D5S2(7S)2F	111929.000	2.5	290DD
327.1953	-4.640	83136.487	3.5	4D (5D)6F	52582.510	3.5	4SP(7S)8P	330.1805	-4.175	102802.312	2.5	6S (5D)4D	330.1805	-4.175	102802.312	2.5	6S (5D)4D	72524.566	1.5	4P (3D)4D
327.1995	-4.783	57411.065	2.5	D5S2(7S)4P	87964.650	1.5	4SP(3P)6D	330.1858	-4.428	30764.485	3.5	D6S (3G)2G	330.1858	-4.428	30764.485	3.5	D6S (3G)2G	61041.748	2.5	4P (3H)4G
327.3490	-1.822	33501.253	3.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G	330.2717	-4.300	36252.918	2.5	D6S (3D)2D	330.2717	-4.300	36252.918	2.5	D6S (3D)2D	66522.704	2.5	4P (3G)4F
327.5884	-3.313	103608.909	4.5	5S (3G)2G	73091.590	4.5	4P (1G)2G	330.2857	-3.450	8391.938	2.5	D6S (5D)4D	330.2857	-3.450	8391.938	2.5	D6S (5D)4D	38660.043	3.5	4P (5D)6D
327.6186	-3.982	60384.370	0.5	D5S2(7S)4D	90598.873	1.5	4P (3P)4P	330.2859	-3.495	99918.569	1.5	5S (3F)4F	330.2859	-3.495	99918.569	1.5	5S (3F)4F	69650.484	2.5	4P (3G)2F
327.6604	-1.990	31811.822	2.5	D7 (5D)2F	62322.431	3.5	4P (3H)2G	330.3322	-4.931	30388.542	4.5	D6S (3G)2G	330.3322	-4.931	30388.542	4.5	D6S (3G)2G	60625.449	5.5	4P (3H)4G
327.6639	-2.934	60270.339	3.5	D5S2(7S)4D	90780.621	3.5	5P (5D)4F	330.3464	-3.306	8846.768	0.5	D6S (5D)4D	330.3464	-3.306	8846.768	0.5	D6S (5D)4D	38660.043	3.5	4P (5D)6D
327.7348	-2.370	7955.299	3.5	D6S (5D)4D	38458.981	4.5	4P (5D)6D	330.4430	-2.850	31811.822	2.5	D7 (5D)2F	330.4430	-2.850	31811.822	2.5	D7 (5D)2F	62065.521	3.5	4P (3F)4F
327.7845	-3.461	30388.542	4.5	D6S (3G)2G	60887.598	5.5	4P (3H)4H	330.4437	-4.923	73492.215	3.5	D5S2(7S)4F	330.4437	-4.923	73492.215	3.5	D5S2(7S)4F	43238.586	2.5	4P (5D)6P
327.8809	-1.157	102842.119	4.5	5S (3G)4G	72352.024	3.5	4P (3D)4F	330.5609	-2.778	31483.176	3.5	D6S (3G)2G	330.5609	-2.778	31483.176	3.5	D6S (3G)2G	61726.077	3.5	4P (3P)4D
327.9106	-8.285	21812.055	1.5	D6S (3P)4P	52299.390	2.5	4SP(7S)8P	330.6265	-3.736	30388.542	4.5	D6S (3G)2G	330.6265	-3.736	30388.542	4.5	D6S (3G)2G	60625.449	5.5	4P (3H)4G
327.9220	-3.693	36126.387	1.5	D6S (3D)2D	66612.656	1.5	4P (3G)4F	330.6776	-1.201	103983.510	3.5	5S (3G)2G	330.6776	-1.201	103983.510	3.5	5S (3G)2G	73492.215	3.5	4P (11)2H
327.9644	-2.169	33466.463	4.5	D6S (1G)2G	63948.790	4.5	4P (3F)4G	330.6798	-4.028	87957.280	4.5	D5S2(7S)2G	330.6798	-4.028	87957.280	4.5	D5S2(7S)2G	108809.310	5.5	4SP(3G)4H
328.0828	-4.702	57493.321	1.5	D5S2(7S)4P	87964.650	1.5	4SP(3P)6D	330.7446	-3.317	100749.810	2.5	5S (3F)2F	330.7446	-3.317	100749.810	2.5	5S (3F)2F	70523.706	3.5	4P (3G)2G
328.1292	-2.695	8391.938	2.5	D6S (5D)4D	38858.958	2.5	4P (5D)6D	330.7572	-3.867	30764.485	3.5	D6S (3G)2G	330.7572	-3.867	30764.485	3.5	D6S (3G)2G	60969.444	4.5	4P (3H)4H
328.1443	-2.718	103608.909	4.5	5S (3G)2G	73143.288	3.5	4P (1G)2G	330.8389	-4.022	99824.045	2.5	5S (3F)4F	330.8389	-4.022	99824.045	2.5	5S (3F)4F	69606.552	3.5	4P (3G)2F
328.1922	-3.983	104064.670	6.5	4D (3H)4I	73603.500	5.5	4P (11)2H	330.8391	-4.894	60270.339	3.5	D5S2(7S)4D	330.8391	-4.894	60270.339	3.5	D5S2(7S)4D	90487.810	2.5	5P (5D)6F
328.2281	-2.950	60441.033	1.5	D5S2(7S)4D	90898.873	1.5	4P (3P)4P	330.9264	-4.912	73492.215	3.5	D5S2(7S)4F	330.9264	-4.912	73492.215	3.5	D5S2(7S)4F	103701.720	4.5	4F(5D)2[5]
328.2496	-4.166	60445.275	2.5	D5S2(7S)4D	90901.124	2.5	5P (5D)4P	330.9310	-4.972	109455.250	1.5	4SD(7S)8D	330.9310	-4.972	109455.250	1.5	4SD(7S)8D	79246.170	1.5	4SP(5S)6P
328.2575	-2.306	60384.370	0.5	D5S2(7S)4D	90839.480	0.5	4P (3P)4P	331.0548	-3.158	60441.033	1.5	D5S2(7S)4D	331.0548	-3.158	60441.033	1.5	D5S2(7S)4D	90638.822	2.5	5P (5D)4D
328.2633	-3.785	102584.963	5.5	5S (3G)4G	72130.390	4.5	4P (1G)2H	331.1013	-2.912	60445.275	2.5	D5S2(7S)4D	331.1013	-2.912	60445.275	2.5	D5S2(7S)4D	90638.822	2.5	5P (5D)4D
328.2738	-2.149	60445.275	2.5	D5S2(7S)4D	90898.873	1.5	4P (3P)4P	331.1150	-2.951	30764.485	3.5	D6S (3G)2G	331.1150	-2.951	30764.485	3.5	D6S (3G)2G	60956.781	3.5	4P (3H)4G
328.3095	-4.249	102802.312	2.5	6S (5D)4D	72352.024	3.5	4P (3D)4F	331.1242	-1.940	102842.119	4.5	5S (3G)4G	331.1242	-1.940	102842.119	4.5	5S (3G)4G	72650.658	4.5	4P (3D)4F
328.3355	-3.097	48039.090	2.5	D7 (5D)2D	78487.153	1.5	4P (1D)2D	331.1375	-2.072	102842.119	4.5	5S (3G)4G	331.1375	-2.072	102842.119	4.5	5S (3G)4G	72651.876	3.5	4P (3D)4D
328.3392	-4.124	33501.253	3.5	D6S (1G)2G	63948.790	4.5	4P (3F)4G	331.1537	-3.725	78185.030	3.5	D5S2(7S)2G	331.1537	-3.725	78185.030	3.5	D5S2(7S)2G	108373.800	3.5	260DD
328.3551	-4.465	78185.030	3.5	D5S2(7S)2G	108631.090	3.5	4SP(3G)4G	331.1991	-4.529	60445.275	2.5	D6S (5D)4D	331.1991	-4.529	60445.275	2.5	D6S (5D)4D	90629.902	1.5	4P (3P)4S
328.3750	-4.380	78185.030	3.5	D5S2(7S)2G	108629.250	2.5	4SP(3G)4G	331.2663	-5.006	8680.454	1.5	D6S (5D)4D	331.2663	-5.006	8680.454	1.5	D6S (5D)4D	4P (5D)6D		
328.4993	-2.973	31811.822	2.5	D7 (5D)2F	62244.520	1.5	4P (3F)4F	331.2783	-3.608	100492.020	3.5	5S (3F)2F	331.2783	-3.608	100492.020	3.5	5S (3F)2F	70314.604	4.5	4P (3G)2G
328.5283	-3.761	102394.718	3.5	6S (5D)4D	72352.024	3.5	4P (3D)4F	331.3206	-3.677	99824.045	2.5	5S (3F)4F	331.3206	-3.677	99824.045	2.5	5S (3F)4F	69650.484	2.5	4P (3G)2F
328.5408	-3.748	8680.454	1.5	D6S (5D)4D	39109.307	0.5	4P (5D)6D	331.3582	-4.543	109455.250	1.5	4SD(7S)8D	331.3582	-4.543	109455.250	1.5	4SD(7S)8D	79285.110	2.5	4SP(5S)6P
328.6041	-4.926	104174.270	5.5	4D (3H)4I	73751.282	4.5	4P (11)2H	331.3988	-3.960	8846.768	0.5	D6S (5D)4D	331.3988	-3.960	8846.768	0.5	D6S (5D)4D	39013.206	1.5	4P (5D)6D
328.6506	-3.590	30388.542	4.5	D6S (3G)2G	60807.230	4.5	4P (3H)4G	331.4210	-4.159	109449.530	1.5	4SD(7S)8D	331.4210	-4.159	109449.530	1.5	4SD(7S)8D	79285.110	2.5	4SP(5S)6P
328.7461	-2.990	33466.463	4.5	D6S (1G)2G	63786.317	5.5	4P (3F)4G	331.4354	-3.744	31811.822	2.5	D7 (5D)2F	331.4354	-3.744	31811.822	2.5	D7 (5D)2F	61974.933	1.5	4SP(7S)6P
328.8007	-4.811	57493.321	1.5	D5S2(7S)4D	87964.650	1.5	4SP(5G)6F	331.4546	-4.879	57411.065	2.5	D5S2(7S)4F	331.4546	-4.879	57411.065	2.5	D5S2(7S)4F	87572.431	2.5	4SP(5G)6F
328.8694	-2.192	60441.033	1.5	D5S2(7S)4D	90839.480	0.5	4P (3P)4P	331.4799	-2.554	31999.048	3.5	D7 (5D)2F	331.4799	-2.554	31999.048	3.5	D7 (5D)2F	62158.110	4.5	4P (3F)4F
328.8941	-4.599	82978.677	4.5	4D (5D)6F	52582.510	3.5	4SP(7S)8P	331.5479	-1.987	104119.710	7.5	4D (3H)2K	331.5479	-1.987	104119.710	7.5	4D (3H)2K	73966.832	6.5	4P (11)2I
328.8968	-4.140	36126.387	1.5	D6S (3D)2D	66522.304	2.5	4P (3G)4F	331.5524	-4.628	60441.033	1.5	D5S2(7S)4D	331.5524	-4.628	60441.033	1.5	D5S2(7S)4D	90593.497	1.5	5P (5D)6F
328.9354	-1.458	30764.485	3.5	D6S (3G)2G	61156.835	3.5	4P (3H)4H	331.5998	-4.374	103751.660	5.5	4D (3H)4H	331.5998							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
331.9779	-3.863	108804.667	3.5	5S (3D)4D	78690.846	2.5	4P (1D)2D	335.7031	-4.727	78185.030	3.5	D5S2(7S)2G	107964.700	4.5	210DD
332.0318	-4.762	57493.321	1.5	D5S2(7S)4P	87602.250	1.5	4SP(5G)6F	335.7507	-2.248	77230.900	4.5	D5S2(7S)2H	107006.350	4.5	4SP(3I)2H
332.1494	-1.951	48039.090	2.5	D7 (5D)2D	78137.364	3.5	4P (1D)2F	335.7532	-4.485	102394.718	3.5	6S (5D)4D	72619.490	2.5	4P (3D)4D
332.1542	-4.506	104064.670	6.5	4D (3H)4I	73966.832	6.5	4P (1I)2I	335.7927	-2.805	33501.253	3.5	D6S (1G)2G	63272.976	2.5	4P (3F)4D
332.1866	-3.243	104064.670	6.5	4D (3H)4I	73969.767	5.5	4P (1I)2I	335.8247	-2.640	31387.948	2.5	D6S (3D)4D	61156.835	3.5	4P (3H)4H
332.3063	-1.735	31999.048	3.5	D7 (5D)2F	62083.108	4.5	4P (3H)2G	335.8779	-4.400	13474.411	2.5	D7 (5D)4P	43238.586	2.5	4P (5D)6P
332.3315	-2.863	99688.337	3.5	5S (3F)4F	69606.552	3.5	4P (3G)2F	336.0115	-2.356	32909.905	5.5	D6S (1I)2I	62662.244	5.5	4P (3H)2I
332.3610	-4.094	57493.321	1.5	D5S2(7S)4P	87572.431	2.5	4SP(5G)6F	336.0319	-3.025	102842.119	4.5	5S (3G)4G	73091.590	4.5	4P (1G)2G
332.4837	-2.101	47674.721	1.5	D7 (5D)2D	77742.730	2.5	4P (3D)4F	336.1050	-4.158	102394.718	3.5	6S (5D)4D	72650.658	4.5	4P (3D)4F
332.5007	-2.683	31999.048	3.5	D7 (5D)2F	62065.521	3.5	4P (3F)4F	336.1188	-4.632	102394.718	3.5	6S (5D)4D	72651.876	3.5	4P (3D)4D
332.5601	-4.478	102030.912	3.5	6S (5D)6D	71964.710	2.5	4P (3D)4P	336.1886	-3.4680	49506.934	1.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P
332.6007	-4.650	73637.340	1.5	D5S2(7S)4F	103698.440	2.5	4F(5D)2[3]	336.2756	-3.457	31364.440	1.5	D6S (3D)4D	61093.413	2.5	4P (3P)2D
332.6368	-4.938	57578.484	0.5	D5S2(7S)2G	87635.920	0.5	4SP(5P)6D	336.2976	-3.693	31999.048	3.5	D7 (5D)2F	61726.077	3.5	4P (3P)4D
332.6408	-4.898	78577.280	4.5	D5S2(7S)2G	108239.200	3.5	240DD	336.2977	-4.110	78237.685	3.5	5S (5D)6D	107964.700	4.5	210DD
332.7181	-3.907	60441.033	1.5	D5S2(7S)4D	108631.090	3.5	4SP(3G)4G	336.3143	-1.494	99332.102	4.5	5S (3H)2H	69606.552	3.5	4P (3G)2F
332.7218	-4.088	37227.326	0.5	D6S (1S)2S	67273.826	1.5	4P (3F)2D	336.4474	-4.583	78525.407	2.5	5S (5D)6D	43620.957	1.5	4P (5D)6P
332.7633	-4.279	30764.485	3.5	D6S (3G)2G	60807.230	4.5	4P (3H)4G	336.5417	-2.861	31387.948	2.5	D6S (3D)4D	108239.200	3.5	240DD
332.8175	-3.618	99688.337	3.5	5S (3F)4F	69650.484	2.5	4P (3G)2F	336.5624	-2.606	48039.090	2.5	D7 (5D)2D	61093.413	2.5	4P (1D)2F
332.9014	-4.211	60270.339	3.5	D5S2(7S)4D	90300.625	3.5	5P (5D)6F	336.5858	-4.596	78185.030	3.5	D5S2(7S)2G	107886.600	3.5	200DD
332.9106	-2.563	31483.176	3.5	D6S (3D)4D	61512.634	4.5	4P (3H)4I	336.6404	-4.301	102842.119	4.5	5S (3G)4G	73143.288	3.5	4P (1G)2G
332.9443	-4.754	73393.745	4.5	D5S2(7S)4F	103420.160	5.5	4F(5D)3[6]	336.6967	-1.680	73637.340	1.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F
332.9737	-4.376	57578.484	0.5	D5S2(7S)4P	87602.250	1.5	4SP(5G)6F	336.6967	-1.680	73637.340	1.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F
333.1229	-4.978	73395.930	2.5	D5S2(7S)4F	103406.250	2.5	4F(5D)3[2]	336.7002	-2.815	73492.215	3.5	D5S2(7S)4F	103183.700	3.5	4SP(3D)2F
333.1774	-1.273	103608.909	4.5	5S (3G)2G	73603.500	5.5	4P (1I)2H	336.7161	-3.874	105291.010	3.5	4D (3F)4G	75600.931	3.5	4P (3D)2F
333.2333	-4.394	103751.660	5.5	4D (3H)4H	73751.282	4.5	4P (1I)2H	336.8484	-3.422	31364.440	1.5	D6S (3D)4D	65931.334	3.5	4P (3G)4G
333.2715	-4.577	103600.440	6.5	4D (3H)4H	73603.500	5.5	4P (1I)2H	336.8610	-3.529	31364.440	1.5	D6S (3D)4D	61041.748	2.5	4P (3H)4G
333.3508	-4.594	73395.930	2.5	D5S2(7S)4F	103385.730	3.5	4F(5D)3[3]	336.8612	-2.872	44929.550	2.5	D6S (1F)2F	74606.841	2.5	4P (3D)2D
333.3654	-3.512	105389.420	3.5	4D (3F)4H	75600.931	3.5	4P (3D)2F	336.8962	-4.854	31483.176	3.5	D6S (3D)4D	61156.835	3.5	4P (3H)4H
333.3897	-3.194	31364.440	1.5	D6S (3F)2F	61332.764	1.5	4P (3P)4P	336.9344	-2.754	31364.440	1.5	D6S (3D)4D	61035.287	0.5	4P (3P)4P
333.5898	-2.925	100492.020	3.5	5S (3F)2F	70523.706	3.5	4P (3G)2G	336.9799	-2.934	31368.450	0.5	D6S (3D)4D	61035.287	0.5	4P (3P)4P
333.6081	-2.352	99573.225	4.5	5S (3F)4F	69606.552	3.5	4P (3G)2F	336.9872	-4.952	78525.407	2.5	5S (5D)6D	108191.600	1.5	230DD
333.7649	-3.425	60445.275	2.5	D5S2(7S)4D	90397.868	3.5	5P (5D)4P	337.1281	-4.510	31387.948	2.5	D6S (3D)4D	61041.748	2.5	4P (3H)4G
333.7729	-3.425	36126.387	1.5	D6S (3D)2D	66078.269	2.5	4P (3G)4G	337.1836	-4.458	78237.685	3.5	5S (5D)6D	107886.600	3.5	200DD
333.8187	-5.046	13673.185	1.5	D7 (5D)4P	108780.000	1.5	270DD	337.2948	-2.177	103608.909	4.5	5S (3G)2G	73966.832	6.5	4P (1I)2I
333.8432	-4.402	78185.030	3.5	D5S2(7S)2G	108130.600	2.5	220DD	337.2948	-2.177	103608.909	4.5	5S (3G)2G	73966.832	6.5	4P (1I)2I
333.8462	-9.251	22637.205	4.5	D6S (3F)4F	52582.510	3.5	4SP(7S)8P	337.3094	-5.315	30764.485	3.5	D6S (3G)2G	60402.342	2.5	4P (3P)4P
333.8516	-2.371	31387.948	2.5	D6S (3D)4D	61332.764	1.5	4P (3P)4P	337.3578	-4.007	103600.440	6.5	4D (3H)4H	73966.832	6.5	4P (1I)2I
333.9257	-3.785	73395.930	2.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F	337.3727	-4.987	77230.900	4.5	D5S2(7S)2H	106863.200	3.5	160DD
333.9498	-4.783	78843.992	0.5	5S (5D)6D	108780.000	1.5	270DD	337.6241	-4.023	31483.176	3.5	D6S (3D)4D	61093.413	2.5	4P (3P)2D
333.9688	-1.099	102384.963	5.5	5S (3G)4G	72650.658	4.5	4P (3D)4F	337.6816	-4.703	78525.407	2.5	5S (5D)6D	108130.600	2.5	220DD
334.1927	-4.061	31811.822	2.5	D7 (5D)2F	61726.077	3.5	4P (3P)4D	337.7177	-4.643	80177.975	1.5	5S (5D)4D	109780.000	1.5	280DD
334.2234	-2.600	103878.340	7.5	4D (3H)4I	73966.832	6.5	4P (1I)2I	337.7948	-2.948	78237.685	3.5	5S (5D)6D	107886.600	3.5	200DD
334.2784	-3.140	78577.280	4.5	D5S2(7S)2G	108483.870	5.5	4SP(3G)4G	337.8247	-4.479	105155.090	4.5	4D (3F)4G	75600.931	3.5	4P (3H)4G
334.4135	-3.184	79885.493	2.5	5S (5D)4D	109780.000	1.5	280DD	337.8943	-4.965	73393.745	4.5	D5S2(7S)4F	102980.300	3.5	4SP(3I)4I
334.4313	-4.970	78237.685	3.5	5S (5D)6D	108130.600	2.5	220DD	338.0968	-3.150	31387.948	2.5	D6S (3D)4D	60956.781	3.5	4P (3H)4G
334.4971	-4.970	78237.685	3.5	5S (5D)6D	108130.600	2.5	220DD	338.1006	-1.695	44929.550	2.5	D6S (3D)4D	74498.057	1.5	4P (3D)2D
334.8265	-3.860	103608.909	4.5	5S (3G)2G	73751.282	4.5	4P (1I)2H	338.1361	-3.909	13673.185	1.5	D7 (5D)4P	43238.586	2.5	4P (5D)6P
334.8521	-3.287	60445.275	2.5	D5S2(7S)4F	90300.625	3.5	5P (5D)6F	338.2142	-4.479	31483.176	3.5	D6S (3D)4D	61041.748	2.5	4P (3H)4G
335.0032	-4.085	73492.215	3.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F	338.2647	-3.338	31811.822	2.5	D7 (5D)2F	61332.764	1.5	4P (3P)4P
335.1819	-4.348	102842.119	4.5	5S (3G)4G	66078.269	2.5	4P (3G)4G	338.4654	-3.338	31811.822	2.5	D7 (5D)2F	61332.764	1.5	4P (3P)4P
335.1889	-4.346	66252.918	2.5	D6S (3D)2D	66078.269	2.5	4P (3G)4G	338.6724	-2.054	57411.065	2.5	D5S2(7S)4G	86929.649	3.5	4P (3P)4D
335.3250	-4.854	105414.180	2.5	4D (3F)4G	75600.931	3.5	4P (3D)2F	338.7298	-2.662	31999.048	3.5	D7 (5D)2F	61512.634	4.5	4P (3H)4I
335.5077	-3.375	60270.339	3.5	D5S2(7S)4D	90067.347	4.5	5P (5D)6F	338.8138	-3.271	31483.176	3.5	D6S (3D)4D	60989.444	4.5	4P (3H)4H
335.5872	-3.605	73393.745	4.5	D5S2(7S)4F	103183.700	3.5	4SP(3D)2F	338.8900	-4.073	73393.745	4.5	D5S2(7S)4F	102893.380	5.5	4F(5D)4[6]
335.6250	-2.721	32875.646	6.5	D6S (1I)2I	62662.244	5.5	4P (3H)2I	338.8977	-4.884	105414.180	2.5	4D (3F)4G	75915.215	2.5	4P (3D)2F
335.6449	-4.196	103751.660	5.5	4D (3H)4H	73966.832	6.5	4P (1I)2I	338.9619	-2.463	102584.963	5.5	5S (3G)4G	73091.590	4.5	4P (1G)2G
335.6780	-4.995	103751.660	5.5	4D (3H)4H	73969.767	5.5	4P (1I)2I	339.0091	-1.588	54870.528	2.5	D6S (3F)2F	84359.800	1.5	4P (1F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
339.0118	-9.609	22810.357	3.5	D6S (3F)4F	52299.390	2.5	4SP(7S)8P	344.0251	-3.261	38214.507	1.5	D6S (1D)2D	67273.826	1.5	4P (3F)2D
339.0165	-4.639	73393.745	4.5	D5S2(7S)4F	102882.370	4.5	4F(5D)4[4]	344.0861	-3.216	57493.321	1.5	D5S2(7S)4P	86547.490	2.5	4P (1F)2F
339.1321	-2.740	33466.463	4.5	D6S (1G)2G	62945.038	3.5	4P (3F)4D	344.1277	-2.712	57493.321	1.5	D5S2(7S)4P	86543.974	1.5	4P (3P)4D
339.1893	-4.043	31483.176	3.5	D6S (3D)4D	60956.780	3.5	4P (3H)4G	344.1411	-1.470	99372.225	4.5	5S (3F)4F	70523.706	3.5	4P (3G)2D
339.3543	-2.459	77230.900	4.5	D5S2(7S)2H	106690.170	5.5	4SP(3I)2H	344.1907	-3.341	73492.125	3.5	D5S2(7S)4F	44444.878	3.5	4P (5D)4G
339.3749	-2.400	54902.315	1.5	D6S (3E)2G	84359.800	1.5	4P (1F)2D	344.2219	-2.881	31999.048	3.5	D7 (5D)2F	61041.748	2.5	4P (3H)4G
339.5528	-2.157	33501.253	3.5	D6S (1G)2G	62945.038	3.5	4P (3F)4D	344.2788	-4.458	31364.440	1.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
339.6459	-3.774	80346.016	0.5	5S (5D)4D	109780.000	1.5	280DD	344.3634	-4.439	50212.826	2.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P
339.8360	-2.172	32875.646	6.5	D6S (1I)2I	62293.164	6.5	4P (3H)2I	344.3686	-4.792	60441.033	1.5	D5S2(7S)4D	89471.365	0.5	5P (5D)6D
340.1524	-4.989	73492.215	3.5	D5S2(7S)4F	102882.370	4.5	4F(5D)4[4]	344.3771	-4.247	54275.637	2.5	D5S2(7S)4G	83305.251	3.5	4P (1F)2G
340.1840	-4.476	78577.280	4.5	D5S2(7S)2G	107964.700	4.5	210DD	344.3828	-3.569	18360.646	1.5	D7 (5D)2P	47389.779	1.5	4P (5D)4P
340.1984	-3.861	49100.976	0.5	D6S (3P)4P	78487.153	1.5	4P (1D)2D	344.4671	-4.079	77861.625	4.5	5S (5D)6D	106863.200	3.5	160DD
340.2022	-4.045	37227.326	0.5	D6S (1S)2S	66612.656	1.5	4P (3G)4F	344.4754	-2.686	37227.326	0.5	D6S (1S)2S	66248.660	0.5	4P (3P)2S
340.2322	-2.951	32909.905	5.5	D6S (1I)2I	62293.164	6.5	4P (3H)2I	344.5209	-2.548	99332.102	4.5	5S (3H)2H	70314.604	4.5	4P (3G)2G
340.2670	-4.929	102030.912	3.5	6S (5D)6D	72650.658	4.5	4P (3D)4F	344.5578	-3.098	31387.948	2.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
340.2865	-4.968	102394.718	3.5	6S (5D)4D	73016.147	3.5	4P (1G)2F	344.7101	-3.125	77861.625	4.5	5S (5D)6D	106863.200	3.5	160DD
340.3085	-4.017	103983.510	3.5	5S (3G)2G	74606.841	2.5	4P (3D)2D	344.7535	-2.767	54870.528	2.5	D5S2(7S)4D	89444.458	2.5	4SP(5P)6P
340.3187	-3.783	105291.010	3.5	4D (3F)4F	75915.215	2.5	4P (3D)2F	344.8430	-3.368	31999.048	3.5	D7 (5D)2F	60388.450	2.5	4P (1F)2D
340.3426	-4.426	99688.337	3.5	5S (3F)4F	70314.604	4.5	4P (3G)2G	344.8430	-3.368	31999.048	3.5	D7 (5D)2F	60388.450	2.5	4P (1F)2D
340.4479	-4.483	78525.407	2.5	5S (5D)6D	107886.600	3.5	200DD	344.9458	-3.667	23317.633	2.5	D5S2(7S)6S	52299.390	2.5	4SP(7S)8P
340.5422	-2.804	57411.065	2.5	D5S2(7S)4P	86767.577	2.5	4P (3P)4D	344.9493	-3.282	102584.963	5.5	5S (3G)4G	73603.500	5.5	4P (1I)2H
340.6757	-2.697	31811.822	2.5	D7 (5D)2F	61156.835	3.5	4P (3H)4D	345.1220	-1.472	54904.222	3.5	D6S (3F)2F	83871.184	4.5	4P (1F)2G
340.7916	-4.127	49506.934	1.5	D6S (3P)4P	78841.960	0.5	4P (1D)2P	345.1318	-1.560	54902.315	1.5	D6S (3P)2P	83868.450	2.5	4P (1F)2D
340.9192	-3.104	31483.176	3.5	D6S (3D)4D	60807.230	4.5	4P (3H)4G	345.1395	-2.803	57578.484	0.5	D5S2(7S)4P	86543.974	1.5	4P (3P)4D
341.0905	-4.439	78577.280	4.5	D5S2(7S)2G	107886.600	3.5	200DD	345.1546	-1.446	54904.222	3.5	D6S (3F)2F	83868.450	2.5	4P (1F)2D
341.1528	-3.782	77861.625	4.5	5S (5D)6D	107165.600	3.5	170DD	345.1768	-3.487	98568.912	3.5	5S (3H)4H	69606.552	3.5	4P (3G)2F
341.3769	-4.212	105414.180	2.5	4D (3F)4G	76129.446	1.5	4P (1S)2P	345.2227	-3.015	78237.685	3.5	5S (5D)6D	107196.200	2.5	180DD
341.4136	-3.139	31811.822	2.5	D7 (5D)2F	61093.413	2.5	4P (3P)2D	345.2320	-4.470	31999.048	3.5	D7 (5D)2F	60956.781	3.5	4P (3H)4G
341.4991	-2.414	57493.321	1.5	D5S2(7S)4P	86767.577	2.5	4P (3P)4D	345.2421	-3.554	73492.215	3.5	D5S2(7S)4F	102449.100	2.5	4SP(3D)2D
341.6021	-3.058	18360.646	1.5	D7 (5D)2P	47626.076	0.5	4P (5D)4P	345.3355	-4.308	73395.930	2.5	D5S2(7S)4F	44444.878	3.5	4P (3D)4D
341.6086	-3.363	23317.633	2.5	D5S2(7S)6S	52582.510	3.5	4SP(7S)8P	345.3616	-2.453	73393.745	4.5	D5S2(7S)4F	44444.878	3.5	4P (5D)4D
341.6690	-4.061	73492.215	3.5	D5S2(7S)4F	44232.512	4.5	4P (5D)4F	345.5879	-3.411	78237.685	3.5	5S (5D)6D	107165.600	3.5	170DD
341.6816	-2.408	99573.225	4.5	5S (3F)4F	70314.604	4.5	4P (3G)2G	345.6001	-4.860	13474.411	2.5	D7 (5D)4P	42401.302	1.5	4P (5D)6F
341.8033	-4.933	32909.905	5.5	D6S (1I)2I	62158.110	4.5	4P (3F)4F	345.6924	-2.013	31483.176	3.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
341.9154	-2.826	102842.119	4.5	5S (3G)4G	73603.500	5.5	4P (1I)2H	345.7012	-4.183	98568.912	3.5	5S (3H)4H	69650.484	2.5	4P (3G)2F
342.0170	-3.717	31811.822	2.5	D7 (5D)2F	61041.748	2.5	4P (3H)4G	345.8122	-4.487	54844.650	4.5	D7 (5D)2G	44753.799	3.5	4P (5D)4F
342.4658	-4.526	79439.467	3.5	5S (5D)4D	62662.244	5.5	4P (3H)2I	345.8886	-3.986	47674.721	1.5	D7 (5D)2D	76577.482	0.5	4P (1S)2P
342.5010	-4.168	33501.253	3.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	345.9756	-3.518	57493.321	1.5	D5S2(7S)4P	86388.820	0.5	4P (3P)4D
342.5446	-4.786	60441.033	1.5	D5S2(7S)4D	89625.940	1.5	4SP(5P)6P	345.9874	-2.983	79885.493	2.5	5S (5D)4D	108780.000	1.5	270DD
342.5563	-3.455	49506.934	1.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D	346.0903	-4.821	60445.219	2.5	D5S2(7S)4D	89331.195	1.5	5P (5D)6D
342.5575	-3.296	13474.411	2.5	D7 (5D)4P	42658.224	3.5	4P (5D)6P	346.2529	-3.591	102842.119	4.5	5S (3G)4G	79369.767	5.5	4P (1I)2I
342.5944	-4.874	60445.275	2.5	D5S2(7S)4D	89625.940	1.5	4SP(5P)6P	346.3235	-3.252	73637.340	1.5	D5S2(7S)4F	102503.810	1.5	4SP(3D)2D
342.6173	-4.734	60270.339	3.5	D5S2(7S)4D	89444.458	2.5	4SP(5P)6P	346.3962	-3.995	13474.411	2.5	D7 (5D)4P	42334.822	2.5	4P (5D)6F
342.6821	-3.704	32909.905	5.5	D6S (1I)2I	62083.108	4.5	4P (3H)2G	346.4400	-3.256	36252.918	2.5	D6S (3D)2D	65109.679	3.5	4P (3F)2D
342.8227	-2.725	73393.745	4.5	D5S2(7S)4F	44232.512	4.5	4P (5D)4F	346.4495	-2.381	33466.463	4.5	D6S (1G)2G	42322.431	3.5	4P (3H)2G
342.8632	-2.980	31999.048	3.5	D7 (5D)2F	61156.835	3.5	4P (3H)4H	346.4902	-4.281	37367.340	1.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D
343.0142	-3.632	31811.822	2.5	D7 (5D)2F	60956.781	3.5	4P (3H)4G	346.6552	-3.394	98445.400	4.5	5S (3H)4H	69606.552	3.5	4P (3G)2F
343.1146	-3.624	57411.065	2.5	D5S2(7S)4P	86547.490	2.5	4P (1F)2D	346.6856	-2.667	38164.194	2.5	D6S (1D)2D	70000.517	2.5	4P (3F)2D
343.1560	-3.705	57411.065	2.5	D5S2(7S)4P	86543.974	1.5	4P (3P)4D	346.6866	-4.616	44915.046	3.5	D6S (1F)2F	73751.282	4.5	4P (1I)2H
343.1774	-4.162	79439.467	3.5	5S (5D)4D	108570.560	4.5	4SP(3G)4G	346.7173	-4.326	102584.963	5.5	5S (3G)4G	73751.282	4.5	4P (1I)2H
343.4305	-3.576	38164.194	2.5	D6S (1D)2D	67273.826	1.5	4P (3F)2D	346.8660	-1.841	78185.030	3.5	D5S2(7S)2G	107006.350	4.5	4SP(3I)2H
343.4511	-3.839	73395.930	2.5	D5S2(7S)4F	102503.810	1.5	4SP(3D)2D	346.8677	-1.525	33501.253	3.5	D6S (1G)2G	62322.431	3.5	4P (3H)2D
343.5345	-4.696	50142.786	2.5	D6S (3F)4F	79243.600	1.5	4P (1D)2P	346.9811	-4.216	79243.600	1.5	D5S2(7S)4F	102449.100	2.5	4SP(3D)2D
343.6107	-2.080	31999.048	3.5	D7 (5D)2F	61093.413	2.5	4P (3P)2D	346.9983	-2.831	57578.484	0.5	D5S2(7S)4P	86388.820	0.5	4P (3P)4D
343.6523	-3.998	102842.119	4.5	5S (3G)4G	73751.282	4.5	4P (1I)2H	347.0217	-1.101	99332.102	4.5	5S (3H)2H	70523.706	3.5	4P (3G)2G
343.6977	-4.943	60384.370	0.5	D5S2(7S)4D	89471.365	0.5	5P (5D)6D	347.0242	-4.029	31999.048	3.5	D7 (5D)2F	60807.230	4.5	4P (3H)4G
343.8781	-2.946	57411.065	2.5	D5S2(7S)4P	86482.750	3.5	4P (1F)2F	347.1260	-2.455	79439.467	3.5	5S (5D)6D	108239.200	3.5	240DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
347.2915	-3.189	99093.457	1.5	D6S (1D)2D	67000.517	2.5	4P (3F)2D	351.4124	-4.199	38164.194	2.5	D6S (1D)2D	66612.656	1.5	4P (3C)4F
347.3780	-0.791	90093.452	5.5	5S (3H)2H	70314.604	4.5	4P (3G)2G	351.4288	-4.072	79439.467	3.5	5S (5D)4D	107886.600	3.5	200DD
347.5254	-4.607	13673.185	1.5	D7 (5D)4F	42439.822	0.5	4P (5D)6F	351.5822	-1.630	54870.528	2.5	D6S (3F)2F	83305.251	3.5	4P (1F)2G
347.5739	-3.515	13474.411	2.5	D7 (5D)4F	42237.033	3.5	4P (5D)6F	351.5913	-3.863	80346.016	0.5	5S (5D)4D	108780.000	1.5	270DD
347.7798	-4.205	79885.493	2.5	5S (5D)4F	108631.090	3.5	4SP(3G)4G	351.6296	-2.966	73637.340	1.5	D5S2(7S)4F	45206.450	0.5	4P (5D)4D
347.8560	-4.168	18886.780	0.5	D7 (5D)2P	47626.076	0.5	4P (5D)4F	351.6521	-3.381	78577.280	4.5	D5S2(7S)2G	107006.350	4.5	4SP(31)2H
347.8667	-3.235	73492.215	3.5	D5S2(7S)4F	44753.799	3.5	4P (5D)4F	351.8212	-5.051	16369.360	3.5	D7 (5D)2G	44784.761	2.5	4P (5D)4F
347.9914	-3.848	13673.185	1.5	D7 (5D)4F	42401.302	1.5	4P (5D)6F	351.8592	-3.290	73492.215	3.5	D5S2(7S)4F	78487.153	1.5	4P (1D)2D
348.2047	-5.003	16369.360	3.5	D7 (5D)2G	45079.879	2.5	4P (5D)4F	351.8727	-4.934	50075.910	1.5	D6S (3F)4F	78487.153	1.5	4P (1D)2D
348.2391	-4.678	36126.387	1.5	D6S (3D)2D	64834.073	1.5	4P (3P)2P	351.9712	-3.707	31999.048	3.5	D7 (5D)2F	60402.342	2.5	4P (3P)4F
348.2419	-2.804	73492.215	3.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D	351.9993	-2.798	54904.222	3.5	D6S (3F)2F	83305.251	3.5	4P (1F)2G
348.2500	-4.073	100749.810	2.5	5S (3F)2F	72043.026	1.5	4P (3D)4F	352.0350	-4.937	38214.507	1.5	D6S (1D)2D	66612.656	1.5	4P (3G)4F
348.4338	-2.130	33466.463	4.5	D6S (1G)2G	62158.110	4.5	4P (3F)4F	352.0395	-2.785	100749.810	2.5	5S (3F)2F	72352.024	3.5	4P (3D)4F
348.4400	-3.556	79439.467	3.5	5S (5D)4D	108130.600	2.5	220DD	352.1625	-4.539	15844.650	4.5	D7 (5D)2G	44732.512	4.5	4P (5D)4F
348.5740	-2.806	36126.387	1.5	D6S (3D)2D	64806.487	0.5	4P (3P)2P	352.2050	-5.750	16369.360	3.5	D7 (5D)2G	44732.512	4.5	4P (5D)4F
348.6080	-3.827	32909.905	5.5	D6S (1I)2I	61587.214	5.5	4P (3H)4I	352.2281	-4.003	103983.510	3.5	5S (3G)2G	75600.931	3.5	4P (3D)2F
348.6872	-3.188	78525.407	2.5	5S (5D)6D	107196.200	2.5	180DD	352.4883	-2.517	100492.020	3.5	5S (3F)2F	72130.390	4.5	4P (1G)2H
348.7986	-3.642	13673.185	1.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F	352.5320	-4.249	38164.194	2.5	D6S (1D)2D	66522.304	2.5	4P (3C)4F
348.8568	-3.797	33501.253	3.5	D6S (1G)2G	62158.110	4.5	4P (3F)4F	352.5868	-3.877	79885.493	2.5	5S (5D)4D	108239.200	3.5	240DD
348.9163	-3.354	32875.646	6.5	D6S (1I)2I	61527.616	6.5	4P (3H)4I	352.6110	-2.793	73395.930	2.5	D5S2(7S)4F	45044.168	1.5	4P (5D)4D
348.9365	-3.180	33501.253	3.5	D6S (1G)2G	62151.561	2.5	4P (3F)4F	352.6635	-3.324	73637.340	1.5	D5S2(7S)4F	45289.801	1.5	4P (5D)4D
349.0361	-3.823	73395.930	2.5	D5S2(7S)4F	44753.799	3.5	4P (5D)4F	352.7030	-4.981	50142.786	2.5	D6S (3F)4F	78487.153	1.5	4P (1D)4D
349.0598	-3.878	78525.407	2.5	5S (5D)6D	107165.600	3.5	170DD	352.7053	-4.291	60270.339	3.5	D5S2(7S)4D	86614.520	4.5	4SP(5F)6D
349.0628	-3.044	73393.745	4.5	D5S2(7S)4F	44753.799	3.5	4P (5D)4F	352.7848	-3.270	78525.407	2.5	5S (5D)6D	106863.200	3.5	160DD
349.2388	-2.715	78237.685	3.5	5S (5D)6D	106863.200	3.5	160DD	352.9794	-4.454	87985.628	2.5	4D (5D)4F	59663.456	1.5	4P (3P)4S
349.3172	-3.884	60384.370	0.5	D5S2(7S)4D	89003.460	0.5	4P (3P)2S	353.0557	-3.270	73395.930	2.5	D5S2(7S)4F	49663.456	1.5	4P (5D)4F
349.3470	-1.203	33466.463	4.5	D6S (1G)2G	62083.108	4.5	4P (3H)2G	353.1586	-4.593	38214.507	1.5	D6S (1D)2D	66522.304	2.5	4P (3C)4F
349.4139	-3.110	73395.930	2.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D	353.1797	-3.157	79885.493	2.5	5S (5D)4D	108191.600	1.5	230DD
349.4673	-3.153	18360.646	1.5	D7 (5D)2P	46967.444	2.5	4P (5D)4D	353.1971	-3.174	36126.387	1.5	D6S (3D)2D	64425.408	2.5	4P (3F)2F
349.5170	-4.078	32909.905	5.5	D6S (1I)2I	61512.634	4.5	4P (3H)4I	353.2682	-3.434	31364.440	1.5	D6S (3D)4D	59663.456	1.5	4P (3P)4S
349.5231	-4.182	15844.650	4.5	D7 (5D)2G	44446.878	3.5	4P (5D)4D	353.2794	-2.038	58631.531	4.5	D6S (1G)2G	86929.649	3.5	4P (3P)4D
349.5256	-3.606	80177.975	1.5	5S (5D)4D	108780.000	1.5	270DD	353.3183	-4.370	31368.450	0.5	D6S (3D)4D	59663.456	1.5	4P (3P)4S
349.5618	-2.426	33466.463	4.5	D6S (1G)2G	62065.521	3.5	4P (3F)4F	353.4318	-4.192	78577.280	4.5	D5S2(7S)2G	106863.200	3.5	160DD
349.6338	-3.265	73637.340	1.5	D5S2(7S)4F	45044.168	1.5	4P (5D)4D	353.5619	-2.985	31387.948	2.5	D6S (3D)4D	59663.456	1.5	4P (3P)4S
349.6931	-3.874	78577.280	4.5	D5S2(7S)2G	107165.600	3.5	170DD	353.7135	-3.908	58666.258	3.5	D6S (1G)2G	86929.649	3.5	4P (3P)4D
349.7559	-4.531	60270.339	3.5	D5S2(7S)4D	88853.533	3.5	5P (5D)6D	353.7608	-3.365	33466.463	4.5	D6S (1G)2G	61726.077	3.5	4P (3F)4D
349.7722	-3.070	33501.253	3.5	D6S (1G)2G	62083.108	4.5	4P (3H)2G	353.7614	-3.768	44929.550	2.5	D6S (1F)2F	73189.110	1.5	4P (3D)2P
349.7808	-4.863	36252.918	2.5	D6S (3D)2D	64834.073	1.5	4P (3P)2P	353.8272	-4.619	98568.912	3.5	5S (3H)4H	70314.604	4.5	4P (3G)2G
349.7850	-3.539	100749.810	2.5	5S (3F)2F	72168.998	1.5	4P (3D)4F	353.8372	-3.232	100492.020	3.5	5S (3F)2F	72238.513	2.5	4P (3G)4F
349.9876	-2.497	33501.253	3.5	D6S (1G)2G	62065.521	3.5	4P (3F)4F	353.9425	-4.889	79885.493	2.5	5S (5D)4D	108130.600	2.5	220DD
350.0102	-3.911	60441.033	1.5	D5S2(7S)4D	89003.460	0.5	4P (3P)2S	354.0003	-2.374	47674.721	1.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F
350.0710	-3.951	73637.340	1.5	D5S2(7S)4F	45079.879	2.5	4P (3P)2S	354.0003	-2.374	47674.721	1.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F
350.1863	-4.954	50142.786	2.5	D6S (3F)4F	78690.846	2.5	4P (1D)2D	354.1539	-3.017	44915.046	3.5	D6S (1F)2F	73143.288	3.5	4P (1G)2D
350.3466	-3.931	13904.824	0.5	D7 (5D)4F	42439.822	0.5	4P (5D)6F	354.1916	-3.387	100749.810	2.5	D6S (1G)2G	72524.566	1.5	4P (3D)4D
350.4410	-4.962	100492.020	3.5	5S (3F)2F	71964.710	2.5	4P (3D)4F	354.3360	-2.705	44929.550	2.5	D6S (1F)2F	61726.077	3.5	4P (3P)4D
350.4624	-3.705	88189.030	0.5	4D (5D)4F	59663.456	1.5	4P (3P)4S	354.3442	-4.764	38164.194	2.5	D6S (1D)2D	66377.283	3.5	4P (3G)4F
350.4666	-2.331	79439.467	3.5	5S (5D)4D	107964.700	4.5	210DD	354.5875	-3.545	80177.975	1.5	5S (5D)4D	108371.700	1.5	250DD
350.6379	-3.090	100749.810	2.5	5S (3F)2F	72238.513	2.5	4P (3D)4F	354.7858	-4.430	44915.046	3.5	D5S2(7S)4F	101573.900	1.5	4SP(5D)4P
350.7399	-3.947	18886.780	0.5	D7 (5D)2P	47389.779	1.5	4P (5D)4F	354.8038	-2.490	78690.846	2.5	D6S (1F)2F	73091.590	4.5	4P (1G)2D
350.7399	-3.551	18886.780	0.5	D7 (5D)2P	47389.779	1.5	4P (5D)4F	354.8548	-3.995	36252.918	2.5	D6S (3D)2D	64425.408	2.5	4P (3F)2F
350.8202	-3.975	13904.824	0.5	D7 (5D)4F	42401.302	1.5	4P (5D)6F	355.2552	-3.673	81639.260	2.5	D5S2(7S)2F	109780.000	1.5	280DD
350.8549	-4.341	88157.116	1.5	4D (5D)4F	59663.456	1.5	4P (3P)4S	355.2646	-2.246	100492.020	3.5	5S (3F)2F	72352.024	3.5	4P (3D)4F
350.9208	-4.796	79885.493	2.5	5S (5D)4D	108373.800	3.5	260DD	355.2666	-3.441	44915.046	3.5	D6S (1F)2F	73054.881	2.5	4P (1G)2F
350.9467	-4.637	79885.493	2.5	5S (5D)4D	108371.700	1.5	250DD	355.3808	-4.195	98445.400	4.5	5S (3H)4H	70314.604	4.5	4P (3G)2G
351.0476	-4.273	50212.826	2.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D	355.3868	-3.065	100749.810	2.5	5S (3F)2F	72619.490	2.5	4P (3D)4D
351.1222	-3.840	32875.646	6.5	D6S (1I)2I	61347.614	7.5	4P (3H)4I	355.4498	-3.207	44929.550	2.5	D6S (1F)2F	73054.881	2.5	4P (1G)2F
351.1414	-3.273	78725.790	1.5	5S (5D)6D	107196.200	2.5	180DD	355.5077	-3.821	33466.463	4.5	D6S (1G)2G	61587.214	5.5	4P (3H)4I
351.3776	-4.940	80177.975	1.5	5S (5D)4D	108629.250	2.5	4SP(3G)4G	355.6071	-1.845	78577.280	4.5	D5S2(7S)2G	106690.170	5.5	4SP(31)2H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL			
355.6845	-3.921	99093.452	5.5	5S (3H)2H	70986.677	6.5	4P (11)2K	361.0334	-2.955	33466.463	4.5	D6S (1G)2G	61156.835	3.5	4P (3H)4H	355.6927	-3.417	73395.930	2.5	D5S2(7S)4F	44929.550	2.5	D6S (1F)2F	72619.490	2.5	4P (3D)4D
355.7536	-3.296	44915.046	3.5	D6S (1G)2G	86767.577	2.5	4P (3P)4D	361.1679	-4.631	99918.569	1.5	5S (3F)4F	72238.513	2.5	4P (3D)4D	355.7964	-2.716	100749.810	2.5	5S (3F)2F	77472.730	2.5	4P (1D)2F	61156.835	3.5	4P (3H)4H
355.8924	-4.201	48039.090	2.5	D6S (1F)2F	72651.876	3.5	4P (3D)4D	361.4876	-2.074	33501.253	3.5	D6S (1G)2G	72168.998	1.5	4P (3D)4F	355.8924	-4.704	44929.550	2.5	D6S (1F)2F	88059.380	2.5	4SP(5P)6D	87964.650	1.5	4SP(5P)6D
356.0551	-5.387	16369.360	3.5	D7 (5D)2G	70126.147	3.5	4P (1S)2P	362.1270	-1.557	37227.326	0.5	D6S (1S)2S	73143.288	3.5	4P (1G)2G	356.1652	-2.385	36252.918	2.5	D6S (3D)2D	60402.342	2.5	4P (3P)4F	87964.650	1.5	4SP(5P)6D
356.1721	-1.454	103983.510	3.5	5S (3G)2G	75915.215	2.5	4P (3D)2F	362.2163	-4.788	50142.786	2.5	D6S (3F)4F	77742.730	2.5	4P (1G)2F	356.4654	-3.489	98568.912	3.5	5S (3H)4H	72524.566	1.5	4P (3D)4D	61093.413	2.5	4P (3P)2P
356.4654	-3.489	98568.912	3.5	5S (3H)4H	70523.706	3.5	4P (3G)2G	362.3185	-3.241	33501.253	3.5	D6S (1G)2G	72238.513	2.5	4P (3F)4F	356.6059	-2.657	38214.507	1.5	D6S (1D)2D	72238.513	2.5	4P (3D)4F	72238.513	2.5	4P (3D)4F
356.6152	-2.385	36252.918	2.5	D6S (3D)2D	662486.360	0.5	4P (3F)2F	362.4350	-3.875	87985.626	2.5	4D (5D)4D	60402.342	2.5	4P (3P)4F	356.7137	-2.912	80346.016	0.5	5S (5D)4D	60402.342	2.5	4P (3P)4F	60402.342	2.5	4P (3P)4F
356.7137	-2.912	80346.016	0.5	5S (5D)4D	108371.700	1.5	250DD	362.4745	-4.850	60384.370	0.5	D5S2(7S)4D	87964.650	1.5	4SP(5P)6D	357.0268	-2.302	79885.493	2.5	5S (5D)4D	87964.650	1.5	4SP(5P)6D	87964.650	1.5	4SP(5P)6D
356.8886	-3.546	32875.646	6.5	D6S (1I)2I	108191.600	1.5	230DD	362.4893	-1.837	37227.326	0.5	D6S (1S)2S	64806.487	0.5	4P (3P)2P	357.2973	-3.544	50157.452	4.5	D6S (3F)4F	77742.730	2.5	4P (1G)2F	77742.730	2.5	4P (1G)2F
357.5271	-4.076	32875.646	6.5	D6S (1I)2I	60887.598	5.5	4P (3H)4H	362.7321	-4.912	100749.810	2.5	5S (3F)2F	73189.110	1.5	4P (3D)2P	357.5271	-4.076	32875.646	6.5	D6S (1I)2I	77742.730	2.5	4P (1G)2F	77742.730	2.5	4P (1G)2F
357.5385	-2.932	36126.387	1.5	D6S (3D)2D	64087.418	2.5	4P (3F)4G	362.7683	-4.650	99688.337	3.5	5S (3F)4F	72130.390	4.5	4P (1G)2H	357.5385	-2.932	36126.387	1.5	D6S (3D)2D	60402.342	2.5	4P (3P)4F	60402.342	2.5	4P (3P)4F
357.6303	-4.415	99918.569	1.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	362.8082	-4.537	50187.813	3.5	D6S (3F)4F	77742.730	2.5	4P (1G)2H	357.6303	-4.415	99918.569	1.5	5S (3F)4F	60402.342	2.5	4P (3P)4F	60402.342	2.5	4P (3P)4F
357.6460	-2.818	80177.975	1.5	5S (5D)4D	108130.600	2.5	220DD	362.8612	-3.484	106836.000	3.5	4P2(7P)8P	79285.110	2.5	4SP(5S)6P	357.6460	-2.818	80177.975	1.5	5S (5D)4D	87964.650	1.5	4SP(5P)6D	87964.650	1.5	4SP(5P)6D
357.6854	-4.714	50187.813	3.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F	363.4733	-3.133	106836.000	3.5	4P2(7P)8P	79331.500	3.5	4SP(5S)6P	357.6854	-4.714	50187.813	3.5	D6S (3F)4F	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P
357.9657	-4.966	32909.905	5.5	D6S (1I)2I	60837.569	6.5	4P (3H)4H	363.4733	-3.133	106836.000	3.5	4P2(7P)8P	79331.500	3.5	4SP(5S)6P	357.9657	-4.966	32909.905	5.5	D6S (1I)2I	60936.781	3.5	4P (3H)4G	60936.781	3.5	4P (3H)4G
358.0058	-4.122	50212.826	2.5	D6S (3P)4F	78137.364	3.5	4P (1D)2F	363.6801	-2.049	99918.569	1.5	5S (3F)4F	72429.711	0.5	4P (3D)4H	358.0058	-4.122	50212.826	2.5	D6S (3P)4F	78137.364	3.5	4P (1D)2F	78137.364	3.5	4P (1D)2F
358.0423	-3.087	98445.400	4.5	5S (3H)4H	70523.706	3.5	4P (3G)2G	363.6889	-4.829	99688.337	3.5	D6S (1G)2G	72238.513	2.5	4P (3D)4F	358.0423	-3.087	98445.400	4.5	5S (3H)4H	60989.444	4.5	4P (3H)4H	60989.444	4.5	4P (3H)4H
358.4748	-2.401	107219.500	4.5	4P2(7P)8P	79331.500	3.5	4SP(5S)6P	363.8436	-4.108	49100.976	0.5	D6S (3P)4P	76577.482	0.5	4P (1S)2P	358.4748	-2.401	107219.500	4.5	4P2(7P)8P	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P
358.5619	-1.438	58666.258	3.5	D6S (1G)2G	86547.490	2.5	4P (1F)2F	363.8520	-1.532	100492.020	3.5	5S (3F)2F	73016.147	3.5	4P (1G)2F	358.5619	-1.438	58666.258	3.5	D6S (1G)2G	86547.490	2.5	4P (1F)2F	86547.490	2.5	4P (1F)2F
358.6276	-3.767	48039.090	2.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F	363.9030	-2.582	99824.045	2.5	5S (3F)4F	72352.024	3.5	4P (3D)4F	358.6276	-3.767	48039.090	2.5	D7 (5D)2D	60936.781	3.5	4P (3H)4G	60936.781	3.5	4P (3H)4G
358.6738	-2.700	100492.020	3.5	5S (3F)2F	72619.490	2.5	4P (3D)4D	364.1216	-3.361	33501.253	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	358.6738	-2.700	100492.020	3.5	5S (3F)2F	72619.490	2.5	4P (3D)4D	72619.490	2.5	4P (3D)4D
358.7867	-3.496	38214.507	1.5	D6S (1D)2D	66078.269	2.5	4P (3G)4G	364.1677	-4.350	105589.420	3.5	4D (3F)4H	78137.364	3.5	4P (1D)2F	358.7867	-3.496	38214.507	1.5	D6S (1D)2D	60936.781	3.5	4P (3H)4G	60936.781	3.5	4P (3H)4G
358.7945	-6.441	16369.360	3.5	D7 (5D)2G	44232.512	4.5	4P (5D)4F	364.1973	-3.104	99688.337	3.5	5S (3F)4F	72238.513	2.5	4P (3D)4F	358.7945	-6.441	16369.360	3.5	D7 (5D)2G	44232.512	4.5	4P (5D)4F	44232.512	4.5	4P (5D)4F
358.8437	-3.172	99824.045	2.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	364.2900	-3.318	99573.225	4.5	5S (3F)4F	72130.390	4.5	4P (1G)2H	358.8437	-3.172	99824.045	2.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	71964.710	2.5	4P (3D)4P
358.9483	-1.294	58631.531	4.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	364.3656	-2.437	100492.020	3.5	D6S (1F)2F	72352.024	3.5	4P (3D)4F	358.9483	-1.294	58631.531	4.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	86482.750	3.5	4P (1F)2F
359.0754	-2.500	100492.020	3.5	5S (3F)2F	72650.658	4.5	4P (3D)4F	364.3678	-3.383	44915.046	3.5	D6S (1F)2F	72352.024	3.5	4P (3D)4F	359.0754	-2.500	100492.020	3.5	5S (3F)2F	72650.658	4.5	4P (3D)4F	72650.658	4.5	4P (3D)4F
359.0911	-1.732	100492.020	3.5	5S (3F)2F	72651.876	3.5	4P (3D)4D	364.4193	-4.409	36126.387	1.5	D6S (3D)2D	63559.488	0.5	4P (3F)4D	359.0911	-1.732	100492.020	3.5	5S (3F)2F	72651.876	3.5	4P (3D)4D	72651.876	3.5	4P (3D)4D
359.1639	-3.828	36252.918	2.5	D6S (3D)2D	64087.418	2.5	4P (3F)4G	364.5438	-4.407	79439.467	3.5	5S (5D)4D	106863.200	3.5	4P (3F)4D	359.1639	-3.828	36252.918	2.5	D6S (3D)2D	64087.418	2.5	4P (3F)4G	64087.418	2.5	4P (3F)4G
359.3964	-3.216	58666.258	3.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	364.5605	-3.329	44929.550	2.5	D6S (1F)2F	72352.024	3.5	4P (3F)4D	359.3964	-3.216	58666.258	3.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	86482.750	3.5	4P (1F)2F
359.7514	-4.864	60270.339	3.5	D5S2(7S)4D	88059.380	2.5	4SP(5P)6D	364.5783	-4.133	33466.463	4.5	D6S (1G)2G	72352.024	3.5	4P (3F)4D	359.7514	-4.864	60270.339	3.5	D5S2(7S)4D	88059.380	2.5	4SP(5P)6D	88059.380	2.5	4SP(5P)6D
359.7653	-2.650	36252.918	2.5	D6S (3D)2D	64040.886	3.5	4P (3F)4G	364.5838	-4.133	33466.463	4.5	D6S (1G)2G	72352.024	3.5	4P (3F)4D	359.7653	-2.650	36252.918	2.5	D6S (3D)2D	64040.886	3.5	4P (3F)4G	64040.886	3.5	4P (3F)4G
359.8553	-2.180	99824.045	2.5	5S (3F)4F	72043.026	1.5	4P (3D)4P	364.9394	-2.552	99918.569	1.5	5S (3F)4F	72524.566	1.5	4P (3D)4D	359.8553	-2.180	99824.045	2.5	5S (3F)4F	72043.026	1.5	4P (3D)4P	72043.026	1.5	4P (3D)4P
360.0352	-4.057	38164.194	2.5	D6S (1D)2D	65931.334	3.5	4P (3G)4G	365.5435	-4.080	100492.020	3.5	5S (3F)2F	73143.288	3.5	4P (1G)2G	360.0352	-4.057	38164.194	2.5	D6S (1D)2D	65931.334	3.5	4P (3G)4G	65931.334	3.5	4P (3G)4G
360.1702	-4.475	79439.467	3.5	5S (5D)4D	107196.200	2.5	180DD	365.5605	-3.734	36126.387	1.5	D6S (3D)2D	63465.109	1.5	4P (3H)4D	360.1702	-4.475	79439.467	3.5	5S (5D)4D	107196.200	2.5	180DD	107196.200	2.5	180DD
360.1956	-3.383	88157.116	1.5	4D (5D)4D	60402.342	2.5	4P (3P)4P	365.6774	-4.449	36126.387	1.5	D6S (3D)2D	63465.109	1.5	4P (3H)4D	360.1956	-3.383	88157.116	1.5	4D (5D)4D	6					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
367.0101	-4.624	44929.550	2.5	D6S (1F)2F	72168.998	1.5	4P (3D)4F	372.4228	-4.332	78185.030	3.5	D5S2(7S)2G	105028.600	3.5	4SP(3I)4H
367.2561	-3.490	99573.225	4.5	5S (3F)4F	72352.024	3.5	4P (3D)4F	372.5204	-2.696	36126.387	1.5	D6S (3D)2D	62962.205	1.5	4P (3P)4D
367.3352	-3.805	44915.046	3.5	D6S (1F)2F	72130.390	4.5	4P (1G)2H	372.5305	-4.542	81734.750	3.5	D5S2(7S)2F	108570.560	4.5	4SP(3G)4G
367.3777	-4.159	36252.918	2.5	D6S (3D)2D	63465.109	1.5	4P (3F)4D	372.5872	-3.139	99093.452	5.5	5S (3H)2H	72261.729	5.5	4P (1G)2H
367.4809	-2.411	99824.045	2.5	5S (3F)4F	72619.490	2.5	4P (3D)4D	372.6896	-3.456	88157.116	1.5	4D (5D)4F	61332.764	1.5	4P (3P)4F
367.5193	-3.220	99332.102	4.5	5S (3H)2H	72130.390	4.5	4P (1G)2H	372.7037	-1.978	47674.721	1.5	D7 (5D)2D	74498.057	1.5	4P (3D)2D
367.5231	-4.131	60270.339	3.5	D5S2(7S)4D	87471.765	4.5	4SP(5G)6F	372.8394	-6.005	15844.650	4.5	D5 (3F)4G	42658.224	3.5	4P (5D)6P
367.6115	-4.894	60441.033	1.5	D5S2(7S)4D	87635.920	0.5	4SP(5P)6D	373.2885	-4.472	57578.484	0.5	D5S2(7S)4P	84359.800	1.5	4P (1F)2D
367.9226	-4.840	81734.750	3.5	D5S2(7S)2F	72651.876	3.5	4SP(3G)4H	373.4580	-4.777	99824.045	2.5	5S (3F)4F	73054.881	2.5	4P (1G)2F
368.0975	-3.969	33466.463	4.5	D6S (1G)2G	60625.449	5.5	4P (3H)4D	373.5437	-3.912	73637.340	1.5	D5S2(7S)4F	100400.360	2.5	4SP(3I)4H
368.1247	-4.845	60445.275	2.5	D5S2(7S)4D	87602.250	1.5	4SP(5G)6F	373.6868	-4.240	78185.030	3.5	D5S2(7S)2G	104937.800	4.5	4SP(3I)4H
368.1685	-4.184	88189.030	0.5	4D (5D)4F	61035.287	0.5	4P (3P)4F	373.9710	-3.176	81639.260	2.5	D5S2(7S)2F	108371.700	1.5	250DD
368.1698	-4.904	105291.010	3.5	4D (3F)4G	78137.364	3.5	4P (1D)2F	373.9871	-2.696	99918.569	1.5	5S (3F)4F	73187.280	0.5	4P (3D)2P
368.2656	-4.073	36126.387	1.5	D6S (3D)2D	63272.976	2.5	4P (3F)4D	374.0127	-3.263	99918.569	1.5	5S (3F)4F	73187.280	0.5	4P (3D)2P
368.3449	-3.269	81639.260	2.5	D5S2(7S)2F	108868.980	4.5	4SP(3G)4H	374.1559	-4.426	18360.646	1.5	D7 (5D)2P	45079.879	2.5	4P (5D)4F
368.4333	-4.959	81734.750	3.5	D5S2(7S)2F	87572.431	2.5	4SP(5G)6F	374.2952	-4.966	36252.918	2.5	D6S (3D)2D	62962.205	1.5	4P (3P)4D
368.4718	-4.690	60441.033	1.5	D5S2(7S)4D	87572.431	2.5	4SP(5G)6F	374.3877	-4.126	36126.387	1.5	D6S (3D)2D	62829.075	0.5	4P (3P)4D
368.6018	-4.799	88157.116	1.5	4D (5D)4F	61035.287	0.5	4P (3P)4F	374.5359	-3.414	36252.918	2.5	D6S (3D)2D	62945.038	3.5	4P (3F)4D
368.6896	-4.541	88157.116	1.5	4D (5D)4F	61041.748	2.5	4P (3H)4G	374.6566	-3.830	18360.646	1.5	D7 (5D)2P	45044.168	1.5	4P (5D)4D
368.7153	-3.697	44929.550	2.5	D6S (1F)2F	72043.026	1.5	4P (3D)4F	374.6858	-2.237	99332.102	4.5	5S (3H)2H	72650.658	4.5	4P (3D)4F
369.0025	-4.325	60445.275	2.5	D5S2(7S)4D	87537.652	3.5	4SP(5G)6F	374.7029	-2.153	99332.102	4.5	5S (3H)2H	72651.876	3.5	4P (3D)2P
369.3000	-4.587	49506.934	1.5	D6S (3P)4F	76577.482	0.5	4P (1S)2P	374.8158	-3.170	99688.337	3.5	5S (3F)4F	73016.147	3.5	4P (1G)2F
369.3024	-3.746	99332.102	4.5	5S (3H)2H	72261.729	5.5	4P (1G)2H	374.8483	-1.637	38164.194	2.5	D6S (1D)2D	64834.073	1.5	4P (3P)2P
369.3232	-1.532	99688.337	3.5	5S (3F)4F	72619.490	2.5	4P (3D)4D	374.9969	-3.529	60270.339	3.5	D5S2(7S)4D	86929.075	0.5	4P (3P)4D
369.3934	-3.484	88157.116	1.5	4D (5D)4F	61093.413	2.5	4P (3P)2D	374.9969	-3.529	60270.339	3.5	D5S2(7S)4D	86929.075	0.5	4P (3P)4D
369.5852	-3.573	44915.046	3.5	D6S (1F)2F	71964.710	2.5	4P (3D)4F	375.0876	-4.929	87989.628	2.5	4D (5D)4F	61332.764	1.5	4P (3P)4F
369.7490	-2.636	99688.337	3.5	5S (3F)4F	72650.658	4.5	4P (3D)4F	375.3401	-2.583	99824.045	2.5	5S (3F)4F	73189.110	1.5	4P (3D)2F
369.7657	-4.618	99688.337	3.5	5S (3F)4F	72650.658	4.5	4P (3D)4F	375.3609	-3.082	99688.337	3.5	5S (3F)4F	73084.881	2.5	4P (1G)2F
369.7835	-4.417	44929.550	2.5	D6S (3P)4D	76129.446	1.5	4P (1S)2P	375.5568	-2.530	38214.507	1.5	D6S (1D)2D	64834.073	1.5	4P (3P)2P
369.8750	-3.643	49100.976	0.5	D6S (3P)4D	76129.446	1.5	4P (1S)2P	375.8339	-4.847	81639.260	2.5	D5S2(7S)2F	108239.200	3.5	240DD
369.9901	-3.907	36252.918	2.5	D6S (3D)2D	63272.976	2.5	4P (3F)4D	375.9464	-1.969	38214.507	1.5	D6S (1D)2D	64834.073	1.5	4P (3P)2P
370.0152	-3.827	80177.975	1.5	5S (5D)4D	107196.200	2.5	4P (3F)4D	376.2893	-1.841	48039.090	2.5	D7 (5D)2D	74606.841	2.5	4P (3P)2D
370.0221	-4.463	105155.090	4.5	4D (3F)4G	78137.364	3.5	4P (1D)2F	376.3496	-3.900	36126.387	1.5	D6S (3D)2D	62689.880	2.5	4P (3P)4D
370.2043	-3.435	73395.930	2.5	D5S2(7S)4F	100400.360	2.5	4SP(3P)2D	376.4405	-2.490	20830.582	2.5	D6S (3P)4F	47389.779	1.5	4P (5D)4F
370.4023	-4.123	81639.260	2.5	D5S2(7S)2F	108629.250	2.5	4SP(3G)4G	376.6111	-3.130	99688.337	3.5	5S (3F)4F	73016.147	3.5	4P (1G)2F
370.5384	-3.530	99332.102	4.5	5S (3H)2H	72352.024	3.5	4P (3D)4F	376.8990	-4.717	73492.215	3.5	D5S2(7S)4F	46967.444	2.5	4P (5D)4P
370.5710	-3.492	79885.493	2.5	5S (5D)4D	106863.200	3.5	160DD	377.1880	-4.112	81734.750	3.5	D5S2(7S)2F	111929.000	2.5	290DD
370.7723	-2.681	99093.452	5.5	5S (3H)2H	72130.390	4.5	4P (1G)2H	377.2906	-4.942	60270.339	3.5	D5S2(7S)4D	86767.577	2.5	4P (3P)4D
371.0141	-3.698	38164.194	2.5	D6S (1D)2D	65109.679	3.5	4P (3F)2G	377.3746	-4.860	81639.260	2.5	D5S2(7S)2F	108130.600	2.5	220DD
371.0362	-4.738	87985.628	2.5	4D (5D)4F	61041.748	2.5	4P (3H)4G	377.4739	-3.979	60445.275	2.5	D5S2(7S)4D	86929.075	0.5	4P (3P)4D
371.1409	-4.713	86599.738	2.5	4D (5D)4F	59663.456	1.5	4P (3P)4S	377.5129	-2.594	99573.225	4.5	5S (3F)4F	73091.590	4.5	4P (1G)2G
371.1982	-2.777	47674.721	1.5	D7 (5D)2D	74606.841	2.5	4P (3D)4D	377.7340	-4.194	85462.862	3.5	4D (5D)4G	111929.000	2.5	290DD
371.2391	-5.506	18360.646	1.5	D7 (5D)2P	45289.801	1.5	4P (5D)4F	377.7422	-1.674	105711.730	2.5	5D (5D)6S	79246.170	1.5	4SP(5S)6P
371.3300	-1.982	99573.225	4.5	5S (3F)4F	72650.658	4.5	4P (3D)4F	377.8364	-3.256	48039.090	2.5	D7 (5D)2D	74498.057	1.5	4P (3P)2D
371.3468	-1.827	99573.225	4.5	5S (3F)4F	72650.658	4.5	4P (3D)4F	377.8590	-4.197	57411.065	2.5	D5S2(7S)4P	83868.450	2.5	4P (1F)2D
371.5290	-2.783	73492.215	3.5	D5S2(7S)4F	100400.360	3.5	4SP(3P)2D	377.9576	-4.128	20516.960	2.5	D7 (5D)2D	46967.444	2.5	4P (5D)4P
371.6264	-4.743	33501.253	3.5	D6S (1G)2G	60402.342	2.5	4P (3P)4D	378.1850	-2.481	99093.452	5.5	5S (3H)2H	72650.658	4.5	4P (3D)4F
371.6612	-4.608	10589.420	3.5	4D (3F)4H	78690.846	2.5	4P (1D)2D	378.1286	-4.921	98568.912	3.5	5S (3H)4H	72130.390	4.5	4P (1G)2H
371.6921	-4.290	81734.750	3.5	D5S2(7S)2F	108631.090	3.5	4SP(1G)4G	378.1509	-2.840	36252.918	2.5	D6S (3D)2D	62689.880	2.5	4P (3P)4D
371.7491	-3.674	87985.628	2.5	4D (5D)4F	61093.413	2.5	4P (3P)2D	378.2514	-1.545	99573.225	4.5	5S (3F)4F	73143.288	3.5	4P (1G)2G
371.9125	-4.868	85048.602	1.5	4D (5D)4D	111929.000	2.5	290DD	378.2989	-1.784	105711.730	2.5	5D (5D)6S	79285.110	2.5	4SP(5S)6P
372.0174	-4.815	20516.960	2.5	D7 (5D)2D	47389.779	1.5	4P (5D)4P	378.3347	-3.349	18360.646	1.5	D7 (5D)2P	44784.761	2.5	4P (5D)4D
372.0672	-7.216	16369.360	3.5	D7 (5D)2G	43238.586	2.5	4P (5D)6P	378.5015	-3.920	73395.930	2.5	D5S2(7S)4F	99808.400	3.5	4P (1G)2G
372.1052	-4.284	57493.321	1.5	D5S2(7S)4P	84359.800	1.5	4P (1F)2D	378.6370	-5.236	18886.780	0.5	D7 (5D)2P	45289.801	1.5	4P (5D)4F
372.1439	-3.608	99918.569	1.5	5S (3F)4F	73054.881	2.5	4P (1G)2F	378.7399	-3.561	81734.750	3.5	D5S2(7S)2F	108130.600	2.5	220DD
372.2467	-4.110	88189.030	0.5	4D (5D)4F	61332.764	1.5	4P (3P)4F	378.7896	-5.989	15844.650	4.5	D7 (5D)2G	42237.033	3.5	4P (5D)6F
372.3918	-5.117	18360.646	1.5	D7 (5D)2P	45206.450	0.5	4P (5D)4D	378.9017	-3.149	105630.750	2.5	5D (5D)4G	79246.170	1.5	4SP(5S)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
378.9641	-2.010	105711.730	2.5	5D (5D)6S	79331.500	3.5	4SP(5S)6P	384.2995	-3.337	86416.333	3.5	4D (5D)4F	60402.342	2.5	4P (3P)4P
379.0374	-4.166	57493.321	1.5	D5S2(7S)4P	83868.450	2.5	4P (1F)2D	384.4242	-4.973	80157.116	1.5	4D (5D)4D	62151.561	2.5	4P (3F)4F
379.2475	-4.497	78577.280	4.5	D5S2(7S)2G	104937.800	2.5	4SP(3I)4H	384.4405	-3.924	60384.370	0.5	D5S2(7S)4D	86388.820	0.5	4P (3P)4D
379.4617	-3.296	105630.750	2.5	5D (5D)4G	79285.110	2.5	4SP(5S)6P	384.4788	-1.284	99093.452	5.5	5S (3H)2H	73091.590	4.5	4P (1G)2G
379.6559	-3.935	37227.326	0.5	D6S (1S)2S	63559.488	0.5	4P (3F)4D	384.5180	-2.279	36126.387	1.5	D6S (3D)2D	62126.387	1.5	4P (3P)2D
379.6813	-3.470	98568.912	3.5	5S (3H)4H	72238.513	2.5	4P (3D)4F	384.6306	-4.402	36252.918	2.5	D6S (3D)2D	62244.520	1.5	4P (3F)4F
379.7981	-3.373	60445.275	2.5	D5S2(7S)4D	86767.577	2.5	4P (3P)4D	385.0178	-6.625	16369.360	3.5	D7 (5D)2D	42334.822	2.5	4P (3F)6F
379.8361	-4.399	18886.780	0.5	D7 (5D)2P	45206.450	0.5	4P (5D)4D	385.1044	-4.458	105205.790	2.5	5D (5D)6G	79246.170	1.5	4SP(5S)6P
379.8597	-4.376	21308.040	1.5	D7 (5D)2D	47626.076	0.5	4P (5D)4P	385.2058	-2.233	77230.900	4.5	D5S2(7S)2H	103183.700	3.5	4SP(3D)2F
379.8864	-4.599	79392.215	3.5	D5S2(7S)4F	99808.400	3.5	4P (1G)2G	385.2558	-3.925	89568.912	3.5	5S (3H)4H	72619.490	2.5	4P (3D)4D
379.8897	-1.738	99332.102	4.5	5S (3H)2H	73016.147	3.5	4P (1G)2F	385.2801	-4.192	60441.033	1.5	D5S2(7S)4D	86388.820	0.5	4P (3F)4F
379.9034	-4.391	98445.400	4.5	5S (3H)4H	72130.390	4.5	4P (1G)2H	385.3287	-4.749	88189.030	0.5	4D (5D)4P	62244.520	1.5	4P (3F)4F
380.1311	-3.525	105630.750	2.5	5D (5D)4G	79331.500	3.5	4SP(5S)6P	385.4211	-4.475	78237.685	3.5	5S (5D)6D	52299.390	2.5	4SP(7S)8P
380.2812	-7.377	16369.360	3.5	D7 (5D)2G	42658.224	3.5	4P (5D)6F	385.4462	-4.728	87985.628	2.5	4D (5D)4P	62049.025	2.5	4SP(7S)6P
380.5519	-6.159	15844.650	4.5	D7 (5D)2G	42114.818	4.5	4P (5D)6F	385.6830	-4.205	105205.790	2.5	5D (5D)6G	79285.110	2.5	4SP(5S)6P
380.6281	-3.322	73492.215	3.5	D5S2(7S)4F	99757.120	4.5	4P (1G)2G	385.6915	-2.748	87985.628	2.5	4D (5D)4P	62065.521	3.5	4P (3F)4F
380.6816	-4.636	38164.194	2.5	D6S (1D)2D	64425.408	2.5	4P (3F)2F	385.7191	-4.655	98568.912	3.5	5S (3H)4H	72650.658	4.5	4P (3D)4F
380.7058	-2.496	87985.628	2.5	4D (5D)4P	61726.077	3.5	4P (3P)4D	385.7434	-4.380	98568.912	3.5	5S (3H)4H	72651.876	3.5	4P (3D)4D
380.8188	-3.027	100749.810	2.5	5S (3F)2F	74498.057	1.5	4P (3D)2D	385.8033	-4.899	88157.116	1.5	4D (5D)4P	62244.520	1.5	4P (3F)4F
380.8544	-4.552	85679.698	2.5	4D (5D)4G	111929.000	2.5	290DD	385.8033	-4.899	88157.116	1.5	4D (5D)4P	62244.520	1.5	4P (3F)4F
380.9181	-1.768	103983.510	3.5	5S (3G)2G	99635.520	3.5	4SP(3G)2G	386.0012	-4.442	36252.918	2.5	D6S (3D)2D	62151.561	2.5	4P (3F)4F
380.9636	-4.843	73393.745	4.5	D5S2(7S)4F	7742.730	2.5	4P (1D)2F	386.2120	-3.155	100492.020	3.5	5S (3F)2F	74606.841	2.5	4P (3D)2D
380.9820	-3.336	99332.102	4.5	5S (3H)2H	73091.590	4.5	4P (1G)2G	386.2654	-2.962	386.3386	-2.962				
380.9954	-3.129	73395.930	2.5	D5S2(7S)4F	99635.520	3.5	4SP(3G)2G	386.3386	-2.962	386.3386	-2.962				
380.9964	-4.179	78577.280	4.5	D5S2(7S)2F	104816.800	5.5	4SP(3I)4H	386.3745	-4.619	105205.790	2.5	5D (5D)6G	79331.500	3.5	4SP(5S)6P
381.0216	-4.388	37227.326	0.5	D6S (1S)2S	63465.109	1.5	4P (3F)4D	386.3951	-2.675	38214.507	1.5	D6S (1D)2D	64087.418	2.5	4P (3F)4G
381.1354	-4.992	81734.750	3.5	D5S2(7S)2F	107964.700	4.5	210DD	386.3985	-2.675	38214.507	1.5	D6S (1D)2D	64087.418	2.5	4P (3F)4G
381.1926	-4.658	78525.407	2.5	5S (5D)6D	52299.390	2.5	4SP(7S)8P	386.4624	-3.842	96520.918	2.5	D6S (3D)2D	62126.1729	5.5	4P (1G)2H
381.3253	-4.771	98568.912	3.5	5S (3H)4H	72352.024	3.5	4P (3D)4F	386.4733	-7.626	16369.360	3.5	D7 (5D)2G	42237.033	3.5	4P (5D)6F
381.3659	-4.545	88189.030	0.5	4D (5D)4P	61974.933	1.5	4SP(7S)6P	386.5876	-4.016	87985.628	2.5	4D (5D)4P	62125.521	1.5	4P (3P)2D
381.3904	-3.831	60270.339	3.5	D5S2(7S)4D	86482.750	3.5	4P (1F)2F	386.7593	-3.877	36126.387	1.5	D6S (3D)2D	61974.933	1.5	4SP(7S)6P
381.4124	-2.316	38214.507	1.5	D6S (1D)2D	64425.408	2.5	4P (3F)2F	386.7952	-2.739	103983.510	3.5	5S (3G)2G	78137.364	3.5	4P (1D)2F
381.6090	-4.718	86599.738	2.5	4D (5D)4F	60402.342	2.5	4P (3P)4P	386.8474	-3.143	105127.770	2.5	5D (5D)4D	79285.110	2.5	4SP(5S)6P
381.6090	-4.718	86599.738	2.5	4D (5D)4F	60402.342	2.5	4P (3P)4P	386.8474	-3.143	105127.770	2.5	5D (5D)4D	79285.110	2.5	4SP(5S)6P
381.8091	-1.787	99332.102	4.5	5S (3H)2H	73143.288	3.5	4P (1G)2G	386.8976	-4.416	50075.910	1.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F
381.8091	-4.660	98445.400	4.5	5S (3H)4H	72261.729	5.5	4P (1G)2H	387.1578	-1.951	99573.225	4.5	5S (3F)4F	73751.282	4.5	4P (1I)2H
382.0001	-4.334	105414.180	2.5	4D (3F)4G	79243.600	1.5	4P (1D)2P	387.2766	-3.488	21812.055	1.5	D6S (3F)4P	47626.076	0.5	4P (5D)4P
382.1399	-2.632	73492.215	3.5	D5S2(7S)4F	99635.520	4.5	4SP(3G)2G	387.2766	-3.488	21812.055	1.5	D6S (3F)4P	47626.076	0.5	4P (5D)4P
382.1927	-4.013	18886.780	0.5	D7 (5D)2P	45044.168	1.5	4P (5D)4D	387.2767	-4.961	36252.918	2.5	D6S (3D)2D	62065.521	3.5	4P (3F)4F
382.2736	-4.366	81734.750	3.5	D5S2(7S)2F	107886.600	3.5	200DD	387.2979	-4.249	87985.628	2.5	D6S (3D)2D	62065.521	3.5	4P (3F)4F
382.3986	-3.229	100749.810	2.5	D5S2(7S)4F	99635.520	3.5	4SP(3G)2G	387.5431	-2.717	105127.770	2.5	5D (5D)4D	79331.500	3.5	4SP(5S)6P
382.4035	-3.602	73492.215	3.5	D5S2(7S)4F	99635.520	3.5	4SP(3G)2G	387.5844	-3.505	98445.400	4.5	5S (3H)4H	72651.876	3.5	4P (3D)4D
382.4929	-3.273	20830.582	2.5	D6S (3P)4P	46967.444	2.5	4P (3D)2D	387.7799	-3.022	105065.630	3.5	5D (5D)6G	79285.110	2.5	4SP(5S)6P
382.6900	-9.872	15844.650	4.5	D7 (5D)2G	41968.046	5.5	4P (5D)6F	387.9016	-4.011	50142.786	2.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F
382.7083	-2.426	38164.194	2.5	D6S (1D)2D	64286.345	3.5	4P (3F)2F	388.2485	-4.781	77230.900	4.5	D5S2(7S)2H	102980.300	5.5	4SP(3I)4I
382.7672	-3.362	36126.387	1.5	D6S (3D)2D	62244.520	1.5	4P (3F)4F	388.3080	-8.030	16369.360	3.5	D7 (5D)2G	42114.818	4.5	4P (5D)6F
382.9383	-4.793	60441.033	1.5	D5S2(7S)4D	86547.490	2.5	4P (1F)2F	388.3080	-8.030	16369.360	3.5	D7 (5D)2G	42114.818	4.5	4P (5D)6F
382.9899	-3.480	60441.033	1.5	D5S2(7S)4D	86543.974	1.5	4P (3P)4D	388.4676	-2.136	388.4676	-2.136				
383.0522	-3.826	60445.275	2.5	D5S2(7S)4D	86547.490	2.5	4P (1F)2F	388.4789	-4.057	105065.630	3.5	5D (5D)6G	79331.500	3.5	4SP(5S)6P
383.0522	-3.826	60445.275	2.5	D5S2(7S)4D	86547.490	2.5	4P (1F)2F	388.5805	-4.867	50187.813	3.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F
383.0522	-3.826	60445.275	2.5	D5S2(7S)4D	86547.490	2.5	4P (1F)2F	388.5805	-4.867	50187.813	3.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F
383.1303	-3.465	98445.400	4.5	5S (3H)4H	72352.024	3.5	4P (3D)4F	389.3653	-4.752	86710.837	1.5	4D (5D)4F	61041.748	0.5	4P (3P)4F
383.3013	-4.686	21308.040	1.5	D7 (5D)2D	47389.779	1.5	4P (5D)4P	389.4633	-2.136	389.4633	-2.136				
383.4810	-3.147	36252.918	2.5	D6S (3D)2D	7232.024	3.5	4P (3H)2G	389.5527	-4.152	87985.628	2.5	4D (5D)4P	62322.431	3.5	4P (3H)2G
383.5423	-4.101	85728.806	1.5	4D (5D)4S	59663.456	1.5	4P (3P)4S	389.6745	-4.398	21308.040	1.5	D7 (5D)2D	47389.779	1.5	4P (5D)4P
383.5705	-3.813	88189.030	0.5	4D (5D)4P	61225.600	1.5	4P (3P)2D	389.8482	-3.105	98294.401	5.5	5S (3H)4H	72650.658	4.5	4P (3D)4F
383.8609	-4.974	105288.530	1.5	5D (5D)6G	79246.170	1.5	4SP(5S)6P	389.8602	-1.990	86599.738	2.5	4D (5D)4F	60956.781	3.5	4P (3H)4G
383.9529	-4.194	60445.275	2.5	D5S2(7S)4D	86482.750	3.5	4P (1F)2F	390.2488	-3.101	86710.837	1.5	4D (5D)4F	61093.413	2.5	4P (3P)2D
384.0408	-3.596	88157.116	1.5	4D (5D)4P	62125.600	1.5	4P (3P)2D	390.2488	-3.101	86710.837	1.5	4D (5D)4F	61093.413	2.5	4P (3P)2D
384.1344	-4.767	36126.387	1.5	D6S (3D)2D	62151.561	2.5	4P (3F)4F	390.3823	-4.069	44915.046	3.5	D6S (1F)2F	70523.706	3.5	4P (3G)2G
								390.4616	-2.930	99573.225	4.5	5S (3F)4F	73969.767	5.5	4P (1I)2I

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
390.4877	-4.931	37227.326	0.5	D6S (1S)2S	62829.075	0.5	4P (3F)4D	394.6886	-4.319	86599.738	2.5	4D (5D)4F	111929.000	2.5	290DD
390.6035	-1.703	44929.550	2.5	D6S (1F)2F	70523.706	3.5	4P (3G)2G	394.7076	-3.452	88157.116	1.5	4D (5D)4F	62829.075	0.5	4P (3F)4D
390.6957	-1.827	104879.230	3.5	48P(5S)6P	79285.110	2.5	48P(5S)6P	394.7396	-4.063	98924.045	2.5	5S (3F)4F	74498.057	1.5	4P (3D)2D
390.7893	-2.070	104828.160	2.5	5D (5D)6D	79246.170	1.5	48P(5S)6P	394.7874	-3.329	86416.333	3.5	4D (5D)4F	61093.413	2.5	4P (3P)2D
390.8072	-1.588	99332.102	4.5	5S (3H)2H	73751.282	1.5	4P (11)2H	394.8786	-2.745	86124.301	4.5	4D (5D)4F	60807.230	4.5	4P (3H)4G
390.8545	-5.074	21812.055	1.5	D6S (3F)4F	47389.779	1.5	4P (5D)4F	395.0889	-1.903	104588.710	1.5	5D (5D)6D	79285.110	2.5	4SP(5S)6P
391.1563	-2.870	86599.738	2.5	4D (5D)4F	61041.748	2.5	4P (3H)4G	395.1121	-3.396	98445.400	4.5	5S (3H)4H	73143.288	3.5	4P (1G)2G
391.1724	-4.376	81639.260	2.5	D5S2(7S)2F	107196.200	2.5	180DD	395.2115	-2.798	87985.628	2.5	4D (5D)4F	62689.880	2.5	4P (3P)4D
391.3851	-2.285	104828.160	2.5	5D (5D)6D	79285.110	2.5	48P(5S)6P	395.2597	-2.815	103983.510	3.5	5S (3G)2G	78690.846	2.5	4P (1D)2D
391.4053	-2.275	104879.230	3.5	5D (5D)4D	79331.500	3.5	48P(5S)6P	395.4716	-4.064	77861.625	4.5	5S (5D)6D	52582.150	3.5	4SP(7S)8P
391.4503	-4.351	13474.411	2.5	D7 (5D)4F	39013.206	1.5	4P (5D)6D	395.6616	-3.656	86599.738	2.5	4D (5D)4F	61332.768	1.5	4P (3P)4F
391.4778	-3.826	104868.500	4.5	5D (5D)6G	79331.500	3.5	48P(5S)6P	395.7626	-4.930	82978.677	4.5	4D (5D)6F	108239.200	3.5	240DD
391.8247	-3.495	47674.721	1.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P	395.7660	-6.786	18360.646	1.5	D7 (5D)2P	43260.957	1.5	4P (5D)6P
391.8302	-4.098	98568.912	3.5	5S (3H)4H	73054.881	2.5	4P (1G)2F	395.7787	-3.852	86416.333	3.5	4D (5D)4F	61156.835	3.5	4P (3H)4H
391.8528	-2.552	47674.721	1.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P	395.8409	-6.650	21711.917	3.5	D6S (3H)4H	46967.444	2.5	4P (5D)4P
391.8777	-2.276	104757.110	0.5	5D (5D)6D	79246.170	1.5	48P(5S)6P	395.9181	-4.284	18214.507	1.5	D6S (1D)2H	63465.109	1.5	4P (3F)4D
391.9021	-4.129	85172.809	0.5	4D (5D)4D	59663.456	1.5	4P (3P)4S	396.0899	-1.527	58631.531	4.5	D6S (1G)2G	83871.184	4.5	4P (1F)2G
391.9486	-4.104	86599.738	2.5	4D (5D)4F	61093.413	2.5	4P (3P)2D	396.1362	-3.651	86124.301	4.5	4D (5D)4F	60887.598	5.5	4P (3H)4H
391.9660	-4.988	82978.677	4.5	4D (5D)6F	108483.870	5.5	48P(3G)4G	396.2913	-3.235	88189.030	0.5	4D (5D)4F	62962.200	1.5	4P (3P)4D
391.9695	-4.387	73393.745	4.5	D5S2(7S)2F	98898.710	3.5	4P (1G)2F	396.4274	-2.770	86710.837	1.5	4D (5D)4F	111929.000	2.5	290DD
392.0031	-4.049	73393.745	2.5	D5S2(7S)4F	98898.710	3.5	4P (1G)2F	396.4579	-4.091	22409.852	0.5	D6S (3P)4P	47626.076	0.5	4P (5D)4P
392.0672	-1.569	86124.301	4.5	4D (5D)4F	60625.449	5.5	4P (3H)4G	396.5966	-4.914	84870.863	2.5	4D (5D)4D	59663.456	1.5	4P (3P)4S
392.0935	-1.946	104828.160	2.5	5D (5D)6D	79331.500	3.5	48P(5S)6P	396.6128	-3.376	36126.387	1.5	D6S (3D)2D	61332.764	1.5	4P (3P)4F
392.2004	-1.362	99093.452	5.5	5S (3H)2H	73603.500	5.5	4P (11)2H	396.6356	-3.028	58666.258	3.5	D6S (1G)2G	83871.184	4.5	4P (1F)2G
392.3948	-4.158	98568.912	3.5	5S (3H)4H	73091.590	4.5	4P (1G)2G	396.6426	-5.765	13904.824	0.5	D7 (5D)6D	93109.307	0.5	4P (5D)6D
392.4838	-1.592	103608.909	4.5	5S (3G)2G	78137.364	3.5	4P (1D)2F	396.6674	-2.487	73393.745	4.5	D5S2(7S)4F	98596.650	4.5	4SP(5D)4F
392.5502	-2.826	88157.116	1.5	4D (5D)4P	62689.880	2.5	4P (3P)4D	396.6689	-3.323	98294.401	5.5	5S (3H)4H	73091.590	4.5	4P (1G)2G
392.6394	-4.380	81734.750	3.5	D5S2(7S)2F	107196.200	2.5	180DD	396.7933	-2.917	88157.116	1.5	4D (5D)4F	62962.205	1.5	4P (3P)4D
392.6687	-2.702	86416.333	3.5	4D (5D)4F	60956.781	3.5	4P (3H)4G	396.9373	-5.036	13673.185	1.5	D7 (5D)4F	38858.958	2.5	4P (5D)6D
392.9168	-4.990	50157.452	4.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F	396.9395	-4.019	13474.411	2.5	D7 (5D)4F	38660.043	3.5	4P (5D)6D
392.9257	-2.946	86599.738	2.5	4D (5D)4F	61156.835	3.5	4P (3H)4H	397.0237	-3.242	104426.460	2.5	5D (5D)6F	79246.170	1.5	4SP(5S)6P
393.0021	-4.292	13673.185	1.5	D7 (5D)4P	39109.307	0.5	4P (5D)6D	397.0260	-2.493	86124.301	4.5	4D (5D)4F	60956.781	3.5	4P (3H)4G
393.0621	-4.985	83136.487	3.5	4D (5D)6F	108570.560	4.5	48P(3G)4G	397.2251	-4.913	54062.340	1.5	D6S (3P)2P	79246.170	1.5	4P (1D)2D
393.1119	-4.372	81734.750	3.5	D5S2(7S)2F	107165.600	3.5	170DD	397.4167	-3.476	21812.055	1.5	D6S (3P)4F	46967.444	2.5	4P (5D)4P
393.1731	-2.656	86416.333	3.5	4D (5D)4F	60959.444	4.5	4P (3H)4H	397.5016	-2.492	48039.090	2.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P
393.1927	-4.738	99568.912	3.5	5S (3H)4H	73143.288	3.5	4P (1G)2G	397.5166	-1.739	78185.030	3.5	D5S2(7S)2G	103334.100	2.5	4SP(3D)2F
393.2718	-4.600	99918.569	1.5	5S (3F)4F	74498.057	1.5	4P (3D)2D	397.5196	-3.351	100749.810	2.5	5S (3F)2F	75600.931	3.5	4P (3D)2F
393.2749	-1.847	104705.420	3.5	5D (5D)6D	79285.110	2.5	48P(5S)6P	397.6267	-3.724	73393.745	4.5	D5S2(7S)4F	98535.850	3.5	4SP(5D)4F
393.3862	-3.844	50187.813	3.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F	397.6386	-2.477	104426.460	2.5	5D (5D)6F	79285.110	2.5	4SP(5S)6P
393.4887	-2.981	73490.976	0.5	D6S (1F)2F	98898.710	3.5	4P (3D)2D	397.6613	-3.411	73393.930	2.5	D5S2(7S)4F	98535.850	3.5	4SP(5D)4F
393.5962	-1.709	44915.046	3.5	D6S (1F)2F	70314.604	4.5	4P (3G)2G	397.7414	-3.719	86124.301	4.5	4D (5D)4F	60989.444	4.5	4P (3H)4H
393.7738	-3.941	50212.826	2.5	D6S (3P)4P	75600.931	3.5	4P (3D)2F	397.8428	-4.385	81734.750	3.5	D5S2(7S)2F	106863.200	3.5	160DD
393.8197	-3.746	85048.602	1.5	4D (5D)4D	59663.456	1.5	4P (3F)4S	397.8717	-2.331	99093.452	5.5	5S (3H)2H	73969.767	5.5	4P (11)2I
393.8290	-4.032	13474.411	2.5	D7 (5D)4P	38858.958	2.5	4P (5D)6D	397.9182	-3.042	99093.452	5.5	5S (3H)2H	73969.767	5.5	4P (11)2I
393.8334	-1.877	104630.430	1.5	5D (5D)6P	79246.170	1.5	48P(5S)6P	398.1446	-4.934	77230.900	4.5	D5S2(7S)2H	102340.300	5.5	4SP(3I)4K
393.8770	-1.790	104630.430	1.5	5D (5D)6D	79246.170	1.5	48P(5S)6P	398.1544	-4.059	38164.194	2.5	D6S (1D)2D	63272.976	2.5	4P (3F)4D
393.9294	-4.764	86710.837	1.5	4D (5D)4F	61332.764	1.5	4P (3P)4P	398.1608	-5.290	13904.824	0.5	D7 (5D)4F	98513.206	1.5	4P (5D)6D
393.9894	-2.621	73393.930	2.5	D5S2(7S)4F	98770.140	1.5	48P(5D)4D	398.1608	-5.290	13904.824	0.5	D7 (5D)4F	98513.206	1.5	4P (5D)6D
394.0939	-2.615	104705.420	3.5	5D (5D)6D	79331.500	3.5	48P(5S)6P	398.2234	-3.985	73492.215	3.5	D5S2(7S)4F	99013.400	1.5	4P (5D)6D
394.1739	-2.582	99332.102	4.5	5S (3H)2H	99007.700	0.5	48P(5D)4D	398.2271	-4.741	48039.090	2.5	D7 (5D)2D	73143.288	3.5	4P (1G)2G
394.2109	-2.951	88189.030	0.5	4D (5D)4P	73969.767	5.5	4P (11)2I	398.2952	-3.447	49506.934	1.5	D6S (3P)4P	74606.841	2.5	4P (3D)2D
394.4385	-2.189	104630.430	1.5	5D (5D)6P	62829.075	0.5	4P (3P)4D	398.3399	-4.000	104380.940	3.5	5D (5D)6F	79285.110	2.5	4SP(5S)6P
394.4438	-4.127	38214.507	1.5	D6S (1D)2D	63559.488	0.5	4P (3F)4D	398.3737	-1.732	104426.460	2.5	5D (5D)6F	79331.500	3.5	4SP(5S)6P
394.4818	-3.376	104588.710	1.5	5D (5D)6D	79246.170	1.5	48P(5S)6P	398.5645	-4.585	83726.364	4.5	4D (5D)6D	108809.310	5.5	4SP(3G)4H
394.4875	-2.485	99093.452	5.5	5S (3H)2H	73751.282	1.5	4P (11)2H	398.5876	-4.078	99688.337	3.5	5S (3F)4F	74606.841	2.5	4P (3D)2D
394.5210	-4.396	13673.185	1.5	D7 (5D)4P	39013.206	1.5	4P (5D)6D	398.6083	-1.646	104411.690	1.5	5D (5D)6D	79331.500	3.5	4SP(5S)6P
								398.9539	-3.747	82214.507	1.5	D6S (1D)2D	63272.976	2.5	4P (3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
399.0977	-1.574	104380.940	3.5	5D (5D)6F	79331.500	3.5	4SP(5S)6P	404.6807	-4.164	36252.918	2.5	D6S (3D)2D	60956.781	3.5	4P (3H)4G
399.1902	-2.848	73492.215	3.5	D5S2(7S)4F	98535.850	3.5	4SP(5D)4F	404.7286	-4.514	73637.340	1.5	D5S2(7S)4F	98338.280	1.5	4SP(3P)4S
399.2387	-3.036	87985.628	2.5	4D (5D)4P	62945.038	3.5	4P (3F)4D	404.8404	-3.491	98445.400	4.5	5S (3H)4I	73751.282	4.5	4P (1I)2H
399.5126	-3.562	87985.628	2.5	4D (5D)4P	62962.205	1.5	4P (3P)4D	404.8502	-4.495	85728.806	1.5	4D (5D)4S	61035.1287	0.5	4P (3F)4P
399.6345	-3.183	48039.090	2.5	D7 (5D)2D	73054.881	2.5	4P (1G)2F	404.8750	-4.603	88187.116	1.5	4D (5D)4P	63465.109	1.5	4P (3F)4D
399.6809	-2.558	73492.215	3.5	D5S2(7S)4F	98505.100	2.5	4SP(5D)4D	404.8832	-2.238	44915.046	3.5	D6S (1F)2F	69606.552	3.5	4P (3G)2F
399.9082	-3.267	78185.030	3.5	D5S2(7S)2G	103183.700	3.5	4SP(3D)2F	404.8931	-3.190	98294.401	5.5	5S (3H)4H	73603.500	5.5	4P (1I)2H
399.9256	-2.297	73393.745	4.5	D5S2(7S)4F	98391.330	3.5	4SP(5D)4D	405.1121	-3.203	44929.550	2.5	D6S (1F)2F	69606.552	3.5	4P (3G)2F
400.2083	-3.654	22409.852	0.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P	405.1217	-3.406	58631.531	4.5	D6S (1G)2G	83305.251	3.5	4P (1F)2G
400.2543	-2.001	48039.090	2.5	D7 (5D)2D	73016.147	3.5	4P (1G)2F	405.2475	-2.046	104000.810	3.5	5D (5D)6P	79331.500	3.5	4SP(5S)6P
400.4080	-4.229	86124.301	4.5	4D (5D)4F	61156.835	3.5	4P (3H)4H	405.4723	-3.384	85462.862	3.5	4D (5D)4G	60807.230	4.5	4P (3H)4G
400.4141	-3.576	36126.387	1.5	D6S (3D)2D	61093.413	2.5	4P (3P)4D	405.6265	-3.302	85048.602	1.5	4D (5D)4D	60402.342	2.5	4P (3P)4P
400.5482	-2.839	73395.930	2.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	405.7461	-1.656	58666.258	3.5	D6S (1G)2G	83305.251	3.5	4P (1F)2G
400.7724	-3.346	47674.721	1.5	D7 (5D)2D	72619.490	2.5	4P (3D)4D	405.7633	-4.082	85679.698	2.5	4D (5D)4G	61041.748	2.5	4P (3H)4G
400.8112	-4.001	73395.930	2.5	D5S2(7S)4F	98338.280	1.5	4SP(5P)4S	405.9018	-4.893	88189.030	0.5	4D (5D)4P	63559.488	0.5	4P (3F)4D
400.9098	-4.036	108804.667	3.5	5S (3D)4D	83868.450	2.5	4P (1F)2D	405.9799	-4.848	86599.738	2.5	4D (5D)4F	61974.933	1.5	4SP(7S)6P
401.2454	-3.434	36126.387	1.5	D6S (3D)2D	61041.748	2.5	4P (3H)4H	406.0532	-4.338	100749.810	2.5	5S (3F)2F	76129.446	1.5	4P (1S)2P
401.3457	-4.223	84870.863	2.5	4D (5D)4D	109780.000	1.5	280DD	406.0742	-2.131	103950.590	4.5	D6S (1D)2D	79331.500	3.5	4SP(5S)6P
401.3495	-4.980	36126.387	1.5	D6S (3D)2D	61035.287	0.5	4P (3P)4P	406.1488	-4.929	38214.507	1.5	D6S (1D)2D	62829.075	0.5	4P (3P)4D
401.4298	-4.757	36252.918	2.5	D6S (3D)2D	61156.835	3.5	4P (3H)4H	406.1782	-2.229	48039.090	2.5	D7 (5D)2D	72651.876	3.5	4P (3D)4D
401.4333	-4.502	86416.333	3.5	4D (5D)4F	62125.600	1.5	4P (3P)2D	406.2205	-4.295	85172.809	0.5	4D (5D)4D	109780.000	1.5	280DD
401.5208	-4.662	37227.326	0.5	D6S (1S)2S	62125.600	1.5	4P (3P)2D	406.2833	-1.762	78577.280	4.5	D5S2(7S)2G	103183.700	3.5	4SP(3D)2F
401.5208	-4.662	37227.326	0.5	D6S (1S)2S	62125.600	1.5	4P (3P)2D	406.2833	-1.762	78577.280	4.5	D5S2(7S)2G	103183.700	3.5	4SP(3D)2F
401.6367	-2.045	100492.020	3.5	5S (3F)2F	75600.931	3.5	4P (3F)2F	406.4475	-5.601	23031.300	1.5	D6S (3F)2F	47626.076	0.5	4P (5D)4P
401.7488	-3.249	88157.116	1.5	4D (5D)4P	63272.976	2.5	4P (3F)4D	406.6160	-4.464	85679.698	2.5	4D (5D)4G	61093.413	2.5	4P (3P)2D
401.8490	-5.911	18360.646	1.5	D7 (5D)2P	43238.586	2.5	4P (5D)6P	406.7788	-4.804	100492.020	3.5	5S (3F)2F	75915.215	2.5	4P (3D)2F
401.9110	-3.684	104120.270	2.5	5D (5D)6P	79246.170	1.5	4SP(5S)6P	406.9883	-3.076	47674.721	1.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F
401.9181	-3.698	86599.738	2.5	4D (5D)4F	61726.077	3.5	4P (3P)4D	407.0028	-5.285	20516.960	2.5	D7 (5D)2D	45079.879	2.5	4P (5D)4F
402.0135	-4.389	73637.340	1.5	D5S2(7S)4F	98505.100	2.5	4SP(5D)4D	407.0630	-3.156	85184.734	4.5	4D (5D)4G	60625.449	5.5	4P (3H)4G
402.0994	-3.102	73492.215	3.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	407.0632	-3.368	86710.837	1.5	4D (5D)4F	62151.561	2.5	4P (3F)4F
402.1871	-4.541	83713.536	3.5	4D (5D)6D	108570.560	4.5	4SP(3G)4G	407.0734	-3.074	73637.340	1.5	D5S2(7S)4F	98196.000	1.5	4SP(3D)4F
402.3033	-4.748	47674.721	1.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D	407.4119	-4.186	47674.721	1.5	D7 (5D)2D	72212.978	0.5	4P (3D)4P
402.4320	-4.116	98445.400	4.5	5S (3H)4H	73603.500	2.5	4P (1I)2H	407.4790	-3.785	86599.738	2.5	4D (5D)4F	62065.521	3.5	4P (3F)4D
402.4547	-2.130	36252.918	2.5	D6S (3D)2D	61093.413	2.5	4P (3P)2D	407.5954	-4.944	20516.960	2.5	D7 (5D)2D	45044.168	1.5	4P (5D)4D
402.5412	-2.412	104120.270	2.5	5D (5D)6P	79285.110	2.5	4SP(5S)6P	407.6050	-3.881	98130.131	6.5	5S (3H)4H	73603.500	5.5	4P (1I)2H
402.5503	-2.242	100749.810	2.5	5S (3F)2F	75915.215	2.5	4P (3D)2F	407.6207	-3.972	38164.194	2.5	D6S (1D)2D	62689.880	2.5	4P (3P)4D
402.8255	-3.745	98568.912	3.5	5S (3H)4H	73751.282	4.5	4P (1I)2H	407.6676	-4.057	85679.698	2.5	4D (5D)4G	61156.835	3.5	4P (3F)4H
403.1108	-3.328	73395.930	2.5	D5S2(7S)4F	98196.000	1.5	4SP(5D)4F	407.7066	-4.738	87985.628	2.5	4D (5D)4P	63465.109	1.5	4P (3H)4D
403.1442	-3.270	38164.194	2.5	D6S (1D)2D	62962.205	1.5	4P (3P)4D	407.8344	-4.675	83726.364	4.5	4D (5D)6D	108239.200	3.5	240DD
403.2935	-3.115	36252.918	2.5	D6S (3D)2D	61041.748	2.5	4P (3H)4G	407.9468	-3.883	85462.862	3.5	4D (5D)4G	60956.781	3.5	4P (3H)4G
403.2945	-2.370	104120.270	2.5	5D (5D)6P	79331.500	3.5	4SP(5S)6P	408.1434	-4.954	47674.721	1.5	D7 (5D)2D	72168.998	1.5	4P (3D)4D
403.4235	-3.641	38164.194	2.5	D6S (1D)2D	62945.038	3.5	4P (3F)4D	408.2901	-4.006	48039.090	2.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D
403.4617	-4.642	54063.459	0.5	D6S (1P)2P	78841.960	0.5	4P (1D)2P	408.4793	-3.361	86599.738	2.5	4D (5D)4F	62125.600	1.5	4P (3P)2D
403.5338	-5.732	20516.960	2.5	D7 (5D)2D	45289.801	1.5	4P (5D)4F	408.4913	-4.610	85462.862	3.5	4D (5D)4G	60989.444	4.5	4P (3H)4H
403.6577	-4.485	78185.030	3.5	D5S2(7S)2G	102951.500	4.5	4SP(3I)4I	408.5730	-2.969	84870.862	2.5	4D (5D)4D	60402.342	2.5	4P (3P)4P
403.7755	-4.172	108630.429	5.5	5S (1I)2I	83871.184	4.5	4P (1F)2G	408.6098	-3.930	86710.837	1.5	4D (5D)4F	62244.520	1.5	4P (3F)4F
403.8038	-4.039	83726.364	4.5	4D (5D)6D	108483.870	5.5	4SP(3F)4F	408.7284	-4.932	20293.358	2.5	D6S (3P)4P	45289.801	1.5	4P (5D)4F
403.8449	-3.478	47674.721	1.5	D7 (5D)2D	72429.711	0.5	4P (3D)4D	408.8755	-4.892	22939.358	2.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P
403.9639	-4.431	38214.507	1.5	D6S (1D)2D	62962.205	1.5	4P (3P)4D	408.9130	-4.468	86599.738	2.5	4D (5D)4F	62151.561	2.5	4P (3F)4F
404.1641	-3.284	44915.046	3.5	D6S (1F)2F	69650.484	2.5	4P (3G)2F	409.1783	-4.582	84296.430	5.5	4D (5D)6G	108729.160	6.5	4SP(3G)4H
404.1847	-7.631	18886.780	0.5	D7 (5D)2P	43620.937	1.5	4P (5D)6P	409.3229	-3.033	54063.459	0.5	D6S (3P)2P	78487.153	1.5	4P (1D)2D
404.2301	-4.186	85048.602	1.5	4D (5D)4D	109780.000	1.5	280DD	409.3662	-3.459	85462.862	3.5	4D (5D)4G	61041.748	2.5	4P (3H)4G
404.3524	-3.839	88189.030	0.5	4D (5D)4P	63465.109	1.5	4P (3F)4D	409.4012	-4.188	50187.813	3.5	D6S (3F)4F	74606.841	2.5	4P (3D)2D
404.3688	-3.729	85679.698	2.5	4D (5D)4G	60956.781	3.5	4P (3H)4G	409.4341	-4.989	83713.536	3.5	4D (5D)6D	108130.600	2.5	220DD
404.4012	-2.520	44929.550	2.5	D6S (1F)2F	69650.484	2.5	4P (3G)2F	409.6697	-4.777	78577.280	4.5	D5S2(7S)2G	102951.500	5.5	4SP(3I)4I
404.4603	-3.751	73637.340	1.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	409.7502	-2.271	86124.301	4.5	4D (5D)4F	61726.077	3.5	4P (3P)4D
404.4869	-2.784	104000.810	3.5	5D (5D)6P	79285.110	2.5	4SP(5S)6P	409.7869	-4.623	85728.806	1.5	4D (5D)4S	61332.764	1.5	4P (3P)4P
404.5367	-4.861	87985.628	2.5	4P (3F)4D	63272.976	2.5	4P (3F)4D	409.8209	-3.418	50212.826	2.5	D6S (3P)4P	74606.841	2.5	4P (3D)2D
404.6661	-3.005	102842.119	4.5	5S (3G)4G	78137.364	3.5	4P (1D)2F	410.0985	-3.664	85184.734	4.5	4D (5D)4G	60807.230	4.5	4P (3H)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
410.1731	-3.286	54870.528	2.5	D6S (3F)2F	79243.600	1.5	4P (3D)2P	416.0445	-4.044	83136.487	3.5	4D (5D)6F	107165.600	3.5	170DD
410.2341	-4.784	85462.862	3.5	4D (5D)4G	61093.413	2.5	4P (3P)2D	416.0623	-5.135	22939.358	2.5	D6S (3F)4F	46967.444	2.5	4P (5D)4P
410.4078	-4.476	73492.215	3.5	D5S2(7S)4F	97851.350	4.5	4P (1G)2H	416.1022	-3.747	84863.351	5.5	4D (5D)4G	60837.569	6.5	4P (3H)4H
410.4188	-5.422	23031.300	1.5	D6S (3F)4F	47389.779	1.5	4P (5D)4P	416.2106	-4.481	103265.694	0.5	6S (5D)4D	79246.170	1.5	4SP(5S)6P
410.4729	-4.211	50142.786	2.5	D6S (3F)4F	74498.057	1.5	4P (3D)2D	416.4303	-4.748	85048.602	1.5	4D (5D)4D	61041.748	2.5	4P (3H)4G
410.4738	-4.091	86599.738	2.5	4D (5D)4F	62244.520	1.5	4P (3F)4F	416.4516	-4.703	84863.351	5.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H
410.5481	-4.049	86416.333	3.5	4D (5D)4F	62065.521	3.5	4P (3F)4F	416.4809	-3.532	48039.090	2.5	D7 (5D)2D	72043.026	1.5	4P (3D)4P
410.7088	-4.910	54902.313	1.5	D6S (3P)2P	79243.600	1.5	4P (1D)2P	417.0307	-4.820	99918.569	1.5	5S (3F)4F	75915.215	2.5	4P (5D)2F
410.8448	-3.072	86416.333	3.5	4D (5D)4F	62083.108	4.5	4P (3H)2G	416.8660	-5.406	21308.040	1.5	D7 (5D)2D	45289.801	1.5	4P (5D)4F
410.9403	-4.417	98294.401	5.5	5S (3H)4H	73966.832	6.5	4P (1D)2I	416.9761	-4.655	60384.370	0.5	D5S2(7S)4D	84359.800	1.5	4P (1F)2D
410.9899	-4.177	98294.401	5.5	5S (3H)4H	73969.767	5.5	4P (1D)2I	416.9979	-5.567	18360.646	1.5	D7 (5D)2P	42334.822	2.5	4P (5D)6F
411.1877	-2.415	48039.090	2.5	D7 (5D)2D	72352.024	3.5	4P (3D)4F	417.0246	-4.269	84266.556	3.5	4D (5D)6P	108239.200	3.5	240DD
411.3388	-4.842	84266.556	3.5	4D (5D)6P	108570.560	4.5	4SP(3G)4G	417.0307	-4.009	99573.225	4.5	5S (3F)4F	75600.931	3.5	4P (3D)2F
411.4550	-3.975	85184.734	4.5	4D (5D)4G	60887.598	5.5	4P (3H)4H	417.1369	-3.320	86124.301	4.5	4D (5D)4F	62158.110	4.5	4P (3F)4F
411.6970	-3.702	84685.198	3.5	4D (5D)4D	60402.342	2.5	4P (3P)4F	417.2202	-4.284	38164.194	2.5	D6S (1D)2D	62125.600	1.5	4P (3P)2D
411.7195	-4.497	84527.778	4.5	4D (5D)6G	108809.310	5.5	4SP(3G)4H	417.3285	-3.332	85048.602	1.5	4D (5D)4D	61093.413	2.5	4P (3P)2D
411.7911	-3.023	86599.738	2.5	4D (5D)4F	62322.431	3.5	4P (3H)2G	417.3461	-2.586	20830.582	2.5	D6S (3P)4P	44784.761	2.5	4P (5D)4D
411.9524	-4.771	20516.960	2.5	D7 (5D)2D	44784.761	2.5	4P (5D)4D	417.3558	-4.755	85679.698	2.5	4D (5D)4G	61726.077	3.5	4P (3H)4D
412.0038	-3.243	86416.333	3.5	4D (5D)4F	62151.561	2.5	4P (3F)4F	417.4149	-4.129	85462.862	3.5	4D (5D)4G	61512.634	4.5	4P (3D)4I
412.0158	-3.797	78185.030	3.5	D5S2(7S)2G	102449.100	2.5	4SP(3D)2D	417.4532	-5.698	20805.770	4.5	D7 (5D)2H	44753.799	3.5	4P (5D)4F
412.1151	-2.993	86416.333	3.5	4D (5D)4F	62158.110	4.5	4P (3F)4F	417.4893	-3.587	84863.351	5.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H
412.2668	-3.656	20830.582	2.5	D6S (3P)4F	45079.879	2.5	4P (5D)4F	417.4905	-3.917	84685.198	3.5	4D (5D)4D	108631.090	3.5	4SP(3G)4G
412.4606	-3.509	84863.351	5.5	4D (5D)4G	60625.449	5.5	4P (3H)4G	417.5105	-4.344	87985.628	2.5	4D (5D)4P	64040.886	3.5	4P (3F)4G
412.4787	-5.070	20516.960	2.5	D7 (5D)2D	44753.799	3.5	4P (5D)4F	417.5994	-3.914	54902.315	1.5	D6S (3P)2P	78841.960	0.5	4P (1D)2P
412.6300	-3.101	85184.734	4.5	4D (5D)4G	60956.781	3.5	4P (3H)4G	417.6446	-4.866	38214.507	1.5	D6S (1D)2D	62151.561	2.5	4P (5D)4F
412.7409	-4.820	84685.198	3.5	4D (5D)4D	108906.640	3.5	4SP(3G)4H	417.6605	-6.264	23031.300	1.5	D6S (3F)4F	46967.444	2.5	4P (5D)4F
412.8748	-3.555	20830.582	2.5	D6S (3P)4F	45044.168	1.5	4P (5D)4D	417.7618	-3.983	73395.930	2.5	D5S2(7S)4F	97326.270	1.5	4SP(3P)2P
413.1165	-4.571	48039.090	2.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F	417.7692	-3.855	20516.960	2.5	D7 (5D)2D	44446.878	3.5	4P (5D)4D
413.1870	-4.776	85184.734	4.5	4D (5D)4G	60989.444	4.5	4P (3H)4H	417.8642	-3.790	48039.090	2.5	D7 (5D)2D	71964.710	2.5	4P (3D)4P
413.3280	-4.584	84286.830	5.5	4D (5D)6G	108483.870	5.5	4SP(3G)4G	417.8826	-2.898	20830.582	2.5	D6S (3P)4P	44753.799	3.5	4P (5D)4F
413.3300	-4.132	82978.677	4.5	4D (5D)6F	107165.600	3.5	170DD	417.9353	-4.613	84710.685	3.5	4D (5D)6G	108361.090	3.5	4SP(3G)4G
413.3841	-4.146	98130.131	6.5	5S (3H)4H	73966.832	6.5	4P (1D)2I	418.0458	-3.463	84870.863	2.5	4D (5D)4D	60956.781	3.5	4P (3H)4G
413.7741	-4.461	85495.304	2.5	4D (5D)6S	61332.764	1.5	4P (3P)4P	418.0981	-3.672	38214.507	1.5	D6S (1D)2D	62125.600	1.5	4P (3P)2D
413.8198	-4.583	84710.685	3.5	4D (5D)6G	108868.980	4.5	4SP(3G)4H	418.1197	-3.766	86599.738	2.5	4D (5D)4F	62689.880	2.5	4P (3P)4D
413.8208	-3.355	38164.194	2.5	D6S (1D)2D	62322.431	3.5	4P (3H)2G	418.1323	-4.284	94870.863	2.5	4D (5D)4D	108780.000	1.5	270DD
413.8405	-4.560	22810.357	3.5	D6S (3F)4F	46967.444	2.5	4P (5D)4P	418.1377	-3.935	99824.062	2.5	5S (3F)4F	75915.215	2.5	4P (3D)2F
413.9718	-3.826	36252.918	2.5	D6S (3D)2D	60402.342	2.5	4P (3P)4P	418.2317	-4.644	84710.685	3.5	4D (5D)6G	60807.230	4.5	4P (3H)4G
414.1759	-3.890	85172.809	0.5	4D (5D)4D	61035.287	0.5	4P (3P)4P	418.2689	-3.703	38164.194	2.5	D6S (1D)2D	62065.521	3.5	4P (3F)4F
414.3066	-4.397	48039.090	2.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F	418.3200	-5.080	21308.040	1.5	D7 (5D)2D	45206.450	0.5	4P (5D)4D
414.7272	-3.707	37227.326	0.5	D6S (1S)2S	61332.764	1.5	4P (3P)4P	418.4285	-5.290	20340.300	5.5	D7 (5D)2H	44232.512	4.5	4P (5D)4F
414.8156	-4.710	85679.698	2.5	4D (5D)4G	109780.000	1.5	280DD	418.5022	-3.546	83308.194	2.5	4D (5D)6F	107196.200	2.5	180DD
414.9258	-4.840	86416.333	3.5	4D (5D)4F	62322.431	3.5	4P (3H)2G	418.5485	-3.227	84685.198	3.5	4D (5D)4D	108570.560	4.5	4SP(3G)4G
415.0251	-2.992	49100.976	0.5	D6S (3P)4F	73189.110	1.5	4P (3D)2P	418.5632	-3.410	82978.677	4.5	4D (5D)6F	106863.200	3.5	160DD
415.0377	-3.492	99688.337	3.5	5S (3F)4F	75600.931	3.5	4P (3D)2F	418.6116	-3.138	86710.837	1.5	4D (5D)4F	62829.075	0.5	4P (3P)4D
415.0451	-4.998	85184.734	4.5	4D (5D)4G	109271.710	5.5	4SP(3I)2I	418.6781	-3.295	84685.198	3.5	4D (5D)4D	60807.230	4.5	4P (3H)4G
415.0567	-2.981	49100.976	0.5	D6S (3P)4P	73187.280	0.5	4P (3D)2P	418.7493	-4.313	84863.351	5.5	4D (5D)4G	60989.444	4.5	4P (3H)4H
415.1795	-7.180	18360.646	1.5	D7 (5D)2P	42439.822	0.5	4P (5D)6F	418.7788	-3.702	103118.400	1.5	6S (5D)4D	79246.170	1.5	4SP(5S)6P
415.3008	-5.389	23317.633	2.5	D5S2(7S)6S	47389.779	1.5	4P (5D)4P	418.8914	-3.123	84863.351	5.5	4D (5D)4G	108729.160	6.5	4SP(3G)4H
415.3430	-4.881	88157.116	1.5	4D (5D)4P	64087.418	2.5	4P (3F)4G	418.9194	-4.613	84266.556	3.5	4D (5D)6P	60402.342	2.5	4P (3P)4P
415.5154	-4.905	83136.487	3.5	4D (5D)6F	107196.200	2.5	180DD	418.9280	-4.392	54273.641	4.5	D5S2(7S)4G	78137.364	3.5	4P (1D)2F
415.5315	-4.905	86124.301	4.5	4D (5D)4F	62065.521	3.5	4P (3F)4F	418.9956	-4.920	83308.194	2.5	4D (5D)6G	108570.560	4.5	4SP(3G)4G
415.5774	-3.042	84863.351	5.5	4D (5D)4G	60807.230	4.5	4P (3H)4G	419.0390	-4.455	83308.194	2.5	4D (5D)6F	107165.600	3.5	170DD
415.6626	-4.572	85728.806	1.5	4D (5D)4S	109780.000	1.5	280DD	419.3441	-3.664	85172.809	0.5	4D (5D)4D	61332.764	1.5	4P (3P)4P
415.8080	-4.586	84527.778	4.5	4D (5D)6G	108570.560	4.5	4SP(3G)4G	419.4630	-4.030	103118.400	1.5	6S (5D)4D	79285.110	2.5	4SP(5S)6P
415.8355	-4.320	86124.301	4.5	4D (5D)4F	62083.108	4.5	4P (3H)2G	419.5365	-3.599	84870.863	2.5	4D (5D)4D	61041.748	2.5	4P (3H)4G
415.8448	-5.947	18360.646	1.5	D7 (5D)2P	42401.302	1.5	4P (5D)6F	419.6914	-3.937	54870.528	2.5	D6S (3F)2F	78690.846	2.5	4P (1D)2D
415.9292	-4.235	84870.863	2.5	4D (5D)4D	108906.640	3.5	4SP(3G)4H	419.8800	-4.567	103094.730	3.5	4S5S(7S)8S	79285.110	2.5	4SP(5S)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
419.9093	-4.159	37227.326	0.5	D6S (1S)2S	61035.287	0.5	4P (3P)4P	425.1010	-3.135	102802.312	2.5	6S (5D)4D	79285.110	2.5	4SP(5S)6P
420.0167	-3.914	86124.301	4.5	4D (5D)4F	62322.431	3.5	4P (3H)2G	425.1494	-6.183	18886.780	0.5	D7 (5D)2P	42401.302	1.5	4P (5D)6F
420.2349	-4.370	80177.975	1.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S	425.3590	-4.606	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD
420.2522	-2.400	54902.315	1.5	D6S (3P)2P	78690.846	2.5	4P (1D)2D	425.3970	-4.505	84870.863	2.5	4D (5D)4D	108371.700	1.5	250DD
420.2859	-2.726	54904.222	3.5	D6S (3F)2F	78690.846	2.5	4P (1D)2D	425.6005	-4.239	84296.830	5.5	4D (5D)6G	60807.230	4.5	4P (3H)4G
420.4481	-3.147	84870.863	2.5	4D (5D)4D	61093.413	2.5	4P (3P)2D	425.7262	-3.602	83713.536	3.5	4D (5D)6D	107196.200	2.5	180DD
420.5473	-6.012	21308.040	1.5	D7 (5D)2D	45079.879	2.5	4P (5D)4F	425.8154	-3.932	21812.055	1.5	D6S (3P)4P	45289.801	1.5	4P (5D)4F
420.6997	-4.315	103094.730	3.5	4S5S(7S)8S	79331.500	3.5	4SP(5S)6P	425.8340	-4.348	21308.040	1.5	D7 (5D)2D	44784.761	2.5	4P (5D)4D
420.7529	-3.466	84870.863	2.5	4D (5D)4D	108631.090	3.5	4SP(3G)4G	425.9324	-3.324	86416.333	3.5	4D (5D)4F	62945.038	3.5	4P (3F)4D
420.7855	-4.331	84870.863	2.5	4D (5D)4D	108629.250	2.5	4SP(3G)4G	425.9412	-3.959	102802.312	2.5	6S (5D)4D	79331.500	3.5	4SP(5S)6P
420.8654	-4.899	85728.806	1.5	4D (5D)4S	61974.931	1.5	4SP(7S)6P	426.1001	-3.605	86124.301	4.5	4D (5D)4F	62662.244	5.5	4P (3H)2I
420.9583	-3.799	86710.837	1.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	426.1464	-4.591	54283.220	3.5	D5S2(7S)4G	77742.730	2.5	4P (1D)2F
421.1179	-3.884	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	426.1498	-4.651	84266.556	3.5	4D (5D)6P	60807.230	4.5	4P (3H)4G
421.1801	-5.136	21308.040	1.5	D7 (5D)2D	45044.168	1.5	4P (5D)4D	426.1619	-3.021	85184.734	4.5	4D (5D)4G	61726.077	3.5	4P (3F)4D
421.2585	-4.702	88157.116	1.5	4D (5D)4P	64425.408	2.5	4P (3P)4D	426.3869	-1.760	85495.304	2.5	4D (5D)6S	62049.025	2.5	4SP(7S)6P
421.2640	-3.751	85048.602	1.5	4D (5D)4D	108780.000	1.5	270DD	426.4028	-4.124	84685.198	3.5	4D (5D)4D	108130.600	2.5	220DD
421.3169	-4.355	84685.198	3.5	4D (5D)4D	60956.781	3.5	4P (3H)4G	426.4324	-3.775	85462.862	3.5	4D (5D)4G	108906.640	3.5	4SP(3C)4H
421.3518	-2.547	86416.333	3.5	4D (5D)4F	106863.200	3.5	160DD	426.5150	-4.185	83726.364	4.5	4D (5D)6D	107165.600	3.5	170DD
421.4326	-4.647	85184.734	4.5	4D (5D)4F	62689.880	2.5	4P (3P)4D	426.5400	-3.764	86710.837	1.5	4D (5D)4F	63272.976	2.5	4P (3F)4D
421.4540	-3.478	85048.602	1.5	4D (5D)4D	108906.640	3.5	4SP(3G)4H	426.5889	-2.701	85679.698	2.5	4D (5D)4G	62244.520	1.5	4P (3F)4F
421.8349	-3.988	87985.628	2.5	4D (5D)4P	64286.345	3.5	4P (3F)2F	426.6871	-4.549	85495.304	2.5	4D (5D)6S	62065.521	3.5	4P (3F)4F
421.8551	-4.998	84266.556	3.5	4D (5D)6P	107964.700	4.5	210DD	426.7302	-4.786	60441.033	1.5	D5S2(7S)4D	83868.450	2.5	4P (1F)2D
421.8977	-4.264	84685.198	3.5	4D (5D)4D	60989.444	4.5	4P (3H)4H	426.7425	-7.758	20805.770	4.5	D7 (5D)2H	44232.512	4.5	4P (5D)4F
422.1027	-3.434	85184.734	4.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H	426.8075	-4.595	60445.275	2.5	D5S2(7S)4D	83868.450	2.5	4P (1F)2D
422.1396	-3.126	49506.934	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	426.8669	-4.736	84710.685	3.5	4D (5D)6G	108130.600	2.5	220DD
422.1722	-3.850	49506.934	1.5	D6S (3P)4P	61332.764	1.5	4P (3D)2P	427.1185	-3.010	85462.862	3.5	4D (5D)4G	108868.980	4.5	4SP(3C)4H
422.1823	-4.646	85728.806	1.5	4D (5D)4S	62049.025	1.5	4SP(7S)6P	427.1278	-3.577	85462.862	3.5	4D (5D)4G	62065.521	3.5	4P (3F)4F
422.3948	-4.062	84296.830	5.5	4D (5D)6G	107964.700	4.5	210DD	427.2732	-3.326	21812.055	1.5	D6S (3P)4P	45206.450	0.5	4P (5D)4D
422.6299	-3.915	86599.738	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	427.4891	-3.003	85184.734	4.5	4D (5D)4G	108790.560	4.5	4SP(3G)4G
422.7173	-5.075	23317.633	2.5	D5S2(7S)6S	46967.444	2.5	4P (5D)4D	427.5246	-4.703	83812.316	2.5	4D (5D)6D	107196.200	2.5	180DD
422.8310	-4.544	84685.198	3.5	4D (5D)2H	61041.748	2.5	4P (3H)4G	427.7841	-3.457	85495.304	2.5	4D (5D)6S	62125.600	1.5	4P (3P)2D
422.8729	-7.112	20805.770	4.5	D7 (5D)2H	44446.878	3.5	4P (5D)4D	427.8091	-3.554	84870.863	2.5	4D (5D)4D	108239.200	3.5	240DD
422.9369	-2.872	86599.738	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	427.8159	-3.947	21711.917	3.5	D6S (3H)4H	45079.879	2.5	4P (5D)4F
423.1689	-2.788	85184.734	4.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H	427.8527	-4.121	84527.778	4.5	D6S (3H)4H	107886.600	3.5	200DD
423.2244	-4.505	80346.016	0.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S	428.0118	-4.956	85679.698	2.5	4D (5D)4G	62322.431	3.5	4P (3H)2G
423.2415	-3.163	84863.351	5.5	4D (5D)4G	108483.870	5.5	4SP(3G)4G	428.0848	-4.421	83812.316	2.5	4D (5D)6D	107165.600	3.5	170DD
423.3113	-3.481	54870.528	2.5	D6S (3F)2F	78487.153	1.5	4P (1D)2D	428.1319	-4.975	84863.351	5.5	4D (5D)4G	61512.634	4.5	4P (3H)4I
423.3172	-1.904	20830.582	2.5	D6S (3P)4P	44446.878	3.5	4P (1D)2D	428.2598	-4.720	84863.351	5.5	4D (5D)4G	61527.616	6.5	4P (3H)4I
423.4805	-3.782	85172.809	0.5	4D (5D)4D	108780.000	1.5	270DD	428.4068	-3.764	49100.976	0.5	D6S (3P)4P	72429.711	0.5	4P (3F)4D
423.5520	-4.969	85728.806	1.5	4D (5D)4S	62125.600	1.5	4P (3P)2D	428.5353	-2.443	86599.738	2.5	4D (5D)4F	63272.976	2.5	4P (3F)4D
423.6434	-4.823	60270.339	3.5	D5S2(7S)4D	83868.450	2.5	4P (1F)2D	428.5716	-3.063	85495.304	2.5	4D (5D)6S	62171.615	3.5	4SP(7S)6P
423.6540	-3.841	85184.734	4.5	4D (5D)4G	61587.214	5.5	4P (3H)4I	428.6280	-1.876	85495.304	2.5	4D (5D)6S	62171.615	3.5	4SP(7S)6P
423.7570	-3.838	84685.198	3.5	4D (5D)4D	61093.413	2.5	4P (3P)2D	428.6323	-4.346	85048.602	1.5	4D (5D)4D	108371.700	1.5	250DD
423.8819	-2.818	54902.315	1.5	D6S (3P)2P	78487.153	1.5	4P (1D)2D	428.6829	-4.320	84870.863	2.5	4D (5D)4G	62151.561	2.5	4P (3F)4F
423.9572	-3.798	85048.602	1.5	4D (5D)4D	108629.250	2.5	4SP(3G)4G	428.8558	-2.621	85462.862	3.5	4D (5D)4G	62151.561	2.5	4P (3F)4F
424.1308	-4.534	84527.778	4.5	4D (5D)6G	60956.781	3.5	4P (3H)4G	428.9763	-4.440	85462.862	3.5	4D (5D)4G	62158.110	4.5	4P (3F)4F
424.2948	-4.637	38164.194	2.5	D6S (1D)2D	61726.077	3.5	4P (3P)4D	429.0797	-3.185	85184.734	4.5	4D (5D)4G	108483.870	5.5	4SP(3G)4G
424.3982	-3.469	102802.312	2.5	D6S (5D)4D	79246.170	1.5	4SP(5S)6P	429.1103	-1.980	102543.648	1.5	6S (5D)6D	79246.170	1.5	4SP(5S)6P
424.4187	-3.748	83308.194	2.5	4D (5D)6F	106863.200	3.5	160DD	429.4416	-3.924	84685.198	3.5	4D (5D)4D	107964.700	4.5	210DD
424.4351	-4.585	85679.698	2.5	4D (5D)4G	62125.600	1.5	4P (3P)2D	429.6572	-3.326	21812.055	1.5	D6S (3P)4P	45079.879	2.5	4P (5D)4F
424.4368	-3.108	84685.198	3.5	4D (5D)4D	108239.200	3.5	240DD	429.8066	-3.732	84870.863	2.5	4D (5D)4D	108130.600	2.5	220DD
424.4541	-6.551	18886.780	0.5	D7 (5D)2P	42439.822	0.5	4P (5D)6F	429.8287	-2.364	102543.648	1.5	6S (5D)6D	79285.110	2.5	4SP(5S)6P
424.5459	-3.910	49506.934	1.5	D6S (3P)4P	73054.881	2.5	4P (1G)2F	429.9721	-4.763	85495.304	2.5	4D (5D)6S	62244.520	1.5	4P (3F)4F
424.7236	-3.673	84870.863	2.5	4D (5D)4D	61332.764	1.5	4P (3P)4H	430.0656	-2.960	86710.837	1.5	4D (5D)4F	63465.109	1.5	4P (3F)4D
424.8993	-3.760	84685.198	3.5	4D (5D)4D	61156.835	3.5	4P (3H)4H	430.2920	-4.985	84326.912	2.5	4D (5D)6P	61093.413	2.5	4P (3F)2D
424.9034	-3.512	85679.698	2.5	4D (5D)4G	62151.561	2.5	4P (3F)4F	430.2986	-3.612	54904.222	3.5	D6S (3F)2F	78137.364	3.5	4P (1D)2F
425.0437	-1.762	85495.304	2.5	4D (5D)6S	61974.933	1.5	4SP(7S)6P	430.3176	-2.508	21812.055	1.5	D6S (3P)4P	45044.168	1.5	4P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
430.4134	-3.265	85679.698	2.5	4D (5D)4G	108906.640	3.5	4SP(3G)4H	435.0582	-4.054	50075.910	1.5	D6S (3F)4F	73054.881	2.5	4P (1G)2F
430.7993	-3.863	83990.063	1.5	4D (5D)6D	107196.200	2.5	180DD	435.1091	-4.969	50212.826	2.5	D6S (3P)4F	73189.110	1.5	4P (3D)2P
430.8872	-4.008	84685.198	3.5	4D (5D)4D	107886.600	3.5	200DD	435.1768	-2.198	21812.055	1.5	D6S (3P)4F	44784.761	2.5	4P (5D)4D
431.1165	-4.633	85184.734	4.5	4D (5D)4G	108373.800	3.5	260DD	435.2664	-4.288	98568.912	3.5	5S (3H)4H	75600.931	3.5	4P (3D)2F
431.2802	-3.726	86599.738	2.5	4D (5D)4F	109780.000	1.5	280DD	435.3567	-3.924	73393.745	4.5	D5S2(7S)4F	96356.960	3.5	4SP(3G)2F
431.2988	-2.064	86124.301	4.5	4D (5D)4F	109245.038	3.5	4P (3F)4D	435.4344	-1.743	84685.198	3.5	4D (5D)4D	61726.077	3.5	4P (3P)4D
431.4310	-3.603	21581.638	4.5	D6S (3H)4H	44753.799	3.5	4P (5D)4F	435.5810	-4.555	85679.698	2.5	4D (5D)4G	108631.090	3.5	4SP(3G)4G
431.4979	-3.275	38164.194	2.5	D6S (1D)2D	108632.060	1.5	4P (3P)4F	435.6758	-3.228	85679.698	2.5	4D (5D)4G	108629.250	2.5	4SP(3G)4G
431.5042	-3.082	85462.862	3.5	4D (5D)4G	108631.090	3.5	4SP(3G)4G	435.7184	-2.141	49190.076	0.5	D6S (3P)4F	72043.026	1.5	4P (3D)4P
431.5385	-4.552	85462.862	3.5	4D (5D)4G	108629.250	2.5	4SP(3G)4G	435.9087	-4.186	50157.452	4.5	D6S (3F)4F	73091.590	4.5	4P (1G)2G
431.8188	-2.342	86710.837	1.5	4D (5D)4F	63559.488	0.5	4P (3F)4D	435.9786	-2.809	50212.826	2.5	D6S (3P)4F	73143.288	3.5	4P (1G)2G
431.8923	-3.556	86124.301	4.5	4D (5D)4F	109271.710	5.5	4SP(3I)2I	435.9941	-3.780	84266.556	3.5	4D (5D)6P	107196.200	2.5	180DD
431.9413	-2.394	84870.863	2.5	4D (5D)4D	109726.077	3.5	4P (3P)4D	436.0022	-3.965	38164.194	2.5	D6S (1D)2D	61093.413	2.5	4P (3P)2D
431.9680	-2.102	86416.333	3.5	4D (5D)4F	63272.976	2.5	4P (3F)4D	436.0199	-3.877	85172.809	0.5	4D (5D)4D	62244.520	1.5	4P (3F)4F
431.9747	-4.003	85048.602	1.5	4D (5D)4D	108191.600	1.5	230DD	436.1205	-3.293	85048.602	1.5	4D (5D)4D	62125.600	1.5	4P (3P)2D
432.0226	-3.786	85462.862	3.5	4D (5D)4G	62322.431	3.5	4P (3H)2G	436.1247	-3.126	49506.934	1.5	D6S (3P)4F	72429.711	0.5	4P (3P)4D
432.0897	-3.393	83726.364	4.5	4D (5D)6D	106863.200	3.5	160DD	436.3281	-4.397	50142.786	2.5	D6S (3F)4F	73054.881	2.5	4P (1G)2F
432.1309	-2.179	86599.738	2.5	4D (5D)4F	63465.109	1.5	4P (3F)4D	436.3501	-4.386	85462.862	3.5	4D (5D)4G	108373.800	3.5	260DD
432.4191	-2.904	85184.734	4.5	4D (5D)4G	62065.521	3.5	4P (3F)4D	436.4383	-4.789	83713.536	3.5	4D (5D)6D	60807.230	4.5	4P (3H)4G
432.5316	-4.495	50075.910	1.5	D6S (3F)4F	73189.110	1.5	4P (3D)2P	436.4865	-4.613	50187.813	3.5	D6S (3F)4F	73091.590	4.5	4P (1G)2G
432.5436	-2.471	49506.934	1.5	D6S (3P)4F	72619.490	2.5	4P (3D)4D	436.5637	-4.983	85728.806	1.5	4D (5D)4S	62829.075	0.5	4P (3P)4D
432.5658	-4.122	50075.910	1.5	D6S (3F)4F	73187.280	0.5	4P (3D)2P	436.5768	-4.398	84266.556	3.5	4D (5D)6P	107165.600	3.5	170DD
432.5967	-4.793	84266.556	3.5	4D (5D)6P	61156.835	3.5	4P (3H)4H	436.6150	-3.249	38164.194	2.5	D6S (1D)2D	61041.748	2.5	4P (3H)4G
432.5988	-2.626	102394.718	3.5	6S (5D)4D	79285.110	2.5	4SP(5S)6P	436.6361	-3.600	84870.863	2.5	4D (5D)4D	62151.561	2.5	4P (3F)4F
432.6346	-3.818	85462.862	3.5	4D (5D)4G	108370.960	4.5	4SP(3G)4G	436.8721	-3.847	73395.930	2.5	D5S2(7S)4F	96279.490	1.5	4SP(3G)2F
432.7039	-3.288	20516.960	2.5	D7 (5D)2D	43620.567	1.5	4P (5D)6P	436.9411	-4.056	22409.852	0.5	D6S (3P)4F	45289.801	2.5	4P (5D)4F
432.7483	-4.001	85184.734	4.5	4D (5D)4G	62083.108	4.5	4P (3H)2G	436.9610	-4.175	38214.507	1.5	D6S (1D)2D	61093.413	2.5	4P (3P)2D
432.7535	-2.729	84863.351	5.5	4D (5D)4G	107964.700	4.5	210DD	436.9869	-4.428	38164.194	2.5	D6S (1D)2D	61041.748	2.5	4P (3H)4G
432.7616	-4.490	83726.364	4.5	4D (5D)6D	60625.449	5.5	4P (3H)4G	437.0670	-4.232	50142.786	2.5	D6S (3F)4F	73016.147	3.5	4P (1G)2F
432.7731	-3.977	85679.698	2.5	4D (5D)4G	108780.000	1.5	270DD	437.0891	-3.940	54870.528	2.5	D6S (3F)2F	77742.730	2.5	4P (1D)2F
433.0048	-2.149	102334.112	2.5	6S (5D)6D	79246.170	1.5	4SP(5S)6P	437.1331	-4.870	84844.834	2.5	4D (5D)6G	61974.933	1.5	4SP(7S)6P
433.0460	-3.878	44915.046	3.5	D6S (1F)2F	68000.788	4.5	4P (3G)2H	437.1448	-4.149	84326.912	2.5	D6S (3F)4F	73054.881	2.5	4P (1G)2F
433.1163	-4.687	85048.602	1.5	4D (5D)4D	108130.600	2.5	220DD	437.1873	-4.419	50187.813	3.5	D6S (3P)4F	77742.730	2.5	4P (1D)2F
433.2881	-4.727	21711.917	3.5	D6S (3H)4H	44784.761	2.5	4P (5D)4D	437.2222	-4.361	21581.638	4.5	D6S (3H)4H	44446.878	3.5	4P (5D)4D
433.3573	-4.378	86710.837	1.5	4D (5D)4F	109780.000	1.5	280DD	437.2317	-3.109	73492.215	3.5	D5S2(7S)4F	96356.960	3.5	4SP(3G)2F
433.3787	-2.974	49100.976	0.5	D6S (3P)4F	21668.998	1.5	4P (3D)4F	437.2784	-3.174	85184.734	4.5	4D (5D)4G	62322.431	3.5	4P (3H)2G
433.4690	-2.809	102394.718	3.5	6S (5D)4D	79331.500	3.5	4SP(5S)6P	437.3474	-3.551	50157.452	4.5	D6S (3F)4F	73016.147	3.5	4P (1G)2F
433.6335	-4.246	85184.734	4.5	4D (5D)4G	108239.200	3.5	240DD	437.6198	-3.944	98445.400	4.5	5S (3H)4H	75600.931	3.5	4P (3D)2F
433.6951	-4.298	85728.806	1.5	4D (5D)4S	108780.000	1.5	270DD	437.6660	-3.756	50212.826	2.5	D6S (3P)4F	73054.881	2.5	4P (1G)2F
433.7009	-3.741	83812.316	2.5	4D (5D)6D	106863.200	3.5	160DD	437.6974	-3.462	54902.315	1.5	D6S (3P)2P	77742.730	2.5	4P (1D)2F
433.7363	-1.874	102334.112	2.5	6S (5D)6D	79285.110	2.5	4SP(5S)6P	437.7340	-2.907	54904.222	3.5	D6S (3F)2F	77742.730	2.5	4P (1D)2F
433.7701	-3.474	85172.809	0.5	4D (5D)4D	62125.600	1.5	4P (3P)2D	437.9291	-4.765	50187.813	3.5	D6S (3F)4F	73016.147	3.5	4P (1G)2F
433.7867	-4.210	50142.786	2.5	D6S (3F)4F	73189.110	1.5	4P (3D)2P	437.9500	-4.326	38214.507	1.5	D6S (1D)2D	61041.748	2.5	4P (3H)4G
433.8703	-4.198	21711.917	3.5	D6S (3H)4H	44753.799	3.5	4P (5D)4F	438.0185	-2.570	73393.745	4.5	D5S2(7S)4F	96217.420	3.5	4SP(5P)4D
434.1578	-3.520	85184.734	4.5	4D (5D)4G	62158.110	4.5	4P (3F)4F	438.0537	-4.753	84870.863	2.5	4D (5D)4D	62049.025	2.5	4SP(7S)6P
434.3056	-4.556	85172.809	0.5	4D (5D)4D	108191.600	1.5	230DD	438.0604	-4.470	73395.930	2.5	D5S2(7S)4F	96217.420	3.5	4SP(5P)4D
434.3275	-2.312	49506.934	1.5	D6S (3P)4F	72524.566	1.5	4P (3D)4D	438.0740	-4.115	38214.507	1.5	D6S (1D)2D	61035.287	0.5	4P (3P)4F
434.3632	-4.551	84870.863	2.5	4D (5D)4D	107886.600	3.5	200DD	438.1775	-7.092	15844.650	4.5	D7 (5D)2G	38660.043	3.5	4P (5D)6D
434.4126	-4.964	85184.734	4.5	4D (5D)4G	62171.615	3.5	4SP(7S)6P	438.3706	-4.063	84870.863	2.5	4D (5D)4D	62065.521	3.5	4P (3F)4F
434.4784	-4.395	79439.467	3.5	5S (5D)4D	102449.100	2.5	4SP(3D)2D	438.4094	-2.295	50212.826	2.5	D6S (3P)4F	73016.147	3.5	4P (1G)2F
434.5267	-2.224	100749.810	2.5	5S (3F)2F	77742.730	2.5	4P (1D)2D	438.4343	-3.648	21430.359	5.5	D6S (3H)4H	44232.512	4.5	4P (5D)4F
434.6111	-2.785	102334.112	2.5	6S (5D)6D	79331.500	3.5	4SP(5S)6P	438.4406	-4.603	84527.778	4.5	4D (5D)6G	61726.077	3.5	4P (3P)4D
434.6509	-4.273	50142.786	2.5	D6S (3F)4F	73143.288	3.5	4P (1G)2G	438.5387	-2.610	22409.852	0.5	D6S (3P)4F	45206.450	0.5	4P (5D)4D
434.6684	-4.885	85048.602	1.5	4D (5D)4D	62049.025	2.5	4SP(7S)6P	438.5539	-4.973	84844.834	2.5	4D (5D)6G	62049.025	2.5	4SP(7S)6P
434.7710	-4.295	84326.912	2.5	4D (5D)6P	61332.764	1.5	4P (3P)4F	438.6159	-4.517	38164.194	2.5	D6S (1D)2D	60956.781	3.5	4P (3H)4G
434.7995	-3.894	38164.194	2.5	D6S (1D)2D	61156.835	3.5	4P (3H)4H	438.6585	-5.370	20830.582	2.5	D6S (3P)4F	43629.957	1.5	4P (5D)6P
434.9283	-3.990	50157.452	4.5	D6S (3F)4F	73143.288	3.5	4P (1G)2G	438.7182	-4.639	73492.215	3.5	D5S2(7S)4F	96279.490	2.5	4SP(3G)2F
434.9515	-3.876	84710.685	3.5	4D (5D)6G	61726.077	3.5	4P (3P)4D	438.8132	-4.920	86124.301	4.5	4D (5D)4F	108906.640	3.5	4SP(3G)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
438.8536	-2.907	84863.351	5.5	4D (5D)/4G	62083.108	4.5	4P (3H)/2G	444.5112	-3.352	86416.333	3.5	4D (5D)/4F	108906.640	3.5	4SP(3G)/4H	
438.8589	-3.732	85184.734	4.5	4D (5D)/4G	107964.700	4.5	2100DD	444.5252	-8.024	16369.360	3.5	D7 (5D)/2G	38858.958	2.5	4P (5D)/6D	
438.9935	-4.543	85462.862	3.5	4D (5D)/4G	62689.880	2.5	4P (3P)/4D	444.6237	-3.153	48039.090	2.5	D7 (5D)/2D	70523.706	3.5	4P (3G)/2C	
439.1166	-4.517	85728.806	1.5	4D (5D)/4G	62962.205	1.5	4P (3P)/4D	444.7802	-3.461	50142.786	2.5	D6S (3F)/4F	72619.490	2.5	4P (3D)/4D	
439.4507	-2.586	100492.020	3.5	5S (3F)/2F	77742.730	2.5	4P (1D)/2F	444.9616	-1.951	86416.333	3.5	4D (5D)/4F	63948.790	4.5	4P (3F)/4G	
439.5181	-1.725	102030.912	3.5	6S (5D)/6D	79285.110	2.5	4SP(5S)/6P	445.0305	-2.995	50187.813	3.5	D6S (3F)/4F	72651.876	3.5	4P (3D)/4D	
439.5285	-3.549	84870.863	2.5	4D (5D)/4D	62125.600	1.5	4P (3P)/2D	445.0547	-4.035	50187.813	3.5	D6S (3F)/4F	72650.658	4.5	4P (3D)/4F	
439.5398	-3.094	86124.301	4.5	4D (5D)/4F	108868.980	4.5	4SP(3G)/4H	445.0557	-4.138	85728.806	1.5	4D (5D)/4S	108191.600	1.5	230DD	
439.7277	-6.010	21711.917	3.5	D6S (3H)/4H	44446.878	3.5	4P (5D)/4D	445.0663	-4.911	84527.778	4.5	4D (5D)/6G	62065.521	3.5	4P (3F)/4F	
439.7931	-3.954	49506.934	1.5	D6S (3P)/4F	72238.513	2.5	4P (3D)/4F	445.0690	-3.128	73395.930	2.5	D5S2(7S)/4F	95858.050	1.5	4SP(5P)/4D	
439.9165	-3.400	73492.215	3.5	D5S2(7S)/4F	96217.420	3.5	4SP(5P)/4D	445.1551	-1.989	49506.934	1.5	D6S (3P)/4F	71964.710	2.5	4P (3D)/4P	
439.9858	-6.714	20516.960	2.5	D7 (5D)/2D	43238.586	2.5	4P (5D)/6P	445.2568	-2.198	86416.333	3.5	4D (5D)/4F	108868.980	4.5	4SP(3G)/4H	
440.0308	-3.234	84870.863	2.5	4D (5D)/4D	62151.561	2.5	4P (3P)/4F	445.2914	-3.918	85679.698	2.5	4D (5D)/4G	108130.600	2.5	220DD	
440.0658	-4.314	85679.698	2.5	4D (5D)/4D	62171.615	2.5	4P (3P)/4D	445.3205	-1.934	77230.900	4.5	D5S2(7S)/2H	61974.933	1.5	4SP(7S)/6P	
440.2877	-2.227	49506.934	1.5	D6S (3P)/4F	72212.978	0.5	4P (3D)/4P	445.3360	-3.871	50075.910	1.5	D6S (3F)/4F	72524.566	1.5	4P (3D)/4D	
440.3033	-2.474	84863.351	5.5	4D (5D)/4G	62158.110	4.5	4P (3F)/4F	445.3835	-2.559	86124.301	4.5	4D (5D)/4F	108570.560	4.5	4SP(3G)/4G	
440.3687	-2.683	85184.734	4.5	4D (5D)/4G	107886.600	3.5	200DD	445.5846	-4.243	50212.826	2.5	D6S (3P)/4F	72651.876	3.5	4P (3D)/4D	
440.4195	-3.811	84870.863	2.5	4D (5D)/4D	62171.615	3.5	4SP(7S)/6P	445.6731	-3.610	50187.813	3.5	D6S (3F)/4F	59663.456	1.5	4P (3P)/4S	
440.5194	-4.240	85679.698	2.5	4D (5D)/4G	108371.800	3.5	260DD	445.8308	-3.410	85462.862	3.5	4D (5D)/4G	107886.600	3.5	200DD	
440.5602	-3.189	85679.698	2.5	4D (5D)/4G	108371.800	3.5	250DD	445.8590	-3.151	77230.900	4.5	D5S2(7S)/2H	99653.220	4.5	4SP(3G)/2G	
440.6960	-1.938	86124.301	4.5	4D (5D)/4F	108809.310	5.5	4SP(3G)/4H	446.1439	-4.311	20830.582	2.5	D6S (3P)/4F	43238.586	2.5	4P (5D)/6P	
441.0205	-4.842	73393.745	4.5	D5S2(7S)/4F	96062.060	5.5	4SP(3G)/2H	446.1694	-4.244	85679.698	2.5	4D (5D)/4G	37272.976	2.5	4P (3F)/4D	
441.0318	-3.209	85462.862	3.5	4D (5D)/4G	108130.600	2.5	220DD	446.1706	-2.165	50212.826	2.5	D6S (3P)/4F	72619.490	2.5	4P (3D)/4D	
441.1422	-4.727	49506.934	1.5	D6S (3P)/4F	72168.998	1.5	4P (3D)/4F	446.2113	-2.939	77230.900	4.5	D5S2(7S)/2H	99635.520	3.5	4SP(3G)/2G	
441.1500	-4.378	84710.685	3.5	4D (5D)/6G	62049.025	2.5	4SP(7S)/6P	446.2676	-4.852	85728.806	1.5	4D (5D)/4S	108130.600	2.5	220DD	
441.3051	-3.690	98568.912	3.5	5S (3H)/4H	75915.215	2.5	4P (3D)/2F	446.6666	-3.840	50142.786	2.5	D6S (3F)/4F	72524.566	1.5	4P (3D)/4D	
441.3601	-4.020	21581.638	4.5	D6S (3H)/4H	44232.512	4.5	4P (5D)/4F	446.7931	-2.716	86416.333	3.5	4D (5D)/4F	64040.886	1.5	4P (3F)/4G	
441.5302	-3.773	73637.340	1.5	D5S2(7S)/4F	96279.490	2.5	4SP(3G)/2F	446.7951	-2.044	84424.370	1.5	4D (5D)/6D	62049.025	2.5	4SP(7S)/6P	
441.6468	-2.688	84685.198	3.5	4D (5D)/4D	62049.025	2.5	4SP(7S)/6P	446.9620	-1.367	101698.489	4.5	6S (5D)/6D	79331.500	3.5	4SP(5S)/6P	
441.6830	-2.603	22409.852	0.5	D6S (3P)/4F	45044.168	1.5	4P (5D)/4D	447.0464	-3.561	84685.198	3.5	4D (5D)/4F	62322.431	3.5	4P (3H)/2G	
441.8957	-2.190	86710.837	1.5	4D (5D)/4F	64087.418	2.5	4P (3F)/4G	447.1103	-1.287	86124.301	4.5	4D (5D)/4F	62322.431	3.5	4P (3H)/2G	
441.9688	-3.098	84685.198	3.5	4D (5D)/4D	62065.521	3.5	4P (3F)/4F	447.1273	-2.570	85048.602	1.5	4D (5D)/4F	108483.870	5.5	4SP(3G)/4G	
442.0733	-7.247	15844.650	4.5	D7 (5D)/2G	38458.981	4.5	4P (5D)/6D	447.1347	-4.370	73637.340	1.5	D5S2(7S)/4F	95995.690	2.5	4SP(5P)/4D	
442.1102	-3.803	100749.810	2.5	5S (3F)/2F	78137.364	3.5	4P (1D)/2F	447.1785	-4.286	84527.778	4.5	D5S2(7S)/4F	95995.690	2.5	4SP(5P)/4D	
442.3128	-4.581	84685.198	3.5	4D (5D)/4D	62083.108	4.5	4P (3H)/2G	447.2086	-2.186	100492.020	3.5	5S (3F)/2F	78137.364	3.5	4P (1D)/2F	
442.3373	-4.305	84326.912	2.5	4D (5D)/6P	61726.077	3.5	4P (3P)/4D	447.2257	-4.025	50075.910	1.5	D6S (3F)/4F	72429.711	0.5	4P (3H)/4G	
442.3584	-3.254	73395.930	2.5	D5S2(7S)/4F	95995.690	2.5	4SP(5P)/4D	447.2372	-4.841	84326.912	2.5	4D (5D)/6F	61974.933	1.5	4SP(7S)/6P	
442.4194	-3.848	84266.556	3.5	4D (5D)/6P	106863.200	3.5	160DD	447.2622	-1.876	84326.912	2.5	4D (5D)/6F	61974.933	1.5	4SP(7S)/6P	
442.7945	-1.865	77230.900	4.5	D5S2(7S)/2H	99808.400	3.5	4P (1G)/2G	447.2929	-4.762	22939.358	2.5	D6S (3F)/4F	45289.801	1.5	4P (5D)/4F	
443.1552	-4.796	84710.685	3.5	4D (5D)/6G	62151.561	2.5	4P (3F)/4F	447.4164	-3.298	44929.550	2.5	D6S (1F)/2F	62723.826	1.5	4P (3F)/2D	
443.1605	-2.132	86599.738	2.5	4D (5D)/4F	64040.886	3.5	4P (3F)/4G	447.4272	-2.912	85172.809	0.5	4D (5D)/4D	67829.075	0.5	4P (3P)/4D	
443.3293	-4.621	85495.304	2.5	4D (5D)/6S	62945.038	3.5	4P (3F)/4D	447.7173	-4.904	83136.487	3.5	4D (5D)/6F	60807.230	4.5	4P (3H)/4G	
443.3653	-4.816	84870.863	2.5	4D (5D)/4D	62322.431	3.5	4P (3H)/2G	447.7242	-4.501	86416.333	3.5	4D (5D)/4F	64087.418	2.5	4P (3F)/4G	
443.5218	-2.844	84266.556	3.5	4D (5D)/6P	61726.077	3.5	4P (3P)/4D	447.8645	-3.625	108904.667	3.5	5S (3D)/4D	86482.750	3.5	4P (1F)/2F	
443.6081	-3.888	49506.934	1.5	D6S (3P)/4F	72043.026	1.5	4P (3D)/4D	448.0356	-2.667	86599.738	2.5	4D (5D)/4F	64286.345	3.5	4P (3F)/2F	
443.6564	-4.362	84685.198	3.5	4D (5D)/4D	62151.561	2.5	4P (3F)/4F	448.0452	-7.610	50212.826	2.5	D6S (3F)/4F	73620.957	1.5	4P (5D)/6P	
443.7854	-4.248	84685.198	3.5	4D (5D)/4D	44232.512	4.5	4P (3F)/4F	448.0688	-2.484	50212.826	2.5	D6S (3F)/4F	73620.957	1.5	4P (5D)/6P	
443.9134	-5.309	21711.917	3.5	D6S (3H)/4H	62158.110	4.5	4P (3F)/4F	448.1660	-2.690	86599.738	2.5	4D (5D)/4F	108906.640	3.5	4SP(3G)/4H	
443.9680	-3.806	85462.862	3.5	4D (5D)/4G	62945.038	3.5	4P (3F)/4D	448.3294	-3.643	84424.370	1.5	4D (5D)/6P	62125.600	1.5	4P (3P)/2D	
444.0430	-3.022	54063.459	0.5	D6S (3P)/2P	76577.482	0.5	4P (1S)/2P	448.4491	-7.831	16369.360	3.5	D7 (5D)/2G	38660.043	3.5	4P (3F)/2D	
444.0516	-3.194	84685.198	3.5	4D (5D)/4D	62171.615	3.5	4SP(7S)/6P	448.5978	-2.739	86710.837	1.5	4D (5D)/4F	64425.408	2.5	4P (3F)/2F	
444.0765	-2.837	86599.738	2.5	4D (5D)/4F	64087.418	2.5	4P (3F)/4G	448.7497	-2.743	84326.912	2.5	4D (5D)/6F	62049.025	2.5	4SP(7S)/6P	
444.1025	-4.543	84685.198	3.5	4D (5D)/4D	107196.200	2.5	180DD	448.8520	-4.697	84424.370	1.5	4D (5D)/6P	62151.561	2.5	4P (3F)/4F	
444.1857	-4.073	86124.301	4.5	4D (5D)/4F	108631.090	3.5	4SP(3G)/4G	448.9183	-3.690	22810.357	2.5	D6S (3F)/4F	45079.879	2.5	4P (5D)/4F	
444.2511	-2.949	73492.215	3.5	D5S2(7S)/4F	95995.690	2.5	4SP(5P)/4D	449.0357	-4.363	85728.806	1.5	4D (5D)/4S	63465.109	1.5	4P (3F)/4D	
444.4299	-4.105	50157.452	4.5	D6S (3F)/4F	72651.876	3.5	4P (3D)/4D	449.0567	-2.866	100749.810	2.5	5S (3F)/2F	78487.153	1.5	4P (1D)/2D	
444.4539	-2.612	50157.452	4.5	D6S (3F)/4F	72650.658	4.5	4P (3D)/4F	449.0822	-4.580	84326.912	2.5	4D (5D)/6P	62065.521	3.5	4P (3F)/4F	

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
449.1405	-2.780	23031.300	1.5	D6S (3F)4F	453.3732	-3.449	50187.813	3.5	D6S (3F)4F	72238.513	2.5	4P (3D)4F
449.1673	-3.892	108804.667	3.5	5S (3D)4F	453.4168	-3.327	23031.300	1.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F
449.3529	-1.796	86124.301	4.5	4D (5D)4F	453.5532	-2.982	108804.667	3.5	5S (3D)4F	86767.577	2.5	4P (3F)4D
449.5203	-3.940	85184.734	4.5	4D (5D)4G	453.7714	-1.710	86599.738	2.5	4D (5D)4F	105631.090	3.5	4SP(3G)4G
449.5516	-4.613	38164.194	2.5	D6S (1D)2D	453.8093	-2.618	86599.738	2.5	4D (5D)4F	106629.250	2.5	4SP(3G)4G
449.9044	-3.491	73637.340	1.5	D5S2(7S)4F	453.8773	-3.538	50142.786	2.5	D6S (3F)4F	72168.998	1.5	4P (3D)4F
449.9284	-2.922	85048.602	1.5	4D (5D)4D	453.8881	-3.628	50212.826	2.5	D6S (3P)4P	72238.513	2.5	4P (3D)4F
449.9348	-4.141	105524.461	4.5	4D (3F)4H	454.1057	-2.749	83990.063	1.5	4D (5D)6D	61974.933	1.5	4SP(7S)6P
449.9688	-1.572	84266.556	3.5	4D (5D)6P	454.1524	-2.932	23031.300	1.5	D6S (3F)4F	45044.168	1.5	4P (5D)4D
450.0134	-4.122	78185.030	3.5	D5S2(7S)2G	454.2949	-3.966	84131.563	0.5	4D (5D)6D	62125.600	1.5	4P (3P)2D
450.0250	-2.512	86416.333	3.5	4D (5D)4F	454.2949	-3.966	84131.563	0.5	4D (5D)6D	62125.600	1.5	4P (3P)2D
450.0459	-4.516	84296.830	5.5	4D (5D)6G	454.5148	-2.843	84689.198	3.5	4D (5D)4D	62689.880	2.5	4P (3F)4D
450.0623	-4.329	86416.333	3.5	4D (5D)4F	454.5148	-2.843	84689.198	3.5	4D (5D)4D	62689.880	2.5	4P (3F)4D
450.1091	-2.836	85172.809	0.5	4D (5D)4D	454.6772	-4.998	83713.536	3.5	4D (5D)6D	61726.077	3.5	4P (3P)4D
450.1368	-3.827	50142.786	2.5	D6S (3F)4F	454.7124	-3.340	105291.010	3.5	4D (3F)4G	83305.251	3.5	4P (1F)2G
450.1842	-4.936	85679.698	2.5	4D (5D)4G	454.8136	-3.954	85184.734	4.5	4D (5D)4G	107165.600	3.5	170DD
450.2157	-4.971	84527.778	4.5	4D (5D)6G	454.9192	-2.420	47674.721	1.5	D7 (5D)2D	69650.484	2.5	4P (3G)2F
450.22975	-3.451	84326.912	2.5	4D (5D)6P	454.9474	-2.055	22810.357	3.5	D6S (3F)4F	44784.761	2.5	4P (5D)4D
450.4343	-3.374	50157.452	4.5	D6S (3F)4F	454.9937	-6.308	23317.633	2.5	D5S2(7S)6S	45289.801	1.5	4P (5D)4F
450.4623	-4.398	85462.862	3.5	4D (5D)4G	455.0983	-3.670	50075.910	1.5	D6S (3F)4F	72043.026	1.5	4P (3D)4P
450.7102	-2.210	84870.863	2.5	4D (5D)4D	455.2983	-3.724	86416.333	3.5	4D (5D)4F	108373.800	3.5	260DD
450.7249	-2.900	86599.738	2.5	4D (5D)4F	455.3252	-3.658	86416.333	3.5	4D (5D)4F	108373.800	3.5	260DD
450.7332	-4.907	84424.370	1.5	4D (5D)6P	455.3252	-3.658	86416.333	3.5	4D (5D)4F	108373.800	3.5	260DD
450.8214	-2.721	86124.301	4.5	4D (5D)4F	455.5444	-4.941	99688.337	3.5	5S (3F)4F	77742.730	2.5	4P (1D)2F
450.8288	-2.417	23031.300	1.5	D6S (3F)4F	455.5893	-4.940	22810.357	3.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F
450.8455	-3.621	86599.738	2.5	4D (5D)4F	455.6392	-2.013	83990.063	1.5	4D (5D)6D	62049.025	2.5	4SP(7S)6P
450.9474	-4.781	85728.806	1.5	4D (5D)4S	455.8572	-6.993	21308.040	1.5	D7 (5D)2D	42338.586	2.5	4P (5D)6P
451.0513	-3.023	50187.813	3.5	D6S (3F)4F	455.9554	-2.798	84870.863	2.5	4D (5D)4D	62945.038	3.5	4P (3F)4D
451.0840	-4.956	80075.910	1.5	D6S (3F)4F	456.1096	-1.835	86710.837	1.5	4D (5D)4F	108629.250	2.5	4SP(3G)4G
451.1819	-4.934	50374.016	0.5	5S (5D)4D	456.3127	-2.815	84870.863	2.5	4D (5D)4D	62962.205	1.5	4P (3P)4D
451.2056	-2.306	84131.563	0.5	4D (5D)6D	456.4024	-4.681	86710.837	1.5	4D (5D)4F	64806.467	0.5	4P (3P)2P
451.2328	-1.845	84326.912	2.5	4D (5D)6P	456.6581	-3.451	105763.270	5.5	4D (3F)2H	83871.184	4.5	4P (1F)2G
451.2546	-1.531	86416.333	3.5	4D (5D)4F	456.8197	-6.707	20516.960	2.5	D7 (5D)2D	42401.302	1.5	4P (5D)6F
451.5188	-5.969	20316.960	2.5	D7 (5D)2D	457.0144	-2.337	108804.667	3.5	5S (3D)4D	86929.649	3.5	4P (3P)4D
451.5339	-2.567	22939.358	2.5	D6S (3F)4F	457.2350	-4.446	83990.063	1.5	4D (5D)6D	62125.600	1.5	4P (3P)2D
451.5609	-2.839	50212.826	2.5	D6S (3P)4F	457.3388	-3.554	86124.301	4.5	4D (5D)4F	107964.700	4.5	210DD
451.5706	-4.139	84296.830	5.5	4D (5D)6G	457.7786	-4.914	83990.063	1.5	4D (5D)6D	62151.561	2.5	4P (3F)4F
451.6043	-4.482	50075.910	1.5	D6S (3F)4F	457.7791	-5.649	25787.598	1.5	D6S (3P)2P	47626.076	0.5	4P (5D)4P
451.7412	-3.287	73637.340	1.5	D5S2(7S)4F	457.7900	-3.298	86124.301	4.5	4D (5D)4F	64286.345	3.5	4P (3F)2F
451.7488	-3.547	86416.333	3.5	4D (5D)4F	457.9527	-2.496	50212.826	2.5	D6S (3P)4P	72043.026	1.5	4P (3D)4P
452.0224	-3.198	22637.205	4.5	D6S (3F)4F	458.0063	-3.764	20830.582	2.5	D6S (3P)4P	42658.224	3.5	4P (5D)6P
452.0551	-4.111	84266.556	3.5	4D (5D)6P	458.1066	-3.458	86416.333	3.5	4D (5D)4F	108239.200	3.5	240DD
452.0571	-2.315	86124.301	4.5	4D (5D)4F	458.1264	-4.509	50142.786	2.5	D6S (3F)4F	71964.710	2.5	4P (3D)4P
452.1791	-4.854	105414.180	2.5	4D (3F)4G	458.2116	-6.612	20516.960	2.5	D7 (5D)2D	42334.822	2.5	4P (5D)6F
452.1890	-4.939	84266.556	3.5	4D (5D)6P	458.2835	-3.165	22939.358	2.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F
452.2634	-2.222	22939.358	2.5	D6S (3F)4F	458.3837	-1.895	22637.205	4.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D
452.4493	-2.977	50142.786	2.5	D6S (3F)4F	458.3999	-4.483	21812.055	1.5	D6S (3P)4P	43620.957	1.5	4P (5D)6P
452.4654	-1.950	84266.556	3.5	4D (5D)6P	458.5624	-2.832	100492.020	3.5	5S (3F)2F	78690.846	2.5	4P (1D)2D
452.5034	-3.165	50075.910	1.5	D6S (3F)4F	458.7055	-4.161	87989.628	2.5	4D (5D)4F	109780.000	1.5	280DD
452.5744	-2.263	16369.360	3.5	D7 (5D)2G	458.7055	-4.161	87989.628	2.5	4D (5D)4F	109780.000	1.5	280DD
452.6404	-2.709	85048.602	1.5	4D (5D)4D	459.0736	-4.188	50187.813	3.5	D6S (3F)4F	71964.710	2.5	4P (3D)4P
452.6594	-3.561	44915.046	3.5	D6S (1F)2F	459.1004	-2.583	85048.602	1.5	4D (5D)4D	63272.976	2.5	4P (3F)4D
452.7016	-4.107	86124.301	4.5	4D (5D)4F	459.1334	-3.059	20340.300	5.5	D7 (5D)2H	42114.818	4.5	4P (5D)6F
452.7446	-4.666	99824.045	2.5	5S (3F)4F	459.1334	-3.059	20340.300	5.5	D7 (5D)2H	42114.818	4.5	4P (5D)6F
452.9569	-3.339	44929.550	2.5	D6S (1F)2F	459.3105	-4.881	86599.738	2.5	4D (5D)4F	108373.800	3.5	260DD
452.9939	-3.963	86710.837	1.5	4D (5D)4F	459.3105	-4.881	86599.738	2.5	4D (5D)4F	108373.800	3.5	260DD
453.0591	-3.585	54063.459	0.5	D6S (3P)2F	459.3109	-4.146	84710.685	3.5	4D (5D)6G	62945.038	3.5	4P (3F)4D
453.2034	-3.000	100749.810	2.5	5S (3F)2F	459.3606	-2.137	83812.316	2.5	4D (5D)6D	62049.025	2.5	4SP(7S)6P
					459.3606	-2.137	83812.316	2.5	4D (5D)6D	62049.025	2.5	4SP(7S)6P
					78690.846	2.5	86124.301	4.5	4D (5D)4F	107886.600	3.5	200DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
459.3827	-5.103	23317.633	2.5	D5S2(7S)6S	45079.879	2.5	4P (5D)4F	463.8236	-4.334	73492.215	3.5	D5S2(7S)4F	95046.100	2.5	4P (3F)2F	
459.5682	-4.306	23031.300	1.5	D6S (3F)4F	44784.761	2.5	4P (5D)4D	463.8863	-4.134	99688.337	3.5	5S (3F)4F	78137.364	3.5	4P (1D)2F	
459.6015	-2.028	50212.826	2.5	D6S (3P)4P	71964.710	2.5	4P (3D)4P	463.9424	-3.869	86416.333	3.5	4D (5D)4F	107964.700	4.5	210DD	
459.6354	-4.391	57493.321	1.5	D5S2(7S)4P	79243.600	1.5	4P (1D)2F	464.0812	-1.624	83713.536	3.5	4D (5D)6D	62171.1615	3.5	4SP(7S)6P	
459.7091	-4.512	83812.316	2.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	464.3196	-3.134	86599.738	2.5	4D (5D)4F	108130.600	2.5	220DD	
459.7939	-4.605	44929.550	2.5	D6S (1F)2F	66672.334	3.5	4P (3G)4H	464.3885	-3.931	105398.852	5.5	4D (3F)4H	83871.184	4.5	4P (1F)2G	
459.8494	-1.868	84685.198	3.5	4D (5D)4D	62945.038	3.5	4P (3F)4D	464.4100	-0.729	21711.917	3.5	D6S (3H)4H	43238.586	2.5	4P (5D)6P	
459.9693	-4.727	84424.370	1.5	4D (5D)6P	62689.880	2.5	4P (3P)4D	464.6295	-4.868	85679.698	2.5	4D (5D)4G	107196.200	2.5	180DD	
459.9937	-4.120	85462.862	3.5	4D (5D)4G	107196.200	2.5	180DD	464.6819	-3.496	85462.862	3.5	4D (5D)4G	63948.790	4.5	4P (3F)4G	
460.1378	-4.536	23317.633	2.5	D5S2(7S)6S	45044.168	1.5	4P (5D)4D	464.8235	-4.840	22939.358	2.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	
460.3977	-6.306	20516.960	2.5	D7 (5D)2D	42237.033	3.5	4P (5D)6F	464.8518	-3.183	100749.810	2.5	5S (3F)2F	79243.600	1.5	4P (1D)2P	
460.5370	-2.584	85172.809	0.5	4D (5D)4D	63465.109	1.5	4P (3F)4D	464.8944	-4.667	20830.582	2.5	D6S (3P)4P	42334.822	2.5	4P (5D)6F	
460.6423	-4.576	85462.862	3.5	4D (5D)4G	107165.600	3.5	170DD	465.2012	-4.501	86599.738	2.5	4D (5D)4F	65109.679	3.5	4P (3F)2G	
460.8100	-3.780	81639.260	2.5	D5S2(7S)2F	10334.100	2.5	4SP(3D)2F	465.2216	-2.578	85048.602	1.5	4D (5D)4D	63559.488	0.5	4P (3F)4D	
460.9467	-4.748	79885.493	2.5	5S (5D)4D	101573.900	1.5	4SP(5D)4P	465.3425	-3.436	83459.670	1.5	4D (5D)6F	61974.933	1.5	4SP(7S)6P	
461.0001	-3.963	73393.745	4.5	D5S2(7S)4F	95079.640	3.5	4P (3F)2F	465.4025	-4.695	86710.837	1.5	4D (5D)4F	108191.600	1.5	230DD	
461.0594	-4.017	44929.550	2.5	D6S (1F)2F	66612.656	1.5	4P (3G)4F	465.6300	-3.111	86416.333	3.5	4D (5D)4F	107886.600	3.5	200DD	
461.1581	-4.017	85184.734	4.5	4D (5D)4G	106863.200	3.5	160DD	465.6923	-4.887	85728.806	1.5	4D (5D)4S	107196.200	2.5	180DD	
461.2283	-3.224	54902.315	1.5	D6S (3P)2P	76577.482	0.5	4P (1S)2P	465.6981	-3.657	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D	
461.2539	-4.519	44915.046	3.5	D6S (1F)2F	66589.008	4.5	4P (3G)4H	465.8042	-4.256	44915.046	3.5	D6S (1F)2F	66377.283	3.5	4P (3G)4F	
461.3849	-2.419	77230.900	4.5	D5S2(7S)2H	98988.710	3.5	4P (1G)2F	466.0928	-3.382	78185.030	3.5	D5S2(7S)2G	99635.520	3.5	4SP(3G)2G	
461.4551	-3.127	83713.536	3.5	4D (5D)6D	62049.025	2.5	4SP(7S)6P	466.6758	-3.287	22810.357	3.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	
461.5528	-3.305	86710.837	1.5	4D (5D)4F	108371.700	1.5	250DD	466.6797	-4.478	85462.862	3.5	4D (5D)4G	64040.886	3.5	4P (3F)4G	
461.5533	-4.128	83726.364	4.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	466.7265	-4.910	105291.010	3.5	4D (3F)4G	83871.184	4.5	4P (1F)2G	
461.7608	-3.775	73395.930	2.5	D5S2(7S)4F	95046.100	2.5	4P (3F)2F	466.7729	-4.098	108239.200	3.5	240DD	108130.600	2.5	220DD	
461.8068	-4.407	83713.536	3.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	466.8923	-2.909	84685.198	3.5	4D (5D)4D	63272.976	2.5	4P (3F)4D	
461.9080	-1.926	83812.316	2.5	4D (5D)6D	62171.615	3.5	4SP(7S)6P	466.9267	-3.268	83459.670	1.5	4D (5D)6F	62049.025	2.5	4SP(7S)6P	
461.9628	-4.821	86599.738	2.5	4D (5D)4P	108239.200	3.5	240DD	466.9318	-4.531	83136.487	3.5	4D (5D)6F	61726.077	3.5	4P (3F)4D	
462.0032	-3.870	85679.698	2.5	4D (5D)4G	64040.886	3.5	4P (3F)4G	467.0182	-4.138	20830.582	2.5	D6S (3P)4P	42237.033	3.5	4P (5D)6F	
462.0412	-4.126	84326.912	2.5	4D (5D)6P	62689.880	2.5	4P (3P)4D	467.0334	-2.571	84870.863	2.5	4D (5D)4D	63465.109	1.5	4P (3H)2G	
462.0521	-3.156	22810.357	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	467.0731	-4.778	83726.364	4.5	4D (5D)6D	62322.431	3.5	4P (3P)2P	
462.0886	-4.808	88157.116	1.5	4D (5D)4P	66522.304	2.5	4P (3G)4F	467.1183	-4.744	73637.340	1.5	D5S2(7S)4F	95039.220	1.5	4P (3F)2P	
462.1488	-4.470	54283.220	3.5	D5S2(7S)4G	75915.215	2.5	4P (3D)2F	467.1516	-4.669	85462.862	3.5	4D (5D)4G	106863.200	3.5	160DD	
462.2396	-8.816	20340.300	5.5	D7 (5D)2H	41968.046	5.5	4P (5D)6F	467.2479	-4.227	80177.975	1.5	5S (3D)4D	101573.900	1.5	4SP(3D)4P	
462.3331	-2.945	78185.030	3.5	D5S2(7S)2G	99980.400	3.5	4P (1G)2G	467.3041	-4.709	85679.698	2.5	4D (5D)4G	64286.345	3.5	4P (3F)2F	
462.3435	-3.840	88157.116	1.5	4D (5D)4P	109780.000	1.5	280DD	467.3532	-4.967	83713.536	3.5	4D (5D)6D	62322.431	3.5	4P (3H)2G	
462.5481	-2.458	85172.809	0.5	4D (5D)4D	63559.488	0.5	4P (3F)4D	467.6956	-3.516	85462.862	3.5	4D (5D)4G	64087.418	2.5	4P (3F)4G	
462.6546	-4.529	87985.628	2.5	4D (5D)4P	66377.283	3.5	4P (3G)4F	467.7265	-4.796	73393.745	4.5	D5S2(7S)4F	94763.219	3.5	4SP(5D)6P	
462.6779	-4.040	44915.046	3.5	D6S (1F)2F	66522.304	2.5	4P (3G)4F	467.9307	-4.461	84326.912	2.5	4D (5D)6P	62962.205	1.5	4P (3P)4D	
462.7866	-5.400	25787.598	1.5	D6S (3P)2P	47389.779	1.5	4P (5D)4P	468.5407	-4.425	99824.045	2.5	5S (3F)4F	78487.153	1.5	4P (1D)2D	
462.8473	-4.266	81734.750	3.5	D5S2(7S)2F	10334.100	2.5	4SP(3D)2F	468.5964	-3.743	83308.194	2.5	D6S (3G)4G	47389.779	1.5	4P (5D)4P	
462.8786	-2.035	84870.863	2.5	4D (5D)4D	63272.976	2.5	4P (3F)4D	468.6283	-4.831	108804.667	3.5	5S (3D)4D	87471.765	4.5	4SP(5G)6F	
462.9339	-2.387	22637.205	4.5	D6S (3F)4F	44232.512	4.5	4P (3F)4D	468.6392	-4.048	81734.750	3.5	D5S2(7S)2F	60402.342	2.5	4P (3P)4P	
462.9988	-4.326	85679.698	2.5	4D (5D)4G	64087.418	2.5	4P (3F)4G	468.6785	-3.005	84266.556	3.5	4D (5D)6P	62945.038	3.5	4P (3F)4D	
463.0078	-4.529	86599.738	2.5	4D (5D)4F	108191.600	1.5	230DD	469.1668	-3.282	85184.734	4.5	4D (5D)4G	63876.317	5.5	4P (3F)4G	
463.0269	-3.624	88189.030	0.5	4D (5D)4P	109780.000	1.5	280DD	469.2432	-4.437	77230.900	4.5	D5S2(7S)2H	98535.850	3.5	4SP(3D)4F	
463.1029	-3.388	73492.215	3.5	D5S2(7S)4F	95079.640	3.5	4P (3F)2F	469.2480	-4.141	81734.750	3.5	D5S2(7S)4F	94500.660	2.5	4P (3F)2D	
463.1681	-3.367	86416.333	3.5	4D (5D)4F	64831.943	4.5	4P (3F)2G	469.5207	-4.741	86124.301	4.5	4D (5D)4F	64831.943	4.5	4P (3F)2G	
463.1849	-3.930	83558.540	0.5	4D (5D)6F	61974.933	1.5	4SP(7S)6P	469.6419	-3.803	86599.738	2.5	4D (5D)4F	107886.600	3.5	200DD	
463.1873	-2.256	85046.602	1.5	4D (5D)4D	63465.109	1.5	4P (3F)4D	469.7071	-3.237	105155.090	4.5	4D (3F)4G	83871.184	4.5	4P (1F)2G	
463.3337	-3.658	84266.556	3.5	4D (5D)6P	62689.880	2.5	4P (3P)4D	470.0802	-4.924	108804.667	3.5	5S (3D)4D	87537.652	3.5	4SP(5G)6F	
463.4322	-4.464	78185.030	3.5	D5S2(7S)2G	99757.120	4.5	4P (1G)2G									
463.4616	-5.655	20830.582	2.5	D6S (3P)4P	42401.302	1.5	4P (5D)6F									
463.5316	-1.669	48039.090	2.5	D7 (5D)2D	69606.552	3.5	4P (3G)2F									
463.8050	-1.613	83726.364	4.5	4D (5D)6D	62171.615	3.5	4SP(7S)6P									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
470.2537	-2.811	83308.194	2.5	4D (5D)6F	62049.025	2.5	4SP(7S)6P	478.1368	-4.991	57578.484	0.5	D5S2(7S)4P	78487.153	1.5	4P (1D)2D
470.2592	-4.048	54870.528	2.5	D6S (3F)2F	76129.446	1.5	4P (1S)2P	478.2436	-3.922	82978.677	4.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]
470.3616	-4.263	85679.698	2.5	4D (5D)4G	64425.408	2.5	4P (3F)2F	478.3720	-4.043	85184.734	4.5	4D (5D)4G	64286.345	3.5	4P (3F)2F
470.7680	-3.976	85184.734	4.5	4D (5D)4G	63948.790	4.5	4P (3F)4G	478.4425	-3.030	82978.677	4.5	4D (5D)6F	103873.990	4.5	4F(5D)1[4]
470.8750	-2.505	78577.280	4.5	D5S2(7S)2G	99808.400	3.5	4P (1G)2G	478.6466	-2.521	83136.487	3.5	4D (5D)6F	104022.890	3.5	4F(5D)0[3]
470.9467	-4.555	80346.016	0.5	5S (5D)4D	101573.900	1.5	4SP(5D)4P	479.0853	-4.927	83812.316	2.5	4D (5D)6D	62945.038	3.5	4P (3F)4D
470.9634	-3.029	54902.315	1.5	D6S (3P)2P	76129.446	1.5	4P (1S)2P	479.2110	-4.279	84326.912	2.5	4D (5D)6P	63465.109	1.5	4P (3F)4D
471.0239	-4.933	80177.975	1.5	5S (5D)4D	101402.380	0.5	4SP(5D)4P	479.2512	-4.301	86416.333	3.5	4D (5D)4F	65536.280	4.5	4P (3H)2H
471.3193	-5.468	22409.852	0.5	D6S (3P)4P	43620.957	1.5	4P (5D)6P	479.4491	-3.562	83136.487	3.5	4D (5D)6F	103987.930	2.5	4F(5D)1[3]
471.3784	-3.234	73492.215	3.5	D5S2(7S)4F	94700.660	2.5	4P (3F)2D	479.5268	-3.363	82853.658	5.5	4D (5D)6F	103701.720	4.5	4F(5D)2[5]
471.6212	-4.544	57493.321	1.5	D5S2(7S)4P	78690.846	2.5	4P (1D)2F	479.5829	-4.892	85679.698	2.5	4D (5D)4G	64834.073	1.5	4P (3F)2P
471.6833	-4.464	99332.102	4.5	5S (3H)2H	78137.364	3.5	4P (1D)2F	479.7724	-3.190	82853.658	5.5	4D (5D)6F	103691.050	5.5	4F(5D)2[5]
471.7247	-4.812	73492.215	3.5	D5S2(7S)4F	94685.090	2.5	4SP(5D)6P	479.8673	-1.896	83136.487	3.5	4D (5D)6F	103969.760	3.5	4F(5D)1[3]
472.0149	-4.644	25787.598	1.5	D6S (3P)2P	46967.444	2.5	4P (5D)4P	479.9432	-3.759	84870.863	2.5	4D (5D)4D	64040.886	3.5	4P (3F)4G
472.0150	-3.106	78577.280	4.5	D5S2(7S)2G	99757.120	4.5	4P (1G)2G	480.0122	-2.431	82853.658	5.5	4D (5D)6F	103680.640	4.5	4F(5D)2[4]
472.0891	-4.068	85462.862	3.5	4D (5D)4G	64286.345	3.5	4P (3F)2F	480.0306	-3.974	98568.912	3.5	5S (3H)4H	77742.730	2.5	4P (1D)2F
472.3857	-4.839	44915.046	3.5	D6S (1F)2F	66078.269	2.5	4P (3G)4G	480.4718	-2.487	82978.677	4.5	4D (5D)6F	62171.615	3.5	4SP(7S)6P
472.4068	-9.473	20805.770	4.5	D7 (5D)2H	41968.046	5.5	4P (5D)6P	480.7242	-2.666	73393.745	4.5	D5S2(7S)4F	94189.880	5.5	4SP(5G)4G
472.7096	-4.053	44929.550	2.5	D6S (1F)2F	66078.269	2.5	4P (3G)4G	480.7650	-4.353	87985.628	2.5	4D (5D)4P	108780.000	1.5	270DD
472.8185	-3.042	85184.734	4.5	4D (5D)4G	64040.886	3.5	4P (3F)4G	481.0177	-3.526	84870.863	2.5	4D (5D)4D	64087.418	2.5	4P (3F)4G
472.9811	-3.043	83308.194	2.5	4D (5D)6F	62171.615	3.5	4SP(7S)6P	481.0745	-3.303	83726.364	4.5	4D (5D)6D	62945.038	3.5	4P (3F)4D
473.0568	-4.750	99824.045	2.5	5S (3F)4F	78690.846	2.5	4P (1D)2D	481.0745	-3.303	83726.364	4.5	4D (5D)6D	62945.038	3.5	4P (3F)4D
473.1453	-3.143	23317.633	2.5	D5S2(7S)6S	44446.878	3.5	4P (5D)4D	481.1006	-3.586	86416.333	3.5	4D (5D)4F	107196.200	2.5	180DD
473.7600	-4.963	73637.340	1.5	D5S2(7S)4F	94739.170	1.5	4SP(5P)4P	481.5170	-4.809	84710.685	3.5	4D (5D)6G	63948.790	4.5	4P (3F)4G
473.8527	-4.670	44915.046	3.5	D6S (1F)2F	66012.750	4.5	4P (3G)4G	481.5446	-2.858	86124.301	4.5	4D (5D)4F	65363.595	5.5	4P (3H)2H
473.9525	-6.975	21308.040	1.5	D7 (5D)2D	42401.302	1.5	4P (5D)6F	481.6825	-4.633	73393.745	4.5	D5S2(7S)4F	94148.510	4.5	4SP(5G)4G
474.0828	-2.982	83136.487	3.5	4D (5D)6F	62049.025	2.5	4SP(7S)6P	481.8101	-3.935	86416.333	3.5	4D (5D)4F	107165.600	3.5	170DD
474.3275	-6.039	21581.638	4.5	D6S (3H)4H	42658.224	3.5	4P (5D)6P	481.8242	-6.261	18360.646	1.5	D7 (5D)2P	39109.307	0.5	4P (5D)6D
474.3420	-2.492	78577.280	4.5	D5S2(7S)2G	99653.220	4.5	4SP(3G)2G	481.8815	-1.999	83136.487	3.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]
474.4540	-4.854	83136.487	3.5	4D (5D)6F	62065.521	3.5	4P (3F)4F	481.9021	-3.835	81734.750	3.5	D5S2(7S)2F	60989.444	4.5	4P (3H)4H
474.7407	-3.239	78577.280	4.5	D5S2(7S)2G	99635.520	3.5	4P (3G)4G	482.0510	-3.967	86124.301	4.5	4D (5D)4F	106863.200	3.5	160DD
474.7830	-4.414	80346.016	0.5	5S (5D)4D	101402.380	0.5	4SP(5D)4P	482.0682	-4.873	83308.194	2.5	4D (5D)6F	104046.350	2.5	4F(5D)0[3]
474.8278	-4.792	105414.180	2.5	4D (3F)4G	84359.800	1.5	4P (1F)2D	482.0834	-0.554	83136.487	3.5	4D (5D)6F	103873.990	4.5	4F(5D)1[4]
474.8378	-3.758	84326.912	2.5	4D (5D)6P	63272.976	2.5	4P (3F)4D	482.1089	-3.277	84685.198	3.5	4D (5D)4D	63948.790	4.5	4P (3F)4G
475.0465	-4.077	54870.528	2.5	D6S (3F)2F	75915.215	2.5	4P (3D)2F	482.1410	-3.600	77861.625	4.5	5S (5D)6D	98596.650	4.5	4SP(5D)4F
475.0572	-3.092	82978.677	4.5	4D (5D)6F	63272.976	2.5	4P (3F)4D	482.1410	-3.600	77861.625	4.5	5S (5D)6D	98596.650	4.5	4SP(5D)4F
475.1230	-3.673	86124.301	4.5	4D (5D)4F	107165.600	3.5	4F(5D)0[3]	482.2485	-4.707	82978.677	4.5	4D (5D)6F	103701.720	4.5	4F(5D)2[5]
475.2098	-3.774	85462.862	3.5	4D (5D)4G	64425.408	2.5	4P (3F)2F	482.4198	-1.327	82978.677	4.5	4D (5D)6F	103701.720	4.5	4F(5D)2[5]
475.4510	-6.753	21308.040	1.5	D7 (5D)2D	42334.822	2.5	4P (5D)6F	482.4615	-3.928	83136.487	3.5	4D (5D)6F	103857.740	2.5	4F(5D)1[2]
475.5969	-3.665	82853.658	5.5	4D (5D)6F	103873.990	4.5	4F(5D)1[4]	482.4838	-2.376	86416.333	3.5	4D (5D)4F	65696.038	4.5	4P (3G)4G
475.6884	-4.675	44915.046	3.5	D6S (1F)2F	65931.334	3.5	4P (3G)4G	482.5736	-5.045	21231.608	6.5	D6S (3H)4H	41968.046	5.5	4P (5D)6F
475.7651	-4.592	54902.315	1.5	D6S (3P)2P	75915.215	2.5	4P (3D)2F	482.6379	-3.348	78185.030	3.5	D5S2(7S)2G	98898.710	3.5	4P (1G)2F
475.8083	-4.563	54904.222	3.5	D6S (3F)2F	75915.215	2.5	4P (3D)2F	482.6379	-3.348	78185.030	3.5	D5S2(7S)2G	98898.710	3.5	4P (1G)2F
476.0169	-3.694	44929.550	2.5	D6S (1F)2F	65931.334	3.5	4P (3G)4G	482.6379	-3.348	78185.030	3.5	D5S2(7S)2G	98898.710	3.5	4P (1G)2F
476.1142	-3.861	99688.337	3.5	5S (3F)4F	78690.846	2.5	4P (1D)2D	483.0011	-2.360	82978.677	4.5	4D (5D)6F	103676.780	3.5	4F(5D)2[3]
476.2029	-4.005	84266.556	3.5	4D (5D)6P	63272.976	2.5	4P (3F)4D	483.0336	-4.457	54904.222	3.5	D6S (3F)2F	75600.930	3.5	4P (3D)2F
476.2596	-4.005	82978.677	4.5	4D (5D)6F	103969.760	3.5	4F(5D)1[3]	483.1126	-4.849	26932.748	0.5	D6S (3P)2P	47626.076	0.5	4P (5D)4P
476.3515	-3.865	84863.351	5.5	4D (5D)4G	63876.317	5.5	4P (3F)4G	483.1202	-3.565	81734.750	3.5	D5S2(7S)2F	61041.748	2.5	4P (3H)4G
476.3791	-7.520	25981.629	3.5	D6S (3G)4G	46967.444	2.5	4P (5D)4P	483.1202	-3.565	81734.750	3.5	D5S2(7S)2F	61041.748	2.5	4P (3H)4G
476.3951	-4.993	87985.628	2.5	4D (5D)4P	67000.517	2.5	4P (3F)2D	483.197	-4.799	21430.359	5.5	D6S (3H)4H	42114.818	4.5	4P (5D)6F
476.8550	-2.528	83136.487	3.5	4D (5D)6F	62171.615	3.5	4SP(7S)6P	483.3865	-5.174	22939.358	2.5	D6S (3F)4F	43620.957	1.5	4P (5D)6P
476.9389	-4.748	85048.462	1.5	4D (5D)4D	64087.418	2.5	4P (3F)4G	483.4301	-1.788	83308.194	2.5	4D (5D)6F	103987.930	2.5	4F(5D)1[3]
476.9455	-4.666	79439.457	3.5	5S (5D)4D	100400.360	2.5	4SP(3P)2D	483.4646	-2.176	103983.510	3.5	5S (3G)2G	83305.251	3.5	4P (1F)2G
476.9827	-4.831	84424.370	1.5	4D (5D)6P	63465.109	1.5	4P (3F)4D	483.4646	-2.176	103983.510	3.5	5S (3G)2G	83305.251	3.5	4P (1F)2G
477.2777	-7.332	21711.917	3.5	D6S (3H)4H	42658.224	3.5	4P (5D)6P	483.5590	-4.826	77861.625	4.5	5S (5D)6D	98535.850	3.5	4SP(5D)4F
478.0021	-2.898	84863.351	5.5	4D (5D)4G	63948.790	4.5	4P (3F)4G	483.6951	-2.456	86599.738	2.5	4D (5D)4F	65931.334	3.5	4P (3G)4G
478.0602	-7.708	26055.423	2.5	D6S (3G)4G	46967.444	2.5	4P (5D)4P	483.7976	-4.758	73393.745	4.5	D5S2(7S)4F	94057.773	4.5	4SP(5D)6D
								483.8552	-1.427	83308.194	2.5	4D (5D)6F	103969.760	3.5	4F(5D)1[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
483.9781	-2.914	73492.215	3.5	D5S2(7S)4F	94148.510	4.5	4SP(5G)4G	489.3812	-3.667	86124.301	4.5	4D(5D)4F	65696.038	4.5	4P(3G)4G
483.9998	-4.937	21581.638	4.5	D6S(3H)4H	42237.033	3.5	4P(5D)6F	489.3820	-4.278	22810.357	3.5	D6S(3F)4F	43238.586	2.5	4P(5D)6F
484.0662	-6.556	18360.646	1.5	D7(5D)2P	39013.206	1.5	4P(5D)6D	489.8347	-2.726	83459.670	1.5	4D(5D)6F	103869.020	1.5	4F(5D)1[2]
484.2327	-4.010	87985.628	2.5	4D(5D)4F	108631.090	3.5	4SP(3G)4G	489.8899	-4.705	82978.677	4.5	4D(5D)6F	103385.170	3.5	4F(5D)3[3]
484.2596	-3.356	84685.198	3.5	4D(5D)4D	64040.886	3.5	4P(3F)4G	489.9732	-4.719	86416.333	3.5	4D(5D)4F	66012.750	4.5	4P(3G)4F
484.3294	-2.629	81734.750	3.5	D5S2(7S)2F	61093.413	2.5	4P(3H)2H	489.9782	-4.771	83308.194	2.5	4D(5D)6F	103711.570	3.5	4F(5D)2[4]
484.3318	-4.099	44915.046	3.5	D6S(1F)2F	65556.280	4.5	4P(3H)2D	489.9896	-0.098	21711.917	3.5	D6S(3H)4H	42114.818	4.5	4P(5D)6F
484.5353	-2.608	86710.837	1.5	4D(5D)4F	66078.269	2.5	4P(3G)4G	490.0868	-3.315	84685.198	3.5	4D(5D)4D	64286.345	3.5	4P(3F)2F
484.6480	-5.376	21812.055	1.5	D6S(3F)4F	42439.822	0.5	4P(5D)6F	490.1056	-0.824	83459.670	1.5	4D(5D)6F	103857.740	2.5	4F(5D)1[2]
484.7555	-3.746	85048.602	1.5	4D(5D)4D	64425.408	2.5	4P(3F)2F	490.2937	-2.181	83308.194	2.5	4D(5D)6F	103698.440	2.5	4F(5D)2[3]
484.7623	-5.466	21711.917	3.5	D6S(3H)4H	42334.822	2.5	4P(5D)6F	490.3860	-0.859	21581.638	4.5	D6S(3H)4H	41968.046	5.5	4P(5D)6F
484.7628	-4.877	88157.116	1.5	4D(5D)4F	108780.000	1.5	270DD	490.5180	-4.114	50142.786	2.5	D6S(3F)4F	70523.706	3.5	4P(3G)2G
484.8200	-2.231	77230.900	4.5	D5S2(7S)2H	97851.350	4.5	4P(1G)2H	490.6846	-1.318	82978.677	4.5	4D(5D)6F	103352.680	4.5	4F(5D)3[5]
485.3536	-4.460	84685.198	3.5	4D(5D)4D	64087.418	2.5	4P(3F)4G	490.8151	-0.126	83308.194	2.5	4D(5D)6F	103676.780	3.5	4F(5D)2[3]
485.3599	-4.313	81639.260	2.5	D5S2(7S)2F	61041.748	2.5	4P(3H)4G	490.8696	-4.733	85172.809	0.5	4D(5D)4D	64806.487	0.5	4P(3P)2P
485.4495	-4.382	73393.745	4.5	D5S2(7S)4F	93987.457	3.5	4SP(5D)6D	490.9459	-4.747	83308.194	2.5	4D(5D)6F	62945.038	3.5	4P(3F)4D
485.5366	-4.584	86416.333	3.5	4D(5D)4F	107006.350	2.5	4SP(3I)2H	490.9747	-2.621	82978.677	4.5	4D(5D)6F	103340.640	3.5	4F(5D)3[4]
485.5451	-5.786	23031.300	1.5	D6S(3F)4F	43620.957	1.5	4P(5D)6F	491.0101	-3.022	83308.194	2.5	4D(5D)6F	103668.690	1.5	4F(5D)2[1]
485.5548	-4.559	21812.055	1.5	D6S(3P)4P	42401.302	1.5	4P(5D)6F	491.0470	-3.612	78237.685	3.5	5S(5D)6D	89596.650	4.5	4SP(5D)4F
485.6153	-1.521	83459.670	1.5	4D(5D)6F	104046.350	2.5	4F(5D)0[13]	491.1961	-1.280	83308.194	2.5	4D(5D)6F	103660.980	2.5	4F(5D)2[2]
485.6663	-3.586	84870.863	2.5	4D(5D)4D	64286.345	3.5	4P(3F)2F	491.2433	-2.985	73637.340	1.5	D5S2(7S)4G	93988.170	2.5	4SP(5G)4G
485.7488	-4.073	73492.215	3.5	D5S2(7S)4F	94073.240	3.5	4SP(5G)4G	491.2435	-4.932	78185.030	3.5	D5S2(7S)2G	89535.850	3.5	4SP(5D)4F
485.8663	-4.588	99824.045	2.5	5S(3F)4F	79243.600	1.5	4P(1D)2P	491.3107	-4.446	84296.830	5.5	4D(5D)6G	43948.790	4.5	4P(3F)4G
485.8890	-2.218	83136.487	3.5	4D(5D)6F	103711.570	3.5	4F(5D)2[4]	491.3181	-1.217	82978.677	4.5	4D(5D)6F	103326.410	4.5	4F(5D)3[4]
485.9031	-0.834	83308.194	2.5	4D(5D)6F	103882.680	3.5	4F(5D)1[4]	491.3292	0.150	82978.677	4.5	4D(5D)6F	103325.950	5.5	4F(5D)3[4]
486.0677	-0.145	82853.658	5.5	4D(5D)6F	103421.180	6.5	4F(5D)3[6]	491.5347	-4.273	73492.215	3.5	D5S2(7S)4F	93830.979	2.5	4SP(5D)6D
486.0918	-1.941	82853.658	5.5	4D(5D)6F	103420.160	5.5	4F(5D)3[6]	491.5354	-4.962	85172.809	3.5	4D(5D)4D	64833.407	1.5	4P(3P)2P
486.1067	-4.025	86124.301	4.5	4D(5D)4F	106690.170	5.5	4SP(3I)2H	491.5516	-4.519	86416.333	3.5	4D(5D)4F	66078.269	2.5	4P(3G)4G
486.1218	-1.500	83136.487	3.5	4D(5D)6F	103701.720	4.5	4F(5D)2[5]	491.5767	-4.905	83308.194	2.5	4D(5D)6F	103645.220	1.5	4F(5D)2[2]
486.2260	-3.276	103869.020	1.5	4F(5D)1[12]	103869.020	1.5	4F(5D)1[12]	491.6041	-4.800	50187.813	3.5	D6S(3F)4F	70523.706	3.5	4P(3G)2G
486.4929	-1.820	83308.194	2.5	4D(5D)6F	103857.740	2.5	4F(5D)1[12]	491.6786	-4.502	83713.536	3.5	4D(5D)6D	104046.350	2.5	4F(5D)0[3]
486.5605	-3.855	81693.260	2.5	D5S2(7S)2F	61093.413	2.5	4P(3P)2D	491.6833	-4.495	49100.976	0.5	D6S(3F)4F	69426.980	0.5	4SP(5S)4D
486.6180	-2.905	86124.301	4.5	4D(5D)4F	65580.041	5.5	4P(3G)4G	491.9010	-4.554	54283.220	3.5	D5S2(7S)4G	74606.841	2.5	4P(3D)2D
486.6206	-0.618	83136.487	3.5	4D(5D)6F	103680.640	3.5	4F(5D)2[4]	491.9540	-4.623	78577.280	4.5	D5S2(7S)2G	89898.710	3.5	4P(1G)2F
486.7120	-1.738	83136.487	3.5	4D(5D)6F	103676.780	3.5	4F(5D)2[4]	492.0427	-4.606	84266.556	3.5	4D(5D)6P	63948.790	4.5	4P(3F)4G
486.7738	-5.988	21430.359	5.5	D6S(3H)4H	41968.046	5.5	4P(5D)6F	492.0455	-4.731	79439.467	3.5	5S(5D)4D	99757.120	4.5	4P(1G)2G
486.8606	-5.352	21581.638	4.5	D6S(3H)4H	42114.818	4.5	4P(5D)6F	492.2095	-4.772	50212.826	2.5	D6S(3P)4F	70523.706	3.5	4P(3G)2G
486.9630	-4.859	77861.625	4.5	5S(5D)6D	98391.330	3.5	4SP(5D)4D	492.2192	-0.671	83558.540	0.5	4D(5D)6F	103869.020	1.5	4F(5D)1[2]
486.9973	-1.189	83459.670	1.5	4D(5D)6F	103987.930	2.5	4F(5D)1[13]	492.2465	-1.424	83713.536	3.5	4D(5D)6D	104022.890	3.5	4F(5D)0[3]
487.0719	-5.673	21711.917	3.5	D6S(3H)4H	42237.033	3.5	4P(5D)6F	492.2785	-4.406	98445.400	4.5	5S(3H)4H	78137.364	3.5	4P(1D)2F
487.0867	-2.062	83136.487	3.5	4D(5D)6F	103660.980	2.5	4F(5D)2[12]	492.3158	-3.947	81639.260	2.5	D5S2(7S)2F	61332.764	1.5	4P(3P)4P
487.1277	-4.326	21812.055	1.5	D6S(3P)4F	42334.822	2.5	4P(5D)6F	492.3846	-4.221	103608.909	4.5	5S(3G)2G	83305.251	3.5	4P(1F)2G
487.1585	-3.876	86599.738	2.5	4D(5D)4F	66078.269	2.5	4P(3G)4G	492.3927	-1.682	23317.633	2.5	D5S2(7S)6S	43620.957	1.5	4P(5D)6P
487.3153	-4.815	79885.493	2.5	5S(5D)4D	100400.360	2.5	4SP(3I)2D	492.4921	-4.966	22939.358	2.5	D6S(3F)4F	83238.586	2.5	4P(5D)6P
487.6919	-1.881	82853.658	5.5	4D(5D)6F	103352.680	4.5	4F(5D)3[15]	492.5179	-4.145	78237.685	3.5	5S(5D)6D	85355.850	3.5	4SP(5D)4F
487.7088	-7.137	18360.646	1.5	D7(5D)2P	38858.958	2.5	4P(5D)6D	492.5577	-1.852	83726.364	4.5	4D(5D)6D	104022.890	3.5	4F(5D)0[3]
487.7819	-4.731	73492.215	3.5	D5S2(7S)4F	93987.457	3.5	4SP(5D)6D	492.9126	-4.876	78725.790	1.5	5S(5D)6D	99007.000	0.5	4SP(5D)4D
487.9807	-4.654	84527.778	4.5	4D(5D)6G	64040.886	3.5	4P(3F)4G	493.0280	-1.599	83713.536	3.5	4D(5D)6D	103987.930	2.5	4F(5D)1[3]
488.0258	-4.548	86416.333	3.5	4D(5D)4F	65931.334	3.5	4P(3G)4G	493.2080	-1.599	83136.487	3.5	4D(5D)6F	103406.250	2.5	4F(5D)3[2]
488.0871	-3.166	81639.260	2.5	D5S2(7S)2F	61156.835	3.5	4P(3H)4H	493.4508	-4.837	84685.198	3.5	4D(5D)4D	64425.408	2.5	4P(3F)2F
488.3177	-1.208	82853.658	5.5	4D(5D)6F	103326.410	4.5	4F(5D)3[14]	493.5377	-1.414	83713.536	3.5	4D(5D)6D	103969.760	3.5	4F(5D)1[3]
488.3287	-0.537	82853.658	5.5	4D(5D)6F	103325.950	5.5	4F(5D)3[15]	493.7078	-0.861	83136.487	3.5	4D(5D)6D	103385.170	3.5	4F(5D)3[3]
488.3325	-4.463	88157.116	1.5	4D(5D)4F	108629.250	2.5	4SP(3G)4G	493.8178	-4.837	78525.407	2.5	5S(5D)6D	98770.140	1.5	4SP(5D)4D
488.6930	-5.079	26932.748	0.5	D6S(3P)2P	47389.779	1.5	4P(5D)4P	493.8504	-2.268	83726.364	4.5	4D(5D)6D	103969.760	3.5	4F(5D)1[3]
488.9697	-3.987	84870.863	2.5	4D(5D)4D	64425.408	2.5	4P(3F)2F	493.8817	-4.926	85048.602	1.5	4D(5D)4D	64806.487	0.5	4P(3P)2P
488.9947	-4.864	73395.930	2.5	D5S2(7S)4F	93840.340	1.5	4SP(5D)6D	493.8912	-4.916	99573.225	4.5	5S(3F)4F	79331.500	3.5	4SP(5S)6P
489.0647	-1.386	82978.677	4.5	4D(5D)6F	103420.160	5.5	4F(5D)3[16]	493.9633	-1.522	83459.670	1.5	4D(5D)6F	103698.440	2.5	4F(5D)2[3]
489.2295	-3.145	54063.459	0.5	D6S(3P)2P	74498.057	1.5	4P(3D)2D	494.0789	-2.374	83812.316	2.5				

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
494.2177	-1.141	83136.487	3.5	4D (5D)6F	103364.840	2.5	4F(5D)3[3]	498.4473	-2.066	83812.316	2.5	4D (5D)6D	103869.020	1.5	4F(5D)1[2]
494.2832	-4.532	84266.556	3.5	4D (5D)6F	64040.886	3.5	4F(5D)3[4]	498.4488	0.177	83308.194	2.5	4D (5D)6F	103364.840	2.5	4F(5D)3[13]
494.3601	-7.423	18886.780	0.5	D7 (5D)2P	39109.307	0.5	4P (5D)6D	498.4577	-0.892	83990.063	1.5	4D (5D)6D	104046.350	2.5	4F(5D)0[3]
494.3618	-3.798	86599.738	2.5	4D (5D)4F	66377.283	3.5	4D (3C)4F	498.7278	-1.030	83812.316	2.5	4D (5D)6D	103857.140	2.5	4F(5D)1[2]
494.3627	-4.342	54275.637	2.5	D5S2(7S)4G	74498.057	1.5	4P (3D)2D	498.7546	-4.147	78725.790	1.5	5S (5D)6D	103870.740	1.5	4SP(5D)4D
494.3635	-3.592	80717.975	1.5	5S (5D)4D	100400.360	2.5	4SP(3P)2D	498.8697	-1.576	82853.658	5.5	4D (5D)6F	102893.380	5.5	4F(5D)4[6]
494.3701	-3.389	81734.750	3.5	D5S2(7S)2F	61512.634	4.5	4P (3H)4I	498.8865	-2.971	86416.333	3.5	4D (5D)4F	66377.283	3.5	4P (3C)4F
494.3720	-3.868	79885.493	2.5	5S (5D)4D	59663.426	1.5	4P (3P)4L	498.9427	-4.915	84870.863	2.5	4D (5D)4D	64834.073	1.5	4P (3P)2P
494.5062	-1.361	83459.670	1.5	4D (5D)6F	103676.220	0.5	4F(5D)2[1]	498.9481	-4.229	83308.194	2.5	4D (5D)6F	63272.976	2.5	4P (3F)4D
494.5150	-0.949	83136.487	3.5	4D (5D)6F	103352.680	4.5	4F(5D)3[5]	499.0002	-3.990	88157.116	1.5	4D (5D)4P	108191.600	1.5	230DD
494.6524	-1.014	83812.316	2.5	4D (5D)6D	104022.890	3.5	4F(5D)0[3]	499.0212	-4.453	82978.677	4.5	4D (5D)6F	62945.038	3.5	4P (3F)4D
494.6905	-1.492	83459.670	1.5	4D (5D)6F	103668.980	1.5	4F(5D)2[1]	499.0509	0.311	83308.194	2.5	4D (5D)6F	103364.840	3.5	4F(5D)3[4]
494.7329	-6.212	23031.300	1.5	D6S (3F)4F	43238.586	2.5	4P (5D)6P	499.0768	-4.726	84863.351	5.5	4D (5D)4G	64831.943	4.5	4P (3F)2G
494.7651	-4.335	87985.628	2.5	4D (5D)4F	108191.600	1.5	230DD	499.1126	-4.661	22409.852	0.5	D6S (3P)4F	42439.822	0.5	4F(5D)6F
494.8096	-0.131	83136.487	3.5	4D (5D)6F	103340.640	3.5	4F(5D)3[4]	499.1440	-0.508	82853.658	5.5	4D (5D)6F	102882.370	4.5	4F(5D)4[4]
494.8841	-3.852	49100.976	0.5	D6S (3P)4F	103360.980	2.5	4F(5D)2[2]	499.1648	-3.582	58666.258	3.5	D6S (1G)2G	78690.846	2.5	4P (1D)2D
495.0429	-3.808	44915.046	3.5	D6S (1F)2F	69302.090	1.5	4SP(5S)4P	499.3358	-3.709	22637.205	4.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P
495.0838	-4.328	86124.301	4.5	4D (5D)4F	65109.679	3.5	4P (3F)4G	499.3769	-4.414	78577.280	4.5	D5S2(7S)2G	98596.650	4.5	4SP(5D)4F
495.1210	-4.111	83136.487	3.5	4D (5D)6F	62945.038	3.5	4P (3F)4D	499.5997	-3.942	78525.407	2.5	5S (5D)6D	98535.850	3.5	4SP(5D)4F
495.1529	-4.978	108804.667	3.5	5S (3D)4D	88614.520	4.5	4SP(5P)6D	499.6439	-4.918	81734.750	3.5	D5S2(7S)2F	61726.077	3.5	4P (3P)4D
495.1584	0.322	83136.487	3.5	4D (5D)6F	103326.410	4.5	4F(5D)3[4]	499.7963	-4.045	88189.030	0.5	4D (5D)4P	108191.600	1.5	230DD
495.1925	-3.883	86710.837	1.5	4D (5D)4F	66522.304	2.5	4P (3G)4G	499.8748	-2.250	73395.930	2.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F
495.2376	-4.748	83459.670	1.5	4D (5D)6F	63272.976	2.5	4P (3F)4D	499.8843	-4.851	83558.540	0.5	4D (5D)6F	63559.488	0.5	4P (3F)4D
495.2657	-0.410	83459.670	1.5	4D (5D)6F	103645.220	1.5	4F(5D)2[2]	499.9097	-2.273	83713.536	3.5	4D (5D)6D	103711.570	3.5	4F(5D)2[4]
495.3987	-2.948	44929.550	2.5	D6S (1F)2F	65109.679	3.5	4P (3F)2G	499.9139	-2.232	83990.063	1.5	4D (5D)6D	103987.930	2.5	4F(5D)1[3]
495.5096	-1.762	83812.316	2.5	4D (5D)6D	103987.930	2.5	4F(5D)1[3]	499.9180	-0.320	82853.658	5.5	4D (5D)6F	102851.660	4.5	4F(5D)4[5]
495.6566	-4.709	78185.030	3.5	D5S2(7S)2G	98354.660	2.5	4SP(5D)4F	499.9965	-4.488	83459.670	1.5	4D (5D)6F	93487.650	3.5	4P (3F)4F
495.6685	-2.089	83713.536	3.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]	500.0515	-2.992	73492.215	3.5	D5S2(7S)4F	93484.580	4.5	4P (3F)4F
495.7455	-2.329	82853.658	5.5	4D (5D)6D	103019.670	6.5	4F(5D)4[7]	500.0743	-4.682	22409.852	0.5	D6S (3P)4P	42401.302	1.5	4P (5D)6F
495.8022	-4.250	78843.992	0.5	5S (5D)6D	9907.700	0.5	4SP(5D)4D	500.1561	-1.484	83713.536	3.5	4D (5D)6D	103701.720	4.5	4F(5D)2[5]
495.8822	-0.368	83713.536	3.5	4D (5D)6D	103873.990	4.5	4F(5D)1[4]	500.1959	1.015	82853.658	5.5	4D (5D)6F	102840.250	6.5	4F(5D)4[6]
495.9562	-1.723	83812.316	2.5	4D (5D)6D	103969.760	3.5	4F(5D)1[3]	500.2306	-3.913	83726.364	4.5	4D (5D)6D	103711.570	3.5	4F(5D)2[1]
495.9634	-4.140	50157.452	4.5	D6S (3F)4F	70314.604	4.5	4P (3G)2G	500.2381	-3.985	83713.536	3.5	4D (5D)6D	103698.440	2.5	4F(5D)2[3]
495.9840	-4.933	83726.364	4.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	500.3356	-4.325	84266.556	3.5	4D (5D)6P	64286.345	3.5	4P (3F)2F
496.0497	-4.019	78237.685	3.5	5S (5D)6D	98391.330	3.5	4SP(5D)4F	500.3686	-4.396	78525.407	2.5	5S (5D)6D	98505.100	2.5	4SP(5D)4D
496.7116	-3.641	50187.813	3.5	D6S (3F)4F	103873.990	4.5	4F(5D)1[4]	500.4195	0.618	82853.658	5.5	4D (5D)6F	102831.320	5.5	4F(5D)4[5]
496.7206	-8.011	18886.780	0.5	D7 (5D)2P	103676.220	0.5	4F(5D)2[1]	500.4208	-3.215	83459.670	1.5	4D (5D)6F	103437.280	0.5	4F(5D)3[1]
496.9365	-0.676	83558.540	0.5	4D (5D)6F	70314.604	4.5	4P (3G)2G	500.4773	-0.975	83726.364	4.5	4D (5D)6D	103701.720	4.5	4F(5D)2[5]
496.9540	-4.833	78237.685	3.5	5S (5D)6D	98354.660	2.5	4SP(5D)4F	500.7447	-0.235	83726.364	4.5	4D (5D)6D	103680.640	4.5	4F(5D)2[4]
497.0880	-2.839	86124.301	4.5	4D (5D)4F	83871.184	4.5	4P (1F)2G	500.7739	-0.123	82978.677	4.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]
497.1226	-0.434	83558.540	0.5	4D (5D)6F	66012.750	4.5	4P (3G)4F	500.7809	-1.950	83713.536	3.5	4D (5D)6D	103676.780	3.5	4F(5D)2[3]
497.1333	-1.060	83308.194	2.5	4D (5D)6F	103668.690	1.5	4F(5D)2[1]	500.8982	-4.552	78577.280	4.5	D5S2(7S)2G	98535.850	3.5	4SP(5D)4F
497.4187	-3.572	86710.837	1.5	4D (5D)4F	103417.910	1.5	4F(5D)3[1]	500.9022	-0.321	83459.670	1.5	4D (5D)6F	103418.910	1.5	4F(5D)3[10]
497.4218	-0.950	83308.194	2.5	4D (5D)6F	66612.656	1.5	4P (3G)4F	500.9065	-4.986	83459.670	1.5	4D (5D)6F	103417.910	1.5	4F(5D)3[11]
497.5245	-1.815	73393.745	4.5	D5S2(7S)4F	103406.650	2.5	4F(5D)3[2]	501.0060	-0.516	83726.364	4.5	4D (5D)6D	103680.640	4.5	4F(5D)2[4]
497.5363	-4.934	83558.540	0.5	4D (5D)6F	93487.650	3.5	4P (3F)4F	501.1029	-1.083	83726.364	4.5	4D (5D)6D	103676.780	3.5	4F(5D)2[3]
497.5786	-2.937	73395.930	2.5	D5S2(7S)4F	63465.109	1.5	4P (3F)4D	501.1776	-1.918	83713.536	3.5	4D (5D)6D	103660.980	2.5	4F(5D)2[2]
497.6005	-1.634	73393.745	4.5	D5S2(7S)4F	93484.580	4.5	4P (3F)4F	501.1993	-1.043	83459.670	1.5	4D (5D)6F	103406.270	2.5	4F(5D)3[2]
497.7035	0.090	83558.540	0.5	4D (5D)6F	103645.220	1.5	4F(5D)2[2]	501.5521	-2.618	73395.930	2.5	D5S2(7S)4F	93328.480	1.5	4P (3F)4F
497.7923	-0.444	83308.194	2.5	4D (5D)6F	103391.290	1.5	4F(5D)3[2]	501.6816	-4.768	83459.670	1.5	4D (5D)6F	103391.290	1.5	4F(5D)3[12]
497.8376	-4.534	108804.667	3.5	5S (3D)4D	88723.400	4.5	5P (5D)6D	501.7132	-4.328	86599.738	2.5	4D (5D)4F	66672.334	3.5	4P (3C)4H
497.9302	-2.596	83308.194	2.5	4D (5D)6F	103385.730	3.5	4F(5D)3[3]	501.8440	-1.524	23317.633	2.5	D5S2(7S)6S	98770.140	1.5	4SP(5D)4D
497.9327	-3.277	86599.738	2.5	4D (5D)4F	66522.304	2.5	4P (3F)4D	501.8440	-1.524	49506.934	1.5	D6S (3P)4P	69426.980	0.5	4SP(5D)4P
497.9917	-4.522	85184.734	4.5	4D (5D)4G	65109.679	3.5	4P (3F)2G	501.8669	-3.862	44915.046	3.5	D6S (1F)2F	64831.943	4.5	4P (3F)2G
498.1081	-0.902	83812.316	2.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	502.0015	-0.608	82978.677	4.5	4D (5D)6F	102893.380	5.5	4F(5D)4[6]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL			
502.0399	-4.559	81639.260	2.5	D582(7S)2F	61726.077	3.5	4P (3F)4D	507.2070	-4.809	86710.837	1.5	4D (5D)4F	67000.517	2.5	4P (3F)2D	502.1594	-0.136	82978.677	4.5	4D (5D)6F	102887.120	3.5	4F(5D)4[4]	103698.440	2.5	4F(5D)2[3]
502.2420	0.013	83459.670	1.5	4D (5D)6F	103364.840	2.5	4F(5D)3[3]	507.3562	-2.994	54902.315	1.5	D6S (3P)2P	74606.841	2.5	4P (3D)2D	502.2583	-4.262	44929.550	2.5	D6S (1F)2F	64834.073	1.5	4P (3F)2P	103969.760	3.5	4F(5D)1[3]
502.2792	0.014	82978.677	4.5	4D (5D)6F	102882.370	4.5	4F(5D)4[4]	507.4053	-2.077	54904.222	3.5	D6S (3D)2F	74606.841	2.5	4F(5D)1[3]	502.2931	-2.439	73492.215	3.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F	98278.770	5.5	4P (1G)2H
502.3479	-4.340	87985.628	2.5	4D (5D)4P	107886.600	3.5	200DD	507.5764	0.345	84326.912	2.5	4D (5D)6F	104022.890	3.5	4F(5D)0[3]	502.3913	-1.628	83812.316	2.5	4D (5D)6D	103420.160	5.5	4F(5D)3[6]	103406.250	2.5	4F(5D)3[12]
502.6806	-0.185	83136.487	3.5	4D (5D)6F	103024.290	2.5	4F(5D)4[2]	507.6326	-2.665	83726.364	4.5	4D (5D)6D	103406.250	2.5	4F(5D)3[12]	502.7230	-1.733	83812.316	2.5	4D (5D)6D	103406.250	2.5	4F(5D)3[12]	93328.480	1.5	4P (3F)4F
502.9042	-1.897	83990.063	1.5	4D (5D)6F	103698.440	2.5	4F(5D)2[3]	507.7011	-2.299	73637.340	1.5	D5S2(7S)4F	93328.480	1.5	4P (3F)4F	502.9097	-0.683	83958.540	0.5	4D (5D)6F	103676.220	0.5	4F(5D)2[11]	103385.730	3.5	4F(5D)3[13]
502.9097	-0.541	82978.677	4.5	4D (5D)6F	103437.020	1.5	4F(5D)1[2]	508.1901	-0.758	83990.063	1.5	4D (5D)6D	103676.220	0.5	4F(5D)2[11]	503.0630	0.541	82978.677	4.5	4D (5D)6F	103660.980	2.5	4F(5D)2[12]	62065.521	3.5	4F(5D)2[2]
503.1898	-0.221	83990.063	1.5	4D (5D)6D	103857.740	2.5	4F(5D)1[2]	508.2230	-0.057	83990.063	1.5	4D (5D)6D	103660.980	2.5	4F(5D)2[12]	503.1898	-0.221	83990.063	1.5	4D (5D)6D	103857.740	2.5	4F(5D)1[2]	62065.521	3.5	4F(5D)2[2]
503.2342	-4.317	78525.407	2.5	5S (5D)6D	98391.330	3.5	4SP(5D)4D	508.3418	-3.274	78185.030	3.5	D5S2(7S)2G	97851.350	4.5	4P (1G)2H	503.2342	-4.317	78525.407	2.5	5S (5D)6D	98391.330	3.5	4SP(5D)4D	103125.650	0.5	4F(5D)4[1]
503.3960	-1.061	83558.540	0.5	4D (5D)6F	103418.080	0.5	4F(5D)3[0]	508.3506	-0.704	83459.670	1.5	4D (5D)6F	103125.650	0.5	4F(5D)4[1]	503.3960	-1.061	83558.540	0.5	4D (5D)6F	103418.080	0.5	4F(5D)3[0]	61974.933	1.5	4SP(7S)6P
503.4003	-0.666	83558.540	0.5	4D (5D)6F	103417.910	1.5	4F(5D)3[11]	508.3934	-4.399	81639.260	2.5	D5S2(7S)2F	61974.933	1.5	4SP(7S)6P	503.4003	-0.666	83558.540	0.5	4D (5D)6F	103417.910	1.5	4F(5D)3[11]	103987.930	2.5	4F(5D)1[3]
503.4762	-1.470	83812.316	2.5	4D (5D)6D	103668.690	1.5	4F(5D)2[1]	508.4789	-2.521	84326.912	2.5	4D (5D)6F	103987.930	2.5	4F(5D)1[3]	503.4762	-1.470	83812.316	2.5	4D (5D)6D	103668.690	1.5	4F(5D)2[1]	103385.730	3.5	4F(5D)3[13]
503.5553	-4.840	84685.198	3.5	4D (5D)4D	64831.943	4.5	4P (3F)2G	508.6306	-0.385	83990.063	1.5	4D (5D)6D	1036645.220	1.5	4F(5D)2[2]	503.5553	-4.840	84685.198	3.5	4D (5D)4D	64831.943	4.5	4P (3F)2G	46967.444	2.5	4P (5D)4P
503.5708	-0.717	82978.677	4.5	4D (5D)6F	102831.320	5.5	4F(5D)4[5]	508.6988	-5.241	27314.922	3.5	D6S (3F)2F	46967.444	2.5	4P (5D)4P	503.5708	-0.717	82978.677	4.5	4D (5D)6F	102831.320	5.5	4F(5D)4[5]	62083.108	4.5	4P (3H)2G
503.6367	-4.581	83726.364	4.5	4D (5D)6D	63876.317	5.5	4P (3F)4G	508.7215	-2.614	17174.750	3.5	D5S2(7S)2F	62083.108	4.5	4P (3H)2G	503.6367	-4.581	83726.364	4.5	4D (5D)6D	63876.317	5.5	4P (3F)4G	103364.840	2.5	4F(5D)3[1]
503.6718	-0.246	83812.316	2.5	4D (5D)6D	103660.980	2.5	4F(5D)2[2]	508.7303	-0.383	83713.536	3.5	4D (5D)6D	103364.840	2.5	4F(5D)3[1]	503.6718	-0.246	83812.316	2.5	4D (5D)6D	103660.980	2.5	4F(5D)2[2]	103110.790	1.5	4F(5D)4[1]
503.6920	-4.735	22810.357	3.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	508.7350	-1.439	83459.670	1.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]	503.6920	-4.735	22810.357	3.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	102952.120	2.5	4F(5D)4[3]
504.0720	-1.370	83812.316	2.5	4D (5D)6D	103645.220	1.5	4F(5D)2[2]	508.9214	0.071	84326.912	2.5	4D (5D)6F	102952.120	2.5	4F(5D)4[3]	504.0720	-1.370	83812.316	2.5	4D (5D)6D	103645.220	1.5	4F(5D)2[2]	103969.760	3.5	4F(5D)1[3]
504.1648	-4.192	78525.407	2.5	5S (5D)6D	98354.460	2.5	4SP(5D)4F	508.9493	-2.470	83713.536	3.5	4D (5D)6D	103352.680	4.5	4F(5D)3[5]	504.1648	-4.192	78525.407	2.5	5S (5D)6D	98354.460	2.5	4SP(5D)4F	93129.900	3.5	4P (3F)4D
504.2139	-4.849	86416.333	3.5	4D (5D)4G	66589.008	4.5	4P (3G)4H	509.0831	-2.140	73492.215	3.5	D5S2(7S)4F	93129.900	3.5	4P (3F)4D	504.2139	-4.849	86416.333	3.5	4D (5D)4G	66589.008	4.5	4P (3G)4H	102942.200	3.5	4F(5D)4[3]
504.3712	-4.434	85184.734	4.5	4D (5D)4G	65363.595	5.5	4P (3H)2H	509.1785	-2.331	83308.194	2.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]	504.3712	-4.434	85184.734	4.5	4D (5D)4G	65363.595	5.5	4P (3H)2H	104816.800	5.5	4SP(3I)4H
504.5114	-0.009	83136.487	3.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]	509.3465	-2.242	54870.528	2.5	D6S (3F)2F	74498.057	1.5	4P (3D)2D	504.5114	-0.009	83136.487	3.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]	103340.640	3.5	4F(5D)3[4]
504.7641	-0.052	83308.194	2.5	4D (5D)6F	103310.790	1.5	4F(5D)4[1]	509.3575	0.176	83713.536	3.5	4D (5D)6D	74498.057	1.5	4P (3D)2D	504.7641	-0.052	83308.194	2.5	4D (5D)6F	103310.790	1.5	4F(5D)4[1]	103352.680	4.5	4F(5D)3[5]
504.8435	-0.698	84266.556	3.5	4D (5D)6F	104659.260	6.5	4SP(3I)4H	509.3780	-0.302	83726.364	4.5	4D (5D)6F	103352.680	4.5	4F(5D)3[5]	504.8435	-0.698	84266.556	3.5	4D (5D)6F	104659.260	6.5	4SP(3I)4H	104046.350	2.5	4F(5D)0[3]
505.0141	-4.682	84863.351	5.5	4D (5D)4G	104659.260	6.5	4SP(3I)4H	509.4906	-0.636	84424.370	1.5	4D (5D)6F	104046.350	2.5	4F(5D)0[3]	505.0141	-4.682	84863.351	5.5	4D (5D)4G	104659.260	6.5	4SP(3I)4H	103882.680	3.5	4F(5D)1[4]
505.0333	-4.508	49506.934	1.5	D6S (3P)4P	69302.090	1.5	4SP(5D)4P	509.6427	-2.824	84266.556	3.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]	505.0333	-4.508	49506.934	1.5	D6S (3P)4P	69302.090	1.5	4SP(5D)4P	103340.640	3.5	4F(5D)3[4]
505.4255	-2.552	84266.556	3.5	4D (5D)6P	104046.350	2.5	4F(5D)0[3]	509.6907	-0.549	83726.364	4.5	4D (5D)6D	103340.640	3.5	4F(5D)3[4]	505.4255	-2.552	84266.556	3.5	4D (5D)6P	104046.350	2.5	4F(5D)0[3]	103325.950	5.5	4F(5D)3[5]
505.4379	-3.996	78725.790	1.5	5S (5D)6D	98505.100	2.5	4SP(5D)4D	509.7271	-4.371	84266.556	3.5	4D (5D)6D	103325.950	5.5	4F(5D)3[5]	505.4379	-3.996	78725.790	1.5	5S (5D)6D	98505.100	2.5	4SP(5D)4D	67000.517	2.5	4P (3F)2D
505.5319	-3.712	80177.975	1.5	5S (5D)4D	60402.342	2.5	4P (3F)4P	509.7907	0.340	83713.536	3.5	4D (5D)6D	67000.517	2.5	4P (3F)2D	505.5319	-3.712	80177.975	1.5	5S (5D)4D	60402.342	2.5	4P (3F)4P	67273.826	1.5	4P (3F)2D
505.6921	-8.216	27620.412	2.5	D6S (3F)2F	47389.779	1.5	4P (5D)4P	509.8885	-0.433	84266.556	3.5	4D (5D)6D	67273.826	1.5	4P (3F)2D	505.6921	-8.216	27620.412	2.5	D6S (3F)2F	47389.779	1.5	4P (5D)4P	69102.380	2.5	4SP(5S)4P
505.7572	-4.199	85462.862	3.5	4D (5D)4G	65969.038	4.5	4P (3G)4G	509.9164	-3.281	83812.316	2.5	4D (5D)6F	69102.380	2.5	4SP(5S)4P	505.7572	-4.199	85462.862	3.5	4D (5D)4G	65969.038	4.5	4P (3G)4G	103406.250	2.5	4F(5D)3[12]
505.8103	-4.835	83713.536	3.5	4D (5D)6D	63948.790	4.5	4P (3F)4G	509.9398	-4.199	83184.734	4.5	4D (5D)4G	103406.250	2.5	4F(5D)3[12]	505.8103	-4.835	83713.536	3.5	4D (5D)6D	63948.790	4.5	4P (3F)4G	103857.740	2.5	4F(5D)1[2]
505.9825	-2.970	73637.340	1.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F	509.9998	-4.199	83184.734	4.5	4D (5D)4G	103857.740	2.5	4F(5D)1[2]	505.9825	-2.970	73637.340	1.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F	62151.561	2.5	4P (3F)4F
506.0257	-0.524	84266.556	3.5	4D (5D)6P	104022.890	3.5	4F(5D)0[3]	510.0247	-4.184	85679.698	2.5	4D (5D)4G	62151.561	2.5	4P (3F)4F	506.0257	-0.524	84266.556	3.5	4D (5D)6P	104022.890	3.5	4F(5D)0[3]	103391.290	1.5	4F(5D)3[12]
506.1718	0.351	83136.487	3.5	4D (5D)4G	65931.334	3.5	4P (3G)4G																			

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
510.7547	-0.485	83812.316	2.5	4D (5D)6D	103385.730	3.5	4F(5D)3[1]	515.1905	-2.493	84296.830	5.5	4D (5D)6G	103701.720	4.5	4F(5D)2[15]
510.9193	-2.232	83558.540	0.5	4D (5D)6F	103125.650	0.5	4F(5D)4[1]	515.2878	-0.531	83990.063	1.5	4D (5D)6D	103391.290	1.5	4F(5D)3[12]
510.9843	-1.588	83459.670	1.5	4D (5D)6F	103024.290	2.5	4F(5D)4[2]	515.4409	-4.320	22939.338	2.5	D6S (3F)4F	42334.822	2.5	4P (5D)6F
511.0120	-2.173	84424.370	1.5	4D (5D)6F	103987.930	2.5	4F(5D)1[3]	515.4601	-3.830	81639.560	2.5	D5S2(7S)2F	62244.520	1.5	4P (3F)4F
511.0156	-0.864	84326.912	2.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]	515.4685	-1.003	84266.556	3.5	4D (5D)6P	103660.980	2.5	4F(5D)2[2]
511.3004	-0.672	83812.316	2.5	4D (5D)6D	103364.840	2.5	4F(5D)3[1]	515.4739	-0.893	84296.830	5.5	4D (5D)6G	103691.030	5.5	4F(5D)2[15]
511.3076	-2.317	83558.540	0.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]	515.7282	-0.299	84326.912	2.5	4D (5D)6P	103711.570	3.5	4F(5D)2[14]
511.5062	-0.364	84131.563	0.5	4D (5D)6D	103676.220	0.5	4F(5D)2[11]	515.7299	-3.006	85462.862	3.5	4D (5D)4G	66077.269	2.5	4P (3G)4G
511.5730	-3.096	84326.912	2.5	4D (5D)6P	103869.020	1.5	4F(5D)1[2]	515.7508	-2.910	84296.830	5.5	4D (5D)6G	103680.640	4.5	4F(5D)2[14]
511.7034	0.025	84131.563	0.5	4D (5D)6D	103668.690	1.5	4F(5D)2[11]	515.9912	-0.743	83990.063	1.5	4D (5D)6D	103364.840	2.5	4F(5D)3[13]
511.7102	-4.447	102842.119	4.5	5S (3G)4G	83305.251	3.5	4P (1F)2G	516.0778	-1.393	84326.912	2.5	4D (5D)6P	103698.440	2.5	4F(5D)2[13]
511.8501	-3.588	85462.862	3.5	4D (5D)4G	65931.334	3.5	4P (3G)4G	516.1184	-4.642	23031.300	1.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F
511.8684	-1.112	84326.912	2.5	4D (5D)6P	103857.740	2.5	4F(5D)1[2]	516.3544	-1.811	84685.198	3.5	4D (5D)4D	104046.350	2.5	4F(5D)0[13]
511.9341	-0.793	83812.316	2.5	4D (5D)6D	103340.640	3.5	4F(5D)3[4]	516.5211	-2.041	84527.778	4.5	4D (5D)6G	103882.680	3.5	4F(5D)1[4]
512.0352	-4.350	22810.357	3.5	D6S (3F)4F	42334.822	2.5	4P (3D)2F	516.6555	-1.042	84326.912	2.5	4D (5D)6P	103676.780	3.5	4F(5D)2[13]
512.3188	-2.805	81639.260	2.5	D5S2(7S)2F	62125.620	1.5	4P (3P)2F	516.7312	-6.971	27620.412	2.5	D6S (3F)2F	46967.444	2.5	4P (5D)4P
512.3188	-3.121	84131.563	0.5	4D (5D)6D	103645.220	1.5	4F(5D)2[12]	516.7531	-0.937	84527.778	4.5	4D (5D)6G	103873.990	4.5	4F(5D)1[4]
512.4054	-4.124	44915.046	3.5	D6S (1F)2F	64425.408	2.5	4P (3F)4F	516.8716	-2.173	84326.912	2.5	4D (5D)6P	103668.690	1.5	4F(5D)2[11]
512.4753	-4.789	50142.786	2.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F	517.0777	-0.421	47674.721	1.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D
512.5243	-3.232	58631.531	4.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F	517.1640	-4.997	22637.205	4.5	D6S (3F)4F	41968.046	5.5	4P (5D)6F
512.5917	-2.413	73395.930	2.5	D5S2(7S)2F	64425.408	2.5	4P (3F)4F	517.2990	-2.902	47674.721	1.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D
512.6197	-6.202	25787.598	1.5	D6S (3P)2F	45289.801	1.5	4P (5D)4P	517.4995	-1.231	84326.912	2.5	4D (5D)6P	103660.980	2.5	4F(5D)2[12]
512.6841	-4.827	84863.351	5.5	4D (5D)4G	65363.595	5.5	4P (3H)2H	517.7020	-0.089	83713.536	3.5	4D (5D)6D	104022.890	3.5	4F(5D)0[13]
512.7866	-2.680	44929.550	2.5	D6S (1F)2F	64425.408	2.5	4P (3F)2F	517.8371	-0.432	84131.563	0.5	4D (5D)6D	104337.280	0.5	4F(5D)3[11]
512.8062	-2.523	84527.778	4.5	4D (5D)6G	104022.890	3.5	4F(5D)0[13]	517.8707	-5.957	22810.357	3.5	D6S (3F)4F	42114.818	4.5	4P (5D)6F
512.8762	-1.018	83459.670	1.5	4D (5D)6F	102952.120	2.5	4F(5D)4[3]	517.8959	-5.410	23031.300	1.5	D6S (3F)4F	42334.822	2.5	4F(5D)1[3]
513.1210	-3.450	79885.493	2.5	5S (5D)4D	60402.342	2.5	4P (3P)4F	517.9171	-2.356	84685.198	3.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]
513.2002	-4.931	85728.806	1.5	4D (5D)4S	66248.660	0.5	4P (3P)2F	517.9256	-4.622	85679.698	2.5	4D (5D)4G	66377.283	3.5	4P (3G)4F
513.2669	-4.114	22637.205	4.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	518.0007	-3.792	84863.331	5.5	4D (5D)4G	65556.280	4.5	4P (3H)2H
513.3036	-2.573	83558.540	0.5	4D (5D)6F	103034.760	1.5	4F(5D)4[2]	518.0314	0.039	83812.316	2.5	4D (5D)6D	103110.790	1.5	4F(5D)4[11]
513.3374	-4.899	85462.862	3.5	4D (5D)4G	104937.860	4.5	4S(3I)4H	518.0529	-5.280	22939.338	2.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F
513.4385	-4.400	58666.258	3.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F	518.1977	-6.782	25787.598	1.5	D6S (3P)2F	45079.879	2.5	4P (5D)4F
513.4385	-4.101	50142.786	2.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	518.3526	-0.789	84131.563	0.5	4D (5D)6D	103417.910	1.5	4F(5D)3[11]
513.6610	-4.760	50187.813	3.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F	518.4051	-1.200	84685.198	1.5	D6S (3F)2F	45044.168	1.5	4P (5D)4D
513.6802	-4.454	22939.358	2.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	518.6019	-1.822	84710.685	3.5	4D (5D)6G	103969.760	3.5	4F(5D)1[3]
513.9977	-4.595	85462.862	3.5	4D (5D)4G	66012.750	1.5	4P (3D)6F	518.6388	-4.191	84863.331	5.5	4D (5D)4G	65580.041	5.5	4P (3G)4G
514.0194	-4.512	50157.452	4.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	518.6019	-1.822	84710.685	3.5	4D (5D)6G	103987.930	2.5	4F(5D)1[3]
514.0692	-0.600	83990.063	1.5	4D (5D)6D	103437.280	0.5	4F(5D)3[11]	518.6873	-0.210	84424.370	1.5	4D (5D)6P	103698.440	2.5	4F(5D)2[13]
514.1274	-1.343	84266.556	3.5	4D (5D)6P	103711.570	3.5	4F(5D)2[4]	518.6873	-0.210	84424.370	1.5	4D (5D)6P	103698.440	2.5	4F(5D)2[13]
514.2076	-3.080	84424.370	1.5	4D (5D)6P	103869.020	1.5	4F(5D)1[2]	518.3571	-1.964	84131.563	0.5	4D (5D)6D	103417.910	1.5	4F(5D)3[11]
514.3391	-4.367	86710.837	1.5	4D (5D)4F	67273.826	1.5	4P (3F)2D	518.4051	-1.200	84685.198	1.5	D6S (3F)2F	45044.168	1.5	4P (5D)4D
514.3880	-0.421	84266.556	3.5	4D (5D)6P	103701.720	4.5	4F(5D)2[15]	518.6019	-1.822	84710.685	3.5	4D (5D)6G	103987.930	2.5	4F(5D)1[3]
514.4355	0.332	84424.370	1.5	4D (5D)6P	103857.740	2.5	4F(5D)1[2]	518.6873	-0.210	84424.370	1.5	4D (5D)6P	103698.440	2.5	4F(5D)2[13]
514.4748	-1.512	84266.556	3.5	4D (5D)6P	103698.440	2.5	4F(5D)2[3]	518.6873	-0.210	84424.370	1.5	4D (5D)6P	103698.440	2.5	4F(5D)2[13]
514.5772	-0.301	83990.063	1.5	4D (5D)6D	103418.080	0.5	4F(5D)3[0]	519.0161	-3.610	73637.340	1.5	D5S2(7S)2G	78577.280	4.5	4P (5D)6F
514.5817	-0.185	83990.063	1.5	4D (5D)6D	103417.910	1.5	4F(5D)3[11]	519.0736	-0.764	84131.563	0.5	4D (5D)6D	103391.290	1.5	4F(5D)3[12]
514.6127	-4.119	22810.357	3.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	519.0912	-0.748	84710.685	3.5	4D (5D)6G	103969.760	3.5	4F(5D)1[3]
514.8201	-5.757	25787.598	1.5	D6S (3P)2F	45206.450	0.5	4P (5D)4D	519.1587	-5.108	25787.598	1.5	D6S (3F)2F	45044.168	1.5	4P (5D)4D
514.8231	-4.839	50187.813	3.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	519.2442	-2.498	85184.734	4.5	4D (5D)4G	65931.334	3.5	4P (3G)4G
514.8907	-0.351	83990.063	1.5	4D (5D)6D	103406.250	2.5	4F(5D)3[2]	519.2863	-2.035	73395.930	2.5	D5S2(7S)4F	92647.510	1.5	4P (3F)4D
514.9006	-4.971	86416.333	3.5	4D (5D)4F	67000.517	2.5	4P (3F)2D	519.2933	-2.012	84424.370	1.5	4D (5D)6P	103668.690	1.5	4F(5D)2[11]
514.9465	0.582	84266.556	3.5	4D (5D)6P	103680.640	4.5	4F(5D)2[4]	519.4892	-0.028	84424.370	1.5	4D (5D)6P	103668.690	1.5	4F(5D)2[11]
514.9933	-4.587	81734.750	3.5	D5S2(7S)2F	62322.431	3.5	4P (3H)2G	519.6441	-0.755	83713.536	3.5	4D (5D)6D	102952.120	2.5	4F(5D)4[3]
515.0489	-0.039	84266.556	3.5	4D (5D)6P	103676.780	3.5	4F(5D)2[1]	519.6974	-1.299	84424.370	1.5	4D (5D)6P	103660.980	2.5	4F(5D)2[12]
515.0941	-4.585	23031.300	1.5	D6S (3F)4F	42439.822	0.5	4P (5D)6F	519.7480	-3.124	48033.090	2.5	D7 (5D)2D	67273.826	1.5	4P (3F)2D
515.1349	-2.056	73492.215	3.5	D5S2(7S)4F	92899.200	2.5	4P (3F)4D	519.7577	-2.395	26055.423	2.5	D6S (3G)4G	45289.801	1.5	4P (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
519.9122	0.188	83713.536	3.5	4D (5D)6D	102942.200	3.5	4F(5D)4[3]	523.4615	-1.954	84266.556	3.5	4D (5D)6P	103364.840	2.5	4F(5D)3[3]
520.0804	-0.181	83812.316	2.5	4D (5D)6D	103034.760	1.5	4F(5D)4[2]	523.4625	-2.311	25981.629	3.5	D6S (3G)4G	45079.879	2.5	4P (5D)4F
520.1235	-1.289	84424.370	1.5	4D (5D)6P	103645.220	1.5	4F(5D)2[2]	523.5136	-4.668	79439.467	3.5	5S (5D)4D	98535.850	3.5	48P(5D)4F
520.2592	-0.657	83726.364	4.5	4D (5D)6D	102944.200	3.5	4F(5D)4[3]	523.6613	-0.676	84326.912	2.5	4D (5D)6P	103417.910	1.5	4F(5D)3[1]
520.3638	-0.041	83812.316	2.5	4D (5D)6D	103024.290	2.5	4F(5D)4[2]	523.7089	-3.838	50212.826	2.5	D6S (3P)4P	69302.090	1.5	48P(5S)4P
520.4018	-4.901	87985.628	2.5	4D (5D)4F	107196.200	2.5	180DD	523.7950	0.266	84266.556	3.5	4D (5D)6P	103352.680	4.5	4F(5D)3[5]
520.4455	-4.751	73393.745	4.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	523.8100	-2.835	85462.862	3.5	4D (5D)4G	66377.280	4.5	4P (3G)4F
520.5047	-3.474	73395.930	2.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	523.8379	-3.774	80177.975	1.5	5S (5D)4D	61093.413	2.5	4P (3P)2D
520.6027	-4.332	73492.215	3.5	D5S2(7S)4F	92695.374	2.5	4P (3F)2D	523.8624	-5.469	24317.633	2.5	D5S2(7S)6S	42401.302	1.5	4P (5D)6F
520.6472	-2.293	84844.834	2.5	4D (5D)6G	104046.350	2.5	4F(5D)0[3]	523.9813	-0.456	83396.912	2.5	4D (5D)6P	103406.250	2.5	4F(5D)3[2]
520.7566	-1.775	84685.198	3.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	524.0601	-3.217	58666.258	3.5	D6S (1G)2G	77742.730	2.5	4P (1D)2F
520.9925	-0.565	84685.198	3.5	4D (5D)4D	103873.990	4.5	4F(5D)1[4]	524.1059	-0.500	83212.316	2.5	4D (5D)6D	102887.120	3.5	4F(5D)4[4]
521.1283	-2.498	84710.685	2.5	4D (5D)6G	103711.570	3.5	4F(5D)2[4]	524.1257	-1.516	84266.556	3.5	4D (5D)6P	103340.640	3.5	4F(5D)3[4]
521.2321	-3.940	87985.628	2.5	4D (5D)4F	107165.600	3.5	170DD	524.3192	-2.078	85679.698	2.5	4D (5D)4G	66612.656	1.5	4P (3G)4F
521.2841	-0.470	84844.834	2.5	4D (5D)6G	104022.890	3.5	4F(5D)0[3]	524.3580	-2.822	79439.467	3.5	5S (5D)4D	98505.100	2.5	48P(5D)4D
521.3540	-0.709	84870.863	2.5	4D (5D)4D	104046.350	2.5	4F(5D)0[3]	524.3925	-0.848	84326.912	2.5	4D (5D)6P	103326.410	4.5	4F(5D)3[2]
521.3960	-0.178	84527.778	4.5	4D (5D)6G	103701.720	4.5	4F(5D)2[5]	524.5170	-1.333	84266.556	3.5	4D (5D)6P	103391.290	1.5	4F(5D)3[4]
521.4057	-0.581	83713.536	3.5	4D (5D)6D	102887.120	3.5	4F(5D)4[4]	524.5455	-0.545	84326.912	2.5	4D (5D)6P	103385.730	3.5	4F(5D)3[3]
521.4341	-1.584	84685.198	3.5	4D (5D)4D	103857.740	2.5	4F(5D)1[2]	524.6272	-2.138	84296.830	5.5	4D (5D)6G	103326.680	4.5	4F(5D)3[5]
521.4387	-4.406	44915.046	3.5	D6S (1F)2F	64087.418	2.5	4P (3F)4G	524.6579	-2.143	88157.116	1.5	4D (5D)4P	69102.380	2.5	48P(5S)4P
521.4489	-0.409	84710.685	3.5	4D (5D)6G	103882.680	3.5	4F(5D)1[4]	524.7952	0.629	84938.180	1.5	4D (5D)6G	103987.930	2.5	4F(5D)1[3]
521.4492	-3.144	85184.734	4.5	4D (5D)4G	66012.750	4.5	4P (3G)4F	524.9297	-3.404	81734.750	3.5	D5S2(7S)2F	62689.880	2.5	4P (3P)4D
521.5349	0.047	83713.536	3.5	4D (5D)6D	102882.370	4.5	4F(5D)4[4]	524.9344	-0.527	84938.180	1.5	4D (5D)6D	103034.760	1.5	4F(5D)4[2]
521.5763	-2.018	84863.351	5.5	4D (5D)4G	65696.038	4.5	4P (3G)4G	525.0892	-4.827	88157.116	1.5	4D (5D)4D	107196.200	2.5	180DD
521.6854	0.476	84710.685	3.5	4D (5D)6G	102893.380	5.5	4F(5D)4[6]	525.1211	-0.498	84326.912	2.5	4D (5D)6P	103364.840	2.5	4F(5D)3[3]
521.6863	0.743	84527.778	4.5	4D (5D)6D	103873.990	4.5	4F(5D)1[4]	525.1233	0.612	84844.834	2.5	4D (5D)6G	103882.680	3.5	4F(5D)1[4]
521.7548	-1.766	83726.364	4.5	4D (5D)6D	103691.050	5.5	4F(5D)2[5]	525.1432	-3.559	79439.467	3.5	5S (5D)4D	60402.342	2.5	4P (3P)4P
521.8335	-3.045	44929.550	2.5	D6S (1F)2F	64087.418	2.5	4P (3F)4G	525.2506	-2.501	83990.063	1.5	4D (5D)6D	103024.720	2.5	4F(5D)4[2]
521.8464	-2.901	85679.698	2.5	4D (5D)4G	66522.304	2.5	4P (3G)4F	525.3514	-0.951	73393.745	4.5	D5S2(7S)4F	92426.980	4.5	48P(5G)4F
521.8821	-1.959	79439.467	3.5	5S (5D)4D	98596.650	4.5	48P(5D)4F	525.3641	0.078	84296.830	5.5	4D (5D)6G	103326.410	4.5	4F(5D)3[4]
521.8842	-0.114	83726.364	4.5	4D (5D)6D	102882.370	4.5	4F(5D)4[4]	525.4400	-0.992	84685.198	3.5	4D (5D)4D	103711.570	3.5	4F(5D)2[4]
521.9699	-0.750	84527.778	4.5	4D (5D)6G	103680.640	4.5	4F(5D)2[4]	525.4929	-2.748	26055.423	2.5	D6S (3G)4G	45079.879	2.5	4P (5D)4F
521.9926	-0.459	84870.863	2.5	4D (5D)4D	104022.890	3.5	4F(5D)0[3]	525.5004	-2.798	84844.834	2.5	4D (5D)6G	103869.020	1.5	4F(5D)1[2]
522.0751	-1.598	84527.778	4.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	525.5698	-4.428	23317.633	2.5	D5S2(7S)6S	42334.822	2.5	4P (5D)6F
522.2361	-0.237	84844.834	2.5	4D (5D)6G	103987.930	2.5	4F(5D)1[3]	525.7122	-0.454	84685.198	3.5	4D (5D)4D	103701.720	4.5	4F(5D)2[5]
522.2473	-4.043	80177.975	1.5	5S (5D)4D	61035.287	0.5	4P (3P)4P	525.7894	-0.464	84326.912	2.5	4D (5D)6P	103340.640	3.5	4F(5D)3[4]
522.3260	-0.223	83812.316	2.5	4D (5D)6D	102952.120	2.5	4F(5D)4[3]	525.8029	-2.288	84685.198	3.5	4D (5D)4D	103698.440	2.5	4F(5D)2[3]
522.3800	-0.319	84266.556	3.5	4D (5D)6P	103406.250	2.5	4F(5D)3[2]	525.8036	-4.815	79885.493	2.5	5S (5D)4D	98898.710	3.5	4P (1G)2F
522.4236	-3.945	80177.975	1.5	5S (5D)4D	61041.748	2.5	4P (3H)4G	525.8121	-0.613	84424.370	1.5	4D (5D)6P	103437.280	0.5	4F(5D)3[1]
522.4411	-0.483	83990.063	1.5	4D (5D)6D	103125.650	0.5	4F(5D)4[1]	525.8122	-1.601	84844.834	2.5	4D (5D)6G	103857.740	2.5	4F(5D)1[2]
522.5968	-0.409	83812.316	2.5	4D (5D)6D	102942.200	3.5	4F(5D)4[3]	525.8423	-0.634	84870.863	2.5	4D (5D)4D	103882.680	3.5	4F(5D)1[4]
522.7013	-3.371	77230.900	4.5	D5S2(7S)2H	64356.960	3.5	48P(3F)4G	525.8749	-3.087	84863.351	5.5	4D (5D)4G	103873.990	4.5	4F(5D)1[4]
522.7073	-3.268	44915.046	3.5	D6S (1F)2F	64040.886	3.5	4P (3F)4G	525.8879	-2.868	73637.340	1.5	D5S2(7S)4F	92647.510	1.5	4P (3F)4F
522.7125	-2.603	54063.459	0.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P	525.9396	-2.622	77230.900	4.5	D5S2(7S)2H	96239.200	4.5	48P(3G)2H
522.7323	0.024	84844.834	2.5	4D (5D)6G	102851.360	4.5	4F(5D)4[5]	526.1448	-0.561	84710.685	3.5	4D (5D)6G	103711.570	3.5	4F(5D)2[4]
522.7481	0.948	84296.830	5.5	4D (5D)6G	103969.760	3.5	4F(5D)1[3]	526.2204	-1.933	84870.863	2.5	4D (5D)4D	103869.020	1.5	4F(5D)1[2]
522.7625	-2.416	54063.459	0.5	D6S (3P)2P	73187.280	0.5	4P (3D)2P	526.2237	-0.933	85046.630	1.5	4D (5D)4D	104046.350	2.5	4F(5D)0[3]
522.7759	-0.556	84296.830	5.5	4D (5D)6G	103420.160	5.5	4F(5D)3[6]	526.2479	-5.366	25787.598	1.5	D6S (3P)2P	44784.576	2.5	4P (5D)4D
522.8471	-2.130	83990.063	1.5	4D (5D)6D	103110.790	1.5	4F(5D)4[1]	526.2956	-1.156	84685.198	3.5	4D (5D)4D	103680.640	4.5	4F(5D)2[4]
522.8896	-0.111	84266.556	3.5	4D (5D)6P	103385.730	3.5	4F(5D)3[13]	526.3331	-0.989	84131.563	0.5	4D (5D)6D	103125.650	0.5	4F(5D)4[1]
522.9472	-1.527	84870.863	2.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]	526.3436	-1.429	84424.370	1.5	4D (5D)6P	103418.080	0.5	4F(5D)3[0]
523.1272	-2.686	73492.215	3.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	526.4026	-0.449	84685.198	3.5	4D (5D)6P	103417.910	1.5	4F(5D)3[1]
523.1907	-0.601	84938.180	1.5	4D (5D)6G	104046.350	2.5	4F(5D)0[3]	526.4697	-3.375	84710.685	3.5	4D (5D)6G	103701.720	4.5	4F(5D)2[5]
523.2787	0.064	83726.364	4.5	4D (5D)6D	102831.320	5.5	4F(5D)4[5]	526.4812	-3.488	84685.198	3.5	4D (5D)4D	103676.780	3.5	4F(5D)2[3]
523.4447	-1.773	84870.863	2.5	4D (5D)4D	103969.760	3.5	4F(5D)1[3]			26055.423	2.5	D6S (3G)4G	45044.168	1.5	4P (5D)4D

WL(NK)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
526.5087	-2.267	84710.685	3.5	4D (5D)6G	103698.740	2.5	4F(5D)2[3]	530.9881	-0.839	84870.863	2.5	4D (5D)4D	103698.440	2.5	4F(5D)2[3]
526.5330	-2.536	84870.863	3.5	4D (5D)4D	103857.740	2.5	4F(5D)1[2]	531.0635	-1.100	84527.778	4.5	4D (5D)6G	103352.680	4.5	4F(5D)3[5]
526.6716	-0.921	84424.370	1.5	4D (5D)6P	103406.250	2.5	4F(5D)3[2]	531.0930	-3.010	84844.834	2.5	4D (5D)6G	103668.690	1.5	4F(5D)2[1]
526.7453	-2.188	84131.563	0.5	4D (5D)6D	103110.790	1.5	4F(5D)4[1]	531.1900	-1.088	85048.602	1.5	4D (5D)4D	103869.020	1.5	4F(5D)1[2]
526.8409	-1.034	84685.198	3.5	4D (5D)4D	103660.980	2.5	4F(5D)2[2]	531.1908	-3.691	73395.930	2.5	D5S2(7S)4F	92216.320	1.5	4P (3P)2D
526.9755	-3.253	102842.119	4.5	5S (3G)4G	83871.184	4.5	4P (1F)2G	531.2597	-3.853	54273.641	4.5	D5S2(7S)4G	73091.590	4.5	4P (1G)2G
526.9922	-4.704	85048.602	1.5	4D (5D)4D	66078.269	2.5	4P (3G)4G	531.2784	-4.469	84863.351	5.5	4F(5D)4[4]	103680.640	4.5	4F(5D)2[4]
527.0027	-0.660	84710.685	3.5	4D (5D)6G	103680.640	4.5	4F(5D)2[4]	531.3106	-0.498	84844.834	2.5	4D (5D)6G	103660.980	2.5	4F(5D)2[2]
527.0870	-1.767	84424.370	1.5	4D (5D)6P	103391.920	1.5	4F(5D)3[2]	531.3114	-2.223	73637.340	1.5	D5S2(7S)4F	92453.460	0.5	4P (3F)4D
527.1100	-0.330	84710.685	3.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	531.4034	-0.772	84527.778	4.5	4D (5D)6G	103340.640	3.5	4F(5D)3[4]
527.2049	-4.856	73395.930	2.5	D5S2(7S)4F	92358.610	1.5	4F(5D)4[1]	531.5036	-0.347	85048.602	1.5	4D (5D)4D	103857.740	2.5	4F(5D)1[2]
527.2222	-0.877	83990.263	1.5	4D (5D)6D	102952.120	2.5	4F(5D)4[3]	531.5303	-4.901	103291.010	3.5	4D (3F)4G	86482.750	3.5	4P (1F)2F
527.2397	-2.034	48039.090	2.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D	531.5334	-4.901	103291.010	3.5	4D (3F)4G	86482.750	3.5	4P (1F)2F
527.5058	-1.646	79439.467	3.5	5S (5D)4D	98391.330	3.5	4F(5D)4D	531.5363	-1.905	85184.734	3.5	4D (5D)4G	63677.280	3.5	4P (3G)4F
527.5495	-1.197	84710.685	3.5	4D (5D)6G	103660.980	2.5	4F(5D)2[2]	531.5996	-2.092	84870.863	2.5	4D (5D)4D	103676.780	3.5	4F(5D)2[3]
527.5749	-4.529	81639.260	2.5	D5S2(7S)2F	62689.880	2.5	4P (3P)4D	531.6615	-2.090	25428.784	5.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F
527.6002	-2.230	25805.328	4.5	D6S (3G)4G	44753.799	3.5	4P (5D)4F	531.6784	-3.086	25981.629	3.5	D6S (3G)4G	44784.761	2.5	4P (5D)4D
527.8207	-1.988	85462.862	3.5	4D (5D)4G	66522.304	2.5	4P (3G)4F	531.7425	-4.705	78525.407	2.5	5S (5D)6D	97326.270	1.5	4SP(3P)2D
527.8231	-1.357	84424.370	1.5	4D (5D)6P	103364.840	2.5	4F(5D)3[3]	531.7560	-1.249	84844.834	2.5	4D (5D)6G	103645.220	1.5	4F(5D)2[2]
527.8493	-3.974	84870.863	2.5	4D (5D)4D	65931.334	3.5	4P (3G)4G	531.7686	-4.850	85048.602	1.5	4D (5D)4D	66248.660	0.5	4P (3P)2S
527.8549	-3.013	85048.602	1.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]	531.8057	-0.006	84527.778	4.5	4D (5D)6G	103326.410	4.5	4F(5D)3[4]
527.8938	-2.953	47674.721	1.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F	531.8187	-1.142	81734.750	3.5	D5S2(7S)2F	62945.038	3.5	4P (3F)4D
527.9822	-3.608	73492.215	3.5	D5S2(7S)4F	92426.980	4.5	4F(5D)4F	531.8284	-1.863	84870.863	2.5	4D (5D)4D	103326.410	4.5	4F(5D)3[4]
528.0046	-2.644	73395.930	2.5	D5S2(7S)4F	92329.890	2.5	4F(5D)4F	531.9175	-4.953	85172.809	0.5	4D (5D)4D	103668.690	1.5	4F(5D)2[1]
528.0916	-1.392	84938.180	1.5	4D (5D)6G	103869.020	1.5	4F(5D)1[2]	531.9911	-3.478	79885.493	2.5	5S (5D)4D	61093.413	2.5	4P (3P)2D
528.1510	-3.997	79885.493	2.5	5S (5D)4D	60956.781	3.5	4P (3H)4D	532.0430	-2.886	73492.215	3.5	D5S2(7S)4F	92282.460	3.5	4SP(5G)4F
528.4065	-1.257	84938.180	1.5	4D (5D)6G	103857.740	2.5	4F(5D)1[2]	532.0467	-2.617	84870.863	2.5	4D (5D)4D	103660.980	2.5	4F(5D)2[2]
528.4109	-3.503	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	532.0581	-3.814	81734.750	3.5	D5S2(7S)2F	62945.038	3.5	4P (3F)4D
528.5285	-3.146	79439.467	3.5	5S (5D)4D	98354.660	2.5	4F(5D)4F	532.1908	-3.080	81584.734	4.5	4D (5D)4D	103969.760	3.5	4F(5D)1[3]
528.8639	-2.139	84131.563	0.5	4D (5D)6D	103034.760	1.5	4F(5D)4[2]	532.2234	-0.164	84326.912	2.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]
528.9615	-4.836	105288.530	1.5	5D (5D)6G	86388.820	0.5	4P (3P)4D	532.2793	-2.954	73492.215	3.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4D
529.1666	-0.638	84527.778	4.5	4D (5D)6G	103420.160	5.5	4F(5D)3[6]	532.3908	-2.708	73393.745	4.5	D5S2(7S)4F	92171.716	4.5	4P (3F)2G
529.2459	-3.562	50212.826	2.5	D6S (3P)4F	69102.380	2.5	4F(5S)4F	532.4933	-2.587	84870.863	2.5	4D (5D)4D	103645.220	1.5	4F(5D)2[2]
529.3191	-2.006	88189.030	0.5	4D (5D)4P	69302.090	1.5	4F(5S)4P	532.5359	-4.421	73393.745	4.5	D5S2(7S)4F	92166.600	5.5	4SP(5G)4H
529.3306	-3.269	73395.930	2.5	D5S2(7S)4F	92282.460	3.5	4F(5D)4F	532.5553	-3.426	25981.629	3.5	D5S2(7S)4G	44753.799	3.5	4P (1G)2F
529.3834	-2.498	79885.493	2.5	5S (5D)4D	98770.140	1.5	4F(5D)4D	532.5698	-3.878	54283.220	3.5	D6S (3G)4G	73054.881	2.5	4P (1G)2F
529.4226	-1.626	87985.628	2.5	4D (5D)4P	69102.380	2.5	4F(5S)4P	532.8426	-2.642	88189.030	0.5	4D (5D)4F	69426.980	0.5	4SP(5S)4P
529.5644	-2.546	73395.930	2.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4P	532.8472	-4.774	108804.667	3.5	5S (3D)4D	90042.779	4.5	4P (3F)4G
529.8042	-4.050	54273.641	4.5	D5S2(7S)4G	73143.288	3.5	4P (1G)2G	532.8696	-3.657	81639.260	2.5	D5S2(7S)2F	100400.360	2.5	4SP(3P)2D
529.8860	-0.151	84844.834	2.5	4D (5D)6G	103711.570	3.5	4F(5D)2[4]	532.8934	-0.666	84938.180	1.5	4D (5D)6G	103698.440	2.5	4F(5D)2[3]
529.8872	-4.295	105414.180	2.5	4D (3F)4G	86547.490	2.5	4P (1F)2F	532.9520	-2.212	84266.556	3.5	4D (5D)6P	103024.290	2.5	4F(5D)4[2]
530.0922	-2.622	54232.195	5.5	D5S2(7S)4G	73091.590	4.5	4P (1G)2G	533.5253	-2.212	84938.180	1.5	4D (5D)6G	103676.220	0.5	4F(5D)2[1]
530.1328	-4.897	84527.778	4.5	4D (5D)6G	103385.730	3.5	4F(5D)3[3]	533.7398	-1.253	84938.180	1.5	4D (5D)6G	103668.690	1.5	4F(5D)2[1]
530.2150	-2.379	88157.116	1.5	4D (5D)4P	69302.090	1.5	4F(5D)2[5]	533.7505	-1.884	88157.116	1.5	4D (5D)4P	69426.980	0.5	4SP(5S)4P
530.2550	-0.865	84844.834	2.5	4D (5D)6G	103698.440	2.5	4F(5D)2[3]	533.7732	-4.085	26055.423	2.5	D6S (3G)4G	44784.761	2.5	4P (5D)4D
530.3395	-2.018	84863.351	5.5	4D (5D)4D	66012.750	4.5	4P (3G)4F	533.8031	-4.865	85728.806	1.5	4D (5D)4S	67000.517	2.5	4P (3F)2D
530.4244	-3.840	47674.721	1.5	D7 (5D)2D	66522.304	2.5	4P (3G)4F	533.9529	-3.550	73393.745	4.5	D5S2(7S)4F	92116.780	4.5	4SP(5G)4H
530.4392	-4.503	54904.222	3.5	D6S (3F)2F	73751.282	4.5	4P (11)2H	533.9585	-0.539	84296.830	5.5	4D (5D)6G	103019.670	6.5	4F(5D)4[7]
530.4912	-4.017	80177.975	1.5	5S (5D)4D	103711.570	3.5	4F(5D)2[4]	533.9585	-0.539	84296.830	5.5	4D (5D)6G	103019.670	6.5	4F(5D)4[7]
530.6180	-0.138	84870.863	2.5	4D (5D)4D	103711.570	3.5	4F(5D)2[4]	534.0033	-2.451	73637.340	1.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F
530.6839	-4.297	84863.351	5.5	4D (5D)4D	103701.720	4.5	4F(5D)2[5]	534.0095	-2.248	84685.198	3.5	4D (5D)4D	103406.250	2.5	4F(5D)3[2]
530.6899	-3.136	85184.734	4.5	4D (5D)4G	104022.890	3.5	4F(5D)0[3]	534.0857	-4.075	57411.065	2.5	D5S2(7S)4P	76129.446	1.5	4P (1S)2P
530.7034	-3.265	73492.215	3.5	D5S2(7S)4F	92329.890	2.5	4F(5D)2[3]	534.2170	-4.175	102584.963	5.5	5S (3G)4G	83871.184	4.5	4P (1F)2G
530.8649	-2.122	84844.834	2.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	534.2882	-1.282	84326.912	2.5	4D (5D)6F	103034.760	1.5	4F(5D)4[2]
530.8870	-4.552	77230.900	4.5	D5S2(7S)2H	96062.060	5.5	4F(5D)2[4]	534.4095	-0.663	84938.180	1.5	4D (5D)6G	103645.220	1.5	4F(5D)2[2]
530.9275	-2.628	80177.975	1.5	5S (5D)4D	99007.700	0.5	4F(5D)4D	534.5741	-1.125	84424.370	1.5	4D (5D)6P	103125.650	0.5	4F(5D)4[1]
530.9308	-3.381	73395.930	2.5	D5S2(7S)4F	92225.538	1.5	5P (5D)4D	534.5955	-0.997	84685.198	3.5	4D (5D)4P	103385.730	3.5	4F(5D)3[3]
530.9846	-1.384	84863.351	5.5	4D (5D)4G	103691.050	5.5	4F(5D)2[5]	534.6571</							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
534.6694	-3.429	85184.734	4.5	4D (5D)4G	103882.680	3.5	4F(5D)1[4]	538.2641	-2.680	84844.834	2.5	4D (5D)6G	103417.910	1.5	4F(5D)3[1]
534.6697	-4.988	84710.685	3.5	4D (5D)6G	66012.750	4.5	4P (3G)4F	538.3383	-4.166	84266.556	3.5	4D (5D)6P	6596.038	4.5	4P (3G)4G
534.6856	-0.241	84326.912	2.5	4D (5D)6P	103024.290	2.5	4F(5D)4[2]	538.6022	-1.315	84844.834	2.5	4D (5D)6G	103406.250	2.5	4F(5D)3[2]
534.7190	-0.181	85172.809	0.5	4D (5D)4D	103869.920	1.5	4F(5D)1[2]	538.6373	-2.360	84326.912	2.5	4D (5D)6P	102887.120	3.5	4F(5D)4[4]
534.7375	-3.354	84710.685	3.5	4D (5D)6G	103406.250	2.5	4F(5D)3[2]	538.6389	-3.209	85172.809	0.5	4D (5D)4D	66612.656	1.5	4P (3G)4F
534.7759	-4.004	81639.260	2.5	D582(7S)2F	62945.038	3.5	4P (3G)4F	538.6425	-2.138	85462.862	3.5	4D (5D)4G	104022.890	3.5	4F(5D)0[3]
534.8237	-3.264	73637.340	1.5	D582(7S)4F	92329.890	2.5	48P(5F)4F	538.7063	0.521	84863.351	5.5	4D (5D)4G	103420.160	5.5	4F(5D)3[6]
534.9180	-1.142	85184.734	4.5	4D (5D)4G	103873.990	4.5	4F(5D)1[4]	538.7360	-2.628	84863.351	5.5	4D (5D)4G	102851.360	4.5	4F(5D)4[5]
534.9992	-3.245	84424.370	1.5	4D (5D)6P	103110.790	1.5	4F(5D)4[1]	538.8021	-0.658	84296.830	2.5	5S (5D)4D	61332.764	1.5	4P (3P)4F
535.0237	-2.120	84266.556	3.5	4D (5D)6P	102952.120	2.5	4F(5D)4[3]	538.8544	-3.717	79885.493	2.5	5S (5D)4D	104046.350	2.5	4F(5D)0[3]
535.0817	-1.887	87985.628	2.5	4D (5D)4P	69302.090	1.5	48P(5S)4P	538.9033	-1.104	85495.304	2.5	4D (5D)6S	102851.360	4.5	4F(5D)4[5]
535.1933	-0.570	84685.198	3.5	4D (5D)4D	103364.840	2.5	4F(5D)3[3]	539.0195	-1.227	84870.863	2.5	4D (5D)4D	103417.910	1.5	4F(5D)3[1]
535.1974	-3.605	73492.215	3.5	D582(7S)4F	92171.716	4.5	4P (3F)2D	539.0367	-1.180	84844.834	2.5	4D (5D)4D	103391.290	1.5	4F(5D)3[2]
535.2065	-3.859	85679.698	2.5	4D (5D)4G	67000.517	2.5	4P (3F)2D	539.1249	-0.866	84296.830	2.5	4D (5D)6G	102840.250	6.5	4F(5D)4[6]
535.2570	-4.145	73637.340	1.5	D582(7S)4F	92314.758	0.5	5P (5D)4P	539.1983	-1.054	84844.834	2.5	4D (5D)6G	103385.730	3.5	4F(5D)3[3]
535.2674	-3.354	81639.260	2.5	D582(7S)2F	62962.205	1.5	4P (3P)4D	539.3536	-4.607	74929.550	2.5	D6S (1F)2F	63465.109	1.5	4P (3F)4D
535.3079	-0.379	84266.556	3.5	4D (5D)6P	102942.200	3.5	4F(5D)4[3]	539.3586	-0.830	84870.863	2.5	4D (5D)4D	103406.250	2.5	4F(5D)3[2]
535.3251	-1.206	84710.685	3.5	4D (5D)6G	103385.730	3.5	4F(5D)3[3]	539.3847	-0.200	84296.830	2.5	4D (5D)6G	102831.320	5.5	4F(5D)4[5]
535.3995	-3.004	84685.198	3.5	4D (5D)4D	66012.750	4.5	4P (3G)4F	539.5809	-1.964	84424.370	1.5	4D (5D)6P	102952.120	2.5	4F(5D)4[3]
535.5419	-0.441	84685.198	3.5	4D (5D)4D	103352.680	4.5	4F(5D)3[5]	539.5857	0.400	85495.304	2.5	4D (5D)6S	104022.890	3.5	4F(5D)0[3]
535.5957	-0.441	81734.750	3.5	D582(7S)2F	100400.360	2.5	48P(3P)2D	539.6075	-3.110	85184.734	4.5	4D (5D)4G	103711.570	3.5	4F(5D)2[4]
535.7045	-4.678	105205.790	2.5	5D (5D)6G	86543.974	1.5	4P (3P)4D	539.6232	-2.993	85048.602	1.5	4D (5D)4D	66522.304	2.5	4P (3G)4F
535.7083	-2.522	80346.016	0.5	5S (5D)4D	99007.700	0.5	48P(5D)4D	539.6590	-2.626	85462.862	3.5	4D (5D)4G	103987.930	2.5	4F(5D)1[3]
535.8876	-0.033	84685.198	3.5	4D (5D)4D	103340.640	3.5	4F(5D)3[4]	539.7943	-0.689	84870.863	2.5	4D (5D)4D	103391.290	1.5	4F(5D)3[2]
535.9246	-0.937	84710.685	3.5	4D (5D)6G	103364.840	2.5	4F(5D)3[3]	539.8065	-0.711	84844.834	2.5	4D (5D)6G	103364.840	2.5	4F(5D)3[3]
536.0337	-1.996	79885.493	2.5	5S (5D)4D	98535.850	3.5	48P(5D)4F	539.8946	-1.184	85184.734	4.5	4D (5D)4G	103701.720	4.5	4F(5D)2[5]
536.0486	-0.576	85048.602	1.5	4D (5D)4D	103698.440	2.5	4F(5D)2[3]	539.9517	-4.635	84527.778	4.5	4D (5D)6G	66012.750	4.5	4P (3G)4F
536.2741	-0.584	84710.685	3.5	4D (5D)6G	86767.477	2.5	4P (3P)4D	539.9564	-0.452	84870.863	2.5	4D (5D)4D	103385.730	3.5	4F(5D)3[3]
536.2869	-2.918	25805.328	4.5	D6S (3G)4G	44446.878	3.5	4F(5D)3[5]	540.1889	-0.814	85462.862	3.5	4D (5D)4G	103969.760	3.5	4F(5D)1[3]
536.2967	-0.155	84685.198	3.5	4D (5D)6G	103352.680	4.5	4F(5D)3[5]	540.2059	-0.536	79885.493	2.5	5S (5D)4D	98391.330	3.5	48P(5D)4D
536.4242	-3.433	73637.340	1.5	D582(7S)4F	44446.878	3.5	4P (3G)4G	540.2199	-2.600	108804.667	3.5	5S (3D)4D	90300.625	3.5	5P (5D)6F
536.5498	-4.857	84710.685	3.5	4D (5D)6G	92274.120	2.5	4P (3P)4P	540.2723	-4.106	108804.667	3.5	5S (3D)4D	90300.625	3.5	5P (5D)6F
536.5550	-3.792	79439.467	3.5	5S (5D)4D	66078.269	2.5	4P (3G)4G	540.2907	-0.564	85172.809	0.5	4D (5D)4D	103676.220	0.5	4F(5D)2[1]
536.6207	-0.363	84710.685	3.5	4D (5D)6G	60807.230	4.5	4P (3H)4G	540.4166	-2.496	84938.180	1.5	4D (5D)6G	103437.280	0.5	4F(5D)3[1]
536.6880	-1.130	85048.602	1.5	4D (5D)4D	103676.220	0.5	4F(5D)2[1]	540.4326	-4.140	20516.960	2.5	D7 (5D)2D	39013.206	1.5	4P (5D)6D
536.7575	-2.516	84326.912	2.5	4D (5D)6P	102952.120	2.5	4F(5D)4[3]	540.5099	-0.711	85184.734	4.5	4D (5D)4G	103680.640	4.5	4F(5D)2[4]
536.8914	-1.126	84266.556	3.5	4D (5D)6P	102887.120	3.5	4F(5D)4[4]	540.5106	-0.303	84844.834	2.5	4D (5D)6G	103668.690	1.5	4F(5D)2[1]
536.9051	-2.481	85048.602	1.5	4D (5D)4D	103668.690	1.5	4F(5D)2[1]	540.5128	-1.715	84844.834	2.5	4D (5D)6G	103668.690	1.5	4F(5D)2[1]
536.9190	-1.914	79885.493	2.5	5S (5D)4D	98505.100	2.5	48P(5D)4D	540.5663	-0.459	84870.863	2.5	4D (5D)4D	103364.840	2.5	4F(5D)3[3]
537.0284	-0.173	84266.556	3.5	4D (5D)6P	102882.370	4.5	4F(5D)4[4]	540.5779	-2.851	84870.863	2.5	4D (5D)4D	66377.283	3.5	4P (3G)4F
537.0309	-0.997	84710.685	3.5	4D (5D)6G	103326.410	4.5	4F(5D)3[4]	540.6058	-2.147	85495.304	2.5	4D (5D)6S	103987.930	2.5	4F(5D)1[3]
537.0435	-0.515	84326.912	2.5	4D (5D)6P	102942.200	3.5	4F(5D)4[3]	540.6227	-1.934	85184.734	4.5	4D (5D)4G	103676.780	3.5	4F(5D)2[3]
537.1275	-0.533	85048.602	1.5	4D (5D)6P	103034.760	1.5	4F(5D)2[2]	540.7022	-2.289	84863.351	5.5	4D (5D)4G	103352.680	4.5	4F(5D)3[5]
537.1849	-1.368	84424.370	1.5	4D (5D)4P	103660.980	2.5	4F(5D)4[2]	540.8811	-2.973	79439.467	3.5	5D (5D)2D	66522.304	2.5	4P (3G)4F
537.2549	-3.850	86124.301	4.5	4D (5D)4F	67516.332	5.5	4P (3G)2H	540.9085	-4.988	78843.992	0.5	5S (5D)4D	97326.270	1.5	48P(3P)2P
537.4621	-3.562	84296.830	5.5	4D (5D)6G	65696.038	4.5	4P (3G)4G	540.9781	-2.170	84938.180	1.5	4D (5D)6G	103418.080	0.5	4F(5D)3[10]
537.4873	-2.299	84424.370	1.5	4D (5D)6P	103024.290	2.5	4F(5D)4[2]	540.9831	-1.628	84938.180	1.5	4D (5D)6G	103417.910	1.5	4F(5D)3[1]
537.5827	-0.608	85048.602	1.5	4D (5D)4D	103645.220	1.5	4F(5D)2[2]	541.1375	-0.116	85495.304	2.5	4D (5D)6S	103969.760	3.5	4F(5D)1[3]
537.5847	-0.309	84296.830	5.5	4D (5D)6G	102893.380	5.5	4F(5D)4[6]	541.1974	-0.627	85172.809	0.5	4D (5D)4D	103645.220	1.5	4F(5D)2[2]
537.5877	-4.137	84527.778	4.5	4D (5D)6G	65931.334	3.5	4P (3G)4G	541.2746	-0.714	84870.863	2.5	4D (5D)4D	103340.640	3.5	4F(5D)3[4]
537.7115	-2.227	80177.975	1.5	5S (5D)4D	98770.140	1.5	48P(5D)4D	541.2925	-2.568	79885.493	2.5	5S (5D)4D	98354.660	2.5	48P(5D)4F
537.8262	-3.639	73637.340	1.5	D582(7S)4F	92225.538	1.5	5P (5D)4P	541.3246	-1.896	84938.180	1.5	4D (5D)6G	103406.250	2.5	4F(5D)3[2]
537.9031	-2.361	84296.830	5.5	4D (5D)6G	102882.370	4.5	4F(5D)4[4]	541.4073	-3.958	25981.629	3.5	D6S (3G)4G	44446.878	3.5	4P (5D)4D
537.9244	-1.118	84266.556	3.5	4D (5D)6P	102851.360	4.5	4F(5D)4[5]	541.4715	-1.400	84863.351	5.5	4D (5D)4G	103326.410	4.5	4F(5D)3[4]
538.0931	-3.005	73637.340	1.5	D582(7S)4F	92216.320	1.5	4P (3P)2D	541.4850	-0.300	84863.351	5.5	4D (5D)4G	103326.410	4.5	4F(5D)3[4]
538.2931	-3.415	47674.721	1.5	D7 (5D)2D	66248.660	0.5	4P (3P)2S	541.4925	-2.885	85462.862	3.5	4D (5D)4G	103352.680	4.5	4F(5D)3[5]
538.2499	-3.771	48039.090	2.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F	541.5288	-3.757	54063.459	0.5	D6S (3P)2P	72524.566	1.5	4P (3D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
541.7735	-1.342	84938.180	1.5	4D (5D)6G	103391.290	1.5	4F(5D)3[2]	546.6908	-2.041	54902.315	1.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P
541.7730	-3.526	79885.493	2.5	5S (5D)4D	98338.280	1.5	4S(5P)4S	546.7455	-2.803	54902.315	1.5	D6S (3P)2P	73187.280	0.5	4P (3D)2P
542.2679	-3.880	85048.602	1.5	4D (5D)4D	66612.656	1.5	4P (3C)4F	546.7719	-3.485	84296.830	5.5	4D (5D)6G	66012.750	4.5	4P (3G)4F
542.5257	-3.600	25805.328	4.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F	546.8152	-4.268	79439.467	3.5	5S (5D)4D	61156.835	3.5	4P (3H)4H
542.5411	-3.821	84938.180	1.5	4D (5D)6G	103364.840	2.5	4F(5D)3[3]	547.0825	-5.447	26932.748	0.5	D6S (3P)2F	45206.450	3.5	4P (3H)4D
542.6158	-2.472	80346.016	0.5	5S (5D)4D	98770.140	1.5	4S(5D)4F	547.1107	-4.437	54870.528	2.5	D6S (3F)2F	73143.288	3.5	4P (1G)2G
542.7427	-1.763	85462.862	3.5	4D (5D)4G	103882.680	3.5	4F(5D)1[4]	547.2855	-0.614	84685.198	3.5	4D (5D)4D	102952.120	2.5	4F(5D)4[1]
542.7826	-1.804	54232.195	5.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	547.3145	-2.869	84844.834	2.5	4D (5D)4D	103437.280	0.5	4F(5D)3[1]
542.7921	-4.751	108804.667	3.5	5S (3D)4F	90386.528	4.5	5P (3D)4F	547.3590	-0.719	85172.809	0.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]
542.8686	-4.621	86416.333	3.5	4D (5D)4F	68000.788	4.5	4P (3C)2H	547.5193	-0.979	85728.806	1.5	4D (5D)4S	103987.930	2.5	4F(5D)1[3]
542.9017	-2.342	84527.778	4.5	4D (5D)6G	102942.200	3.5	4F(5D)4[3]	547.5468	-0.777	84680.183	2.5	4D (5D)4D	66612.656	1.5	4P (3G)4F
542.9988	-0.524	85462.862	3.5	4D (5D)4G	103873.990	4.5	4F(5D)1[4]	547.5829	-0.115	84870.528	3.5	4D (5D)4D	102942.200	3.5	4F(5D)4[3]
543.1265	-3.292	108804.667	3.5	5S (3D)4D	90397.868	3.5	5P (5D)4D	547.6788	-3.983	84266.556	3.5	4D (5D)6P	66012.750	4.5	4P (3G)4F
543.1539	-2.828	85679.698	2.5	4D (5D)4G	67273.826	1.5	4P (3P)2D	547.7665	-5.684	25981.623	1.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F
543.2967	-3.928	26352.766	4.5	D6S (3H)2H	44753.799	3.5	4P (5D)4F	547.7896	-4.758	60441.039	1.5	D5S2(7S)4G	78690.846	2.5	4P (1D)2D
543.5277	-5.633	26055.423	2.5	D6S (3G)4G	44446.878	3.5	4P (5D)4D	547.8318	-0.849	85462.862	3.5	4D (5D)4G	103711.570	3.5	4F(5D)2[14]
543.6618	-0.930	85048.602	1.5	4D (5D)4D	103437.280	0.5	4F(5D)3[1]	547.8551	-4.033	54275.637	2.5	D5S2(7S)4G	72524.566	1.5	4P (3D)4D
543.7003	-1.884	85495.304	2.5	4D (5D)6S	103882.680	3.5	4F(5D)1[4]	547.9260	-4.497	60445.275	2.5	D5S2(7S)4G	78690.846	2.5	4P (1D)2D
543.9707	-2.406	54273.641	4.5	D5S2(7S)4G	72651.876	3.5	4P (3D)4D	547.9350	-2.257	85172.809	0.5	4D (5D)4D	103418.080	0.5	4F(5D)3[10]
544.0068	-2.950	54273.641	4.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	547.9401	-0.269	85172.809	0.5	4D (5D)4D	103417.910	1.5	4F(5D)3[11]
544.1045	-1.443	85495.304	2.5	4D (5D)6S	103869.020	1.5	4F(5D)1[2]	548.0955	-0.634	84870.863	2.5	4D (5D)4D	102952.120	2.5	4F(5D)4[13]
544.1825	-4.935	80346.016	0.5	5S (5D)4D	61974.933	1.5	4S(5D)3[0]	548.0955	-0.634	84870.863	2.5	4D (5D)4D	102952.120	2.5	4F(5D)4[13]
544.2300	-1.075	85048.602	1.5	4D (5D)4D	103417.910	1.5	4F(5D)3[11]	548.1124	-4.948	54904.222	3.5	D6S (3F)2F	73143.288	3.5	4P (1G)2G
544.2351	-0.238	85048.602	1.5	4D (5D)4D	72651.876	3.5	4P (3D)4D	548.1276	-0.225	85462.862	3.5	4D (5D)4G	103701.770	4.5	4F(5D)2[15]
544.2544	-3.422	54283.220	3.5	D5S2(7S)4G	104046.350	2.5	4F(5D)0[3]	548.2262	-2.490	85462.862	3.5	4D (5D)4G	103698.440	2.5	4F(5D)2[3]
544.2905	-4.629	54283.220	3.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	548.2308	-0.548	85184.734	4.5	4D (5D)4G	103420.160	5.5	4F(5D)3[16]
544.3138	-2.201	85679.698	2.5	4D (5D)4G	104046.350	2.5	4F(5D)0[3]	548.3285	-4.269	84844.834	2.5	4D (5D)6G	66612.656	1.5	4P (3G)4F
544.3247	-4.198	81639.260	2.5	D5S2(7S)2F	63272.976	2.5	4P (3F)4D	548.3484	-1.802	84710.685	3.5	4D (5D)6G	102942.200	3.5	4F(5D)4[3]
544.3256	-3.133	54063.459	0.5	D6S (3P)2P	72429.711	0.5	4P (3D)4D	548.3682	-3.865	80346.016	0.5	5S (5D)4D	62125.600	1.5	4F(3P)2D
544.3359	-0.574	84527.778	4.5	4D (5D)6G	102893.380	5.5	4F(5D)4[6]	548.7407	-1.066	85172.809	0.5	4D (5D)4D	103391.290	1.5	4F(5D)3[2]
544.4387	-0.106	85495.304	2.5	4D (5D)6S	103857.740	2.5	4F(5D)1[2]	548.7619	0.340	85462.862	3.5	4D (5D)4G	103680.640	4.5	4F(5D)2[14]
544.4706	-4.143	105291.010	3.5	4D (3F)4D	86929.649	3.5	4P (3P)4D	548.8074	-0.775	85495.304	2.5	4D (5D)6S	103711.570	3.5	4F(5D)2[14]
544.5305	-0.932	84527.778	4.5	4D (5D)6G	102887.120	3.5	4F(5D)4[4]	548.8782	-0.415	85462.862	3.5	4D (5D)4G	103676.780	3.5	4F(5D)2[13]
544.5724	-4.362	44915.046	3.5	D6S (1F)2F	63272.976	2.5	4P (3F)4D	549.2033	-0.758	85495.304	2.5	4D (5D)6G	103698.440	2.5	4F(5D)2[13]
544.5807	-0.022	85048.602	1.5	4D (5D)4D	103406.250	2.5	4P (5D)3[2]	549.2061	-4.752	80177.975	1.5	5S (5D)4D	61974.933	1.5	4S(7S)6P
544.5984	-6.518	26932.748	0.5	D6S (3P)2P	45289.801	1.5	4F(5D)4F	549.2061	-4.752	80177.975	1.5	5S (5D)4D	61974.933	1.5	4S(7S)6P
544.6357	-4.556	77861.625	4.5	4D (5D)4D	96217.420	3.5	4S(5P)4D	549.2399	-0.031	84685.198	3.5	4D (5D)4G	102887.120	3.5	4F(5D)4[4]
544.6714	-1.633	84527.778	4.5	4D (5D)6G	102882.370	4.5	4F(5D)4[4]	549.2579	-1.189	85184.734	4.5	4D (5D)4G	103660.980	2.5	4F(5D)2[12]
544.8505	-4.277	84870.863	2.5	4D (5D)4D	66522.304	2.5	4P (3G)4F	549.3547	-1.396	85462.862	3.5	4D (5D)4G	102882.370	4.5	4F(5D)4[4]
544.9249	-3.995	79439.467	3.5	5S (5D)4D	61093.413	2.5	4P (3P)2D	549.3833	0.285	84685.198	3.5	4D (5D)4G	103034.760	1.5	4F(5D)4[2]
544.9903	-4.292	54275.637	2.5	D5S2(7S)4G	72619.490	2.5	4P (3D)4D	549.6022	-1.874	84844.834	2.5	4D (5D)6G	102882.370	4.5	4F(5D)4[2]
545.0030	-4.027	44929.550	2.5	D6S (1F)2F	63272.976	2.5	4P (3F)4D	549.6204	-2.264	85679.698	2.5	4D (5D)4G	103869.020	1.5	4F(5D)1[2]
545.0099	-0.168	85679.698	2.5	4D (5D)4D	104022.890	3.5	4F(5D)0[3]	549.6488	-3.785	84710.685	3.5	4D (5D)6G	66522.304	2.5	4P (3G)4F
545.0249	-2.384	85048.602	1.5	4D (5D)4D	103391.290	1.5	4F(5D)3[2]	549.6764	-3.025	84938.180	1.5	4D (5D)6G	103125.650	0.5	4F(5D)4[1]
545.0454	-7.424	20516.960	2.5	D7 (5D)2D	103391.290	1.5	4F(5D)3[2]	549.7706	-3.325	54870.528	2.5	D6S (3F)2F	73054.881	2.5	4P (1G)2F
545.1318	-0.773	84685.198	3.5	4D (5D)4D	103024.290	2.5	4F(5D)4[2]	549.8229	-6.431	20830.582	2.5	D6S (3P)4F	39013.206	1.5	4P (5D)6D
545.2157	-3.322	54283.220	3.5	D5S2(7S)4G	72619.490	2.5	4P (3D)4D	549.8576	-0.328	85495.304	2.5	4D (5D)6S	103676.780	3.5	4F(5D)2[13]
545.3010	-4.710	84710.685	3.5	4D (5D)6G	66377.283	3.5	4P (3G)4F	549.9615	-1.086	85679.698	2.5	4D (5D)4G	103024.290	2.5	4F(5D)4[2]
545.4877	-4.464	80177.975	1.5	5S (5D)4D	98505.100	2.5	4S(5D)4D	549.9818	-2.307	84844.834	2.5	4D (5D)6G	103857.740	2.5	4F(5D)1[2]
545.5932	-0.487	84527.778	4.5	4D (5D)6G	102851.360	4.5	4F(5D)4[5]	550.0025	-1.928	80177.975	1.5	5S (5D)4D	98354.660	2.5	4S(5D)4F
545.7730	-0.066	85728.806	1.5	4D (5D)4S	104046.350	2.5	4F(5D)0[3]	550.0101	-0.857	84710.685	3.5	4D (5D)6G	102887.120	3.5	4F(5D)4[4]
545.8120	-2.119	85048.602	1.5	4D (5D)4D	103364.840	2.5	4F(5D)3[3]	550.0814	-3.467	103711.570	3.5	4F(5D)2[11]	78690.846	2.5	4S(5D)6F
545.8904	-3.128	84710.685	3.5	4D (5D)6G	103024.290	2.5	4F(5D)4[2]	550.1024	-0.830	85495.304	2.5	4D (5D)6S	103668.690	1.5	4F(5D)2[11]
545.8928	-4.264	79885.493	2.5	5S (5D)4D	98196.000	1.5	4S(5D)4F	550.1259	-3.104	84938.180	1.5	4D (5D)6G	103110.790	1.5	4F(5D)4[1]
546.0506	-1.232	85679.698	2.5	4D (5D)4G	103987.930	2.5	4F(5D)1[3]	550.1464	-4.393	78165.030	3.5	D5S2(7S)2G	96356.960	3.5	4S(3G)2F
546.1906	-1.713	84527.778	4.5	4D (5D)6G	102831.320	5.5	4P(5D)4[5]	550.1539	-1.222	84710.685	3.5	4D (5D)6G	102882.370	4.5	4F(5D)4[4]
546.3544	-4.840	105065.630	3.5	5D (5D)6G	86767.577	2.5	4P (3P)4D	550.2309	-3.139	81639.260	2.5	D5S2(7S)2F	99808.400	3.5	4P (1G)2G
546.5991	0.581	85679.698	2.5	4D (5D)4G	103969.760	3.5	4F(5D)1[3]								

WL(NM)	LOGGF	EVEN	E	J	LABEL	WL(NM)	LOGGF	EVEN	E	J	LABEL	WL(NM)	LOGGF	EVEN	E	J	LABEL	WL(NM)	LOGGF	EVEN	E	J	LABEL						
550.3211	-0.047	84685.198	3.5	4D	(5D)4D	102851.360	-2.994	105630.750	2.5	5D	(5D)4G	87602.250	1.5	4SP	(5G)6F	554.5233	-2.994	105630.750	2.5	5D	(5D)4G	87602.250	1.5	4SP	(5G)6F				
550.3307	-3.905	108804.667	3.5	5S	(3D)4D	90638.822	-5.714	20830.582	2.5	D6S	(3P)4F	38858.958	2.5	4P	(3F)4D	554.5271	-5.714	20830.582	2.5	D6S	(3P)4F	38858.958	2.5	4P	(3F)4D				
550.3358	-0.484	85495.304	2.5	4D	(5D)6S	85495.304	-0.484	80177.975	1.5	5S	(3D)4D	62151.561	2.5	4P	(3F)4F	554.5875	-4.101	80177.975	1.5	5S	(3D)4D	62151.561	2.5	4P	(3F)4F				
550.3897	-0.425	84870.863	2.5	4D	(5D)4D	103034.760	1.5	4F	(5D)2[2]	103034.760	1.5	4F	(5D)2[2]	554.6603	3.605	108804.667	3.5	5S	(3D)4D	90780.621	2.5	5P	(5D)4F	90780.621	2.5	5P	(5D)4F		
550.4201	-4.795	84685.198	3.5	4D	(5D)4D	66522.304	-2.794	81734.750	3.5	D5S2	(7S)2F	99757.120	4.5	4P	(1G)2G	554.7119	-2.794	81734.750	3.5	D5S2	(7S)2F	99757.120	4.5	4P	(1G)2G				
550.4986	-3.349	80177.975	1.5	5S	(5D)4D	98338.280	-0.828	84863.351	5.5	4D	(5D)4G	102888.370	2.5	4F	(5D)4[4]	554.8457	-0.828	84863.351	5.5	4D	(5D)4G	102888.370	2.5	4F	(5D)4[4]				
550.5256	-3.050	79885.493	2.5	5S	(5D)4D	61726.077	-0.402	85679.698	2.5	4D	(5D)4D	103698.440	2.5	4F	(5D)2[3]	554.8236	-0.402	85679.698	2.5	4D	(5D)4D	103698.440	2.5	4F	(5D)2[3]				
550.6195	-0.950	84863.351	5.5	4D	(5D)4G	103019.670	6.5	4F	(5D)4[7]	103019.670	6.5	4F	(5D)4[7]	554.9001	-0.083	84870.863	2.5	4D	(5D)4D	102887.120	3.5	4F	(5D)4[4]	102887.120	3.5	4F	(5D)4[4]		
550.6320	-1.640	85184.734	4.5	4D	(5D)4G	103340.640	3.5	4F	(5D)3[4]	103340.640	3.5	4F	(5D)3[4]	554.9238	-4.370	84929.550	2.5	4D	(5D)4D	103698.440	2.5	4F	(5D)2[3]	103698.440	2.5	4F	(5D)2[3]		
550.6437	-4.809	60270.339	3.5	D5S2	(7S)4D	42114.818	4.5	4P	(3D)6F	42114.818	4.5	4P	(3D)6F	554.9715	-4.096	84938.180	1.5	4D	(5D)6G	102952.120	2.5	4F	(5D)4[3]	102952.120	2.5	4F	(5D)4[3]		
550.7072	-0.121	84870.863	2.5	4D	(5D)4D	103024.290	2.5	4F	(5D)4[2]	103024.290	2.5	4F	(5D)4[2]	554.9914	-0.640	85679.698	2.5	4D	(5D)4G	103676.780	3.5	4F	(5D)2[3]	103676.780	3.5	4F	(5D)2[3]		
550.7333	-4.894	54902.315	1.5	D6S	(3P)2F	73054.881	2.5	4P	(1G)2F	73054.881	2.5	4P	(1G)2F	555.0167	-2.526	81639.260	2.5	D5S2	(7S)2F	99635.520	1.5	4SP	(3G)2G	99635.520	1.5	4SP	(3G)2G		
550.7912	-3.756	54904.222	3.5	D6S	(3F)2F	66377.283	3.5	4P	(3G)4F	66377.283	3.5	4P	(3G)4F	555.5167	-0.640	85679.698	2.5	4D	(5D)4G	103676.780	3.5	4F	(5D)2[3]	103676.780	3.5	4F	(5D)2[3]		
551.0212	-7.484	84527.778	4.5	4D	(5D)6G	66377.283	-7.484	80346.016	0.5	5S	(5D)4D	98338.280	1.5	4SP	(5F)4S	555.6401	-3.174	80346.016	0.5	5S	(5D)4D	98338.280	1.5	4SP	(5F)4S				
551.0779	-1.188	85495.304	2.5	4D	(5D)6S	103645.220	1.5	4F	(5D)2[2]	103645.220	1.5	4F	(5D)2[2]	555.7412	-2.042	85679.698	2.5	4D	(5D)4G	103668.690	1.5	4F	(5D)2[1]	103668.690	1.5	4F	(5D)2[1]		
551.8258	-3.741	54063.459	0.5	D6S	(3P)2F	72212.978	0.5	4P	(3D)4P	72212.978	0.5	4P	(3D)4P	555.7716	-1.492	84863.351	5.5	4D	(5D)4G	102851.360	4.5	4F	(5D)4[5]	102851.360	4.5	4F	(5D)4[5]		
551.9442	-4.487	54870.528	2.5	D6S	(3F)2F	73016.147	3.5	4P	(1G)2F	73016.147	3.5	4P	(1G)2F	555.8287	-0.511	85048.602	1.5	4D	(5D)4D	103034.760	1.5	4F	(5D)4[2]	103034.760	1.5	4F	(5D)4[2]		
551.0639	-1.270	85184.734	4.5	4D	(5D)4G	103326.410	4.5	4F	(5D)3[4]	103326.410	4.5	4F	(5D)3[4]	555.9795	-0.847	85679.698	2.5	4D	(5D)4G	103660.980	2.5	4F	(5D)2[12]	103660.980	2.5	4F	(5D)2[12]		
551.0943	-1.510	84710.685	3.5	4D	(5D)6G	103325.950	5.5	4P	(5D)6D	103325.950	5.5	4P	(5D)6D	556.0273	-3.220	78237.685	3.5	5S	(5D)6D	96217.420	3.5	4SP	(5P)4D	96217.420	3.5	4SP	(5P)4D		
551.1083	-0.344	85728.806	1.5	4D	(5D)4S	103869.020	1.5	4F	(5D)1[2]	103869.020	1.5	4F	(5D)1[2]	556.0879	-4.102	105449.540	3.5	5D	(5D)4G	103660.980	2.5	4F	(5D)2[12]	103660.980	2.5	4F	(5D)2[12]		
551.1361	-3.704	105711.730	2.5	5D	(5D)6S	87572.431	-3.704	85728.806	1.5	4D	(5D)4S	103698.440	2.5	4F	(5D)2[3]	556.1150	-0.629	84863.351	5.5	4D	(5D)4G	102840.250	6.5	4F	(5D)4[6]	102840.250	6.5	4F	(5D)4[6]
551.4512	-1.775	85728.806	1.5	4D	(5D)4S	103857.740	2.5	4F	(5D)1[2]	103857.740	2.5	4F	(5D)1[2]	556.3399	-0.543	85048.602	1.5	4D	(5D)4S	103698.440	2.5	4F	(5D)2[3]	103698.440	2.5	4F	(5D)2[3]		
551.4633	-7.932	20340.300	5.5	D7	(5D)2H	38458.981	-7.932	38458.981	4.5	4P	(5D)6D	102831.320	5.5	4F	(5D)4[5]	556.3914	-1.734	84863.351	5.5	4D	(5D)4G	102831.320	5.5	4F	(5D)4[5]				
551.9691	-3.500	54904.222	3.5	D6S	(3F)2F	73016.147	3.5	4P	(1G)2F	73016.147	3.5	4P	(1G)2F	556.4672	-1.754	85679.698	2.5	4D	(5D)4G	103645.220	1.5	4F	(5D)2[12]	103645.220	1.5	4F	(5D)2[12]		
551.9845	-0.159	26932.748	0.5	D6S	(3P)2F	45044.168	1.5	4P	(5D)4D	45044.168	1.5	4P	(5D)4D	556.5492	-2.936	54275.637	2.5	4D	(5D)4G	103645.220	1.5	4F	(5D)2[12]	103645.220	1.5	4F	(5D)2[12]		
552.0140	-4.538	60445.275	2.5	D5S2	(7S)4D	42334.822	-4.538	42334.822	2.5	4P	(5D)6F	72238.513	2.5	4P	(3D)4F	556.7842	-2.018	54275.637	2.5	4D	(5D)4G	103645.220	1.5	4F	(5D)2[12]	103645.220	1.5	4F	(5D)2[12]
552.0436	-3.359	105711.730	2.5	5D	(5D)6S	87602.250	-3.359	87602.250	1.5	4SP	(5G)6F	72238.513	2.5	4P	(3D)4F	556.8603	-2.050	85172.809	0.5	4D	(5D)4D	103125.650	0.5	4F	(5D)4[1]	103125.650	0.5	4F	(5D)4[1]
552.1105	-1.712	84844.834	2.5	4D	(5D)6G	102952.120	2.5	4F	(5D)4[3]	102952.120	2.5	4F	(5D)4[3]	556.8916	-4.941	54275.637	2.5	4D	(5D)4G	103645.220	1.5	4F	(5D)2[12]	103645.220	1.5	4F	(5D)2[12]		
552.1638	-4.150	54063.459	0.5	D6S	(3P)2F	72168.998	-4.150	72168.998	1.5	4P	(3D)4F	60625.449	5.5	4P	(3H)4G	556.9399	-4.535	84326.912	2.5	4D	(5D)6P	66377.283	3.5	4P	(3F)4F	66377.283	3.5	4P	(3F)4F
552.2871	-3.650	80346.016	0.5	5S	(5D)4D	62244.520	-3.650	62244.520	1.5	4P	(3F)4F	87340.983	5.5	4SP	(5G)6F	557.0147	-4.671	105288.847	6.5	4D	(3F)4H	87340.983	5.5	4SP	(5G)6F				
552.4132	-2.430	84844.834	2.5	4D	(5D)6G	102942.200	-2.430	102942.200	3.5	4F	(5D)4[3]	103676.780	3.5	4F	(5D)2[12]	557.0287	-0.768	85728.806	1.5	4D	(5D)4S	103676.780	3.5	4F	(5D)2[12]				
552.4371	-2.830	84938.180	1.5	4D	(5D)6G	103034.760	2.5	4F	(5D)4[2]	103034.760	2.5	4F	(5D)4[2]	557.1536	-0.980	85462.862	3.5	4D	(5D)4G	103676.780	3.5	4F	(5D)2[12]	103676.780	3.5	4F	(5D)2[12]		
552.5019	-2.878	78185.030	3.5	D5S2	(7S)2G	96279.490	-2.878	96279.490	2.5	4SP	(3G)2F	99635.520	1.5	4SP	(3G)2G	557.2625	-2.014	85462.862	3.5	4D	(5D)4G	103676.780	3.5	4F	(5D)2[12]	103676.780	3.5	4F	(5D)2[12]
552.5125	-5.051	26352.766	4.5	D6S	(3H)2H	44446.878	-5.051	44446.878	3.5	4P	(3D)4D	62244.520	1.5	4P	(3F)4F	557.3216	-1.840	85172.809	0.5	4D	(5D)4D	103110.790	1.5	4F	(5D)4[1]	103110.790	1.5	4F	(5D)4[1]
552.7570	-3.979	84938.180	1.5	4D	(5D)6G	103024.290	-3.979	103024.290	2.5	4F	(5D)4[2]	102952.120	2.5	4F	(5D)4[2]	557.4622	-3.694	80177.975	1.5	5S	(3D)4D	62244.520	1.5	4P	(3F)4F	62244.520	1.5	4P	(3F)4F
552.9053	-0.048	84870.863	2.5	4D	(5D)4D	102952.120	-0.048	102952.120	2.5	4F	(5D)4[3]	103676.780	3.5	4F	(5D)2[12]	557.5021	-0.725	85728.806	1.5	4D	(5D)4S	103660.980	2.5	4F	(5D)2[12]	103660.980	2.5	4F	(5D)2[12]
553.0341	-0.542	85048.602	1.5	4D	(5D)4D	103125.650	-0.542	103125.650	0.5	4F	(5D)4[1]	103417.910	1.5	4F	(5D)3[1]	557.7915	-0.045	85462.862	3.5	4D	(5D)4G	103676.780	3.5	4F	(5D)2[12]	103676.780	3.5	4F	(5D)2[12]
553.0543	-4.513	54275.637	2.5	D5S2	(7S)4G	72352.024	-4.513	72352.024	3.5	4P	(3D)4F	99635.520	1.5	4SP	(3G)2G	557.9284													

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
59.4563	-0.901	85495.304	2.5	4D (5D)6S	103364.840	2.5	4F(5D)3[3]	565.6261	-4.018	73395.930	2.5	D5S2(7S)4F	91070.547	2.5	5P (5D)4F
559.6438	-1.584	85462.862	3.5	4D (5D)4G	103326.410	4.5	4F(5D)3[4]	565.6623	-1.710	105211.140	4.5	5D (5D)4G	87537.652	3.5	4SP(5G)6F
559.6939	-1.968	85172.809	0.5	4D (5D)4D	103034.760	1.5	4F(5D)4[2]	565.7935	-4.336	27620.412	2.5	D6S (3F)2F	45289.801	1.5	4P (5D)4F
559.8569	-4.910	542073.641	4.5	D5S2(7S)4G	72130.390	4.5	4P (1G)2H	565.8336	-2.274	105205.790	2.5	5D (5D)6G	87537.652	3.5	4SP(5G)6F
559.9346	-8.943	20805.770	4.5	D7 (5D)2H	38660.043	3.5	4P (5D)6D	565.8820	-0.629	85184.734	4.5	4F(5D)4[5]	102851.360	1.5	4F(5D)4[5]
560.0691	-2.418	80346.016	0.5	5S (5D)4D	98196.000	1.5	4SP(5D)4F	565.8988	-2.987	105630.750	2.5	5D (5D)4G	87964.650	1.5	4SP(5P)6D
560.1081	-3.024	77230.900	4.5	D5S2(7S)2H	95079.640	3.5	4P (3F)2F	566.0147	-0.382	85728.806	1.5	4D (5D)4S	103391.290	1.5	4F(5D)3[2]
560.2111	-4.066	86124.301	4.5	4D (5D)4F	103969.760	3.5	4F(5D)1[3]	566.0328	-3.410	78577.280	4.5	D5S2(7S)2G	96239.200	4.5	4SP(3G)2H
560.4935	-4.540	79885.493	2.5	5S (5D)4D	62049.025	2.5	4SP(7S)6P	566.0641	-1.869	85679.698	2.5	4D (5D)4G	103340.640	3.5	4F(5D)3[4]
560.5912	-6.812	25787.598	1.5	D6S (3P)2P	43620.957	1.5	4P (5D)6P	566.3313	-1.126	105288.530	1.5	5D (5D)6G	87635.920	0.5	4SP(5P)6D
560.7138	-5.488	20830.582	2.5	D6S (3P)4P	38660.043	3.5	4P (5D)6D	566.3396	-2.624	105711.730	2.5	5D (5D)6S	88059.380	2.5	4SP(5P)6D
561.0124	-3.195	79885.493	2.5	5S (5D)4D	62065.521	3.5	4P (3F)4F	566.3404	-3.040	81734.750	3.5	D5S2(7S)2F	91048.256	1.5	5P (5D)4D
561.2327	-4.733	50187.813	3.5	D6S (3F)4F	68000.788	4.5	4P (3G)2H	566.5007	-4.642	81734.750	3.5	D5S2(7S)2F	64087.418	2.5	4P (3F)4G
561.2333	-4.063	73395.930	2.5	D5S2(7S)4F	91208.887	1.5	5P (5D)4F	566.5246	-2.118	85184.734	4.5	4D (5D)4G	102831.320	5.5	4F(5D)4[5]
561.3033	-4.349	21308.040	1.5	D7 (5D)2D	39109.307	0.5	4P (5D)6D	566.7317	-4.778	78577.280	4.5	D5S2(7S)2G	96217.420	3.5	4SP(5P)4D
562.0852	-3.881	81734.750	3.5	D5S2(7S)2F	63948.790	4.5	4P (3F)4G	566.8636	-0.704	85728.806	1.5	4D (5D)4S	103364.840	2.5	4F(5D)3[3]
562.2310	-4.810	54870.528	2.5	D6S (3F)2F	72651.876	3.5	4P (3D)4D	566.9496	-1.195	105205.790	2.5	5D (5D)6G	87572.431	2.5	4SP(5G)6F
562.4370	-3.328	44915.046	3.5	D6S (1F)2F	62689.880	2.5	4P (3F)4D	567.0571	-1.913	86416.333	3.5	4D (5D)4F	104046.350	2.5	4F(5D)0[3]
562.4573	-4.986	73393.745	4.5	D5S2(7S)4F	91167.937	3.5	5P (5D)6P	567.1207	-3.535	105230.290	0.5	5D (5D)4D	87252.456	1.5	4SP(5G)6F
562.6727	-3.045	54275.637	2.5	D5S2(7S)4G	72043.026	1.5	4P (3D)4P	567.3048	-0.432	85495.304	2.5	4D (5D)6S	103110.790	1.5	4F(5D)4[1]
562.7497	-4.395	27314.922	3.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	567.5248	-4.140	60270.339	3.5	D5S2(7S)4D	42658.224	3.5	4P (5D)8P
562.7832	-4.941	84685.198	3.5	4D (5D)4D	102449.100	2.5	4SP(3D)2D	567.6335	-4.140	86416.333	3.5	4D (5D)4F	104022.890	3.5	4F(5D)0[3]
562.8964	-4.406	44929.550	2.5	D6S (1F)2F	62689.880	2.5	4P (3F)4D	567.9100	-0.853	105205.790	2.5	5D (5D)6G	87602.250	1.5	4SP(5G)6F
562.9102	-3.766	79885.493	2.5	5S (5D)4D	62125.600	1.5	4P (3F)2D	568.0767	-4.140	81639.260	2.5	D5S2(7S)2F	64040.886	3.5	4P (3F)4G
562.9582	-3.654	86124.301	4.5	4D (5D)4F	103882.680	3.5	4F(5D)1[4]	568.2060	-3.774	105230.290	0.5	5D (5D)4D	87635.920	0.5	4SP(5P)6D
562.9701	-3.457	78237.685	3.5	5S (5D)6D	95995.690	2.5	4SP(5P)4D	568.2223	-2.369	105065.630	3.5	5D (5D)6G	87471.765	4.5	4SP(5G)6F
562.9871	-0.917	85184.734	4.5	4D (5D)4F	102942.200	3.5	4F(5D)4[3]	568.3433	-3.644	105127.770	2.5	5D (5D)4F	87537.652	3.5	4SP(5G)6F
563.2338	-2.154	86124.301	4.5	4D (5D)4F	103873.990	4.5	4F(5D)1[4]	568.4171	-4.369	78577.280	4.5	D5S2(7S)2G	60989.444	4.5	4P (3H)4H
563.2984	-3.460	54904.222	3.5	D6S (3F)2F	72651.876	3.5	4P (3D)4D	568.4354	-2.242	86124.301	4.5	4D (5D)4F	103711.570	2.5	4F(5D)2[4]
563.3166	-3.549	105711.730	2.5	5D (5D)6S	87964.650	1.5	4SP(5P)6D	568.7244	-3.683	73492.215	3.5	D5S2(7S)4F	91070.547	2.5	5P (5D)4F
563.3371	-4.814	54904.222	3.5	D6S (3F)2F	72650.658	4.5	4SP(5G)6F	568.7539	-1.678	86124.301	4.5	4D (5D)4F	103701.720	4.5	4F(5D)2[5]
563.5613	-2.481	105211.140	4.5	5D (5D)4G	87471.765	4.5	4SP(5G)6F	568.9424	-2.521	86416.333	3.5	4D (5D)4F	103987.930	2.5	4F(5D)1[3]
563.5982	-1.480	85679.698	2.5	4D (5D)4D	103417.910	1.5	4F(5D)3[1]	568.9440	-3.280	73637.340	1.5	D5S2(7S)4F	91208.887	1.5	5P (5D)4F
563.7283	-3.225	108804.667	3.5	5S (5D)4D	62151.561	2.5	4P (3F)4F	568.9497	-4.232	105630.750	2.5	5D (5D)4G	88059.380	2.5	4SP(5P)6D
563.9690	-0.607	85679.698	2.5	4D (5D)4G	103406.250	2.5	4F(5D)3[2]	569.0994	-0.072	86124.301	4.5	4D (5D)4F	103691.050	5.5	4F(5D)2[5]
564.0958	-4.811	105063.550	5.5	4D (3F)4G	87340.983	5.5	4SP(5G)6F	569.1388	-6.863	26055.423	2.5	D6S (3G)4G	43620.957	1.5	4P (3H)2C
564.3282	-4.661	54904.222	3.5	D6S (3F)2F	87572.431	2.5	4SP(5G)6F	569.2189	-3.458	79885.493	2.5	5S (5D)4D	62322.431	3.5	4P (5D)2E
564.3880	-2.062	79439.467	3.5	5S (5D)4D	72619.490	2.5	4P (3D)4D	569.2401	-3.153	73637.340	1.5	D5S2(7S)4F	91199.746	0.5	5P (5D)4D
564.4453	-2.977	85679.698	2.5	4D (5D)4G	61726.077	3.5	4P (3P)4D	569.4368	-0.985	86124.301	4.5	4D (5D)4F	103024.290	2.5	4F(5D)4[2]
564.4907	-4.743	84710.685	3.5	4D (5D)6G	103391.290	1.5	4F(5D)3[2]	569.4693	-3.611	105127.770	2.5	4D (5D)4G	103680.640	4.5	4F(5D)2[4]
564.5392	-0.227	85184.734	4.5	4D (5D)4G	67000.517	2.5	4P (3F)2D	569.5313	-1.135	86416.333	3.5	4D (5D)4F	103969.760	3.5	4F(5D)1[3]
564.5447	-1.746	85728.806	1.5	4D (5D)4S	102893.380	5.5	4F(5D)4[6]	569.5621	-1.772	86124.301	4.5	4D (5D)4F	103676.780	3.5	4F(5D)2[3]
564.6226	-0.612	85679.698	2.5	4D (5D)4G	103437.280	0.5	4F(5D)3[1]	569.5827	-3.379	81639.260	2.5	D5S2(7S)2F	64087.418	2.5	4P (3F)4G
564.6502	-7.976	21308.040	1.5	D7 (5D)2D	39013.206	1.5	4P (5D)6D	569.6127	-8.073	21308.040	1.5	D7 (5D)2D	38858.958	2.5	4P (5D)6D
564.7389	-1.062	85184.734	4.5	4D (5D)4G	102882.370	4.5	4F(5D)4[4]	569.9850	-1.384	85495.304	2.5	4D (5D)6S	103034.760	1.5	4F(5D)4[2]
565.0109	-3.332	81734.750	3.5	D5S2(7S)2F	64040.886	3.5	4P (3F)4G	570.3254	-0.640	85495.304	2.5	4D (5D)6S	103024.290	2.5	4F(5D)4[2]
565.0700	-3.284	78525.407	2.5	5S (5D)6D	96217.420	3.5	4SP(5P)4D	570.3732	-2.727	104868.500	4.5	5D (5D)6G	87537.652	3.5	4SP(5G)6F
565.1575	-0.490	85728.806	1.5	4D (5D)4S	103418.080	0.5	4F(5D)3[0]	570.3772	-3.624	54902.315	1.5	D6S (3P)2P	72429.711	0.5	4P (3D)4D
565.1629	-0.844	85728.806	1.5	4D (5D)4S	103417.910	1.5	4F(5D)3[1]	570.4382	-3.064	105127.770	2.5	5D (5D)4G	87602.250	1.5	4SP(5G)6F
565.2531	-1.415	105288.530	1.5	5D (5D)6G	87602.250	1.5	4SP(5G)6F	570.5383	-2.514	104863.430	5.5	5D (5D)4G	87340.983	5.5	4SP(5G)6F
565.2895	-1.874	85679.698	2.5	4D (3F)4G	103364.840	2.5	4F(5D)3[3]	570.7176	-3.169	80346.016	0.5	5S (5D)4D	62829.075	0.5	4P (3P)4D
565.3476	-4.945	105155.090	4.5	4D (3F)4G	87471.765	4.5	4SP(5G)6F	571.1006	-4.403	73395.930	2.5	D5S2(7S)4F	90901.124	2.5	5P (5D)4P
565.5357	-0.565	85728.806	1.5	4D (5D)4S	103406.250	2.5	4F(5D)3[2]	571.1957	-2.097	105711.730	2.5	5D (5D)6S	90898.873	1.5	4P (3P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
571.2453	-3.917	103983.510	3.5	5S (3G)2G	86482.750	3.5	4P (1F)2F	576.6906	-0.786	86710.837	1.5	4D (5D)4F	104046.350	2.5	4F(5D)0[3]
571.3563	-3.791	86599.738	2.5	4D (5D)4F	69102.380	2.5	4SP(5S)4P	576.7861	-3.360	78525.490	2.5	5S (5D)6D	93858.050	1.5	4SP(5P)4D
571.4922	-0.627	105065.630	3.5	5D (5D)6G	87572.431	2.5	4SP(5G)6F	576.8018	-4.325	105230.200	0.5	5D (5D)4D	87898.120	0.5	4SP(5G)6F
571.6210	-1.515	85462.862	3.5	4D (5D)4G	102952.120	2.5	4F(5D)4[3]	576.8458	-0.399	104868.500	4.5	5D (5D)6G	87537.652	3.5	4SP(5G)6F
571.6590	-2.857	80177.975	1.5	5S (5D)4D	62689.880	2.5	4P (3F)4D	577.0779	-1.560	105288.530	1.5	5D (5D)6G	87964.650	1.5	4SP(5P)6D
571.7674	-4.593	78577.280	4.5	D5S2(7S)2G	96062.060	5.0	4P(3G)2H	577.3748	-3.616	44929.550	2.5	D6S (1F)2F	62244.520	1.5	4P (3F)4F
571.9454	-0.917	85462.862	3.5	4D (5D)4G	102942.200	3.5	4F(5D)4[3]	577.4087	-3.425	86416.333	3.5	4D (5D)4F	69102.380	2.5	4SP(5S)4P
572.2418	-3.585	78525.407	2.5	5S (5D)6D	95995.690	2.5	4SP(5P)4D	577.5185	-3.853	54902.315	1.5	D6S (3P)2P	72212.978	0.5	4P (3D)4P
572.2564	-6.605	27314.922	3.5	D6S (3F)2F	44784.761	2.5	4P (5D)4D	577.6756	-4.331	81734.750	3.5	D5S2(7S)2F	64025.408	2.5	4F (5D)4[2]
572.3708	-2.140	86416.333	3.5	4D (5D)4F	103882.680	3.5	4F(5D)1[4]	577.8477	-2.018	104873.230	3.5	5D (5D)4D	103711.570	3.5	4F(5D)4[2]
572.5963	-4.988	27620.412	2.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	577.8747	-2.018	104873.230	3.5	5D (5D)4D	87572.431	2.5	4SP(5G)6F
572.6557	0.094	86416.333	3.5	4D (5D)4F	103873.990	4.5	4F(5D)1[4]	577.9250	-3.953	86599.738	2.5	4D (5D)4F	72168.998	1.5	4P (3D)4F
572.6833	-2.007	85495.304	2.5	4D (5D)6S	102952.120	2.5	4F(5D)4[3]	577.9530	-3.953	86599.738	2.5	4D (5D)4F	69302.090	1.5	4SP(5S)4P
572.8745	-7.859	25787.598	1.5	D6S (3P)2P	43238.586	2.5	4P (5D)6F	577.9662	-6.262	21812.055	1.5	D6S (3P)4F	39109.307	0.5	4P (5D)6D
572.9593	-2.959	81734.750	3.5	D5S2(7S)2F	64286.345	3.5	4P (3F)2F	578.0128	0.389	86124.301	4.5	4D (5D)4F	103420.160	5.5	4F(5D)3[6]
572.9791	-3.623	54904.222	3.5	D6S (3F)2F	72352.024	3.5	4P (3D)4F	578.0253	-1.070	85728.806	1.5	4D (5D)4S	103024.290	2.5	4F(5D)4[2]
573.0089	-1.067	85495.304	2.5	4D (5D)6S	102942.200	3.5	4F(5D)4[3]	578.0336	-0.328	86416.333	3.5	4D (5D)4F	103711.570	3.5	4F(5D)2[4]
573.0182	-0.988	86599.738	2.5	4D (5D)4F	104046.350	2.5	4F(5D)0[3]	578.1917	-4.709	104828.160	2.5	5D (5D)6D	87537.652	3.5	4SP(5G)6F
573.0857	-3.871	100749.810	2.5	5S (3F)2F	83305.251	3.5	4P (1F)2G	578.2620	-4.337	73492.215	3.5	D5S2(7S)4F	90780.621	3.5	5P (5D)4F
573.1892	-2.830	86416.333	3.5	4D (5D)4F	103857.740	2.5	4F(5D)1[2]	578.2787	-3.816	79439.467	3.5	5S (5D)4D	62151.561	2.5	4P (3F)4F
573.2099	-3.565	79885.493	2.5	5S (5D)4D	97326.270	1.5	4SP(3P)2P	578.3630	-0.346	86416.333	3.5	4D (5D)4F	103701.720	4.5	4F(5D)2[5]
573.2724	-4.809	27314.922	3.5	D6S (3F)2F	44753.799	3.5	4P (5D)4F	578.4142	-4.736	86710.837	1.5	4D (5D)4F	69426.980	0.5	4SP(5S)4P
573.3663	-3.564	103983.510	3.5	5S (3G)2G	86547.490	2.5	4P (1F)2F	578.4448	0.083	86599.738	2.5	4D (5D)4F	103882.680	3.5	4F(5D)1[4]
573.4589	-4.604	73637.340	1.5	D5S2(7S)4F	91070.547	2.5	5P (5D)4F	578.4727	-1.679	86416.333	3.5	4D (5D)4F	103696.440	2.5	4F(5D)2[3]
573.5284	-2.674	85679.698	2.5	4D (5D)4G	103110.790	1.5	4F(5D)4[1]	578.4978	-3.043	79439.467	3.5	5S (5D)4D	62158.110	4.5	4P (3F)4F
573.7534	-1.035	85462.862	3.5	4D (5D)4G	102887.120	3.5	4F(5D)4[4]	578.6406	-0.865	86710.837	1.5	4D (5D)4F	103987.930	2.5	4F(5D)1[3]
573.7699	-6.391	27620.412	2.5	D6S (3F)2F	45044.168	1.5	4P (5D)4D	578.7971	-2.015	85679.698	2.5	4D (5D)4G	102952.120	2.5	4F(5D)4[3]
573.7898	-0.333	86599.738	2.5	4D (5D)4G	104022.220	3.5	4F(5D)0[3]	578.8816	-3.115	78725.790	1.5	5S (5D)6D	95995.690	2.5	4SP(5P)4D
573.8508	-3.444	105630.750	2.5	5D (5D)4G	88209.450	3.5	4SP(5P)6D	578.9023	-2.756	86599.738	2.5	4D (5D)4F	103869.020	1.5	4F(5D)1[2]
573.8790	-4.441	78577.280	4.5	D5S2(7S)2G	61156.835	3.5	4P (3H)4H	578.9895	-3.932	54902.315	1.5	D6S (3P)2P	72168.998	1.5	4P (3D)4F
573.9098	-1.022	85462.862	3.5	4D (5D)4F	102882.370	4.5	4F(5D)4[4]	579.0245	-4.708	105230.200	0.5	5D (5D)4D	87964.650	1.5	4SP(5P)6D
574.2592	-3.185	73492.215	3.5	D5S2(7S)4F	90901.124	2.5	5P (5D)4F	579.0692	-1.388	86416.333	3.5	4D (5D)4F	103680.640	4.5	4F(5D)2[4]
574.2646	-4.179	86710.837	1.5	4D (5D)4F	69302.090	1.5	4SP(5S)4P	579.1297	-2.528	85679.698	2.5	4D (5D)4G	102942.200	3.5	4F(5D)4[3]
574.5049	-4.701	104873.230	3.5	5D (5D)4D	87471.765	4.5	4SP(5G)6F	579.1622	-4.601	73637.340	1.5	D5S2(7S)4F	90898.873	3.5	4P (3P)4P
574.6575	-0.351	85728.806	1.5	4D (5D)4S	103125.650	0.5	4F(5D)4[1]	579.1657	-1.550	86124.301	4.5	4D (5D)4F	103385.730	3.5	4F(5D)3[3]
574.6611	-1.151	104868.500	4.5	5D (5D)6G	87471.765	4.5	4SP(5G)6F	579.1987	-1.617	86416.333	3.5	4D (5D)4F	103676.780	3.5	4F(5D)2[3]
574.7837	-4.928	78725.790	1.5	5S (5D)6D	61332.764	1.5	4P (3F)4P	579.2321	-3.093	81639.260	2.5	D5S2(7S)2F	98898.710	3.5	4P (1G)2F
574.7884	-3.096	44929.550	2.5	D6S (1F)2F	62322.431	3.5	4P (3H)2G	579.2807	-1.449	86599.738	2.5	4D (5D)4F	103857.740	2.5	4F(5D)1[2]
574.8236	-3.357	85495.304	2.5	4D (5D)6S	102887.120	3.5	4F(5D)4[4]	579.3158	-5.710	25981.629	3.5	D6S (3G)4G	43238.586	2.5	4P (5D)6P
574.8286	-1.388	104863.430	5.5	5D (5D)4G	87471.765	4.5	4SP(5G)6F	579.3570	-2.609	104828.160	2.5	5D (5D)6D	87572.431	2.5	4SP(5G)6F
574.8691	-4.804	79439.467	3.5	5S (5D)4D	62049.025	2.5	4SP(7S)6P	579.4726	-1.328	104593.270	5.5	5D (5D)6G	87340.983	5.5	4SP(5G)6F
574.8701	-1.078	105288.530	1.5	5D (5D)6G	87898.120	0.5	4SP(5G)6F	579.5845	-2.319	58666.258	3.5	D6S (1G)2G	75915.215	2.5	4P (3D)2F
574.8784	-2.562	105449.540	3.5	5D (5D)4G	88059.380	2.5	4SP(5P)6D	579.7293	-2.519	86416.333	3.5	4D (5D)4F	103660.980	2.5	4F(5D)2[2]
574.9333	-1.563	85462.862	3.5	4D (5D)4G	102851.360	4.5	4F(5D)4[5]	579.7826	-4.063	44915.046	3.5	D6S (1F)2F	62158.110	4.5	4P (3F)4F
574.9434	-1.918	86599.738	2.5	4D (5D)4F	103987.930	2.5	4F(5D)1[3]	579.7884	-3.364	73395.930	2.5	D5S2(7S)4F	90638.822	2.5	5P (5D)4D
574.9870	-2.954	73393.745	4.5	D5S2(7S)4F	90780.621	3.5	5P (5D)4F	579.8826	-3.216	105449.540	3.5	5D (5D)4G	88209.450	3.5	4SP(5P)6D
575.0592	-4.608	80346.016	0.5	5S (5D)4D	62962.205	1.5	4P (3F)4D	580.0029	-4.152	44915.046	3.5	D6S (1F)2F	62151.561	2.5	4P (3F)4F
575.0883	-3.199	80346.016	0.5	5S (5D)4D	62962.205	1.5	4P (3F)4D	580.0091	-4.129	104705.420	3.5	5D (5D)6D	87471.765	4.5	4SP(5G)6F
575.1488	-0.700	85728.806	1.5	4D (5D)4S	103110.790	1.5	4F(5D)4[1]	580.2381	-4.912	108804.667	3.5	5S (3D)4D	91575.139	2.5	5P (5D)6P
575.4149	-3.954	79439.467	3.5	5S (5D)4D	62065.521	3.5	4P (3F)4F	580.2508	-2.743	105288.530	1.5	4D (5D)6G	88059.380	2.5	4SP(5P)6D
575.5449	-0.397	86599.738	2.5	4D (5D)4F	103969.760	3.5	4F(5D)1[3]	580.2568	-0.626	86124.301	4.5	4D (5D)4F	103352.680	4.5	4F(5D)3[5]
575.6124	-4.255	54870.528	2.5	D6S (3F)2F	72238.513	2.5	4P (3D)4F	580.2768	-0.626	86124.301	4.5	4D (5D)4F	103352.680	4.5	4F(5D)3[5]
575.9143	-3.801	50157.452	4.5	D6S (3F)4F	67516.332	5.5	4P (3G)2H	580.3599	-2.509	104828.160	2.5	5D (5D)6D	87602.250	1.5	4SP(5G)6F
575.9980	-3.522	79439.467	3.5	5S (5D)4D	62083.108	4.5	4P (3H)2G	580.4474	-1.022	85728.806	1.5	4F(5D)4[3]	102952.120	2.5	4F(5D)4[3]
576.0410	-2.442	85679.698	2.5	4D (5D)4G	103034.760	0.5	4F(5D)4[2]	580.4913	-3.891	44929.550	2.5	D6S (1F)2F	62151.561	2.5	4P (3F)4F
576.2456	-3.247	80177.975	1.5	5S (5D)4D	62829.075	0.5	4P (3F)4D	580.6826	-1.196	86124.301	4.5	4D (5D)4F	103340.640	3.5	4F(5D)3[4]
576.3887	-1.863	85679.698	2.5	4D (5D)4G	103024.290	2.5	4F(5D)4[2]	580.6963	-4.807	103983.510	3.5	5S (3G)2G	86767.577	2.5	4P (3P)4D
576.6884	-2.503	104873.230	3.5	5D (5D)4D	87537.652	3.5	4SP(5G)6F	580.7018	-2.976	80177					

VL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
580.7665	-3.132	81639.260	2.5	D5S2(7S)2F	64425.408	2.5	4P(3F)2F	587.5097	-2.252	104588.710	1.5	5D(5D)6D	87572.431	2.5	4P(5G)6F
580.9835	-2.742	85679.698	2.5	4D(5D)4G	102887.120	3.5	4P(5D)4[4]	587.5411	-4.697	49506.934	1.5	D6S(3F)4P	66522.904	2.5	4P(3G)4F
581.0082	-4.786	60445.275	2.5	D5S2(7S)4D	43238.586	2.5	4P(5D)6D	587.5864	-3.336	78843.992	0.5	5S(5D)6D	95858.050	1.5	48F(5P)4D
581.1629	-0.405	86124.301	4.5	4D(5D)4F	103326.410	4.5	4F(5D)3[4]	587.8562	-0.923	105065.630	3.5	5D(5D)6G	88059.380	2.5	48F(5P)6D
581.1785	-0.551	86124.301	4.5	4D(5D)4F	103325.950	5.5	4P(5D)3[5]	587.9297	-2.930	73393.745	4.5	D5S2(7S)4F	90397.868	3.5	5P(5D)4D
581.1953	-0.650	21812.055	1.5	D6S(3P)4F	39013.206	1.5	4P(5D)6D	588.0003	-4.721	73395.930	2.5	D5S2(7S)4F	90397.868	3.5	5P(5D)4D
581.3046	-3.322	50075.910	1.5	D6S(3F)4F	67273.826	1.5	4P(3F)2D	588.0139	-2.163	105211.140	4.5	5D(5D)4G	88209.450	3.5	48F(5P)6D
581.3164	-4.678	73395.930	2.5	D5S2(7S)4F	90395.497	1.5	5P(5D)6F	588.0210	-4.382	73637.340	1.5	D5S2(7S)4F	90638.822	2.5	5P(5D)4D
581.3677	-2.901	44929.550	2.5	D6S(1F)2F	62125.600	1.5	4P(3P)2D	588.1989	-2.782	105205.790	2.5	5D(5D)6G	88209.450	3.5	48F(5P)6D
581.3770	-4.276	57411.065	2.5	D5S2(7S)4F	74606.841	2.5	4P(3D)2D	588.2623	-2.539	104630.430	1.5	5D(5D)6P	87635.920	0.5	48F(5P)6D
581.3825	-2.570	79885.493	2.5	5S(5D)4D	62689.880	2.5	4P(3P)4D	588.3221	-3.119	73393.745	4.5	D5S2(7S)4F	90386.528	4.5	5P(5D)4F
581.6817	-4.747	100492.020	3.5	5S(3F)2F	83305.251	3.5	4P(1F)2G	588.4213	-1.469	86416.333	3.5	4D(5D)4F	103406.250	2.5	4F(5D)3[2]
581.8037	-0.641	26055.423	2.5	D6S(3G)4G	43238.586	2.5	4P(5D)6D	588.5015	0.345	86710.837	1.5	4D(5D)4F	103698.440	2.5	4F(5D)2[3]
582.3155	-3.229	44915.046	3.5	D6S(1F)2F	62083.108	4.5	4P(3H)2G	588.5411	-1.607	104588.710	1.5	5D(5D)6D	87602.250	1.5	48F(5P)6F
582.3255	-2.159	104705.420	3.5	5D(5D)6D	87537.652	3.5	48F(5G)6F	588.5762	-2.126	80346.016	0.5	5S(5D)4D	97326.270	1.5	48F(5P)2F
582.4415	-5.998	27620.412	2.5	D6S(3F)2F	44784.761	2.5	4P(5D)4F	589.1328	-3.195	58631.531	4.5	D6S(1G)2G	75600.931	3.5	4P(3D)2F
582.4547	-2.477	81734.750	3.5	D5S2(7S)2F	98898.710	3.5	4P(1G)2F	589.1329	-0.383	86416.333	3.5	4D(5D)4F	103385.730	3.5	4F(5D)3[3]
582.6111	-3.195	47674.721	1.5	D7(5D)2D	64834.073	1.5	4P(3P)2P	589.2723	-1.761	86710.837	1.5	4D(5D)4F	103668.690	1.5	4F(5D)2[1]
582.6508	-0.749	86710.837	1.5	4D(5D)4F	103869.020	1.5	4P(5D)1[2]	589.5329	-0.806	73637.340	1.5	D5S2(7S)4F	90593.497	1.5	5P(5D)6F
582.6699	-4.827	82853.658	5.5	4D(5D)6F	63696.038	4.5	4P(3G)4G	589.7100	-4.349	104588.710	1.5	5D(5D)6D	87635.920	0.5	48F(5P)6D
582.7636	-2.174	104757.110	0.5	5D(5D)6D	87602.250	1.5	48F(5G)6F	589.8021	-0.660	86710.837	1.5	4D(5D)4F	103660.980	2.5	4F(5D)2[2]
582.9126	-3.716	44915.046	3.5	D6S(1F)2F	62065.521	3.5	4P(3F)4F	589.8520	-1.893	86416.333	3.5	4D(5D)4F	103364.840	3.5	4P(5D)6D
582.9867	-2.983	80177.975	1.5	5S(5D)4D	97326.270	1.5	48F(3P)2P	589.8723	-8.877	21711.917	3.5	D6S(3H)4H	38660.043	3.5	4P(5D)6D
583.0294	-8.648	21711.917	3.5	D6S(3H)4H	38858.958	2.5	4P(5D)6D	590.1374	-2.731	79883.493	2.5	5S(5D)4D	62945.038	3.5	4P(3F)4D
583.0341	-0.199	86710.837	1.5	4D(5D)4F	103857.740	2.5	4P(5D)1[2]	590.1578	-1.442	104411.690	4.5	5D(5D)6D	87471.765	4.5	48F(5P)6F
583.0441	-1.594	73492.215	3.5	D5S2(7S)4F	90638.822	2.5	5P(5D)1[2]	590.1598	-0.431	86416.333	3.5	4D(5D)4F	103352.680	4.5	4F(5D)3[5]
583.0508	-1.567	105205.790	2.5	5D(5D)6G	88059.380	2.5	48F(5P)6D	590.2825	0.431	86416.333	3.5	4D(5D)4F	103352.680	4.5	4F(5D)3[5]
583.2447	-3.074	54902.315	1.5	D6S(3P)2P	72043.026	1.5	4P(3D)4P	590.3409	-3.663	58666.258	3.5	D6S(1G)2G	75600.931	3.5	4P(3D)2F
583.4060	-3.727	44929.550	2.5	D6S(1F)2F	62065.521	3.5	4P(3F)4F	590.3510	-1.068	86710.837	1.5	4D(5D)4F	103660.980	2.5	4F(5D)2[2]
583.4940	-8.079	27620.412	2.5	D6S(3F)2F	44753.799	3.5	4P(5D)4F	590.6920	-4.337	50075.910	1.5	D6S(3F)4F	44232.512	4.5	4P(5D)4F
583.5076	-2.613	104705.420	3.5	5D(5D)6D	87572.431	2.5	48F(5G)6F	590.7025	-1.960	86416.333	3.5	4D(5D)4F	103364.840	3.5	4F(5D)3[4]
583.5427	-6.476	27314.922	3.5	D6S(3F)2F	44446.878	3.5	4P(5D)4D	590.7234	-4.165	78843.992	0.5	5S(5D)6D	90367.700	0.5	48F(5P)4D
583.5492	-2.640	47674.721	1.5	D7(5D)2D	64806.487	0.5	4P(3P)2P	590.7380	-3.141	79883.493	2.5	5S(5D)4D	62962.205	1.5	4P(3F)4D
583.5739	-3.717	50142.786	2.5	D6S(3F)4F	67273.826	1.5	4P(3F)2D	590.9115	-2.445	105127.770	2.5	5D(5D)4D	88209.450	3.5	48F(5P)6D
583.7403	-3.174	103608.909	4.5	5S(3G)2G	86482.750	3.5	4P(1F)2F	590.9370	-6.676	79434.922	3.5	D6S(3F)2F	44232.512	4.5	4P(5D)4F
583.8989	-0.199	104593.270	5.5	5D(5D)6G	87471.765	4.5	48F(5G)6F	590.9404	-3.479	79439.467	3.5	5S(5D)4D	96356.960	3.5	48P(3G)2F
583.9097	-1.863	104757.110	0.5	5D(5D)6D	87635.920	2.5	48F(5P)6D	591.1995	-1.462	86416.333	3.5	4D(5D)4F	103326.410	4.5	4F(5D)3[4]
584.0514	-4.904	79439.467	3.5	5S(5D)4D	62322.431	3.5	4P(3H)2G	591.2311	-2.540	104380.940	3.5	5D(5D)6F	87471.765	4.5	48F(5G)6F
584.1714	-4.412	57493.321	1.5	D5S2(7S)4F	74606.841	2.5	4P(3D)2D	591.3113	-4.590	73393.745	4.5	D5S2(7S)4F	90300.625	3.5	5P(5D)6F
584.2290	-0.106	86599.738	2.5	4D(5D)4F	103711.570	3.5	4F(5D)2[4]	591.3543	-3.795	73492.215	3.5	D5S2(7S)4F	90397.868	3.5	5P(5D)4D
584.6776	-3.266	86599.738	2.5	4D(5D)4F	103698.440	2.5	4F(5D)2[3]	591.3771	-2.685	80177.975	1.5	5S(5D)4D	63272.976	2.5	4P(3F)4D
584.9200	-4.817	78185.030	3.5	D5S2(7S)2G	61093.413	2.5	4P(3P)2D	591.4538	-3.032	73393.745	4.5	D5S2(7S)2F	64831.943	4.5	4P(3F)2G
585.4192	-0.201	86599.738	2.5	4D(5D)4F	103676.780	3.5	4F(5D)2[3]	591.4963	-2.296	77861.625	4.5	5S(5D)6D	94763.219	3.5	48F(5D)6P
585.6365	-2.106	104411.690	4.5	5D(5D)6D	87340.983	5.5	48F(5G)6F	591.6714	-4.954	81639.260	2.5	D5S2(7S)2F	98535.850	3.5	48P(5D)4F
585.6967	-2.597	86599.738	2.5	4D(5D)4F	103668.690	1.5	48F(5D)2[1]	591.7408	-4.585	78185.030	3.5	D5S2(7S)2G	95079.640	3.5	4P(3F)2F
585.7160	-2.415	105127.770	2.5	5D(5D)4F	88059.380	2.5	48F(5P)6D	591.7512	-4.600	73492.215	3.5	D5S2(7S)4F	90386.528	4.5	4P(3F)2F
585.8445	-3.826	78577.280	4.5	D5S2(7S)2G	61512.634	4.5	4P(3H)4I	591.9441	-2.480	104426.460	2.5	5D(5D)6F	90386.528	4.5	4P(3F)2F
585.9218	-4.357	54902.315	1.5	D6S(3P)2P	71964.710	2.5	4P(3D)4P	592.1211	-2.804	80346.016	0.5	5S(5D)4D	63465.109	1.5	4P(3F)4D
585.9614	-0.669	86599.738	2.5	4D(5D)4F	103660.980	2.5	4F(5D)2[2]	592.3462	-8.207	21581.638	4.5	D6S(3H)4H	38458.981	4.5	4P(3F)2F
585.9873	-3.853	54904.222	3.5	D6S(3F)2F	71964.710	2.5	4P(3D)4P	592.4622	-1.868	104411.690	4.5	5D(5D)6D	87537.652	3.5	48F(5G)6F
586.4543	-6.545	21812.055	1.5	D6S(3P)4F	38858.958	2.5	4P(5D)6D	592.6371	-2.472	78843.992	0.5	5S(5D)6D	61974.933	1.5	48F(7S)6P
586.5032	-1.445	86599.738	2.5	4D(5D)4F	103645.220	1.5	4P(5D)2[2]	592.8321	-2.256	104828.160	2.5	5D(5D)6D	87964.650	1.5	48F(5P)6D
586.5066	-4.443	44929.550	2.5	D6S(1F)2F	61974.933	1.5	48F(7S)6P	592.8887	-4.559	81734.750	3.5	D5S2(7S)2F	98596.650	4.5	48F(5D)4F
586.6261	-3.821	78725.790	1.5	5S(5D)6D	95767.700	0.5	48F(5P)4D	592.9179	-2.604	78185.030	3.5	D5S2(7S)2G	95046.100	2.5	4P(3F)2F
587.0839	-6.661	21430.359	5.5	D6S(3H)4H	38458.981	4.5	4P(5D)6D	592.9910	-3.204	104571.110	0.5	5D(5D)6D	87898.120	0.5	48F(5G)6F
587.0986	-3.956	78185.030	3.5	D5S2(7S)2G	61156.835	3.5	4P(3H)4H	593.0189	-1.680	105711.730	2.5	5D(5D)6S	88853.533	3.5	5P(5D)6D
587.1799	0.009	104366.820	6.5	5D(5D)6G	87340.983	5.5	48F(5G)6F	593.0353	-3.438	50142.786	2.5	D6S(3F)4F	67000.517	2.5	4P(3F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
593.0899	-1.822	105065.630	3.5	5D (5D)6G	88209.450	3.5	4SP(5P)6D	599.4706	-2.667	78725.790	1.5	5S (5D)6D	62049.025	2.5	4SP(7S)6P
593.1656	-1.372	104426.460	2.5	5D (5D)6F	87572.431	2.5	4SP(5G)6F	599.4768	-5.981	25981.629	3.5	D6S (3G)4G	42658.224	3.5	4P (5D)6P
593.2055	-5.052	25805.328	4.5	D6S (3G)4G	42658.224	3.5	4P (5D)6P	599.5844	-3.664	73393.745	4.5	D5S2(7S)4F	90067.347	4.5	5P (3D)6F
593.2651	-4.657	78577.280	4.5	D5S2(7S)2G	61726.077	3.5	4P (3P)4D	599.8658	-1.931	104630.430	1.5	5D (5D)6P	87964.650	1.5	4SP(5P)6D
593.2909	-4.634	73637.340	1.5	D5S2(7S)4F	90487.810	2.5	5P (5D)6F	599.9378	-2.095	104873.230	3.5	5D (5D)4D	88209.450	3.5	4SP(5P)6D
593.5439	-1.360	104380.940	3.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F	600.1081	-0.917	104868.500	4.5	5D (5D)6G	88209.450	3.5	4SP(5P)6D
593.6277	-4.808	82853.658	5.5	4D (5D)6F	66012.750	4.5	4P (3G)4F	600.1971	-0.514	81734.750	3.5	D5S2(7S)2F	88209.450	3.5	4SP(5P)6D
593.8354	-4.989	105449.540	3.5	5D (5D)4G	88614.520	4.5	4SP(5P)6D	600.2900	-1.409	86710.837	1.5	4D (5D)4F	103364.840	2.5	4F(5D)3[3]
594.1372	-7.220	27620.412	2.5	D6S (3F)2F	44446.878	3.5	4P (5D)4D	600.3541	-8.090	25787.598	1.5	D6S (3F)2P	90042.779	4.5	4P (3F)4G
594.2169	-3.221	104426.460	2.5	5D (5D)6F	87602.250	1.5	4SP(5G)6F	600.4691	-4.115	73393.745	4.5	D5S2(7S)4F	90042.779	4.5	4P (3F)4G
594.4303	-1.049	86599.738	2.5	4D (5D)4F	103417.910	1.5	4F(5D)3[1]	600.5771	-3.149	104705.420	3.5	5D (5D)6D	88059.380	2.5	4SP(5P)6D
594.4379	-2.499	73393.745	4.5	D5S2(7S)4F	90211.700	5.5	4P (3F)4G	601.0498	-3.142	108804.667	3.5	5S (3D)4D	92171.716	4.5	4P (3F)2G
594.4399	-0.891	86124.301	4.5	4D (5D)4F	10294.200	3.5	4F(5D)4[3]	601.12856	-1.799	85728.806	1.5	4D (5D)4S	92171.716	4.5	4P (3F)2G
594.5831	-2.425	104873.230	3.5	5D (5D)4D	88059.380	2.5	4SP(5P)6D	601.3347	-3.995	104734.750	3.5	D5S2(7S)2F	65109.679	3.5	4P (3F)2G
594.6236	-3.828	50187.813	3.5	D6S (3F)4F	67000.517	2.5	4P (3F)2D	601.3712	-2.804	104588.710	1.5	5D (5D)6D	87964.650	1.5	4SP(5P)6D
594.6828	-4.320	44915.046	3.5	D6S (1F)2F	61726.077	3.5	4P (3P)4D	601.3889	-4.566	100492.020	3.5	5S (3F)2F	83867.184	4.5	4P (1F)2D
594.7720	-2.261	104380.940	3.5	5D (5D)6F	87572.431	2.5	4SP(5G)6F	601.4879	-3.833	100492.020	3.5	5S (3F)2F	83867.184	4.5	4P (1F)2D
594.7755	-3.483	73492.215	3.5	D5S2(7S)4F	90300.625	3.5	5P (5D)6F	601.5648	-1.773	104828.160	2.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D
594.8427	-0.176	86599.738	2.5	4D (5D)4F	103406.250	2.5	4F(5D)3[2]	601.5729	-2.863	80177.975	1.5	5S (5D)4D	63559.488	0.5	4P (3F)4D
594.8896	-4.162	81639.260	2.5	D5S2(7S)2F	64834.073	1.5	4P (3P)2P	601.7461	-7.236	25787.598	1.5	D6S (3F)2P	42401.302	1.5	4P (5D)6F
595.1963	-4.845	44929.550	2.5	D6S (1F)2F	61726.077	3.5	4P (3P)4D	601.7891	-2.635	79885.493	2.5	5S (5D)4D	63272.976	2.5	4P (3F)4D
595.2310	-2.324	48039.090	2.5	D7 (5D)2D	64834.073	1.5	4P (3P)2P	601.8945	-1.167	103950.590	4.5	5D (5D)6F	87340.983	5.5	4SP(5G)6F
595.3404	-2.400	104757.110	0.5	5D (5D)6D	87964.650	1.5	4SP(5P)6D	601.9543	-1.012	86416.333	3.5	4D (5D)4F	103024.290	2.5	4F(5D)4[2]
595.3726	-3.225	86599.738	2.5	4D (5D)4F	103391.290	1.5	4F(5D)3[2]	602.1212	-7.103	22409.852	0.5	D6S (3P)4P	42658.224	3.5	4P (5D)6P
595.5096	-4.622	50212.826	2.5	D6S (3F)4F	67000.517	2.5	4P (3F)4D	602.2360	-3.914	78725.790	1.5	5S (5D)6D	63272.976	2.5	4P (3F)2D
595.5508	-2.868	80346.016	0.5	5S (5D)4D	63559.488	0.5	4P (3F)4D	602.2630	-3.914	78725.790	1.5	5S (5D)6D	63272.976	2.5	4P (3F)2D
595.5698	-0.223	86599.738	2.5	4D (5D)4F	103385.730	3.5	4F(5D)3[3]	602.3304	-4.191	44915.046	3.5	D6S (1F)2F	61312.634	4.5	4P (3H)4I
595.8552	-3.518	79439.467	3.5	5S (5D)4G	96217.420	3.5	4SP(5P)4D	602.3655	-2.739	105211.140	4.5	5D (5D)4G	88614.520	4.5	4SP(5P)6D
595.8813	-3.068	105630.750	2.5	5D (5D)4G	88853.533	3.5	5P (5D)6D	602.3878	-3.040	105449.540	3.5	5D (5D)4G	88853.533	3.5	5P (5D)6D
596.1705	-0.686	86124.301	4.5	4D (5D)4F	102893.380	5.5	4F(5D)4[6]	602.4023	-1.830	103936.600	5.5	5D (5D)6F	87340.983	5.5	4SP(5G)6F
596.3119	-1.522	104828.160	2.5	5D (5D)6D	88059.380	2.5	4SP(5P)6D	602.5233	-1.830	105711.730	2.5	5D (5D)6S	89119.457	2.5	5P (5D)6D
596.3932	-0.911	86124.301	4.5	4D (5D)4F	103364.840	2.5	4F(5D)3[3]	602.8541	-0.696	105711.730	2.5	5D (5D)6S	89119.457	2.5	5P (5D)6D
596.5622	-0.088	86124.301	4.5	4D (5D)4F	102887.120	3.5	4F(5D)4[4]	602.8741	-0.925	104120.270	2.5	5D (5D)6P	89128.561	3.5	4SP(5G)6F
596.8191	-2.333	78725.790	1.5	5S (5D)6D	61974.933	4.5	4SP(7S)6P	603.0669	-4.886	85679.698	2.5	4D (5D)4G	69102.380	2.5	4SP(5S)4F
596.8643	-3.142	47674.721	1.5	D7 (5D)2D	64425.408	2.5	4P (3F)2F	603.1464	-4.829	73492.215	3.5	D5S2(7S)4F	90067.347	4.5	5P (5D)6F
596.9542	-9.924	79439.467	3.5	5S (5D)4D	62689.880	2.5	4P (3P)4D	603.2950	-2.592	104630.430	1.5	5D (5D)6P	88059.380	2.5	4SP(5P)6D
597.1446	-4.399	49506.934	1.5	D6S (3P)4F	66248.660	0.5	4P (3P)2S	603.8353	-3.812	79439.467	3.5	5S (5D)4D	95995.690	2.5	4SP(5P)4D
597.1740	-1.021	86599.738	2.5	4D (5D)4F	103340.640	3.5	4F(5D)3[4]	604.0450	-2.513	78525.407	2.5	5S (5D)6D	61974.933	1.5	4SP(5G)6F
597.4806	-2.255	104630.430	1.5	5D (5D)6P	87898.120	0.5	4SP(5G)6F	604.1412	-1.241	104120.270	2.5	5S (5D)6D	61974.933	1.5	4SP(5G)6F
597.6882	-0.330	86124.301	4.5	4D (5D)4F	102851.360	4.5	4F(5D)4[5]	604.1637	-7.122	25787.598	1.5	D6S (3P)2P	42334.822	2.5	4P (5D)6F
597.6902	-1.790	86710.837	1.5	4D (5D)4F	102851.360	4.5	4F(5D)4[5]	604.4545	-5.430	25428.784	5.5	D6S (3G)4G	41968.046	5.5	4P (5D)6F
597.9100	-4.898	85728.806	1.5	4D (5D)4S	103437.280	0.5	4F(5D)3[1]	604.5465	-2.608	50075.910	1.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F
597.9780	-4.180	78843.992	0.5	5S (5D)6D	102449.100	2.5	4SP(3D)2D	604.5816	-1.044	86416.333	3.5	4D (5D)4F	102952.120	2.5	4F(5D)4[3]
598.1757	-2.155	80177.975	1.5	5S (5D)4D	62125.600	1.5	4P (3P)2D	604.7732	-2.741	108804.667	3.5	5S (3D)4D	92274.120	2.5	4P (3P)4P
598.3771	-4.818	86710.837	1.5	4D (5D)4F	63465.109	1.5	4P (3F)4D	604.7775	-3.036	73393.745	4.5	D5S2(7S)4F	89924.175	5.5	5P (5D)6F
598.3831	-0.649	86710.837	1.5	4D (5D)4F	103418.080	0.5	4F(5D)3[0]	604.8085	-3.251	81639.260	2.5	D5S2(7S)2F	65109.679	3.5	4P (3F)2G
598.3851	-2.369	86124.301	4.5	4D (5D)4F	102831.320	5.5	4F(5D)3[1]	604.8177	-1.570	104588.710	1.5	5D (5D)6D	88059.380	2.5	4SP(5P)6D
598.5277	-4.372	84870.863	2.5	4D (5D)4D	101573.900	1.5	4SP(5D)4P	604.8282	-0.931	104000.810	3.5	5D (5D)6P	87471.765	4.5	4SP(5G)6F
598.6561	-8.080	22409.852	0.5	D6S (3P)4F	39109.307	0.5	4P (5D)6D	604.9445	-0.417	86416.333	3.5	4D (5D)4F	102942.200	3.5	4F(5D)4[3]
598.8011	-0.439	86710.837	1.5	4D (5D)4F	103406.250	2.5	4F(5D)3[2]	604.9575	-3.404	108804.667	3.5	5S (3D)4D	92282.460	3.5	4SP(5G)4F
598.9741	-2.055	104588.710	1.5	5D (5D)6D	87898.120	0.5	4SP(5G)6F	605.2035	-4.903	99824.045	2.5	5S (3F)4D	83305.251	3.5	4P (1F)2G
599.0595	-7.957	26932.748	0.5	D6S (3P)2P	43620.957	1.5	4P (5D)6P	605.2319	-3.345	104120.270	2.5	5D (5D)6P	87602.250	1.5	4SP(5G)6F
599.0711	-4.057	108804.667	3.5	5S (3D)4D	92116.780	4.5	4SP(5G)4H	605.3868	-4.049	78525.407	2.5	5S (5D)6D	95039.200	1.5	4P (3P)2P
599.1376	-3.781	25428.784	5.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	605.4613	-3.527	78577.280	4.5	D5S2(7S)2G	60265.520	1.5	4P (3F)4F
599.3381	-1.560	86710.837	1.5	4F(5D)3[2]	103391.290	1.5	4F(5D)3[2]	605.4669	-4.297	78237.685	3.5	5S (5D)6D	61726.077	3.5	4P (3P)4D
599.3810	-4.533	103608.909	4.5	5S (3G)2C	86929.649	3.5	4P (3P)4D	605.4873	-1.527	86599.738	2.5	4D (5D)4F	103110.790	1.5	4F(5D)4[1]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
605.7317	-4.253	108804.667	3.5	5S (3D)4D	92300.277	4.5	4SP(5D)6F	611.8201	-4.729	105063.550	5.5	4D (3F)4G	88723.400	4.5	5P (5D)6D
605.8062	-2.605	78577.280	4.5	D5S2(7S)2G	95079.640	3.5	4P (3F)2F	612.0321	-3.199	50187.813	2.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F
605.8125	-2.255	105630.750	2.5	D5S2(7S)2G	89128.561	3.5	4SP(5P)6F	612.1282	-2.850	79885.493	2.5	5S (5D)4G	96217.420	3.5	4SP(5D)4D
606.0409	-1.864	104705.420	3.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D	612.1475	-3.665	73395.930	2.5	D5S2(7S)4F	89727.342	2.5	4P (3F)4G
606.0970	-2.686	73395.930	2.5	D5S2(7S)4F	89890.373	3.5	4P (3F)4G	612.1973	-2.666	105449.540	3.5	5D (5D)4G	89119.457	2.5	5P (3D)6D
606.0975	-2.368	79439.467	3.5	5S (5D)4D	62945.038	3.5	4P (3F)4D	612.2658	-3.777	77861.625	4.5	5S (5D)6D	94189.880	5.5	4SP(5G)4G
606.1069	-2.738	78577.280	4.5	D5S2(7S)2G	62083.108	4.5	4P (3H)2G	612.4283	-1.990	86710.837	1.5	4D (5D)4F	103034.760	1.5	4F(5D)4[2]
606.3434	-3.024	105211.140	4.5	5D (5D)4G	88723.400	4.5	5P (5D)6D	612.5170	-1.508	104380.940	3.5	5D (5D)6F	89128.561	3.5	4SP(5P)6D
606.6714	-0.619	103950.590	4.5	5D (5D)6F	87471.765	4.5	4SP(5G)6F	612.5388	-2.929	105449.540	3.5	5D (5D)4G	88959.380	2.5	4SP(5P)6P
606.7614	-2.192	78525.407	2.5	5S (5D)6D	62049.025	2.5	4SP(7S)6P	612.8214	-2.407	86710.837	1.5	4D (5D)4F	103024.290	2.5	4F(5D)4[2]
606.8205	-3.126	108804.667	3.5	5S (3D)4D	92329.890	2.5	4SP(5G)4F	612.9703	-4.895	25805.328	4.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F
606.9675	-0.459	86416.333	3.5	4D (5D)4F	102887.120	3.5	4F(5D)4[4]	612.9707	-4.514	50212.826	2.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F
607.0013	-3.344	50142.786	2.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	613.0986	-4.362	50157.452	4.5	D6S (3F)4F	64663.528	5.5	4P (3G)4H
607.1426	-0.228	86416.333	3.5	4D (5D)4F	102882.370	4.5	4F(5D)4[4]	613.1219	-7.473	26352.766	4.5	D6S (3H)2H	42658.224	3.5	4P (5D)6P
607.1869	-1.508	103936.600	5.5	5D (5D)6F	87471.765	4.5	4SP(5G)6F	613.2585	-2.652	85728.806	1.5	4D (5D)4S	89426.980	0.5	4SP(5S)4P
607.2488	-0.868	104000.810	3.5	5D (5D)6P	87537.652	3.5	4SP(5G)6F	613.3439	-2.924	105630.750	2.5	5D (5D)4G	89331.195	1.5	5P (5D)6D
607.2555	-4.279	78237.685	3.5	5S (5D)6D	94700.660	2.5	4P (3F)2D	613.8023	-1.378	86599.738	2.5	4D (5D)4F	102887.120	3.5	4F(5D)4[4]
607.2985	-1.798	104426.460	2.5	5D (5D)6F	87964.650	1.5	4SP(5P)6D	613.8211	-3.498	77861.625	4.5	5S (5D)6D	94148.510	4.5	4SP(5G)4G
607.6935	-2.791	105065.630	3.5	5D (5D)6G	88614.520	4.5	4SP(5P)6D	614.1033	-5.352	26055.423	2.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F
607.8304	-1.655	78237.685	3.5	5S (5D)6D	94685.090	2.5	4SP(5D)6P	614.2981	-1.915	105127.770	2.5	5D (5D)4D	88853.533	3.5	5P (5D)6D
607.8677	-4.659	50075.910	1.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	614.3026	-4.366	77230.900	4.5	D5S2(7S)2H	60956.781	3.5	4P (3H)4G
608.2882	-0.691	86416.333	3.5	4D (5D)4F	102851.360	4.5	4F(5D)4[5]	614.5346	-3.096	99573.225	4.5	5S (3F)4F	83305.251	3.5	4P (1F)2G
608.4111	-4.037	25805.328	4.5	D6S (3G)4G	42237.033	3.5	4P (5D)6F	614.5611	-0.454	105711.730	2.5	5D (5D)6S	89444.458	2.5	4SP(5P)6P
608.5343	-4.005	104000.810	3.5	5D (5D)6P	87572.431	2.5	4SP(5G)6F	614.7741	-2.891	31364.440	1.5	D6S (3D)4D	47626.076	0.5	4P (5D)4P
608.5959	-2.095	85728.806	1.5	4D (5D)4S	69302.090	1.5	4SP(5S)4P	614.8565	-4.926	103600.440	6.5	4D (3H)4H	87340.983	5.5	4SP(5G)6F
608.6761	-1.003	86599.738	2.5	4D (5D)4F	103024.290	2.5	4F(5D)4[2]	614.8848	-1.533	104873.230	3.5	5D (5D)4D	88614.520	4.5	4SP(5P)6D
608.7088	-4.437	77230.900	4.5	D5S2(7S)2H	60807.230	4.5	4P (3H)4G	614.9258	-2.998	25981.629	3.5	D6S (3G)4G	47626.076	0.5	4P (5D)4P
608.8306	-2.807	79885.493	2.5	5S (5D)4D	63465.109	1.5	4P (3F)4D	615.0098	-4.998	78577.280	4.5	D5S2(7S)2G	62322.431	3.5	4P (3H)2G
608.8756	-4.065	78577.280	4.5	D5S2(7S)2G	62158.110	4.5	4P (3F)4D	615.0308	-3.555	104868.500	4.5	5D (5D)6G	88614.520	4.5	4SP(5P)6D
609.0372	-2.413	86710.837	1.5	4D (5D)4F	103125.650	0.5	4F(5D)4[1]	615.0751	-4.149	77230.900	4.5	D5S2(7S)2H	93484.580	4.5	4P (3F)4F
609.1068	-2.112	103950.590	4.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F	615.2156	-1.623	54273.641	4.5	D5S2(7S)4G	70523.706	3.5	4P (3G)2G
609.1158	-4.023	47674.721	1.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	615.2556	-4.582	104863.430	5.5	5D (5D)4G	88614.520	4.5	4SP(5P)6D
609.1907	-4.623	103751.660	5.5	4D (3H)4H	87340.983	5.5	4SP(5G)6F	615.3183	-3.875	48039.090	2.5	D7 (5D)2D	64286.345	3.5	4P (3F)2F
609.4679	-4.160	44929.550	2.5	D6S (1F)2F	61332.764	1.5	4P (3P)4P	615.5254	-6.646	44915.046	3.5	D6S (1F)2F	61156.835	3.5	4P (3H)4H
609.5429	-4.278	50187.813	3.5	D6S (3F)4F	66589.080	4.5	4P (3G)4H	615.5446	-2.624	86710.837	1.5	4D (5D)4F	102952.120	2.5	4F(5D)4[3]
609.5891	-1.914	86710.837	1.5	4D (5D)4F	103110.790	1.5	4F(5D)4[1]	615.6761	-1.683	78525.407	2.5	5S (5D)6D	94752.120	3.5	4SP(5D)6P
609.5945	-4.263	78525.407	2.5	5S (5D)6D	62125.600	1.5	4P (3P)2D	615.8019	-3.296	50142.786	2.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F
609.6437	-4.909	108648.695	6.5	5S (1F)2I	92250.210	6.5	4SP(5G)4H	616.0755	-3.780	44929.550	2.5	D6S (1F)2F	61156.835	3.5	4P (3H)4H
609.6558	-4.064	73492.215	3.5	D5S2(7S)4F	89890.373	3.5	4P (3F)4G	616.3587	-3.331	50157.452	4.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F
609.8106	-4.437	79885.493	2.5	5S (5D)4D	96279.490	2.5	4SP(3G)2F	616.4659	-0.887	104426.460	2.5	5D (5D)6F	88209.450	3.5	4SP(5P)6D
609.8505	-4.372	85495.304	2.5	4D (5D)6S	69102.380	2.5	4SP(5S)4P	616.5893	-1.828	78525.407	2.5	5S (5D)6D	94739.170	1.5	4SP(5P)4P
610.3117	-2.054	105711.730	2.5	5D (5D)6S	89331.195	1.5	5P (5D)6D	616.6527	-2.580	105065.630	3.5	5D (5D)6G	88853.533	3.5	5P (5D)6D
610.3496	-2.364	50142.786	2.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	617.0005	-8.164	30764.485	3.5	D6S (3G)2G	46967.444	2.5	4P (5D)4P
610.4179	-2.045	108804.667	3.5	5S (3D)4D	92426.980	4.5	4SP(5G)4F	617.0279	-1.741	104411.690	4.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D
610.5611	-4.652	85679.698	2.5	4D (5D)4G	69302.090	1.5	4SP(5S)4P	617.0384	-3.685	108804.667	3.5	5S (3D)4D	92602.703	3.5	4P (3F)2G
610.8135	-2.443	104426.460	2.5	5D (5D)6F	88059.380	2.5	4SP(5P)6D	617.2958	-4.146	78843.992	0.5	5S (5D)6D	95039.200	1.5	4P (3P)2P
611.0598	-4.105	85462.862	3.5	4D (5D)4G	69102.380	2.5	4SP(5S)4P	617.3718	-4.401	85495.304	2.5	4D (5D)6S	69302.090	1.5	4SP(5S)4P
611.1672	-2.240	105211.140	4.5	5D (5D)4G	88853.533	3.5	5P (5D)6D	617.4026	-4.359	88157.116	1.5	4D (5D)4P	71964.710	2.5	4P (3D)4P
611.3098	-3.041	78525.407	2.5	5S (5D)6D	62171.615	3.5	4SP(7S)6P	617.5146	-2.189	50187.813	3.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F
611.3103	-4.726	85048.602	1.5	4D (5D)4D	101402.380	0.5	4SP(5D)4P	617.5455	-2.054	78237.685	3.5	5S (5D)6D	62049.025	2.5	4SP(7S)6P
611.3322	-4.398	25981.629	3.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F	617.6358	-1.864	105630.750	2.5	5D (5D)4G	89444.458	2.5	4SP(5P)6P
611.3625	-1.072	86599.738	2.5	4D (5D)4F	102952.120	2.5	4F(5D)4[3]	617.8145	-6.418	26055.423	2.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F
611.6057	-4.935	26055.423	2.5	D6S (3G)4G	42401.302	1.5	4P (5D)6F	617.9344	-4.331	81794.750	3.5	D5S2(7S)2F	65556.280	4.5	4P (3H)2H
611.7021	-4.898	77230.900	4.5	D5S2(7S)2H	60887.598	5.5	4P (3H)4H	617.9384	-2.726	44915.046	3.5	D6S (1F)2F	61093.413	2.5	4P (3P)2D
611.7336	-1.264	86599.738	2.5	4D (5D)4F	102942.200	3.5	4F(5D)4[3]	618.0573	-4.515	78525.407	2.5	5S (5D)6F	94700.660	2.5	4P (3F)2D
611.7423	-4.575	105065.630	3.5	5D (5D)6G	88723.400	4.5	5P (5D)6D	618.2011	-1.155	104380.940	3.5	5D (5D)6F	88209.450	3.5	4SP(5P)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
618.3923	-3.008	79439.467	3.5	5S (5D)4D	63272.976	2.5	4P (3F)4D	624.7557	-2.501	31387.948	2.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P
618.4701	-4.332	50212.826	2.5	D6S (3P)4P	66377.283	3.5	4P (3G)4F	624.7570	-4.062	48039.090	2.5	D7 (5D)2D	64040.886	3.5	4P (3F)4G
618.4929	-4.374	44929.550	2.5	D6S (1F)2F	61093.413	2.5	4P (3F)2D	624.8059	-9.775	27620.412	2.5	D6S (3F)2F	43620.957	1.5	4P (5D)6P
618.5367	-6.141	25805.328	4.5	D6S (3G)4G	41968.046	5.5	4P (5D)6F	624.8581	-1.596	103127.770	2.5	5D (5D)4D	89128.561	3.5	4SP(5P)6P
618.6528	-2.011	78525.407	2.5	5S (5D)6D	94685.090	2.5	4SP(5D)6P	624.8898	-3.191	60445.275	2.5	D5S2(7S)4D	44446.878	3.5	4P (5D)4D
618.8084	-2.086	104120.270	2.5	5D (5D)6P	87964.650	1.5	4SP(5P)4P	625.2915	-3.662	88157.116	1.5	4D (5D)4P	72168.998	1.5	4P (3D)4F
618.8341	-2.066	78725.790	1.5	5S (5D)6D	94880.740	0.5	4SP(5P)4P	625.4475	-1.642	87985.628	2.5	4D (5D)4P	103969.760	3.5	4F(5D)1[3]
619.0303	-1.699	88723.230	3.5	5D (5D)4D	88723.400	4.5	5P (5D)6D	625.5301	-2.265	104705.420	3.5	5D (5D)6D	88723.400	4.5	5P (5D)6D
619.1770	-3.708	88189.030	0.5	4D (5D)4P	72043.026	1.5	4P (3D)4P	625.5346	-6.103	23031.300	1.5	D6S (3F)4F	39013.206	1.5	4P (5D)6D
619.2116	-2.278	104868.500	4.5	5D (5D)6D	88723.400	4.5	5P (5D)6D	625.6581	-1.097	104593.270	5.5	5D (5D)6G	88614.520	4.5	4SP(5P)6D
619.4062	-2.087	104863.430	5.5	5D (5D)4G	88723.400	4.5	5P (5D)6D	625.7638	-3.087	88189.030	0.5	4D (5D)4P	72212.978	0.5	4P (3D)4P
619.6688	-6.120	25981.629	3.5	D6S (3G)4G	42114.818	2.5	4P (5D)6F	625.8196	-1.369	104828.160	2.5	5D (5D)6D	88853.533	3.5	5P (5D)6D
619.9181	-3.693	44915.046	3.5	D6S (1F)2F	61041.748	2.5	4P (3H)4G	625.8420	-2.727	78237.685	3.5	5S (5D)6D	94211.739	2.5	4SP(5P)4P
619.9515	-1.570	77861.625	4.5	5S (5D)6D	93987.457	3.5	4SP(5D)6D	625.9007	-3.862	79885.493	2.5	5S (5D)4D	94585.050	1.5	4SP(5P)4P
620.1947	-4.184	78185.030	3.5	D5S2(7S)2G	62065.521	3.5	4P (3F)4F	625.9363	-1.987	105065.630	3.5	5D (5D)6G	82114.818	4.5	4P (5D)6F
620.3066	-4.708	81734.750	3.5	D5S2(7S)2G	92695.374	2.5	4P (3P)2D	626.9967	-4.965	28170.181	5.5	D6S (3H)2H	42114.818	4.5	4P (5D)6F
620.4033	-3.038	88157.116	1.5	4D (5D)4P	62083.108	4.5	4P (3H)2G	627.0163	-3.224	88157.116	1.5	4D (5D)4P	72212.978	0.5	4P (3D)4P
620.4761	-4.110	44929.550	2.5	D6S (1F)2F	70314.604	4.5	4P (3G)2G	627.0767	-2.935	87985.628	2.5	4D (5D)4P	72043.026	1.5	4P (3D)4P
620.5532	-4.598	79885.493	2.5	5S (5D)4D	86164.333	3.5	4D (5D)4F	627.1562	-3.874	58666.258	3.5	D6S (1G)2G	74606.841	2.5	4P (3D)2D
620.5880	-3.819	108804.667	3.5	5S (3D)4D	86164.333	3.5	4D (5D)4F	627.1944	-2.325	105065.630	3.5	5D (5D)6G	89128.561	3.5	4SP(5P)6P
620.8721	-4.573	78185.030	3.5	D5S2(7S)2G	89119.457	2.5	5P (5D)6D	627.2944	-3.940	50142.270	2.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G
620.8795	-4.192	86416.333	3.5	4D (5D)4P	89625.940	1.5	4SP(5P)6P	627.8225	-9.722	27314.922	3.5	D6S (3F)2F	43238.586	2.5	4P (5D)6P
621.3106	-3.947	80177.975	1.5	5S (5D)4D	64087.418	2.5	4P (3F)4G	627.8825	-3.906	88157.116	1.5	4D (5D)4P	72238.513	2.5	4P (3D)4F
621.3321	-2.815	73637.340	1.5	D5S2(7S)4F	89727.342	2.5	4P (3F)4D	628.0221	-3.662	78577.280	4.5	D5S2(7S)2G	62662.244	5.5	4P (3H)2I
621.4738	-4.177	105205.790	2.5	5D (5D)6G	89128.561	3.5	4SP(5P)6P	628.1629	-4.687	88157.116	1.5	4D (5D)4P	72238.513	2.5	4P (3D)4F
621.4948	-0.375	105711.730	2.5	5D (5D)6S	89625.940	1.5	4SP(5P)6P	628.3293	-1.369	104120.270	2.5	5D (5D)6P	88209.450	3.5	4SP(5P)6D
621.6188	-2.397	105211.140	4.5	5D (5D)4G	89128.561	3.5	4SP(5P)6P	628.5408	-4.285	108804.667	3.5	5S (3D)4D	92899.120	2.5	4P (3F)4D
621.7956	-6.332	23031.300	1.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H	628.7927	-2.981	105230.290	0.5	5D (5D)4D	89331.195	1.5	5P (5D)6D
621.8257	-3.371	105205.790	2.5	5D (5D)6G	39013.206	1.5	4P (5D)6D	628.9477	-1.942	77230.900	4.5	D5S2(7S)2H	93129.900	3.5	4P (3F)4D
621.9481	-3.641	77230.900	4.5	D5S2(7S)2H	62171.615	3.5	4SP(7S)6P	628.9655	-3.682	87985.628	2.5	4D (5D)4P	103882.680	3.5	4F(5D)1[4]
621.9565	-5.669	22939.358	2.5	D6S (3F)4F	88059.380	2.5	4SP(5P)6D	628.9735	-0.753	87985.628	2.5	4D (5D)4P	103882.680	3.5	4F(5D)1[4]
622.2576	-2.276	78237.685	3.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	629.0662	-3.817	44915.046	3.5	D6S (1F)2F	60807.230	4.5	4P (3H)4G
622.4583	-2.125	104120.270	2.5	5D (5D)6P	88059.380	2.5	4SP(5P)6D	629.1830	0.327	88157.116	1.5	4D (5D)4P	104046.350	2.5	4P (3F)4D
622.4648	-0.591	87985.628	2.5	4D (5D)4P	104046.350	2.5	4F(5D)0[3]	629.3599	-4.914	47674.721	1.5	D7 (5D)2D	63559.488	0.5	4P (3F)4D
622.8200	-4.009	127219.500	4.5	4P(7P)8P	91167.937	3.5	5P (5D)6P	629.3797	-5.693	26352.766	4.5	D6S (3H)2H	42237.033	3.5	4P (5D)6F
622.9349	-5.217	20810.357	3.5	D6S (3F)4F	38858.958	2.5	4P (5D)6P	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
622.9455	-4.628	48039.090	2.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.2016	-4.861	44915.046	3.5	D6S (1F)2F	60956.781	3.5	4P (3H)4G	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.3190	-4.375	81734.750	3.5	D5S2(7S)2F	65696.038	4.5	4P (3G)4G	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.3534	-3.187	60270.339	3.5	D5S2(7S)4D	44232.512	4.5	4P (5D)4F	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.3754	-0.756	87985.628	2.5	4D (5D)4P	104022.890	3.5	4F(5D)0[3]	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.3954	-2.560	78843.992	0.5	5S (5D)6D	94880.740	0.5	4SP(5P)4P	629.4144	-1.159	87985.628	2.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]
623.5229	-4.131	88185.030	3.5	D5S2(7S)2G	62151.561	2.5	4P (3F)4F	629.9170	-3.014	85172.809	0.5	4D (5D)4D	69302.090	1.5	4SP(5S)4P
623.7655	-3.912	44929.550	2.5	D6S (1F)2F	60956.781	3.5	4P (3H)4G	629.9307	-1.831	104593.270	5.5	5D (5D)6G	88723.400	4.5	5P (5D)6D
623.7803	-2.687	99332.102	4.5	5S (3H)2H	83305.251	3.5	4P (1F)2G	630.2601	-3.093	78185.030	3.5	D5S2(7S)2G	62322.431	3.5	4P (3H)2G
623.8392	-2.799	31364.440	1.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P	630.2601	-3.093	78185.030	3.5	D5S2(7S)2G	62322.431	3.5	4P (3H)2G
623.9366	-4.940	22637.205	4.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D	630.5296	-2.214	50157.452	4.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F
623.9953	-3.607	31368.450	0.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P	630.6653	-1.263	104705.420	3.5	D6S (3F)4F	88853.533	3.5	4P (3G)4F
624.0113	-2.650	87985.628	2.5	4D (5D)4P	71964.710	2.5	4P (3D)4P	630.7329	-5.532	22810.357	3.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D
624.0589	-1.552	104873.230	3.5	5D (5D)4D	88853.533	3.5	5P (5D)6D	630.9357	-4.671	85728.806	1.5	4D (5D)4S	101573.900	1.5	4SP(5D)4P
624.2432	-3.017	104868.500	4.5	5D (5D)6G	88853.533	3.5	5P (5D)6D	630.9357	-4.671	85728.806	1.5	4D (5D)4S	101573.900	1.5	4SP(5D)4P
624.3051	-3.728	78725.790	1.5	5S (5D)6D	94739.170	1.5	4SP(5P)4P	631.3158	-4.304	78237.685	3.5	5S (5D)6D	64040.886	3.5	4P (3F)4G
624.5027	-1.293	105127.770	2.5	5D (5D)4D	89119.457	2.5	5P (5D)6D	631.3169	-4.472	78525.407	2.5	5S (5D)6D	94073.240	3.5	4SP(5G)4G
624.6288	-3.585	105449.540	3.5	5D (5D)4G	89444.458	2.5	4SP(5P)6P	631.5048	-0.838	88157.116	1.5	4D (5D)4P	103987.930	2.5	4F(5D)1[3]
624.6394	-1.911	105630.750	2.5	5D (5D)4G	89625.940	1.5	4SP(5P)6P	631.6307	-6.764	23031.300	1.5	D6S (3F)4F	38858.958	2.5	4P (5D)6D
624.7351	-2.235	50075.910	1.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G	631.7394	-2.384	50187.813	3.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F
624.7373	-1.322	87985.628	2.5	4D (5D)4P	103987.930	2.5	4F(5D)1[3]	631.7983	-2.488	60270.339	3.5	D5S2(7S)4D	44446.878	3.5	4P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
631.8656	-6.325	22637.205	4.5	D6S (3F)4F	38458.981	4.5	4P (5D)6D	637.3215	-3.248	78525.470	2.5	5S (5D)6D	94211.739	2.5	4SP(5P)4P	
631.9330	-1.122	78237.685	3.5	5S (5D)6D	94057.773	4.5	4SP(5D)6D	637.4442	-3.745	105127.700	2.5	5D (5D)4D	89444.458	2.5	4SP(5P)6P	
632.0278	-3.152	80177.975	1.5	5S (5D)4D	95995.690	2.5	4SP(5P)4D	637.4544	-2.940	87985.628	2.5	4D (5D)4P	103668.690	1.5	4F(5D)2[1]	
632.0498	-2.830	105288.530	1.5	5D (5D)6G	89471.365	0.5	5P (5D)6D	637.5758	-3.753	80177.975	1.5	5S (5D)4D	93588.020	1.5	4SP(5P)4D	
632.0502	-4.713	99688.337	3.5	5S (3F)4F	83871.184	4.5	4P (1F)2G	637.5792	-0.069	88189.030	0.5	4D (5D)4P	103869.050	1.5	4F(5D)1[2]	
632.0711	-3.836	87985.628	2.5	4D (5D)4F	72168.998	1.5	4P (3D)4F	637.7679	-0.680	108804.667	3.5	4D (5D)4P	103660.980	2.5	4F(5D)2[2]	
632.3213	-4.740	88157.116	1.5	4D (5D)4F	103967.490	0.5	4SP(3P)2S	637.7917	-2.782	88189.030	0.5	4D (5D)4P	93129.900	3.5	4P (3F)4D	
632.5997	-4.568	81734.750	3.5	D5S2(7S)2F	65931.334	3.5	4P (3G)4G	638.2112	-2.848	88189.030	0.5	4D (5D)4P	72524.566	1.5	4P (3D)4D	
632.6107	-4.651	78185.030	3.5	D5S2(7S)2G	93988.170	2.5	4SP(5G)4G	638.2876	-3.382	105288.530	1.5	5D (5D)6G	89625.960	1.5	4SP(5P)6P	
632.8219	-6.697	26170.181	5.5	D6S (3H)2H	41968.046	5.5	4P (5D)6F	638.3722	-2.760	60445.275	2.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	
632.8498	-0.285	104411.690	4.5	5D (5D)6D	88614.520	4.5	4SP(5P)6D	638.4098	-1.071	87985.628	2.5	4D (5D)4P	103645.220	1.5	4F(5D)2[2]	
632.8736	-1.902	105127.770	2.5	5D (5D)4D	89331.195	1.5	5P (5D)6D	638.4934	-0.665	104380.940	3.5	5D (5D)6F	88723.400	4.5	4P (5D)6D	
632.8925	-4.321	77861.625	4.5	5S (5D)6D	62065.521	3.5	4P (3F)4F	638.5451	-3.109	60441.033	1.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	
633.0826	-0.953	104000.810	3.5	5D (5D)6P	88209.450	3.5	4SP(5P)6D	638.6714	-2.631	54870.528	2.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	
633.1954	-2.135	50142.786	2.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	638.8572	-7.320	22810.357	3.5	D6S (3F)4F	38458.981	4.5	4P (5D)6D	
633.7841	-4.290	50157.452	4.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	639.0536	-3.942	57411.065	2.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F	
633.8109	-4.620	54232.195	5.5	D5S2(7S)4G	38458.981	4.5	4P (5D)6D	639.2024	-3.834	79439.467	3.5	5S (5D)4D	95079.640	3.5	4P (3F)2F	
634.0011	-2.243	84870.863	2.5	4D (5D)4D	69102.380	2.5	4SP(5S)4F	639.4512	-2.448	105524.461	4.5	4D (3F)4H	89890.373	3.5	4P (3F)4G	
634.0841	-0.493	104380.940	3.5	5D (5D)6F	88614.520	4.5	4SP(5P)6D	639.4710	-3.386	87985.628	2.5	4D (5D)4P	72352.024	3.5	4P (3D)4F	
634.2598	-6.418	26332.766	4.5	D6S (3H)2H	42114.818	4.5	4P (5D)6F	639.5141	-3.599	88157.116	1.5	4D (5D)4P	72524.566	1.5	4P (3D)4D	
634.2888	-2.846	105205.790	2.5	5D (5D)6G	89444.458	2.5	4SP(5P)6P	639.5267	-3.969	78577.280	4.5	D5S2(7S)2G	62945.038	3.5	4P (3F)4D	
634.3698	-3.785	88189.030	0.5	4D (5D)4F	72429.711	0.5	4P (3D)4D	639.6277	-3.881	103265.694	0.5	6S (5D)4D	87635.920	0.5	4SP(5P)6D	
634.3856	-2.688	105230.290	0.5	5D (5D)4D	89471.365	0.5	5P (5D)6D	639.7812	-4.860	77861.625	4.5	5S (5D)6D	93487.650	3.5	4P (3F)4F	
634.5931	-1.938	104873.230	3.5	5D (5D)4D	89119.457	2.5	5P (5D)6D	639.9069	-4.350	77861.625	4.5	5S (5D)6D	93484.580	4.5	4P (3F)4F	
634.7256	-4.902	78237.685	3.5	5S (5D)6D	93988.170	2.5	4SP(5G)4G	639.9615	-2.518	85048.602	1.5	4D (5D)4D	89426.980	0.5	4SP(5S)4F	
634.7543	-0.977	78237.685	3.5	5S (5D)6D	93988.170	2.5	4SP(5P)6P	639.9799	-1.338	105065.630	3.5	5D (5D)6G	89444.458	2.5	4SP(5P)6P	
634.8614	-4.657	87985.628	2.5	4D (5D)4F	72238.513	2.5	4P (3D)4F	640.0491	-3.859	54904.222	3.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	
634.8857	-2.359	85048.602	1.5	4D (5D)4D	69302.090	1.5	4SP(5S)4F	640.1028	-8.601	27620.412	2.5	D6S (3F)2F	43238.586	2.5	4P (5D)6P	
634.9133	-2.474	85172.809	0.5	4D (5D)4D	69426.980	0.5	4SP(5S)4F	640.1110	-4.368	82978.677	4.5	4D (5D)6F	41968.046	5.5	4P (5D)6F	
634.9601	-0.544	104873.230	3.5	5D (5D)4D	89128.561	3.5	4SP(5P)6P	640.2214	-8.501	26352.766	4.5	D6S (3H)2H	41968.046	5.5	4P (5D)6F	
635.0064	-4.753	50187.813	3.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	640.4123	-3.704	57578.484	0.5	D5S2(7S)4D	73189.110	1.5	4P (3D)2P	
635.0277	-3.849	82853.658	5.5	4D (5D)6F	98596.650	4.5	4SP(5D)4F	640.4874	-3.647	57578.484	0.5	D5S2(7S)4D	73187.280	0.5	4P (3D)2P	
635.1509	-1.697	104868.500	4.5	5D (5D)6G	89128.561	3.5	4SP(5P)6P	640.6398	-2.914	57411.065	2.5	D5S2(7S)4D	73016.147	3.5	4P (1G)2F	
635.4271	-4.154	49100.976	0.5	D6S (3F)4F	64834.073	1.5	4P (3P)2P	640.7251	-3.864	13364.440	1.5	D6S (3D)4D	46967.444	2.5	4P (5D)4F	
635.4624	-3.472	57411.065	2.5	D5S2(7S)4F	73143.288	3.5	4P (1G)2G	640.8835	-4.685	79885.493	2.5	5S (5D)4D	64286.345	3.5	4P (3F)2F	
635.6571	-2.978	88157.116	1.5	4D (5D)4F	72429.711	0.5	4P (3D)4F	641.1241	-1.544	78237.685	3.5	5S (5D)6D	93830.979	2.5	4SP(5D)6D	
635.7162	0.166	87985.628	2.5	4D (5D)4F	103711.570	3.5	4F(5D)2[4]	641.2709	-4.723	80177.975	1.5	5S (5D)4D	95767.700	0.5	4SP(5P)4D	
635.8756	-4.664	81734.750	3.5	D5S2(7S)2F	66012.750	4.5	4P (3G)4F	641.4237	-0.971	104705.420	3.5	5D (5D)6D	89119.457	2.5	5P (5D)6D	
635.9288	-6.623	22939.358	2.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D	641.5551	-1.791	84685.198	3.5	5D (5D)6G	69102.380	2.5	4SP(5P)4D	
635.9366	-3.492	105763.270	5.5	4D (3F)2H	90042.779	4.5	4P (3F)4G	641.6773	-2.477	105205.790	2.5	5D (5D)6G	89625.940	1.5	4SP(5P)6P	
636.0266	-3.950	77230.900	4.5	D5S2(7S)2H	103698.440	2.5	4F(5D)2[3]	641.6919	-2.910	13187.948	2.5	D6S (3D)4D	46967.444	2.5	4P (5D)4F	
636.2474	-0.572	87985.628	2.5	4D (5D)4F	73189.110	1.5	4P (3D)2P	641.8006	-0.681	104705.420	3.5	5D (5D)6D	89128.561	3.5	4SP(5P)6P	
636.2842	-0.843	88157.116	1.5	4D (5D)4F	61512.634	4.5	4P (3H)4I	641.9626	-0.216	104426.460	2.5	5D (5D)6F	88853.533	3.5	5P (5D)6D	
636.4138	-0.629	104828.160	2.5	5D (5D)6D	103869.020	1.5	4F(5D)1[2]	642.1339	-2.146	84870.863	2.5	4D (5D)4D	69302.090	1.5	4SP(5S)4F	
636.6839	-0.883	99573.225	4.5	5S (3F)4F	83871.184	4.5	4P (1F)2G	642.3445	-4.901	105291.010	3.5	4D (3F)4G	89727.342	2.5	4P (3F)4G	
636.7413	-0.742	88157.116	1.5	4D (5D)4F	103857.740	2.5	4F(5D)1[2]	642.4315	-4.434	57493.321	1.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F	
636.7829	-0.718	104828.160	2.5	5D (5D)6D	89128.561	3.5	4SP(5P)6P	642.4550	-4.244	81639.260	2.5	D5S2(7S)2F	66078.269	2.5	4P (3G)4G	
636.9375	-3.774	57493.321	1.5	D5S2(7S)4F	73189.110	1.5	4P (3D)2P	642.5720	-0.487	104411.690	4.5	5D (5D)6D	88853.533	3.5	5P (5D)6D	
636.9462	-4.432	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	642.6127	-4.628	82978.677	4.5	4D (5D)6F	98535.850	3.5	4SP(5D)4F	
637.0117	-4.391	57493.321	1.5	D5S2(7S)4F	73187.280	0.5	4P (3D)2P	643.0758	-3.527	103118.400	1.5	6S (5D)4D	87572.431	2.5	4SP(5G)6F	
637.1125	-3.642	60445.275	2.5	D5S2(7S)4D	44753.799	3.5	4P (5D)4F	643.2680	-3.888	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	4P (5D)6D	
637.1257	-0.947	87985.628	2.5	4D (5D)4F	103676.780	3.5	4F(5D)2[3]	643.2680	-1.110	88157.116	1.5	4D (5D)4D	103698.440	2.5	4F(5D)2[3]	
637.1721	-1.748	77861.625	4.5	5S (5D)6D	643.1271	6.15	3.5	4SP(7S)6P	643.3562	-4.836	77861.625	4.5	5S (5D)6D	62322.431	3.5	4P (3H)2G
637.2369	-4.754	60441.033	1.5	D5S2(7S)4D	76129.446	1.5	4P (1S)2P	643.3814	-2.814	50157.452	4.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	
637.2419	-0.628	104411.690	4.5	5D (5D)6D	88723.400	1.5	5P (5D)6D	643.4211	-2.716	88157.116	1.5	4D (5D)4D	72619.030	2.5	4P (3D)4D	
637.2909	-4.928	81639.260	2.5	D5S2(7S)2F	97326.270	1.5	4SP(3P)2P	643.7519	-4.425	84870.863	2.5	4D (5D)4D	100400.360	2.5	4SP(3P)2D	
637.3039	-2.995	105414.180	2.5	4D (3F)4G	89727.342	2.5	4P (3F)4G	643.8446	-1.330	104380.940	3.5	5D (5D)6F	88853.533	3.5	5P (5D)6D	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
643.9939	-4.286	105414.180	2.5	4D (3F)4G	89890.373	3.5	4P (3F)4G	651.0283	-2.411	105398.852	5.5	4D (3F)4H	90042.779	4.5	4P (3F)4G
644.1891	-2.677	88157.116	1.5	4D (5D)4P	103676.220	0.5	4F(5D)2[1]	651.0733	-0.466	87985.628	2.5	4D (5D)4P	103340.640	3.5	4F(5D)3[4]
644.2955	-3.356	60270.339	3.5	D5S2(7S)4D	44753.799	3.5	4P (5D)4F	651.5447	-4.850	80177.975	1.5	5S (5D)4D	64834.073	1.5	4P (3P)2P
644.3117	-3.012	103118.400	1.5	6S (5D)4D	87602.250	1.5	4SP(5G)6F	651.5702	-9.378	27314.922	3.5	D6S (3F)2F	42658.224	3.5	4P (5D)6P
644.4827	-4.004	80346.016	0.5	5S (5D)4D	95858.050	1.5	4SP(5P)4D	651.6081	-3.633	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D
644.5018	-1.027	88157.116	1.5	4D (5D)4P	103668.690	1.5	4F(5D)2[1]	651.7018	-3.239	60384.370	0.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4G
644.5268	-1.811	104630.430	1.5	5D (5D)6D	89119.457	2.5	5P (5D)6D	651.7832	-4.547	105065.630	3.5	5D (5D)6G	89727.342	2.5	4P (3F)4G
644.6410	-2.206	50187.813	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	651.7854	-2.776	58631.531	4.5	D6S (1G)2G	73969.767	5.5	4P (1.1)2I
644.6888	-7.938	26932.748	0.5	D6S (3P)2P	42439.822	0.5	4P (5D)6F	651.8774	-0.072	103950.590	4.5	5D (5D)6F	88614.520	4.5	4SP(5P)6D
644.7824	-4.807	77230.900	4.5	D5S2(7S)2H	61726.077	3.5	4P (3P)4D	652.0117	-4.631	54273.641	4.5	D5S2(7S)4G	90067.347	4.5	5P (3D)2F
644.8223	-1.800	88157.116	1.5	4D (5D)4P	103660.980	2.5	4F(5D)2[2]	652.0715	-4.860	105398.852	5.5	4D (3F)4H	90067.347	4.5	5P (3D)2F
644.9069	-1.405	105127.770	2.5	5D (5D)4D	89625.940	1.5	4SP(5P)6P	652.1104	-4.419	60270.339	3.5	D5S2(7S)4D	75600.931	3.5	4P (5D)6F
645.1094	-0.435	104828.160	2.5	5D (5D)6D	89331.195	1.5	5P (5D)6D	652.1104	-4.419	60270.339	3.5	D5S2(7S)4D	75600.931	3.5	4P (5D)6F
645.1512	-4.867	78577.280	4.5	D5S2(7S)2G	94073.240	3.5	4SP(5G)4G	652.1302	-2.082	105630.750	2.5	5D (5D)4G	90300.625	3.5	5P (5D)6F
645.3712	-3.592	79439.467	3.5	5S (5D)4D	63948.790	4.5	4P (3F)4G	652.4014	-3.279	79439.467	3.5	5S (5D)4D	94763.219	3.5	4SP(5D)6P
645.4784	-2.256	88157.116	1.5	4D (5D)4P	103645.220	1.5	4F(5D)2[2]	652.4726	0.250	103936.600	5.5	5D (5D)6F	88614.520	4.5	4SP(5P)6D
645.5121	-4.414	44915.046	3.5	D6S (1F)2F	60402.342	2.5	4P (3P)4P	652.5286	-4.510	105211.140	4.5	5D (5D)4G	89890.373	3.5	4P (3F)4G
645.5165	-0.411	88189.030	0.5	4D (5D)4P	103676.220	0.5	4F(5D)2[1]	652.5575	-3.029	108804.667	3.5	5S (3D)4D	93484.580	4.5	4P (3F)4F
645.5683	-2.756	78725.790	1.5	5S (5D)6D	94211.739	2.5	4SP(5P)4P	652.6883	-4.014	108804.667	3.5	5S (3D)4D	93484.580	4.5	4P (3F)4F
645.5837	-3.456	60270.339	3.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	652.7771	-1.543	78525.407	2.5	5S (5D)6D	93840.340	1.5	4SP(5D)6D
645.6383	-2.251	31483.176	3.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	652.8228	-3.180	105711.730	2.5	5D (5D)6S	90397.868	3.5	5P (5D)4D
645.7129	-3.191	103118.400	1.5	6S (5D)4D	87635.920	0.5	4SP(5P)6D	653.1153	-0.937	104426.460	2.5	5D (5D)6F	89119.457	2.5	5P (5D)6D
645.8305	-0.663	88189.030	0.5	4D (5D)4P	103668.690	1.5	4F(5D)2[1]	653.1757	-1.326	78725.790	1.5	5S (5D)6D	94031.378	0.5	4SP(5D)6D
646.2650	-0.283	104588.710	1.5	5D (5D)6D	89119.457	2.5	5P (5D)6D	653.1764	-1.381	78525.407	2.5	5S (5D)6D	93830.979	2.5	4SP(5D)6D
646.5661	-1.040	78525.407	2.5	5S (5D)6D	93988.170	2.5	4SP(5G)4G	653.3697	-4.688	103265.694	0.5	6S (5D)4D	87964.650	1.5	4SP(5P)6D
646.6074	-4.042	87985.628	2.5	5S (5D)6D	93987.457	3.5	4SP(5D)6D	653.4469	-0.693	104630.430	1.5	5D (5D)6P	64806.487	0.5	4P (3P)2P
646.6134	-4.981	99332.102	4.5	5S (3H)2H	72524.566	1.5	4P (1F)2G	653.5040	-1.517	104426.460	2.5	5D (5D)6F	89331.195	1.5	5P (5D)6D
646.6483	-4.019	79885.493	2.5	5S (5D)4D	64425.408	2.5	4P (3F)2F	653.7284	-4.707	78237.685	3.5	5S (5D)6D	62945.038	3.5	4P (3F)4D
646.8112	-0.931	88189.030	0.5	4D (5D)4P	103645.220	1.5	4F(5D)2[2]	653.9714	-3.490	105211.140	4.5	5D (5D)4G	89924.175	5.5	5P (5D)6F
647.8133	-1.384	87985.628	2.5	4D (5D)4P	10347.910	1.5	4F(5D)3[1]	654.0236	-0.633	104757.110	0.5	5D (5D)6D	89471.365	0.5	5P (5D)6D
647.9607	-0.342	104873.230	3.5	5D (5D)4D	89444.458	2.5	4SP(5P)6P	654.1356	0.194	104411.690	4.5	5D (5D)6D	89128.561	3.5	4SP(5P)6P
648.0807	-0.475	104757.110	0.5	5D (5D)6D	89331.195	1.5	5P (5D)6D	654.2625	-2.005	88157.116	1.5	4D (5D)4P	103437.280	0.5	4F(5D)3[1]
648.2204	-2.011	50157.452	4.5	D6S (3F)4F	65580.041	5.5	4P (3F)4G	654.3804	-0.554	104000.810	3.5	5D (5D)6P	88723.400	4.5	5P (5D)6D
648.2585	-4.004	80346.016	0.5	5S (5D)4D	95767.700	0.5	4SP(5P)4D	654.7720	-4.292	77861.625	4.5	5S (5D)6D	93129.900	3.5	4P (3F)4D
648.3031	-0.423	87985.628	2.5	4D (5D)4P	103406.250	2.5	4F(5D)3[2]	654.8379	-0.156	104120.270	2.5	5D (5D)6P	88853.533	3.5	5P (5D)6D
648.7339	-2.432	54904.222	3.5	D6S (3F)2F	70314.604	4.5	4P (3G)2G	654.9270	-2.510	102802.312	2.5	6S (5D)4D	87537.652	3.5	4SP(5G)6F
648.9327	-0.804	87985.628	2.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	655.0634	-0.145	104380.940	3.5	5D (5D)6F	89119.457	2.5	5P (5D)6D
649.1246	-3.289	60445.275	2.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4D	655.0758	-3.186	79439.467	3.5	5S (5D)4D	94700.660	2.5	4P (3F)2D
649.1444	-2.895	105291.010	3.5	4D (3F)4G	89890.373	3.5	4P (3F)4G	655.0856	-0.885	88157.116	1.5	4D (5D)4P	103418.080	0.5	4F(5D)3[0]
649.1670	-0.113	87985.628	2.5	4D (5D)4P	103385.730	3.5	4F(5D)3[3]	655.0857	-0.213	104705.420	3.5	5D (5D)6D	89444.458	2.5	4SP(5P)6P
649.1981	-4.600	83136.487	3.5	4D (5D)6F	98535.850	3.5	4SP(5D)4F	655.0901	-4.846	106836.000	3.5	4P2(7P)8P	91575.139	2.5	5P (5D)6P
649.2207	-4.565	50157.452	4.5	D6S (3F)4F	65556.280	4.5	4P (3H)2H	655.0929	-3.509	88157.116	1.5	4D (5D)4P	103417.910	1.5	4F(5D)3[1]
649.3035	-3.057	60441.033	1.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4D	655.2337	-0.731	104588.710	1.5	5D (5D)6D	89331.195	1.5	5P (5D)6D
649.7497	-0.613	104000.810	3.5	5D (5D)6D	88614.520	4.5	4SP(5P)6D	655.4521	-4.887	78525.407	2.5	5S (5D)6D	63272.976	2.5	4P (3F)4D
649.8590	-1.941	104828.160	2.5	5D (5D)6D	89444.458	2.5	4SP(5P)6P	655.4544	-0.280	104380.940	3.5	5D (5D)6F	89128.561	3.5	4SP(5P)6P
649.9228	-2.092	105449.540	3.5	5D (5D)4G	90067.347	4.5	5P (5D)6F	655.5581	-3.539	78237.685	3.5	5S (5D)6D	93487.650	3.5	4P (3F)4F
650.0488	-0.460	87985.628	2.5	4D (5D)4P	103368.840	2.5	4F(5D)3[3]	655.5938	-1.727	88157.116	1.5	4D (5D)4P	103406.250	2.5	4F(5D)3[2]
650.2333	-4.634	54275.637	2.5	D5S2(7S)4G	69650.484	2.5	4P (3G)2F	655.6318	-0.472	88189.030	0.5	4D (5D)4P	103437.280	0.5	4F(5D)3[1]
650.3621	-2.582	77230.900	4.5	D5S2(7S)2H	92602.703	3.5	4P (3F)2G	655.6327	-4.155	105291.010	3.5	4D (3F)4G	90042.779	4.5	4P (3F)4G
650.4971	-4.933	83136.487	3.5	4D (5D)6F	98505.100	2.5	4SP(5D)4D	655.6901	-3.771	78237.685	3.5	5S (5D)6D	93484.580	4.5	4P (3F)4F
650.5033	-3.538	50187.813	3.5	D6S (3F)4F	65556.280	4.5	4P (3H)2H	655.7448	-2.013	79439.467	3.5	5S (5D)4D	94685.090	2.5	4SP(5D)6P
650.5411	-3.520	103265.694	0.5	6S (5D)4D	87898.120	0.5	4SP(5G)6F	655.9519	-0.060	57411.065	2.5	D5S2(7S)4D	72651.876	3.5	4P (3D)4D
650.5542	-4.488	54283.220	3.5	D5S2(7S)4G	69650.484	2.5	4P (3G)2F	655.9871	-3.878	78185.030	3.5	D5S2(7S)2G	62945.038	3.5	4P (3F)4D
650.6018	-3.529	87985.628	2.5	4D (5D)4P	72619.490	2.5	4P (3D)4D	656.2200	-0.350	60441.033	1.5	D5S2(7S)4D	45206.450	1.5	4P (5D)4D
650.6333	-3.535	60445.275	2.5	D5S2(7S)4D	45079.879	2.5	4P (5D)4F	656.2376	-0.894	88157.116	1.5	4D (5D)4P	103391.290	0.5	4F(5D)3[2]
650.6639	-2.959	105288.847	6.5	4D (3F)4H	89924.175	5.5	5P (5D)6F	656.2933	-3.136	105630.750	2.5	5D (5D)4G	90397.868	3.5	5P (5D)4D
650.8129	-3.902	60441.033	1.5	D5S2(7S)4D	45079.879	2.5	4P (5D)4F	656.4226	-2.340	102802.312	2.5	6S (5D)4D	87572.431	2.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
656.4584	-1.885	88189.030	0.5	4D (5D)4P	103418.080	0.5	4F(5D)3[0]	662.1979	-0.054	103950.590	4.5	5D (5D)6F	88853.533	3.5	5P (5D)6D
656.4658	-0.994	88189.030	0.5	4D (5D)4P	103417.910	1.5	4F(5D)3[1]	662.2765	-0.348	104426.460	2.5	5D (5D)6F	89331.195	1.5	5P (5D)6D
656.5386	-0.070	103950.590	4.5	5D (5D)6F	88723.900	4.5	5F(5D)6F	662.3070	-4.024	60384.370	0.0	D5S2(7S)4D	45289.801	1.5	4P (5D)4F
656.6533	-4.305	84326.912	2.5	4D (5D)6P	69102.380	2.5	4SP(5S)4P	662.7261	-1.794	58666.258	3.5	D6S (1G)2G	73751.282	4.5	4P (11)2H
656.6796	-2.096	105711.730	2.5	5D (5D)6S	90487.810	2.5	5P (5D)6F	662.8665	-2.276	105711.730	2.5	5D (5D)6S	90629.902	1.5	4P (3F)4S
656.6833	-4.761	105524.461	4.5	4D (3F)4H	90300.625	3.5	5P (5D)6F	662.9073	-2.460	105288.847	6.5	4D (3F)4H	90211.700	5.5	4P (3F)4S
656.6907	-4.978	105291.010	3.5	4D (3F)4G	90067.347	4.5	5P (5D)6F	663.2588	-2.045	105711.730	2.5	5D (5D)6S	90638.822	2.5	5P (5D)4D
656.7509	-2.620	99093.452	5.5	5S (3H)2H	83871.184	4.5	4P (1F)2G	663.6315	-1.860	102666.694	0.5	6S (5D)6D	87602.520	1.5	4SP(5G)6F
656.8367	-4.211	103118.400	1.5	6S (5D)4P	87898.120	0.5	4SP(5G)6F	663.6946	-2.035	105449.540	3.5	5D (5D)4G	90386.822	4.5	5P (5D)4F
657.1424	0.096	103936.600	5.5	5D (5D)6F	88723.400	4.5	5P (5D)6D	663.8142	-4.875	78525.407	2.5	5S (5D)6D	63465.109	1.5	4P (3F)4D
657.2664	-4.249	78185.030	3.5	D5S2(7S)2G	93395.360	2.5	4P (3F)4F	663.8705	-3.255	103118.400	1.5	6S (5D)4D	88059.380	2.5	4SP(5P)6D
657.3487	-2.564	57411.065	2.5	D5S2(7S)4P	72619.490	2.5	4P (3D)4D	664.1946	-1.136	105449.540	3.5	5D (5D)4G	90397.868	3.5	5P (5D)4D
657.3790	-1.153	88157.116	1.5	4D (5D)4P	103364.840	2.5	4F(5D)3[3]	664.1995	-2.172	77230.900	4.5	D5S2(7S)2H	92282.460	3.5	4SP(5G)4F
657.4474	-2.367	50157.452	4.5	D6S (3F)4F	65363.595	5.5	4P (3H)2H	664.3067	-0.859	87985.628	2.5	4D (5D)4P	103034.760	1.5	4F(5D)4[2]
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)3[2]	664.4244	-4.899	83308.194	2.5	4D (5D)6F	90354.660	2.5	4SP(5D)4F
657.6170	-1														

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
669.0967	-1.302	102543.648	1.5	6S (5D)6D	87602.250	1.5	48P(5G)6F	674.9029	-2.443	105711.730	2.5	5D (5D)6S	90898.873	1.5	4P (3P)4P
669.1163	-4.192	57411.065	2.5	D5S2(7S)4P	72352.024	3.5	4P (3D)4F	675.0004	-0.439	105449.540	3.5	5D (5D)4G	90638.822	2.5	5P (5D)4D
669.1927	-1.952	104863.430	5.0	5D (5D)4G	89924.175	5.5	5P (5D)6F	675.0055	-2.440	105711.730	2.5	5D (5D)6S	90901.124	2.5	5P (5D)4P
669.2714	-4.309	85462.862	3.5	4D (5D)4G	100400.360	2.5	48P(3F)2D	675.0565	-4.566	83726.364	4.5	4D (5D)6D	98535.850	3.5	48P(5D)4F
669.3107	-1.816	88189.030	0.5	4D (5D)4P	103125.650	0.5	4F(5D)4I1	675.1278	-1.830	105205.790	2.5	5D (5D)6G	90397.868	3.5	5P (5D)4D
669.3169	-0.793	104380.940	3.5	5D (5D)6F	89444.458	2.5	48P(5P)6P	675.2208	-1.146	104873.230	3.5	5D (5D)6G	90067.347	4.5	5P (5D)6F
669.3210	-4.372	57493.321	1.5	D5S2(7S)4D	72429.711	0.5	4P (3F)2G	675.3432	-3.922	105291.010	3.5	4D (3F)4G	90487.810	2.5	5P (5D)6F
669.5578	-2.827	105711.730	2.5	5D (5D)6S	90780.621	3.5	5P (5D)4F	675.3490	-4.572	78525.407	2.5	5S (5D)6D	93328.480	1.5	4P (3F)4F
669.5740	-4.550	87985.628	2.5	4D (5D)4P	73054.881	2.5	4P (1G)2F	675.4366	-0.732	104868.530	1.5	5D (5D)6G	90067.347	4.5	5P (5D)6F
669.9164	-4.052	48039.090	2.5	D7 (5D)2D	62962.205	1.5	4P (3P)4D	675.4564	-1.566	105288.500	4.5	5D (5D)6G	90487.810	2.5	5P (5D)6F
669.9237	-1.674	102394.718	3.5	6S (5D)4D	87471.765	4.5	48P(5G)6F	675.4655	-1.661	104426.460	2.5	5D (5D)6F	89625.940	1.5	48P(5P)6P
670.1248	-4.449	49506.934	1.5	D6S (3P)4P	64425.408	2.5	4P (3F)2F	675.5076	-3.437	79885.493	2.5	5S (5D)4D	94685.090	1.5	4P (3F)4F
670.2096	-4.596	77861.625	4.5	5S (5D)6D	62945.038	3.5	4P (3F)4D	675.6680	0.410	104863.430	5.5	4D (5D)6D	42114.818	4.5	4P (5D)6F
670.4133	-3.961	78185.030	3.5	D5S2(7S)2G	63272.976	2.5	4P (3F)4D	675.7173	-0.871	88157.116	1.5	4D (5D)4F	90067.347	4.5	5P (5D)6F
670.4825	0.036	105211.140	4.5	5D (5D)4G	90300.625	3.5	5P (5D)6F	675.8745	-4.720	83713.536	3.5	4D (5D)6D	94685.090	1.5	4P (3F)4F
670.4891	-3.421	78577.280	4.5	D5S2(7S)2G	93487.650	3.5	4P (3F)4F	675.9882	-0.959	104120.270	2.5	5D (5D)6F	73189.110	1.5	4P (3D)2P
670.5746	-3.797	77230.900	4.5	D5S2(7S)2H	62322.431	3.5	4P (3H)2G	676.3626	-6.611	27620.412	2.5	D6S (3F)2F	42401.302	1.5	4P (5D)6F
670.6079	-1.626	102543.648	1.5	6S (5D)6D	87635.920	0.5	48P(5P)6D	676.4053	-2.882	54870.528	2.5	D6S (3F)2F	69650.484	2.5	4P (3G)2F
670.6271	-4.193	78577.280	4.5	D5S2(7S)2G	93484.580	4.5	4P (3F)4F	676.6158	-4.575	105414.180	2.5	4D (3F)4G	90638.822	2.5	5P (5D)4D
670.6880	-4.715	48039.090	2.5	D7 (5D)2D	62945.038	3.5	4P (3F)4D	676.7571	-1.789	79439.467	3.5	5S (5D)4D	94211.739	2.5	48P(5P)4F
670.7232	-1.816	105205.790	2.5	5D (5D)6G	90300.625	3.5	5P (5D)6F	676.9266	-1.404	102666.694	0.5	6S (5D)6D	87898.120	0.5	48P(5G)6F
670.7539	-4.576	105291.010	3.5	4D (3F)4G	90386.528	4.5	5P (5D)4F	677.0902	-0.627	105065.630	3.5	5D (5D)6G	90300.625	3.5	5P (5D)6F
670.8885	-0.592	87985.628	2.5	4D (5D)4P	102887.120	3.5	4F(5D)4I4	677.2427	-1.020	102334.112	2.5	6S (5D)6D	87572.431	2.5	48P(5G)6F
671.2647	-3.880	105291.010	3.5	4D (3F)4G	90397.868	3.5	5P (5D)4D	677.4147	-4.575	57411.065	2.5	D5S2(7S)4P	72168.998	1.5	4P (3D)4F
671.3065	-4.785	78237.685	3.5	5S (5D)6D	93129.300	3.5	4P (3F)4D	678.0622	-4.681	105524.464	4.5	4D (3F)4H	90780.621	3.5	5P (5D)4F
671.7170	-4.518	83713.536	3.5	4D (5D)6D	98596.650	4.5	48P(5D)4F	678.1040	-2.818	102802.312	2.5	6S (5D)4D	88059.380	2.5	48P(5P)6D
671.7964	-0.543	104000.810	3.5	5D (5D)6P	89119.457	2.5	5P (5D)6D	678.4219	-3.459	54870.528	2.5	D6S (3F)2F	69606.552	3.5	4P (3G)2D
671.9602	-3.624	79885.493	2.5	5S (5D)4D	94763.219	3.5	48P(5D)6P	678.5043	-4.668	81734.570	3.5	D5S2(7S)2F	76000.517	2.5	4P (3P)4P
671.9639	-0.612	88157.116	1.5	4D (5D)4P	103034.760	1.5	4F(5D)4I2	678.6128	-3.875	103630.750	2.5	5D (5D)4G	90898.873	1.5	4P (3P)4P
672.2077	-1.063	104000.810	3.5	5D (5D)6P	89128.561	3.5	48P(5P)6P	678.6135	-1.402	102334.112	2.5	6S (5D)6D	87602.250	1.5	48P(5G)6F
672.2964	-4.408	83726.364	4.5	4D (5D)6D	98596.650	4.5	48P(5D)4F	678.6336	-4.647	108804.667	3.5	5S (3D)4D	94073.240	3.5	48P(5G)4G
672.3115	-3.543	78525.407	2.5	5S (5D)6D	90397.868	3.5	4P (3F)4F	678.7038	-0.464	105127.770	2.5	5D (5D)4G	90397.868	3.5	5P (5D)4P
672.4372	-0.907	88157.116	1.5	4D (5D)4P	103024.290	2.5	4F(5D)4I2	678.7165	-1.804	105630.750	2.5	5D (5D)4G	90901.124	2.5	5P (5D)4P
672.7063	-3.933	80177.975	1.5	5S (5D)4D	95039.200	1.5	4P (3F)2P	679.1298	-4.957	85679.698	2.5	4D (5D)4G	100400.360	2.5	48P(3P)2D
672.8360	-4.451	77230.900	4.5	D5S2(7S)2H	92089.260	3.5	48P(5G)4H	679.1762	-2.784	57493.321	1.5	D5S2(7S)4P	72212.978	0.5	4P (3D)4P
672.8946	-1.762	102394.718	3.5	6S (5D)4G	87537.652	3.5	48P(5G)6F	679.2536	-0.352	105205.790	2.5	5D (5D)6G	90487.810	2.5	5P (5D)6F
673.0125	-3.554	105155.090	4.5	4D (3F)4G	90300.625	3.5	5P (5D)6F	679.2665	-3.947	81639.260	2.5	D5S2(7S)2F	96356.960	3.5	48P(3G)2F
673.0482	-1.861	79885.493	2.5	5S (5D)4D	94739.170	1.5	48P(5P)4P	679.4184	-6.940	27620.412	2.5	D6S (3F)2F	42334.822	2.5	4P (5D)6F
673.1310	-2.758	105063.550	5.5	4D (3F)4G	90211.700	5.5	4P (3F)4G	679.4295	-4.251	78185.030	3.5	D5S2(7S)2G	92899.200	2.5	4P (3F)4D
673.1592	-2.942	57578.484	0.5	D5S2(7S)4P	72429.711	0.5	4P (3D)4D	679.6250	-4.750	83812.316	2.5	4D (5D)6D	69102.380	2.5	48P(5S)4P
673.2090	-1.857	105630.750	2.5	5D (5D)4G	90780.621	3.5	5P (5D)4F	679.6663	-3.946	79439.467	3.5	5S (5D)4D	94148.510	4.5	48P(5G)4G
673.4085	-1.897	88189.030	0.5	4D (5D)4P	103034.760	1.5	4F(5D)4I2	679.9565	-2.211	80177.975	1.5	5S (5D)4D	94880.740	0.5	48P(5P)4P
673.5623	-3.350	87985.628	2.5	4D (5D)4P	73143.288	3.5	4P (1G)2G	679.9766	-3.039	54904.222	3.5	D6S (3F)2F	69606.552	3.5	4P (3G)2F
673.7746	-4.991	102802.312	2.5	6S (5D)4D	87964.650	1.5	48P(5P)6D	679.9899	-1.489	102666.694	0.5	6S (5D)6D	87964.650	1.5	48P(5P)6D
674.2388	-4.291	57411.065	2.5	D5S2(7S)4P	72238.513	2.5	4P (3D)4F	680.3143	-0.421	105288.530	1.5	5D (5D)6G	90593.497	1.5	5P (5D)6F
674.2526	-0.777	105127.770	2.5	5D (5D)4G	90300.625	3.5	5P (5D)6F	680.3499	-4.234	80346.016	0.5	5S (5D)4D	95039.200	1.5	4P (3P)2P
674.3173	-3.517	104868.500	4.5	5D (5D)6G	90042.779	4.5	4P (3F)4G	680.6413	-4.984	83990.063	1.5	4D (5D)6D	69302.090	1.5	48P(5S)4P
674.3678	-0.429	105211.140	4.5	5D (5D)4G	90386.528	4.5	5P (5D)4F	681.0526	-2.385	105065.630	3.5	5D (5D)6G	90386.528	4.5	5P (5D)4F
674.4735	-2.186	102394.718	3.5	6S (5D)4D	87572.431	2.5	48P(5G)6F	681.1133	-4.621	83713.536	3.5	4D (5D)6D	90891.330	3.5	48P(5D)4D
674.4853	-1.300	103950.590	4.5	5D (5D)6F	89128.561	3.5	48P(5P)6P	681.1492	-3.323	105063.550	5.5	4D (3F)4G	90386.528	4.5	5P (5D)4F
674.5465	-4.623	105414.180	2.5	4D (3F)4G	90593.497	1.5	5P (5D)6F	681.2053	-1.600	104120.270	2.5	5D (5D)6G	89444.458	2.5	48P(5P)6P
674.7046	-4.554	108804.667	3.5	5S (3D)4D	93987.457	3.5	48P(5D)6D	681.2116	-4.985	57493.321	1.5	D5S2(7S)4P	72168.998	1.5	4P (3D)4F
674.7977	-3.793	79885.493	2.5	5S (5D)4D	94700.660	2.5	4P (3F)4G	681.2666	-4.134	50157.452	4.5	D6S (3F)4F	64831.943	4.5	4P (3F)2G
674.8032	-4.888	104705.420	3.5	5D (5D)6D	89890.373	3.5	4P (3F)4D	681.4952	-3.856	78725.790	1.5	5S (5D)6D	93395.360	2.5	4P (3F)4F
674.8840	-0.046	105211.140	4.5	5D (5D)4G	90397.868	3.5	5P (5D)4D	681.5172	-0.770	104593.270	5.5	5D (5D)6G	89924.175	5.5	5P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
681.5254	-0.397	105449.540	3.5	5D (5D)4G	90780.621	3.5	5P (5D)4F	687.1906	-2.720	79439.467	3.5	5S (5D)4D	93987.457	3.5	4SP(5D)6D
681.5769	-4.939	86710.837	1.5	4D (5D)4F	72043.026	1.5	4P (3D)4P	687.3441	-3.631	81734.750	3.5	D5S2(7S)2F	96279.490	2.5	4SP(3G)2F
681.5792	-0.666	105065.630	3.5	5D (5D)6G	90397.868	3.5	5P (5D)4D	687.3889	-0.625	103711.730	2.5	5D (5D)6S	91167.937	3.5	5P (5D)6P
681.7785	-1.826	105711.730	2.5	5D (5D)6S	91048.256	1.5	5P (5D)4D	687.4813	-4.988	86710.837	1.5	4D (5D)4F	72168.998	1.5	4P (3D)4F
681.8172	-4.678	104705.420	3.5	5D (5D)6D	90042.779	4.5	4P (3F)4G	687.7388	-3.037	78577.280	4.5	D5S2(7S)2G	64040.886	3.5	4P (3F)4G
682.0039	-2.906	105288.530	1.5	5D (5D)6F	90629.902	1.5	4P (3F)4S	687.8178	-2.380	80346.016	0.5	5S (5D)4D	94880.740	0.5	4SP(5P)4P
682.0889	-2.694	104868.500	4.5	5D (5D)6G	90211.700	5.5	4P (3F)4G	687.8391	-2.694	105127.770	2.5	5D (5D)4D	90593.497	1.5	5P (5D)6F
682.1189	-3.927	108804.667	3.5	5S (3D)4D	94148.510	4.5	4SP(5G)4G	688.1382	-1.541	104828.160	2.5	5D (5D)6D	90300.625	3.5	5P (5D)6F
682.3036	-4.196	105291.010	3.5	4D (3F)4G	90638.822	2.5	5P (5D)4F	688.2345	0.217	104593.270	5.5	5D (5D)6G	90067.347	4.5	5P (5D)6F
682.3250	-2.490	104863.430	5.5	5D (5D)4G	90211.700	5.5	4P (3F)4G	688.5687	-4.975	105589.420	3.5	4D (3F)4H	91070.547	2.5	5P (5D)4F
682.3687	-4.954	48039.090	2.5	D7 (5D)2D	62689.880	2.5	4P (3P)4D	688.8447	-4.107	105414.180	2.5	4D (3F)4G	90901.124	2.5	5P (5D)4P
682.4191	-2.562	105288.530	1.5	5D (5D)6G	90638.822	2.5	5P (5D)4D	688.9064	-3.870	58631.531	4.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
682.6139	-2.962	102543.648	1.5	6S (5D)6D	87898.120	0.5	4SP(5G)6F	688.9713	-3.940	105291.010	3.5	4D (3F)4G	90780.621	3.5	5P (5D)4F
682.6791	-3.348	50187.813	3.5	D6S (3F)4F	64831.943	4.5	4P (3F)2G	688.9735	-4.602	78185.030	3.5	D5S2(7S)2G	92695.374	2.5	4P (3P)2D
682.8165	-2.863	105711.730	2.5	5D (5D)6S	91070.547	2.5	5P (5D)4F	689.3298	-1.366	103711.730	2.5	5D (5D)6S	91208.887	1.5	5P (5D)4F
682.8571	-0.003	105288.530	1.5	5D (5D)6F	90648.217	0.5	5P (5D)6F	689.5663	-4.319	105127.770	2.5	5D (5D)6D	90629.902	1.5	4P (3P)4S
682.8609	-2.437	81639.260	2.5	D5S2(7S)2F	96279.490	2.5	4SP(3G)2F	689.7347	-2.422	104120.270	2.5	5D (5D)6P	89625.940	1.5	4SP(5P)6P
682.8735	-1.532	105127.770	2.5	5D (5D)4D	90487.810	2.5	5P (5D)6F	689.7856	-0.840	102030.912	3.5	6S (5D)6D	87537.652	3.5	4SP(5G)6F
682.9303	-4.382	81639.260	2.5	D5S2(7S)2F	67000.517	2.5	4P (3F)2D	689.9138	-4.699	104380.940	3.5	5D (5D)6F	89890.373	3.5	4P (3F)4G
682.9616	-1.775	104705.420	3.5	5D (5D)6D	90067.347	4.5	5P (5D)6F	689.9909	-0.144	105127.770	2.5	5D (5D)4D	90638.822	2.5	5P (5D)4D
683.0213	-4.160	105230.290	0.5	5D (5D)4D	90593.497	1.5	5P (5D)6F	690.0591	-1.550	104411.690	4.5	5D (5D)6D	89924.175	5.5	5P (5D)6F
683.1037	-4.304	86599.738	2.5	4D (5D)4F	71964.710	2.5	4P (3D)4P	690.0979	-1.250	104873.230	3.5	5D (5D)4D	90386.528	4.5	5P (5D)4F
683.2469	-3.316	57411.065	2.5	D5S2(7S)4P	72043.026	1.5	4P (3D)4P	690.2033	-4.650	78843.992	0.5	5S (5D)6D	93328.480	1.5	4P (3F)4F
683.4090	-4.543	78577.280	4.5	D5S2(7S)2G	63948.790	4.5	4P (3F)4G	690.2138	-1.194	102543.648	1.5	6S (5D)6D	88059.380	2.5	4SP(5P)6D
683.7025	-2.245	81734.750	3.5	D5S2(7S)2F	96356.960	3.5	4SP(3G)2F	690.3232	-0.659	104868.500	4.5	5D (5D)6G	90386.528	4.5	5P (5D)4F
683.7475	-3.710	50212.826	2.5	D6S (3P)4P	64834.073	1.5	4P (3F)4F	690.5589	-3.452	58666.258	3.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G
683.8851	-2.845	79439.467	3.5	5S (5D)4D	94057.773	4.5	4SP(5D)6D	690.5650	0.326	104863.430	5.5	5D (5D)4G	90386.528	4.5	5P (5D)4F
683.9639	-9.861	27620.412	2.5	D6S (3F)2F	42237.033	3.5	4P (5D)6F	690.6385	-0.452	104873.230	3.5	5D (5D)4D	90397.868	3.5	5P (5D)4D
684.1665	-0.180	105205.790	2.5	5D (5D)6G	90593.497	1.5	5P (5D)6F	690.8281	-2.793	57493.321	1.5	D5S2(7S)4P	71964.710	2.5	4P (3D)4P
684.2197	-4.385	83713.536	3.5	4D (5D)6D	69102.380	2.5	4SP(5S)4P	690.8628	-0.163	104868.500	4.5	5D (5D)6G	90397.868	3.5	5P (5D)4D
684.6164	-4.518	78725.790	1.5	5S (5D)6D	93328.480	1.5	4P (3F)4F	691.1551	-2.845	57578.484	0.5	D5S2(7S)4P	72043.026	1.5	4P (3D)4P
684.7244	-3.874	108804.667	3.5	5S (3D)4D	94211.739	2.5	4P (3P)4S	691.2377	-2.124	103630.750	2.5	5D (5D)4G	91167.937	3.5	5P (5D)6P
685.0775	-2.419	102802.312	2.5	6S (5D)4D	88209.450	3.5	4SP(3P)6D	691.4289	-4.923	108648.695	6.5	5S (11)2I	73091.590	4.5	4P (1G)2G
685.1878	-3.842	57578.484	0.5	D5S2(7S)4P	72168.998	1.5	4P (3D)4F	691.4434	-3.454	49100.976	0.5	D6S (3P)4P	63559.488	0.5	4SP(5G)6F
685.5646	-0.541	105630.750	2.5	5D (5D)4G	91048.256	1.5	5P (5D)4D	691.4448	-1.341	102030.912	3.5	6S (5D)6D	87572.431	2.5	4SP(5G)6F
685.5844	-2.417	105230.290	0.5	5D (5D)4D	90648.217	0.5	5P (5D)6F	691.7730	-3.751	86416.333	3.5	4D (5D)4F	71964.710	2.5	4P (3D)4P
685.6591	-4.863	49506.934	1.5	D6S (3P)4P	64087.418	2.5	4P (3F)4G	691.8962	-3.767	105288.530	1.5	5D (5D)6G	90839.480	0.5	4P (3P)4P
685.7290	-1.424	102543.648	1.5	6S (5D)6D	87964.650	1.5	4SP(3P)6D	692.2030	0.566	104366.820	6.5	5D (5D)6G	89924.175	5.5	5P (5D)6F
685.7844	0.295	105065.630	3.5	5D (5D)6G	90487.810	2.5	5P (5D)6F	692.7847	0.096	105211.140	4.5	5D (5D)4G	90780.621	3.5	5P (5D)4F
685.8753	-2.301	105205.790	2.5	5D (5D)6G	90629.902	1.5	4P (3F)4S	692.7956	-1.643	104828.160	2.5	5D (5D)6D	90397.868	3.5	5P (5D)4D
686.0298	-0.505	104873.230	3.5	5D (5D)4D	90300.625	3.5	5P (5D)6F	692.9629	-0.846	103065.630	3.5	5D (5D)6G	90638.822	2.5	5P (5D)4D
686.1284	-2.316	77861.625	4.5	5S (5D)6D	92432.136	5.5	4SP(5D)6F	693.0338	-3.635	58666.258	3.5	D6S (1G)2G	73091.590	4.5	4P (1G)2G
686.2158	-3.418	77230.900	4.5	D5S2(7S)2H	62662.244	5.5	4P (3H)2I	693.0416	-2.187	103205.790	2.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
686.2526	0.317	104868.500	4.5	5D (5D)6G	90300.625	3.5	5P (5D)6F	693.1354	-3.870	98294.401	5.5	5S (3H)4H	83871.184	4.5	4P (1F)2G
686.2953	-1.266	105205.790	2.5	5D (5D)6G	90638.822	2.5	5P (5D)4D	693.2005	0.150	103630.750	2.5	5D (5D)4G	91208.887	1.5	5P (5D)4F
686.3713	-3.035	77861.625	4.5	5S (5D)6D	92426.980	4.5	4SP(5G)4F	693.4019	-3.870	78185.030	3.5	D5S2(7S)2G	92662.244	5.5	4P (3F)2G
686.5674	-2.443	80177.975	1.5	5S (5D)4D	94739.170	1.5	4SP(3P)4P	694.0218	-3.289	104705.420	3.5	5D (5D)6D	90300.625	3.5	5P (5D)6F
686.6142	-0.568	105630.750	2.5	5D (5D)4G	91070.547	2.5	5P (5D)4F	694.5832	-3.585	80346.016	0.5	5S (5D)4D	94739.170	1.5	4SP(5P)4P
686.6640	-0.626	102030.912	3.5	6S (5D)6D	87471.765	4.5	4SP(5G)6F	694.6624	-3.063	79439.467	3.5	5S (5D)4D	93830.979	2.5	4SP(5D)6D
686.7788	-4.261	86599.738	2.5	4D (5D)4F	72043.026	1.5	4P (3D)4P	694.6963	-1.155	103230.290	0.5	5D (5D)4D	90839.480	0.5	4P (3P)4P
686.7958	-2.169	104000.810	3.5	5D (5D)6P	89444.458	2.5	4SP(5P)6P	694.7409	-4.382	105291.010	3.5	4D (3F)4G	90901.124	2.5	5P (5D)4P
686.9236	-2.909	57411.065	2.5	D5S2(7S)4P	71964.710	2.5	4P (3D)4P	694.7520	-3.299	105288.530	1.5	5D (5D)6G	90898.873	1.5	4P (3P)4P
686.9719	-3.886	78577.280	4.5	D5S2(7S)2G	93129.010	3.5	4P (3F)4D	694.8019	-4.053	58666.258	3.5	D6S (1G)2G	73054.881	2.5	4P (1G)2F
687.0725	-2.538	104593.270	5.5	5D (5D)6G	90042.779	4.5	4P (3F)4G	694.8607	-3.150	105288.530	1.5	5D (5D)6G	90901.124	2.5	5P (5D)4P
687.1548	-4.881	84863.351	5.5	4D (5D)4G	70314.604	4.5	4P (3G)2G	694.9566	-1.383	104873.230	3.5	5D (5D)4D	90487.810	2.5	5P (5D)6F
687.1569	-4.831	79439.467	3.5	5S (5D)4D	93988.170	2.5	4SP(5G)4P	694.9954	-4.893	58631.531	4.5	D6S (1G)2G	73016.147	3.5	4P (1G)2F
687.1705	-1.675	105449.540	3.5	5D (5D)4G	90901.124	2.5	5P (5D)4G	695.1426	-1.294	104593.270	5.5	5D (5D)6G	90211.700	5.5	4P (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
695.2672	0.063	105449.540	3.5	5D (5D)4G	91070.547	2.5	5P (5D)4F	704.7624	-3.867	102394.718	3.5	6S (5D)4D	88209.450	3.5	4SP(5P)6D
695.4860	-3.267	105155.090	4.5	4D (3F)4G	90780.621	3.5	5P (5D)4F	704.9231	-0.915	105230.290	0.5	5D (5D)4D	91048.256	1.5	5P (5D)4D
695.5187	-3.673	78525.407	2.5	5S (5D)6D	92899.200	2.5	4P (3F)4D	705.1326	-4.931	86416.333	3.5	4D (5D)4F	72238.513	2.5	4P (5D)4F
695.7284	-3.226	102334.112	2.5	6S (5D)6D	87964.650	1.5	4SP(5P)6D	705.3520	-3.803	78725.790	1.5	5S (5D)6D	92899.200	2.5	4P (3F)4D
695.7551	-3.349	104411.690	4.5	5D (5D)6D	90042.779	4.5	4P (3F)4G	705.5234	-4.330	78525.407	2.5	5S (5D)6D	92695.374	2.5	4P (3P)2D
695.8997	-4.011	105414.180	2.5	4D (3F)4G	91048.256	1.5	5P (5D)4D	705.5234	-4.330	78525.407	2.5	5S (5D)6D	92695.374	2.5	4P (3P)2D
695.9320	-6.252	30388.542	4.5	6S (3F)2G	44753.799	3.5	4P (5D)4F	705.7939	-3.999	104571.110	0.5	5D (5D)6D	90901.124	2.5	5P (5D)4F
695.9865	-3.463	49100.976	0.5	6S (3P)4F	63465.109	1.5	4P (3F)4D	705.9419	-4.684	60445.275	2.5	D5S2(7S)4D	74606.841	2.5	4P (3D)2D
696.3077	-0.257	101698.489	4.5	6S (5D)6D	87340.983	5.5	4SP(5G)6F	705.9783	-1.362	101698.489	4.5	6S (5D)6D	87537.652	3.5	4SP(5G)6F
696.3599	-4.949	81639.260	2.5	D5S2(7S)2F	95995.690	2.5	4SP(5P)4D	706.1407	-4.900	83459.670	1.5	4D (5D)6F	69302.090	1.5	4SP(5S)4F
696.6773	-4.182	58666.258	3.5	D6S (1G)2F	73016.147	3.5	4P (1G)2F	706.1430	-1.516	105205.790	2.5	5D (5D)6G	91048.256	1.5	5P (5D)4D
696.6963	-2.653	50075.910	1.5	D6S (3F)4F	64425.408	2.5	4P (3F)2F	706.2634	0.040	104366.820	6.5	5D (5D)6G	90211.700	5.5	4P (3F)4G
696.8104	-3.047	105127.770	2.5	5D (5D)4D	90780.621	3.5	5P (5D)4F	707.4444	-4.928	707.4444	4.5	D5S2(7S)2G	92329.890	2.5	4SP(5G)4F
696.9467	-0.425	104411.690	2.5	5D (5D)6D	90067.347	4.5	4P (3P)4P	707.5744	-4.494	50157.452	4.5	D6S (3F)4F	64286.345	3.5	4P (3F)2F
696.9812	-4.757	105414.180	2.5	4D (3F)4G	91070.547	2.5	5P (5D)4F	707.6588	-2.998	104757.110	0.5	5D (5D)6D	90629.902	1.5	4P (3P)4S
697.1408	-1.074	104828.160	2.5	5D (5D)6D	90487.810	2.5	5P (5D)6F	707.7276	-1.462	104426.460	2.5	5D (5D)6F	90300.625	3.5	5P (5D)6F
697.2472	-4.558	104380.940	3.5	5D (5D)6F	90042.779	4.5	4P (3F)4G	707.7808	-3.380	84266.556	3.5	4D (5D)6P	69426.980	0.5	4SP(5D)4D
697.3279	-4.505	60270.339	3.5	D5S2(7S)4D	74606.841	2.5	4P (3D)2D	707.7864	-0.948	102334.112	2.5	6S (5D)6D	88209.450	3.5	4SP(5P)6D
697.3845	-2.656	102394.718	3.5	6S (5D)4D	88059.380	2.5	4SP(5P)6D	707.8898	-4.347	79885.493	2.5	5S (5D)4D	93987.457	3.5	4SP(5D)6D
697.3753	-2.592	105230.290	0.5	5D (5D)4D	90898.873	1.5	4P (3P)4P	707.8898	-4.347	79885.493	2.5	5S (5D)4D	93987.457	3.5	4SP(5D)6D
697.6397	-4.212	84266.556	3.5	4D (5D)6P	98596.650	4.5	4SP(5D)4F	708.4684	-1.951	104711.690	4.5	5D (5D)6D	90300.625	3.5	5P (5D)6F
697.8271	-2.415	79885.493	2.5	5S (5D)4D	94211.739	2.5	4SP(5P)4P	708.5775	-1.317	104757.110	0.5	5D (5D)6D	90648.217	0.5	5P (5D)6F
698.1855	-0.987	104705.420	3.5	5D (5D)6D	90386.528	4.5	5P (5D)4F	708.8229	-4.799	108804.667	3.5	5S (5D)4D	94700.660	2.5	4P (3F)2D
698.3561	-7.802	30764.485	3.5	D6S (3G)2G	45079.879	2.5	4P (5D)4F	708.8399	-4.541	104315.370	6.5	4D (3H)2K	90211.700	5.5	4P (3F)4G
698.4440	-2.218	104380.940	3.5	5D (5D)6F	90067.347	4.5	5P (5D)6F	708.8898	-4.347	79885.493	2.5	5S (5D)4D	93987.457	3.5	4SP(5G)4G
698.6149	-4.191	77861.625	4.5	5S (5D)6D	92171.716	4.5	4P (3F)2G	708.9256	-3.444	79885.493	2.5	5S (5D)4D	93987.457	3.5	4SP(5D)6D
698.7389	-0.077	104705.420	3.5	5D (5D)6D	90397.868	3.5	5P (5D)4D	708.9256	-3.444	79885.493	2.5	5S (5D)4D	93987.457	3.5	4SP(5D)6D
698.7699	-2.355	105205.790	2.5	5D (5D)6D	90898.873	1.5	4P (3P)4P	709.0392	-3.853	80177.975	1.5	5S (5D)4D	66078.269	2.5	4P (3G)4G
698.8647	-4.288	77861.625	4.5	5S (5D)6D	92166.600	5.5	4SP(5G)4H	709.1445	-2.925	78185.030	3.5	D5S2(7S)2G	64087.418	2.5	4P (3F)4G
698.8798	-2.234	105205.790	2.5	5D (5D)6G	90901.124	2.5	5P (5D)4P	709.1536	-4.478	78185.030	3.5	D5S2(7S)2G	64087.418	2.5	4P (3F)4G
699.1477	-3.717	84296.830	5.5	4D (5D)6G	98596.650	4.5	4SP(5D)4F	709.3962	-0.410	104873.230	3.5	5D (5D)4D	90780.621	3.5	5P (5D)4F
699.4728	-3.337	77861.625	4.5	5S (5D)6D	92154.165	3.5	4SP(5D)6F	709.4166	-4.433	78237.685	3.5	5S (5D)6D	92329.890	2.5	4SP(5G)4F
699.5513	-2.898	78577.280	4.5	D5S2(7S)2G	64286.345	3.5	4P (3F)2F	709.5888	-2.001	105288.530	1.5	5D (5D)6G	91199.746	0.5	5P (5D)4D
699.8416	-1.490	105065.630	3.5	5D (5D)6G	90780.621	3.5	5P (5D)4F	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
699.9585	-4.722	50142.786	2.5	D6S (3F)4F	64425.408	2.5	4P (3F)2F	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
700.3454	-1.634	102334.112	2.5	6S (5D)6D	88059.380	2.5	4SP(5P)6D	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
700.6123	-4.107	84266.556	3.5	4D (5D)6P	98535.850	3.5	4SP(5D)4F	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
701.2574	-4.799	103983.510	3.5	5S (3G)2G	89727.342	2.5	4P (3F)4G	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
702.1254	-4.951	84266.556	3.5	4D (5D)6P	98505.100	2.5	4SP(5D)4D	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
702.3168	-1.877	104828.160	2.5	5D (5D)6D	90593.497	1.5	5P (5D)6F	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
702.3294	-1.718	104873.230	3.5	5D (5D)4D	90638.822	2.5	5P (5D)4D	709.6344	-0.484	104868.500	4.5	5D (5D)6G	90780.621	3.5	5P (5D)4F
702.6014	-0.350	105127.770	2.5	5D (5D)4D	90898.873	1.5	4P (3P)4P	710.0156	-0.755	104380.940	3.5	5D (5D)6F	90300.625	3.5	5P (5D)6F
702.6637	-4.442	77861.625	4.5	5S (5D)6D	92089.260	3.5	4SP(5G)4H	710.0495	-1.937	105288.530	1.5	5D (5D)6G	91208.887	1.5	5P (5D)4F
702.7087	-0.713	101698.489	4.5	6S (5D)6D	87471.765	4.5	4SP(5G)6F	710.0560	-2.729	105127.770	2.5	5D (5D)4D	91048.256	1.5	5P (5D)4D
702.7126	-1.458	105127.770	2.5	5D (5D)4D	90901.124	2.5	5P (5D)4P	710.1679	-3.985	80225.407	2.5	5S (5D)6D	92602.703	3.5	4P (3F)2G
703.0181	-3.592	105291.010	3.5	4D (3F)4G	91070.547	2.5	5P (5D)4F	710.2751	-4.894	86599.738	2.5	4D (5D)4F	72524.566	1.5	4P (3D)4D
703.1407	-2.413	105288.530	1.5	5D (5D)6G	91070.547	2.5	5P (5D)4F	710.3585	-3.913	80225.407	2.5	D6S (3P)4F	64286.345	3.5	4P (3F)2F
703.1592	-2.201	104705.420	3.5	5D (5D)6D	90487.810	2.5	5P (5D)6F	710.5604	-4.578	84938.180	1.5	4D (5D)6G	90607.700	0.5	4SP(5D)4F
703.4080	-4.814	50212.826	2.5	D6S (3P)4F	64425.408	2.5	4P (3F)2F	710.5931	-4.970	84527.778	4.5	4D (5D)6G	98596.650	4.5	4SP(5D)4F
703.6691	-0.357	104593.270	5.5	5D (5D)6G	90386.528	4.5	5P (5D)4F	710.7080	-1.429	104705.420	3.5	5D (5D)6D	90638.822	2.5	5P (5D)4D
703.7679	-3.686	105414.180	2.5	4D (3F)4G	91208.887	1.5	5P (5D)4F	710.8182	-4.540	84326.912	2.5	5D (5D)6P	98391.330	3.5	4SP(5D)4D
703.9162	-3.687	100749.810	2.5	5S (3F)2F	86547.490	2.5	4P (1F)2F	710.9105	-2.379	78237.685	3.5	5S (5D)6D	92300.277	4.5	4SP(5D)6F
704.0317	-2.074	104411.690	4.5	5D (5D)6D	90211.700	5.5	4P (3F)4G	711.0306	-4.929	103950.590	4.5	5D (5D)6F	89890.373	3.5	4P (3F)4G
704.1176	-2.624	104828.160	2.5	5D (5D)6D	90629.902	1.5	4P (3P)4S	711.1257	-8.904	30388.542	4.5	D6S (3G)2G	44446.878	3.5	4P (5D)4D
704.5602	-0.781	104828.160	2.5	5P (5D)6D	90638.822	2.5	5P (5D)4F	711.1820	-0.454	105127.770	2.5	5D (5D)4D	91070.547	2.5	4P (5D)4F
704.5624	-3.088	78237.685	3.5	5S (5D)6D	92426.980	4.5	4SP(5G)4F	711.2636	-1.879	105630.750	2.5	5D (5D)4G	91575.139	2.5	5P (5D)6F
704.6392	-3.785	79885.493	2.5	5S (5D)4D	94073.240	3.5	4SP(5G)4G	711.4183	-4.106	49506.934	1.5	D6S (3P)4P	63559.488	0.5	4P (3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
711.6396	-2.030	79439.467	3.5	5S (5D)4D	93487.650	3.5	4P (3F)4F	717.4697	-4.062	78237.685	3.5	5S (5D)6D	92171.716	4.5	4P (3F)2C
711.6723	-3.011	104828.160	2.5	5D (5D)6D	90780.621	3.5	5P (5D)4F	717.4989	-0.680	104000.810	3.5	5D (5D)6P	90067.347	4.5	5P (5D)6F
711.7952	-1.343	79439.467	3.5	5S (5D)4D	93484.580	4.5	4P (3F)4F	717.7140	-1.195	104828.160	2.5	5D (5D)6P	90098.873	1.5	4P (3P)4F
711.9810	-4.070	108804.667	3.5	5S (3D)4D	94763.219	3.5	4SP(5D)6P	717.8300	-3.758	104828.160	2.5	5D (5D)6D	90901.124	2.5	5P (5D)4P
712.1633	-3.343	105205.790	2.5	5D (5D)6G	91167.937	3.5	5P (5D)6F	717.9192	-4.433	84844.834	2.5	4D (5D)6G	98770.140	1.5	4SP(5D)4D
712.2100	-1.462	104630.430	1.5	5D (5D)6P	90593.497	1.5	5P (5D)6F	717.9453	-1.000	104705.420	3.5	5D (5D)6D	90780.621	3.5	5P (5D)4F
712.2353	-3.784	78237.685	3.5	5S (5D)6D	92274.120	2.5	4P (3P)4P	718.1041	-4.236	78275.790	1.5	5S (5D)6D	92647.510	1.5	4P (3F)4D
712.3534	-4.884	83136.487	3.5	4D (5D)6F	69102.380	2.5	4SP(5S)4P	718.1232	-4.094	31368.450	0.5	D6S (3D)4D	45289.801	1.5	4P (5D)4F
712.3708	-3.437	80177.975	1.5	5S (5D)4D	94211.739	2.5	4SP(5P)4P	718.2505	-2.405	105127.770	2.5	5D (5D)4F	91208.887	1.5	5P (5D)4F
712.4253	-4.942	83459.670	1.5	4D (5D)6F	69426.980	0.5	4SP(5S)4P	718.3152	-3.979	104757.110	0.5	5D (5D)6D	90839.480	0.5	4P (3P)4F
712.5042	-0.561	105230.290	0.5	5D (5D)4D	91199.746	0.5	5P (5D)4D	718.3745	-3.752	78237.685	3.5	5S (5D)6D	92154.165	3.5	4SP(5D)6F
712.6335	-2.362	104426.460	2.5	5D (5D)6F	90397.868	3.5	5P (5D)4D	718.6342	-3.438	84685.198	3.5	4D (5D)4D	98596.650	4.5	4SP(5D)4F
712.6763	-4.572	84326.912	2.5	4D (5D)6P	98354.660	2.5	4SP(5D)4F	718.8223	-3.651	103950.590	4.5	5D (5D)6F	90042.779	4.5	4P (3F)4G
712.7441	-0.612	103950.590	4.5	5D (5D)6F	89974.175	5.5	5P (5D)6F	719.2636	-3.049	84870.863	2.5	4D (5D)4D	98770.140	1.5	4SP(5D)4D
712.7945	-3.362	78577.280	4.5	D5S2(7S)2G	92602.703	3.5	4P (3F)2G	719.2943	-3.168	78185.030	3.5	D5S2(7S)2G	64286.345	3.5	4P (3F)2F
712.9988	-0.629	105230.290	0.5	5D (5D)4D	90386.528	4.5	5P (5D)4F	719.3246	-2.641	50142.786	2.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
713.0562	-8.432	30764.485	3.5	D6S (3G)2G	44784.761	2.5	4P (3D)4D	719.3456	-2.887	105065.630	3.5	5D (5D)6G	91167.937	3.5	5P (5D)6P
713.1146	-3.842	58631.531	4.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F	719.5461	-4.091	103936.600	5.5	5D (5D)6F	90042.779	4.5	4P (3F)4G
713.3845	-2.758	104411.690	4.5	5D (5D)6D	90397.868	3.5	5P (5D)4D	720.0844	-4.511	50157.452	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
713.4527	-0.033	103936.600	5.5	5D (5D)6F	89974.175	5.5	5P (5D)6F	720.0943	-0.465	103950.590	4.5	5D (5D)6F	90067.347	4.5	5P (5D)6F
713.5024	-2.798	50075.910	1.5	D6S (3F)4F	64087.418	2.5	4P (3F)4F	720.0972	-4.474	79439.467	3.5	5S (5D)4D	65556.280	4.5	4P (3H)2H
713.5095	-4.904	84326.912	2.5	4D (5D)6P	98338.280	1.5	4SP(5S)4S	720.3096	-4.714	78237.685	3.5	5S (5D)6D	92116.780	4.5	4SP(5G)4H
713.6163	-3.775	100492.020	3.5	5S (3F)2F	86482.750	3.5	4P (1F)2F	720.5532	-3.538	105449.540	3.5	5D (5D)4G	91575.139	2.5	5P (5D)6P
713.6774	-4.100	84527.778	4.5	4D (5D)6G	98335.850	3.5	4SP(5D)4F	720.8207	-1.717	103936.600	5.5	5D (5D)6F	90067.347	4.5	5P (5D)6F
713.7777	-4.703	83308.194	2.5	4D (5D)6F	69302.090	1.5	4SP(5S)4P	720.8723	-0.213	105711.730	2.5	5D (5D)6S	91843.470	1.5	5P (5D)6P
714.0619	-2.312	104630.430	1.5	5D (5D)6P	90629.902	1.5	4P (3P)4S	721.1171	-4.254	84527.778	4.5	4D (5D)6G	98391.330	3.5	4SP(5D)4D
714.1428	-2.529	103118.400	1.5	6S (5D)4D	89119.457	2.5	5P (5D)6D	721.1681	-4.670	86124.301	4.5	4D (5D)4F	72261.729	5.5	4P (1G)2H
714.2469	-1.887	105205.790	2.5	5D (5D)6G	91208.887	1.5	5P (5D)4F	721.2206	-4.896	102584.963	5.5	5S (3G)4G	88723.400	4.5	5P (3P)6D
714.3331	-1.074	104588.710	1.5	5D (5D)6D	90593.497	1.5	5P (5D)6F	721.3937	-2.729	104757.110	0.5	5D (5D)6D	90898.873	1.5	4P (3P)4F
714.3398	-1.056	105065.630	3.5	5D (5D)6G	91070.547	2.5	5P (5D)4F	721.6454	-2.812	80177.975	1.5	5S (5D)4D	94031.378	0.5	4SP(5D)6D
714.3740	-1.665	104380.940	3.5	5D (5D)6F	90386.528	4.5	5P (5D)4F	721.6626	-4.213	50187.813	3.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
714.5172	-3.181	104630.430	1.5	5D (5D)6P	90638.822	2.5	5P (5D)4D	721.6680	-4.996	104064.670	6.5	4D (3H)4I	90211.700	5.5	4P (3F)4G
714.6343	-7.451	30764.485	3.5	D6S (3G)2G	44753.799	3.5	4P (5D)4F	721.7407	-4.589	78237.685	3.5	5S (5D)6D	92089.260	3.5	4SP(5G)4H
714.8855	-4.738	58666.258	3.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F	721.7888	-3.498	84685.198	3.5	4D (5D)4D	98535.850	3.5	4SP(5D)4F
714.9045	-3.908	86416.333	3.5	4D (5D)4F	100400.360	2.5	4SP(3P)2D	722.1371	-6.360	30388.542	4.5	D6S (3G)2G	44232.512	4.5	4P (5D)4F
714.9534	-1.277	104380.940	3.5	5P (3F)2F	90397.868	3.5	4P (3P)2D	722.2394	-3.526	104120.270	2.5	5D (5D)6P	90300.625	3.5	5P (5D)6F
714.9963	-4.666	100749.810	2.5	5S (3F)2F	86767.577	2.5	4P (3P)4D	722.4487	-3.481	31368.450	0.5	D6S (3D)4D	45206.450	0.5	4P (5D)4D
714.9973	-2.177	104630.430	1.5	5D (5D)6P	90648.217	0.5	5P (5D)6F	722.6110	-3.183	85172.809	0.5	4D (5D)4D	99007.700	0.5	4SP(5D)4D
715.5145	-0.500	104873.230	3.5	5D (5D)4D	90901.124	2.5	5P (5D)4P	722.7117	-1.330	104426.460	2.5	5D (5D)6F	90593.497	1.5	5P (5D)6F
715.5439	-1.752	102030.912	3.5	6S (5D)6D	88039.380	2.5	4SP(5P)6D	722.9680	-4.360	50212.826	2.5	D6S (3P)4P	64040.886	3.5	4P (3F)4G
715.6437	-4.688	78725.790	1.5	5S (5D)6D	92695.374	2.5	4P (3P)2D	722.9981	-3.297	103751.660	5.5	4D (3H)4H	89924.175	5.5	4P (3G)4G
716.1435	-1.438	105127.770	2.5	5D (5D)4D	91167.937	3.5	5P (5D)6P	723.3131	-3.655	102030.912	3.5	6S (5D)6D	88209.450	3.5	4SP(5P)6D
716.1813	-3.240	85048.602	1.5	4D (5D)4D	99007.700	0.5	4SP(5D)4D	723.3948	-3.406	84685.198	3.5	4D (5D)4D	98505.100	2.5	4SP(5D)4D
716.1961	-3.039	104588.710	1.5	5D (5D)6D	90629.902	1.5	4P (3P)4S	723.4082	-1.023	104120.270	2.5	5D (5D)6P	90300.625	3.5	5P (5D)6F
716.2286	-3.352	49506.934	1.5	D6S (3P)4D	63465.109	1.5	4P (3F)4D	723.9032	-3.960	80177.975	1.5	5S (5D)4D	93988.170	2.5	4SP(5G)4G
716.2360	-3.799	104000.810	3.5	5D (5D)6P	90042.779	4.5	4P (3F)4G	724.0590	-4.247	79885.493	2.5	5S (5D)4D	66078.269	2.5	4P (3G)4G
716.3457	-3.021	79439.467	3.5	5S (5D)4D	93395.360	2.5	4P (3F)4F	724.2028	-3.577	78525.407	2.5	5S (5D)6D	92329.890	2.5	4SP(5G)4F
716.3994	-2.913	79885.493	2.5	5S (5D)4D	93840.340	1.5	4SP(5D)6D	724.2126	-0.397	104705.420	3.5	5D (5D)6D	90901.124	2.5	5P (5D)4P
716.4347	-2.286	79885.493	2.5	5S (5D)4D	65931.334	3.5	4P (3G)4G	724.2534	-4.569	78843.992	0.5	5S (5D)6D	92647.510	1.5	4P (3F)4D
716.6541	-2.469	104588.710	1.5	5D (5D)6D	90638.822	2.5	5P (5D)4D	724.2972	-0.921	104873.230	3.5	5D (5D)4D	91070.547	2.5	5P (5D)4F
716.7111	-2.001	102802.312	2.5	6S (5D)4D	88853.533	3.5	5P (5D)6D	724.6188	-3.358	104426.460	2.5	5D (5D)6F	90629.902	1.5	4P (3P)4S
716.8803	-2.582	79885.493	2.5	5S (5D)4D	93830.979	2.5	4SP(5D)6D	724.6596	-1.580	105711.730	2.5	5D (5D)6S	91915.950	1.5	4SP(5D)6F
716.9242	-3.760	50142.786	2.5	D6S (3F)4G	64087.418	2.5	4P (3F)4G	724.7314	-4.208	84710.685	3.5	4D (5D)6G	98505.100	2.5	4SP(5D)4D
716.9295	-4.262	100492.020	3.5	5S (3F)2F	86547.490	2.5	4P (1F)2F	724.7359	-2.679	103265.694	0.5	6S (5D)4D	89471.365	0.5	5P (5D)6D
717.1371	-1.459	104588.710	1.5	5D (5D)6D	90648.217	0.5	5P (5D)6F	724.8931	-4.784	50157.452	4.5	D6S (3F)4F	63948.790	4.5	4P (3F)4G
717.2319	-0.806	104426.460	2.5	5D (5D)6F	90487.810	2.5	5P (5D)6P	724.9134	-3.494	104630.430	1.5	5D (5D)6P	90839.480	0.5	4P (3P)4F
717.4456	-3.905	103265.694	0.5	6S (5D)4D	89331.195	1.5	5P (5D)6D	725.0821	-4.893	104174.270	5.5	4D (3H)4I	90386.528	4.5	5P (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
725.1064	-1.958	104426.460	2.5	5D (5D)6F	90638.872	2.5	5P (5D)4D	731.5957	-4.082	84870.863	2.5	4D (5D)4D	98535.850	3.5	4SF(5D)4F
725.1076	-1.958	105630.750	2.5	5D (5D)4G	91843.470	1.5	5D (5D)6P	731.7361	-2.704	80177.975	1.5	5S (5D)4D	93840.340	1.5	4SF(5D)6D
725.1104	-2.773	103118.400	1.5	6S (5D)4D	89331.195	1.5	5P (5D)6D	731.8485	-4.909	84844.834	2.5	4D (5D)6G	98505.100	2.5	4SF(5D)4D
725.4345	-2.854	78237.685	3.5	5S (5D)6D	92018.729	2.5	4SF(5D)6F	731.8508	-0.573	104828.160	2.5	5D (5D)6D	91167.937	3.5	5P (5D)6P
725.4791	-1.319	102394.718	3.5	6S (5D)4D	88614.520	2.5	4SF(5P)6D	731.9677	-4.984	47674.721	1.5	D7 (5D)2D	61332.764	1.5	4P (3P)4P
725.4945	-3.592	104828.160	2.5	5D (5D)6D	91048.256	1.5	5P (5D)4D	732.0654	-3.437	31387.948	2.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D
726.2251	-3.147	49506.934	1.5	D6S (3P)4P	63272.976	2.5	4P (3F)4D	732.0948	-2.859	80177.975	1.5	5S (5D)4D	66522.304	2.5	4P (3G)4F
726.3278	-2.258	85728.806	1.5	4D (5D)4S	71964.710	2.5	4P (3F)4G	732.2378	-3.519	80177.975	1.5	5S (5D)4D	93830.979	2.5	4SF(5D)6F
726.4924	-2.472	50187.813	3.5	D6S (3F)4F	63948.790	4.5	4P (3F)4G	732.4008	-1.396	103950.590	4.5	5D (5D)6F	90300.625	3.5	5P (5D)6F
726.5639	-2.733	78185.030	3.5	D5S2(7S)2G	64425.408	2.5	4P (3F)2F	732.5581	-2.051	103118.400	1.5	6S (5D)4D	89471.365	0.5	5P (5D)6D
726.6700	-1.992	104828.160	2.5	5D (5D)6D	91070.547	2.5	5P (5D)4F	732.6223	-2.066	104426.460	2.5	5S (5D)6F	90780.621	3.5	5P (5D)4F
726.6996	-3.850	78525.407	2.5	5S (5D)6D	92282.460	3.5	4SF(5G)4F	732.9491	-3.054	103265.694	0.5	6S (5D)4D	89625.940	1.5	4SF(5P)6P
727.1131	-4.354	104588.710	1.5	5D (5D)6D	90839.480	0.5	4P (3P)4F	733.4386	-2.829	104705.420	3.5	5D (5D)6D	91070.547	2.5	5P (5D)4F
727.1404	-3.548	78525.407	2.5	5S (5D)6D	92274.120	2.5	4P (3P)4P	733.4586	-2.632	84870.863	2.5	4D (5D)4D	98505.100	2.5	4SF(5D)4D
727.3190	-3.034	78577.280	4.5	D5S2(7S)2G	64831.943	4.5	4P (3F)2G	733.3219	-4.204	78725.790	1.5	5S (5D)6D	92358.610	1.5	4SF(5G)4F
727.4200	-2.710	79439.467	3.5	5S (5D)4D	98596.650	4.5	4SF(5D)4F	733.3413	-1.283	104120.270	2.5	5D (5D)6D	90487.810	2.5	5P (5D)6F
727.4894	-2.125	104380.940	3.5	5D (5D)6F	90898.873	1.5	4P (3P)4P	734.0514	-4.845	104828.160	2.5	5D (5D)6D	90780.621	3.5	5P (5D)4F
727.6603	-1.137	103950.590	4.5	5D (5D)6F	90901.124	2.5	5P (5D)4P	734.3205	-1.139	104000.810	3.5	5D (5D)6P	91575.139	2.5	5P (5D)6P
727.9533	-3.003	80346.016	0.5	5S (5D)4D	66612.656	1.5	4P (3G)4F	734.5802	-4.723	78843.992	0.5	5S (5D)6D	91215.165	3.5	4SF(5D)6F
727.9566	-2.155	84863.351	5.5	4D (5D)4G	98596.650	4.5	4SF(5D)4F	734.8701	-4.355	78725.790	1.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.0489	-1.668	104630.430	1.5	5D (5D)6P	90898.873	1.5	4P (3P)4P	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.1683	-1.902	104630.430	1.5	5D (5D)6P	90901.124	2.5	5P (5D)4P	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.2323	-4.505	103608.909	4.5	5S (3G)2G	62829.075	0.5	4P (3P)4D	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.2551	-4.720	78725.790	1.5	5S (5D)6D	92453.460	0.5	4P (3F)4D	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.3953	-4.915	108804.667	3.5	5S (3D)4D	95079.960	3.5	4P (3F)2F	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.4021	-0.492	103936.600	5.5	5D (5D)6F	90211.700	5.5	4P (3F)4G	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.4263	-4.473	100492.020	3.5	5S (3F)2F	86767.577	2.5	4P (3P)4D	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.5347	-1.124	104120.270	2.5	5D (5D)6P	90397.868	3.5	5P (5D)4D	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.5805	-2.903	85048.562	1.5	4D (5D)4D	98770.180	1.5	4SF(5D)4D	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.6360	-4.448	58631.531	4.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.7225	-2.496	50157.452	4.5	D6S (3F)4F	63876.317	5.5	4P (3F)4G	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.7400	-4.650	103608.909	4.5	5S (3G)2G	98990.373	3.5	4P (3F)4G	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.9045	-3.820	31364.440	1.5	D6S (3D)4D	45079.879	2.5	4P (5D)4F	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
728.9385	-2.656	105630.750	2.5	5D (5D)4G	91915.950	1.5	4SF(5D)6F	735.5405	-2.483	78525.407	2.5	5S (5D)6D	92154.165	3.5	4SF(5D)6F
729.2532	-4.055	103751.660	5.5	4D (3H)4H	90042.779	4.5	4P (3F)4G	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.2546	-3.974	104757.110	0.5	5D (5D)6D	91048.256	1.5	5P (5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.3995	-2.196	84685.198	3.5	4D (5D)4D	98391.330	3.5	4SF(5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.4441	-0.924	104873.230	3.5	5D (5D)4D	91167.937	3.5	5P (5D)6P	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.4501	-3.351	78577.280	4.5	D5S2(7S)2G	92282.460	3.5	4SF(5G)4F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.6960	-2.117	104868.500	4.5	5D (5D)6G	91167.937	3.5	5P (5D)6P	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.7161	-1.260	104000.810	3.5	5D (5D)6P	90300.625	3.5	5P (5D)6F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
729.7190	-3.339	78525.407	2.5	5S (5D)6D	92225.538	1.5	5P (5D)6F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.0989	-2.788	105711.730	2.5	5D (5D)6S	92018.729	2.5	4SF(5D)6F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.3878	-2.070	104588.710	1.5	5D (5D)6D	90901.124	2.5	5P (5D)4P	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.4842	-2.623	85728.806	1.5	4D (5D)4S	72043.026	1.5	4P (3D)4F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.4849	-4.734	58666.258	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.5065	-2.631	80346.016	0.5	5S (5D)4G	94031.378	0.5	4SF(5D)6D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.5625	-3.496	103751.660	5.5	4D (3H)4H	90067.347	4.5	5P (5D)6F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.6650	-7.121	30764.485	3.5	D6S (3G)2G	44446.378	3.5	4P (5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.7583	-4.145	84710.685	3.5	4D (5D)6G	98391.330	3.5	4SF(5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.8073	-3.248	31364.440	1.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
730.9924	-4.026	103600.440	6.5	4D (3H)4H	89924.175	5.5	5P (5D)6F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
731.0216	-3.618	31368.450	0.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
731.1166	-2.244	103118.400	1.5	6S (5D)4D	89444.458	2.5	4SF(5P)6P	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
731.1268	-1.749	102802.312	2.5	6S (5D)4D	89128.561	3.5	4SF(5P)6P	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
731.2569	-1.648	102394.718	3.5	6S (5D)4D	88723.400	4.5	5P (5D)6D	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
731.3562	-3.330	84685.198	3.5	4D (5D)4D	98354.660	2.5	4SF(5D)4F	736.0564	-2.242	104630.430	1.5	5D (5D)6P	91048.256	1.5	5P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
739.1496	-2.321	104426.460	2.5	5D (5D)6F	90901.124	2.5	5P (5D)4P	90901.124	2.5	5S (5D)6D	1.5	4SP(5D)6F		
739.4157	-2.818	84870.863	2.5	4D (5D)4D	98391.330	3.5	4SP(5D)4D	98391.330	3.5	5D (5D)6D	5.5	5P (5D)4D		
739.5418	-3.232	104588.710	1.5	5D (5D)6D	91070.547	2.5	5P (5D)4F	91070.547	2.5	4D (3H)4H	5.5	4P (3F)4G		
739.6695	-3.060	85728.806	1.5	4D (5D)4S	72212.978	0.5	4P (3D)4P	72212.978	0.5	5D (5D)4D	1.5	5P (5D)6P		
739.8243	-1.378	104000.810	3.5	5D (5D)6P	90487.810	2.5	5P (3D)6F	90487.810	2.5	5D (5D)6S	1.5	4SP(5G)4F		
739.9959	-1.900	79885.493	2.5	5S (5D)4G	72168.998	1.5	4P (3D)4F	72168.998	1.5	5S (5D)6D	2.5	5P (5D)4P		
740.0867	-2.708	79885.493	2.5	5S (5D)4G	93395.360	2.5	4P (3F)4F	93395.360	2.5	5D (5D)6D	1.5	5P (5D)4F		
740.0909	-3.821	79439.467	3.5	5S (5D)4D	66371.283	3.5	4P (3G)4G	66371.283	3.5	5D (5D)6F	1.5	5P (5D)4D		
740.5280	-3.605	105589.420	3.5	4D (3F)4H	92089.260	3.5	4SP(5G)4H	92089.260	3.5	5D (5D)6F	1.5	5P (5D)4D		
740.5506	-3.000	78725.790	1.5	5S (5D)6D	92225.538	1.5	5P (5D)4P	92225.538	1.5	5D (5D)6F	1.5	5P (5D)4D		
740.5994	-4.369	58631.531	4.5	6S (1G)2G	72130.390	4.5	4P (1G)2H	72130.390	4.5	5D (5D)6F	1.5	5P (5D)4F		
740.6382	-4.526	85462.862	3.5	4D (5D)4G	71964.710	2.5	4P (3D)4P	71964.710	2.5	5S (5D)4D	1.5	5P (5D)4F		
740.7886	-4.561	105711.730	2.5	5D (5D)6S	92216.320	1.5	4P (3P)2D	92216.320	1.5	5D (5D)6G	1.5	5P (5D)6P		
740.8483	-3.473	80346.016	0.5	5S (5D)4D	93840.340	1.5	4SP(5D)6D	93840.340	1.5	5D (5D)6P	1.5	5P (5D)4D		
740.9033	-2.731	78525.407	2.5	5S (5D)6D	92018.729	2.5	4SP(5D)6F	92018.729	2.5	748.1856	-4.718	47674.721	1.5	D7 (5D)2D
740.9506	-2.733	103118.400	1.5	6S (5D)4D	89625.940	1.5	4SP(3P)6P	89625.940	1.5	748.2812	-4.999	105449.540	3.5	5D (5D)4G
741.0587	-1.461	105065.630	3.5	5D (5D)6G	91575.139	2.5	5P (5D)6P	91575.139	2.5	748.2920	-1.060	98568.912	3.5	5S (3H)4H
741.0655	-3.467	104120.270	2.5	5D (5D)6P	90629.902	1.5	4P (3P)4S	90629.902	1.5	748.4171	-1.856	102802.312	2.5	6S (5D)4D
741.0696	-4.567	85728.806	1.5	4D (5D)4S	72238.513	2.5	4P (3D)4F	72238.513	2.5	748.4857	-3.204	105630.750	2.5	5D (5D)4G
741.1385	-0.804	101698.489	4.5	6S (5D)6D	88209.450	3.5	4SP(5P)6D	88209.450	3.5	748.5259	-1.603	104426.460	2.5	5D (5D)6F
741.2290	-2.986	105711.730	2.5	5D (5D)6S	92225.538	1.5	5P (5D)4P	92225.538	1.5	748.6825	-3.079	105711.730	2.5	5D (5D)6S
741.4266	-2.726	84870.863	2.5	4D (5D)4D	98354.660	2.5	4SP(5D)4F	98354.660	2.5	748.7949	-2.362	85184.734	4.5	4D (5D)4G
741.4387	-3.885	50075.910	1.5	6S (3F)4F	63559.488	0.5	4P (3F)4D	63559.488	0.5	748.9334	-3.724	105630.750	2.5	5D (5D)4G
741.5558	-2.805	104120.270	2.5	5D (5D)6P	90638.822	2.5	5P (5D)4D	90638.822	2.5	749.1442	-4.901	81734.750	3.5	D5S2(7S)2F
741.6036	-0.813	102334.112	2.5	6S (5D)6D	88853.533	3.5	5P (5D)6D	88853.533	3.5	749.4385	-1.264	104120.270	2.5	5D (5D)6P
741.6456	-1.741	104380.940	3.5	5D (5D)6F	90901.124	2.5	5P (5D)4P	90901.124	2.5	749.5619	-0.067	78237.685	3.5	5S (5D)6D
741.7548	-3.871	60445.275	2.5	D5S2(7S)4D	46967.444	2.5	4P (5D)4P	46967.444	2.5	749.6718	-0.765	102666.694	0.5	6S (5D)6D
741.8234	-4.817	105630.750	2.5	5D (5D)4G	92154.165	3.5	4SP(5D)6F	92154.165	3.5	750.2669	-3.614	105414.180	2.5	4D (3F)4G
742.1245	-1.445	102802.312	2.5	6S (5D)6D	89331.195	1.5	5P (5D)6D	89331.195	1.5	750.4132	-3.425	50142.786	2.5	D6S (3F)4F
742.1439	-3.602	78843.992	0.5	5S (5D)6D	92314.758	0.5	5P (5D)4P	92314.758	0.5	750.4235	-4.018	49506.934	1.5	D6S (3P)4P
742.2948	-2.937	30764.485	3.5	D6S (3G)2G	44232.512	4.5	4P (5D)4F	44232.512	4.5	750.4478	-7.707	25787.598	1.5	D6S (3P)2F
742.3183	-2.743	78577.280	4.5	D5S2(7S)2G	65109.679	3.5	4P (3F)2G	65109.679	3.5	750.6532	-0.483	78525.407	2.5	5S (5D)6D
742.3284	-4.031	84870.863	2.5	4D (5D)4D	98338.280	1.5	4SP(3P)4S	98338.280	1.5	750.8090	-4.081	105589.420	3.5	4D (3F)4H
742.5095	-3.522	58666.258	3.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	72130.390	4.5	750.8631	-4.286	105230.290	0.5	5D (5D)4D
742.9308	-2.865	85048.602	1.5	4D (5D)4D	98505.100	2.5	4SP(5D)4D	98505.100	2.5	751.0858	-4.340	104380.940	3.5	5D (5D)6F
742.9985	-4.274	49506.934	1.5	D6S (3P)4P	62962.205	1.5	4P (3P)4D	62962.205	1.5	751.2048	-4.050	103608.909	4.5	5S (3G)2G
743.5628	-3.371	105288.530	1.5	5D (5D)6G	91843.470	1.5	5P (5D)6P	91843.470	1.5	751.2484	-1.372	102030.912	3.5	6S (5D)6D
743.6775	-2.942	79885.493	2.5	5S (5D)4D	93328.480	1.5	4P (3F)4F	93328.480	1.5	751.2796	-4.237	105589.420	3.5	4D (3F)4H
743.9641	-3.441	105288.530	1.5	5D (5D)6G	91850.722	0.5	4SP(5D)6F	91850.722	0.5	751.3162	0.195	77861.625	4.5	5S (5D)6D
743.9751	-3.470	105711.730	2.5	5D (5D)6S	92274.120	2.5	4P (3P)4P	92274.120	2.5	751.3305	-3.519	85048.602	1.5	4D (5D)4D
744.1055	-4.675	105589.420	3.5	4D (3F)4H	92154.165	3.5	4SP(5D)6F	92154.165	3.5	751.5091	-2.712	60270.339	3.5	D5S2(7S)4D
744.1085	-4.996	105524.461	4.5	4D (3F)4H	92089.260	3.5	4SP(5G)4H	92089.260	3.5	751.5832	-3.634	31483.176	3.5	D6S (3D)4D
744.3517	-3.487	105449.540	3.5	5D (5D)4G	92018.729	2.5	4SP(5D)6F	92018.729	2.5	751.6241	-2.332	105630.750	2.5	5D (5D)4G
744.3587	-3.122	104630.430	1.5	5D (5D)6P	91199.746	0.5	5P (5D)4D	91199.746	0.5	751.7239	-3.457	85728.806	1.5	4D (5D)4S
744.5786	-2.695	79439.467	3.5	5S (5D)4D	66012.750	4.5	4P (3G)4F	66012.750	4.5	751.7806	-0.322	104873.230	3.5	5D (5D)4D
744.7187	-0.661	102543.648	1.5	6S (5D)6D	89119.457	2.5	5P (5D)6D	89119.457	2.5	751.9342	-4.222	105449.540	3.5	5D (5D)4G
744.8657	-2.185	104630.430	1.5	5D (5D)6P	91208.887	1.5	5P (5D)4F	91208.887	1.5	752.0304	-3.978	48039.090	2.5	D7 (5D)2D
744.9335	-3.583	31364.440	1.5	D6S (3D)4D	44784.761	2.5	4P (3D)4D	44784.761	2.5	752.0720	-2.465	78725.790	1.5	5S (5D)6D
745.1299	-4.798	88157.116	1.5	4D (5D)4P	101573.900	1.5	4SP(5D)4P	101573.900	1.5	752.2565	-3.817	85048.602	1.5	4D (5D)4D
745.1517	-0.548	102030.912	3.5	6S (5D)6D	88614.520	4.5	4SP(5P)6D	88614.520	4.5	752.5611	-1.297	105127.770	2.5	5D (5D)4D
745.2606	-2.916	105630.750	2.5	5D (5D)4G	92216.320	1.5	4P (3P)2D	92216.320	1.5	752.6852	-4.368	77230.900	4.5	D5S2(7S)2H
745.4003	-3.126	85184.734	4.5	4D (5D)4G	98596.650	4.5	4SP(5D)4F	98596.650	4.5	753.0735	-0.973	102394.718	1.5	6S (5D)4D
745.6358	-3.518	105524.461	4.5	4D (3F)4H	92116.780	4.5	4SP(5G)4H	92116.780	4.5	753.2110	-4.243	79885.493	2.5	5S (5D)4D
745.6826	-4.861	81639.260	2.5	D5S2(7S)2F	95046.100	2.5	4P (3F)2F	95046.100	2.5	753.2506	-1.718	105630.750	2.5	5D (5D)4G
745.7731	-4.467	105630.750	2.5	5D (5D)4G	92225.538	1.5	5P (5D)4P	92225.538	1.5	753.3367	-4.517	31483.176	3.5	D6S (3D)4D
746.0665	-3.263	81639.260	2.5	D5S2(7S)2F	95039.200	1.5	4P (3P)2P	95039.200	1.5	753.5903	-1.154	102394.718	1.5	6S (5D)4D
746.2407	-2.964	31387.948	2.5	D6S (3D)4D	44784.761	2.5	4P (5D)4P	44784.761	2.5	753.9394	-4.669	105414.180	2.5	4D (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
753.9669	-3.321	105589.420	3.5	4D (3F)4H	92329.890	2.5	4SP(5G)4F	762.6064	-3.299	85728.806	1.5	4D (5D)4S	726.19.490	2.5	4P (3D)4D
754.0242	-0.432	104426.460	2.5	5D (5D)6F	91167.937	3.5	5P (5D)6P	762.6224	-3.940	105127.770	2.5	5D (5D)4D	920.18.770	2.5	4SP(5D)6F
754.1730	-4.577	79439.467	2.5	5S (5D)4D	92695.374	2.5	4P (3P)2D	763.1539	-4.936	81639.260	2.5	D5S2(7S)2F	94739.170	1.5	4SP(5P)4P
754.3372	-0.964	104828.160	2.5	5D (5D)6D	91575.139	2.5	5P (5D)6P	763.1670	-2.174	104000.810	3.5	5D (5D)6F	90901.124	2.5	5P (5D)4P
754.3793	-4.262	50212.826	2.5	D6S (3P)4P	63465.109	1.5	4P (3F)4D	763.1959	-0.527	102543.648	1.5	6S (5D)6D	89444.458	2.5	4SP(5P)6P
754.7790	-4.679	88157.116	1.5	4D (5D)4F	101402.380	0.5	4SP(5D)4P	763.2955	-4.223	105524.461	4.5	4D (3F)4H	92426.980	4.5	4SP(5G)4F
754.8279	-1.567	79885.493	2.5	5S (3D)4D	93129.900	3.5	4P (3F)4D	763.3488	-4.623	54904.222	3.5	D6S (3F)2F	68000.788	4.5	4P (3G)2H
754.8651	-0.206	104411.690	4.5	5D (5D)6D	91167.937	3.5	5P (5D)6P	763.4774	-4.755	105211.140	4.5	5D (5D)4G	92116.780	4.5	4SP(5G)4H
754.9650	-3.248	105524.461	4.5	4D (3F)4H	92282.460	3.5	4SP(5G)4F	763.7059	-3.920	85679.698	2.5	4D (5D)4G	98770.140	1.5	4SP(5D)4D
755.1508	-3.743	82978.677	4.5	4D (5D)6F	96217.420	3.5	4SP(5P)4H	763.7391	-4.635	73492.215	3.5	D5S2(7S)4F	60402.342	2.5	4P (3F)2F
755.5212	-3.448	105398.852	5.5	4D (3F)4H	92171.716	4.5	4P (3F)2G	763.7898	-3.574	73393.745	4.5	D5S2(7S)4F	86482.750	3.5	4P (1F)2F
755.8135	-4.442	105398.852	5.5	4D (3F)4H	92171.716	4.5	4P (3F)2G	763.9173	-4.562	73395.930	2.5	D5S2(7S)4F	63272.976	2.5	4P (3F)4F
755.9008	-9.427	25787.598	1.5	D6S (3P)2P	39013.206	1.5	4P (5D)6D	764.0140	-3.130	50187.813	3.5	D6S (3F)4F	62172.976	2.5	4P (3F)4F
755.9728	-4.750	85462.862	3.5	4D (5D)4G	72238.513	2.5	4P (3D)4F	764.0650	-3.486	105414.180	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F
756.1415	-2.329	104120.270	2.5	5D (5D)6P	90898.873	1.5	4P (3P)4P	764.0837	0.049	101698.489	4.5	6S (5D)6D	88614.520	4.5	4SP(5P)6D
756.2106	-1.330	104000.810	3.5	5D (5D)6P	90780.621	3.5	5P (5D)4F	764.0882	-3.429	85048.602	1.5	4D (5D)4D	71964.710	2.5	4P (3D)4P
756.2703	-4.199	104120.270	2.5	5D (5D)6P	90901.124	2.5	5P (5D)4F	764.2611	-3.910	83136.487	3.5	4D (5D)6F	96217.420	3.5	4SP(5P)4D
756.3603	-2.910	104426.460	2.5	5D (5D)6F	91208.887	1.5	5P (5D)4F	764.5874	-2.929	78185.030	3.5	D5S2(7S)2G	65109.679	3.5	4P (3F)2G
756.3711	-1.520	80177.975	1.5	5S (5D)4D	93395.360	2.5	4P (3F)4F	764.7256	-3.059	85462.862	3.5	4D (5D)4G	98535.850	3.5	4SP(5D)4F
756.5273	-1.081	102334.112	2.5	6S (5D)6D	89119.457	2.5	5P (5D)6D	764.7668	-0.410	102543.648	1.5	6S (5D)6D	89471.365	0.5	5P (5D)6D
756.5829	-3.399	78577.280	4.5	D5S2(7S)2G	65363.595	5.5	4P (3H)2D	764.7722	-3.879	80346.016	0.5	5S (5D)4D	67273.826	1.5	4P (3F)2D
756.6219	-0.210	104380.940	3.5	5D (5D)6F	91167.937	3.5	5P (5D)6P	764.7825	-2.955	104120.270	2.5	5D (5D)6P	91048.256	1.5	5P (5D)4D
756.6897	-2.870	105127.770	2.5	5D (5D)4D	91915.950	1.5	4SP(5D)6F	764.7858	-1.698	78843.992	0.5	5S (5D)6D	91915.950	1.5	4SP(5D)6F
756.7343	-4.632	103608.909	4.5	5S (3G)2G	90397.868	3.5	5P (5D)4D	764.8208	-0.056	25787.598	1.5	D6S (3F)2P	38858.958	2.5	4P (5D)6D
756.7729	-3.679	54063.459	0.5	D6S (3P)2P	67273.826	1.5	4P (3F)2D	765.1445	-4.451	105155.090	4.5	4D (3F)4G	92089.260	3.5	4SP(5G)4H
756.9890	-3.101	85184.734	4.5	4D (5D)4G	98391.330	3.5	4SP(5D)4D	765.2388	-4.429	105711.730	2.5	5D (5D)6S	92647.510	1.5	4P (3F)4D
757.0489	-0.572	102334.112	2.5	6S (5D)6D	89128.561	3.5	4SP(5P)6P	765.3581	-3.106	105288.530	1.5	5D (5D)6G	92225.238	1.5	5P (5D)4P
757.1240	-2.464	85728.806	1.5	4D (5D)4S	72524.566	1.5	4P (3D)4D	765.3517	-3.866	79439.467	3.5	5S (5D)4D	66377.282	3.5	4P (3G)4F
757.4900	-4.062	105414.180	2.5	4D (3F)4G	92216.320	1.5	4P (3P)2D	765.4040	-3.980	81639.260	2.5	D5S2(7S)2F	94700.660	2.5	4P (3F)2D
757.6353	-1.030	102666.694	0.5	6S (5D)6D	89471.365	0.5	5P (5D)6D	765.4773	-3.421	50212.826	2.5	D6S (3F)4P	63272.976	2.5	4P (3F)4D
757.9322	-1.623	78725.790	1.5	5S (5D)6D	91915.950	1.5	4SP(5D)6F	765.5488	-3.851	31387.948	2.5	D6S (3F)4D	44446.878	3.5	4P (5D)4D
757.9406	-4.322	72730.900	4.5	D5S2(7S)2H	64040.886	3.5	4P (3F)4F	765.5634	-3.796	105211.140	4.5	5D (5D)4G	92154.165	3.5	4SP(5D)6F
758.1104	-4.244	105205.790	2.5	5D (5D)6G	92018.729	2.5	4SP(5D)6F	765.7458	-2.581	105414.180	2.5	4D (3F)4G	92358.610	1.5	4SP(5G)4F
758.3678	-3.941	80177.975	1.5	5S (5D)4D	67000.517	2.5	4P (3P)2D	765.7502	-2.900	104630.430	1.5	5D (5D)6P	91575.139	2.5	5P (5D)6P
758.6674	-0.483	102030.912	3.5	6S (5D)6D	88853.533	3.5	5P (5D)6D	765.7622	-2.784	60445.275	2.5	D5S2(7S)4D	47389.779	1.5	4P (5D)4P
758.7254	-4.690	102802.312	2.5	6S (5D)4D	89625.940	1.5	4SP(5P)6P	765.8190	-4.934	48039.090	2.5	D7 (5D)2D	61093.413	2.5	4P (3P)2D
758.7802	-2.388	105449.540	3.5	5D (5D)4G	92274.120	2.5	4P (3P)4F	765.9991	-3.456	60441.033	1.5	D5S2(7S)4D	47389.779	1.5	4P (5D)4P
758.8487	-3.520	105291.010	3.5	4D (3F)4G	92116.780	4.5	4SP(5G)4H	766.0884	-0.162	78525.407	2.5	5S (5D)6D	91575.139	2.5	5P (5D)6P
759.0942	-1.993	103950.590	4.5	5D (5D)6F	90780.621	3.5	5P (5D)4F	766.0884	-0.162	78525.407	2.5	5S (5D)6D	91575.139	2.5	5P (5D)6P
759.2608	-2.228	105449.540	3.5	5D (5D)4G	92282.460	3.5	4SP(5P)4F	766.2546	-3.274	105065.630	3.5	5D (5D)6G	91070.547	2.5	5P (5D)4F
759.3536	-4.134	85172.809	0.5	4D (5D)4D	98338.280	1.5	4SP(5P)4S	766.5286	-2.553	85462.862	3.5	4D (5D)4G	92018.729	2.5	4SP(5P)6F
759.4825	-2.611	79439.467	3.5	5S (5D)4D	92602.703	3.5	4P (3F)2G	766.6940	-3.529	105211.140	4.5	5D (5D)4G	89625.940	1.5	4SP(5D)4D
760.1568	-4.011	73395.930	2.5	D5S2(7S)4F	86547.490	2.5	4P (1F)2F	766.9400	-3.360	105288.847	6.5	4D (3F)4H	92250.210	6.5	4SP(5G)4H
760.2178	-1.949	80177.975	1.5	5S (5D)4D	93328.480	1.5	4P (3F)4F	767.2369	-5.424	25428.784	5.5	D6S (3F)4G	38458.981	4.5	4P (3H)2H
760.3601	-4.457	73395.930	2.5	D5S2(7S)4F	86543.974	1.5	4P (3F)4F	767.3635	-4.098	105630.750	2.5	5D (5D)4G	92602.703	3.5	4P (3F)2G
760.3974	-4.412	85048.602	1.5	4D (5D)4D	98196.000	1.5	4SP(5D)4F	767.5652	-4.702	49100.976	0.5	D6S (3P)4P	62125.600	1.5	4P (3P)2D
760.8221	-4.236	105414.180	2.5	4D (3F)4G	92274.120	2.5	4P (3P)4F	767.6497	-4.078	85172.809	0.5	4D (5D)4D	98196.000	1.5	4SP(5D)4F
761.1854	-4.754	85462.862	3.5	4D (5D)4G	98596.650	4.5	4SP(5D)4F	767.6869	-3.753	105449.540	3.5	5D (5D)4G	92426.980	4.5	4SP(5G)4F
761.3053	-4.987	105414.180	2.5	4D (3F)4G	92282.460	3.5	4SP(5G)4F	767.7788	-4.159	78577.280	4.5	D5S2(7S)2G	65556.280	4.5	4P (3H)2H
761.3887	-0.451	104705.420	3.5	5D (5D)6D	91575.139	2.5	5P (5D)6P	768.0213	-3.209	105291.010	3.5	4D (3F)4G	92274.120	2.5	4P (3P)4P
761.3940	-4.938	50142.786	2.5	D6S (3F)4F	63272.976	2.5	4P (3F)4D	768.1936	-4.023	105230.290	0.5	5D (5D)4D	92216.320	1.5	4P (3P)2D
761.4176	-3.715	85172.809	0.5	4D (5D)4D	72043.026	1.5	4P (3D)4P	768.2091	-3.634	79885.493	2.5	5S (5D)4D	92899.200	2.5	4P (3F)4D
761.6990	-3.826	78725.790	1.5	5S (5D)6D	91850.722	0.5	4SP(5D)6F	768.2171	-0.539	104588.710	1.5	5D (5D)6D	91575.139	2.5	5P (5D)6P
761.8762	-4.511	105211.140	4.5	5D (5D)4G	92089.280	3.5	4SP(5G)4H	768.5137	-3.369	105291.010	3.5	4D (3F)4G	92882.460	3.5	4SP(5G)4F
762.0057	-1.683	105449.540	3.5	5D (5D)4G	92329.890	2.5	4SP(5G)4F	768.6212	-4.255	78843.992	0.5	5S (5D)6D	91850.722	0.5	4SP(5D)6F
762.0264	-4.894	105291.010	3.5	4D (3F)4G	92171.716	4.5	4P (3F)2G	768.6894	-2.905	85048.602	1.5	4D (5D)4D	72043.026	1.5	4P (3D)4P
762.1201	-0.284	78725.790	1.5	5S (5D)6D	91843.470	1.5	5P (5D)6P	768.7381	-2.942	105230.290	0.5	5D (5D)4D	92225.238	1.5	5P (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
768.7937	-4.452	85172.809	0.5	4D (5D)4D	72168.998	1.5	4P (3D)4F	775.5563	-3.392	79439.467	3.5	5S (5D)4D	92329.890	2.5	4SP(5C)4F
768.8466	-0.152	102334.112	2.5	6S (5D)6D	89331.195	1.5	5P (5D)6D	775.6026	-0.349	102334.112	2.5	6S (5D)6D	89444.458	2.5	4SP(5P)6P
768.9644	-4.770	105155.090	4.5	4D (3F)4G	92154.165	1.5	4SP(5D)6F	775.8048	-3.989	50075.910	1.5	D6S (3F)4F	62962.205	1.5	4P (3F)4D
769.0500	-0.411	78843.992	0.5	5S (5D)6D	91843.470	1.5	5P (5D)6P	775.8842	-3.742	79885.493	2.5	5S (5D)4D	67000.517	2.5	4P (3F)2D
769.1825	-4.604	78577.280	4.5	D5S2(7S)2G	65580.041	5.5	4P (3G)4G	776.2078	-4.106	85048.602	1.5	4D (5D)4D	72168.998	1.5	4P (3D)4F
769.3392	-4.445	60384.370	0.5	D5S2(7S)4D	47389.779	1.5	4P (5D)4D	776.3449	-5.979	25981.629	3.5	D6S (3G)4G	38858.958	2.5	4P (5D)6D
769.5194	-4.312	73492.215	3.5	D5S2(7S)4F	86482.750	3.5	4P (1F)2F	776.4311	-4.443	105205.790	2.5	5D (5D)6G	92329.890	2.5	4SP(5C)4F
769.6425	-4.645	105205.790	2.5	5D (5D)6G	92216.320	1.5	4P (3P)2D	776.6091	-2.996	60270.339	3.5	D5S2(7S)4D	73143.288	3.5	4P (1G)2G
769.7006	-3.490	105155.090	4.5	4D (3F)4G	92166.600	5.5	4SP(5G)4H	776.6283	-2.466	105155.090	4.5	4D (3F)4G	92282.460	3.5	4SP(5C)4F
769.7585	-1.270	79439.467	3.5	5S (5D)4D	92426.980	4.5	4SP(5G)4F	776.6856	-3.102	105230.290	0.5	5D (5D)4D	92358.610	1.5	4SP(5C)4F
769.8057	-4.292	105589.420	3.5	4D (3F)4H	92602.703	3.5	4P (3F)2G	777.1475	-4.209	105291.010	3.5	4D (3F)4G	92426.980	4.5	4SP(5C)4F
769.9259	-0.617	104828.160	2.5	5D (5D)6D	91843.470	1.5	5P (5D)6P	777.3421	-3.196	79439.467	3.5	5S (5D)4D	92300.277	4.5	4SP(5D)6F
770.0118	-2.496	105630.016	0.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	777.4392	-3.196	83136.487	3.5	4D (5D)6F	95995.690	2.5	4SP(5P)4D
770.0579	-1.564	80346.016	0.5	5S (5D)4D	93328.480	1.5	4P (3F)4F	777.6237	-4.566	85679.698	2.5	4D (5D)4G	98535.850	3.5	4SP(5D)4F
770.1891	-4.722	105205.790	2.5	5D (5D)6G	92225.538	1.5	5P (5D)4P	777.7107	-5.521	25805.328	4.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D
770.4956	0.006	101698.489	4.5	6S (5D)6D	88723.400	4.5	5P (5D)6D	777.7236	-2.868	104873.230	3.5	5D (5D)4D	92018.729	2.5	4SP(5D)6F
770.5837	-4.283	105127.770	2.5	5D (5D)4D	92154.165	3.5	4SP(5D)6F	777.7751	-2.940	105127.770	2.5	5D (5D)4D	92274.120	2.5	4P (3P)4P
770.6866	-3.180	105398.852	5.5	4D (3F)4H	92426.980	4.5	4SP(5G)4F	777.9161	-0.995	104426.460	2.5	5D (5D)6F	91575.139	2.5	5P (5D)6P
771.0410	-2.452	81734.750	3.5	D5S2(7S)2F	94700.660	2.5	4P (3F)2D	778.0355	-0.601	78725.790	1.5	5S (5D)6D	91575.139	2.5	5P (5D)6P
771.1435	-3.497	57411.065	2.5	D5S2(7S)4F	44446.878	3.5	4P (5D)4D	778.1668	-3.646	105205.790	2.5	5S (5D)6G	92358.610	1.5	4SP(5C)4F
771.1724	-2.773	31483.176	3.5	D6S (3D)4D	44446.878	3.5	4P (5D)4D	778.1876	-2.609	105449.540	3.5	5D (5D)4G	92602.703	3.5	4P (3F)2G
771.3260	-2.633	105291.010	3.5	4D (3F)4G	92329.890	2.5	4SP(5G)4F	778.2801	-2.847	105127.770	2.5	5D (5D)6D	92282.460	3.5	4SP(5C)4F
771.4027	-2.938	85172.809	0.5	4D (5D)4D	72121.978	0.5	4P (3D)4F	778.3015	-0.002	101698.489	4.5	6S (5D)6D	88853.533	3.5	5P (5D)6D
771.5246	-6.756	26055.423	2.5	D6S (3G)4G	39013.206	1.5	4P (5D)6D	778.3975	-4.813	85462.862	3.5	4D (5D)4G	72619.490	2.5	4P (3D)4D
771.8493	-1.171	104120.270	2.5	5D (5D)6P	91167.937	3.5	5P (5D)6P	778.4392	-2.260	79439.467	3.5	5S (5D)4D	92282.460	3.5	4SP(5C)4F
771.8842	-4.494	102842.119	4.5	5S (3G)4G	89890.373	3.5	4P (3F)4G	778.5316	-2.302	104757.110	0.5	5D (5D)6D	91915.950	1.5	4SP(5D)6F
771.9680	-4.275	81734.750	3.5	D5S2(7S)2F	94685.090	2.5	4SP(5D)6P	778.8674	-3.022	85048.602	1.5	4D (5D)4D	72212.978	0.5	4P (3D)4P
771.9728	-2.754	102394.718	3.5	6S (5D)4D	89444.458	2.5	4SP(5P)6P	778.9010	-4.790	105288.530	1.5	5D (5D)6G	92453.460	0.5	4P (3F)4D
772.1809	-3.717	105063.550	5.5	4D (3F)4G	92116.780	4.5	4SP(5G)4H	778.9263	-2.118	79439.467	3.5	5S (5D)4D	92274.120	2.5	4P (3P)4P
772.3130	-2.967	77230.900	4.5	D5S2(7S)2H	64286.810	3.5	4P (3F)2D	779.0344	-0.845	104000.310	3.5	5D (5D)6P	91167.937	3.5	5P (5D)6P
772.8611	-3.120	105630.750	2.5	5D (5D)4G	92695.374	2.5	4P (3P)2D	779.0350	-1.320	78237.685	3.5	5S (5D)6D	91070.547	2.5	5P (5D)4F
773.0826	-4.554	105205.790	2.5	5D (5D)6G	92274.120	2.5	4P (3P)4F	779.0443	-4.613	85184.734	4.5	4D (5D)4G	72352.024	3.5	4P (3D)4F
773.1674	-0.260	104000.810	3.5	5D (5D)6P	91070.547	2.5	5P (5D)4F	779.3402	-4.482	103608.909	4.5	5S (3G)2G	90780.621	3.5	5P (5D)4F
773.2614	-1.618	105211.140	4.5	5D (5D)4G	91167.937	3.5	5P (5D)6P	779.3402	-2.609	84870.863	2.5	4D (3D)4P	72043.026	1.5	4P (3D)4P
773.2740	-4.749	85462.862	3.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F	779.4882	-3.458	85679.698	2.5	4D (5D)4G	98505.100	2.5	4SP(5D)4D
773.6756	-3.588	10524.461	4.5	4D (3F)4H	98391.330	3.5	4SP(5D)4D	779.7405	-3.741	60270.339	3.5	D5S2(7S)4D	73091.590	4.5	4P (1G)2G
773.8410	-2.180	77861.625	4.5	5S (5D)6D	90780.621	3.5	5P (5D)4F	779.8520	-3.675	50142.786	2.5	D6S (3F)4F	62962.205	1.5	4P (3F)2G
773.9182	-0.752	102543.648	1.5	6S (5D)6D	89625.940	1.5	4SP(5P)6P	780.0414	-4.583	102543.648	1.5	6S (5D)6D	89727.342	2.5	4P (3F)4G
773.9508	-4.195	79439.467	3.5	5S (5D)4D	66522.304	2.5	4P (3G)4F	780.1235	-3.261	60441.033	1.5	D5S2(7S)4D	47626.076	0.5	4P (3P)2D
774.0485	-1.271	105230.290	0.5	5D (5D)4D	92314.750	0.5	5P (5D)4F	780.2220	-3.666	105063.550	5.5	4D (3F)4G	92250.210	6.5	4SP(5C)4H
774.1620	-0.864	104757.110	0.5	5D (5D)6D	91843.470	1.5	5P (5D)6P	780.2713	-3.794	105711.730	2.5	5D (5D)6S	92899.200	2.5	4P (3F)4D
774.2477	-1.865	104828.160	2.5	5D (5D)6D	91915.950	1.5	4SP(5D)6F	780.3354	-4.549	105414.180	2.5	4D (3F)4G	92602.703	3.5	4P (3F)2G
774.2639	-4.961	102802.312	2.5	6S (5D)4D	89890.373	3.5	4P (3F)4G	780.4326	-3.042	79885.493	2.5	5S (5D)4D	92695.374	2.5	4P (3P)2D
774.2924	-4.050	105065.630	3.5	5D (5D)6G	92154.165	3.5	4SP(5D)6F	780.4601	-4.108	104828.160	2.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
774.2930	-0.053	102030.912	3.5	6S (5D)6D	89119.457	2.5	5P (5D)6D	780.4877	-3.294	108804.667	3.5	5S (3D)4D	95995.690	2.5	4SP(5P)4D
774.2933	-4.728	105127.770	2.5	5D (5D)4D	92216.320	1.5	4P (3P)2D	780.6813	-4.806	104380.940	3.5	D5S2(7S)4D	73189.110	1.5	4P (3D)2P
774.2973	-2.906	104120.270	2.5	5D (5D)6P	91208.887	1.5	5P (3P)2D	780.8195	-6.800	26055.423	2.5	D6S (3G)4G	38858.958	2.5	4P (5D)6D
774.3285	-4.292	105211.140	4.5	5D (5D)4G	96230.277	4.5	4SP(5D)6F	780.8576	-3.766	60384.370	0.5	D5S2(7S)4D	73187.280	0.5	4P (3D)2P
774.4267	-4.404	83308.194	2.5	4D (5D)6F	96217.420	3.5	4SP(5P)4D	781.0754	-2.800	102842.119	4.5	5S (3G)4G	90042.779	4.5	4P (3F)4G
774.5970	-4.229	104757.110	0.5	5D (5D)6D	91850.722	0.5	4SP(5D)6F	781.1645	-3.887	105127.770	2.5	5D (5D)4D	92329.890	2.5	4SP(5C)4F
774.6111	-2.727	84870.863	2.5	4D (5D)4D	71964.710	2.5	4P (3D)4P	781.5535	-3.487	105065.630	3.5	5D (5D)6G	92274.120	2.5	4P (3P)4P
774.7314	-3.860	80177.975	1.5	5S (5D)4D	67273.826	1.5	4P (3F)2D	781.7933	-3.018	50157.452	4.5	D6S (3F)4F	62945.038	3.5	5P (5D)6P
774.8393	-0.111	102030.912	3.5	6S (5D)6D	89128.561	3.5	4SP(5P)6P	781.8316	-0.462	104630.430	1.5	5D (5D)6P	91843.470	1.5	5P (5D)6P
774.8465	-2.510	105127.770	2.5	5D (5D)4D	92225.538	1.5	5P (5D)4P	781.9795	-4.153	60270.339	3.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F
775.3384	-4.939	105589.420	3.5	4D (3F)4H	92695.374	2.5	4P (3P)2D	782.0028	-2.140	105211.140	4.5	5D (5D)4G	92426.980	4.5	4SP(5C)4F
775.4714	-3.749	105063.550	5.5	4D (3F)4G	92171.716	4.5	4P (3F)2G	782.0145	-4.627	104075.230	3.5	5D (5D)4D	92089.260	3.5	4SP(5C)4H
775.4736	-2.907	85462.862	3.5	4D (5D)4G	98354.660	2.5	4SP(5D)4F	782.0634	-3.927	105065.630	3.5	5D (5D)6G	92282.460	3.5	4SP(5C)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
782.0950	-0.932	103950.590	4.5	5D (5D)6F	91167.937	3.5	5P (5D)6F	788.9121	-1.359	103265.694	0.5	6S (5D)4D	90593.497	1.5	5P (5D)6F
782.2753	-4.725	104630.430	1.5	5D (5D)6F	91850.722	0.5	4SP(5D)6F	789.4577	-2.089	78237.685	3.5	5S (5D)6D	90901.124	2.5	5P (5D)4F
782.3039	-4.155	104868.500	4.5	5D (5D)6G	92089.260	3.5	4SP(5G)4H	789.6230	-3.364	102584.963	5.5	5S (3G)4G	89924.175	5.5	5P (5D)6F
782.4515	-3.186	105230.290	0.5	5D (5D)4D	92453.460	0.5	4P (3F)4D	790.0662	-6.325	25805.328	4.5	D6S (3G)4G	38458.981	4.5	4P (5D)6D
782.4843	-4.646	85728.806	1.5	4D (5D)4S	98505.100	2.5	4SP(5D)4D	790.4083	-3.732	85172.809	0.5	4D (5D)4D	72524.566	1.5	4P (3D)4D
782.5775	-4.394	102842.119	4.5	5S (3G)4G	90067.347	4.5	5P (5D)6F	790.5498	-4.140	78577.280	4.5	D5S2(7S)2G	65931.334	3.5	4P (3G)4G
782.9215	-4.714	105127.770	2.5	5D (5D)4D	92358.610	1.5	4SP(5G)4F	790.6322	-4.651	49506.934	1.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F
782.9744	-2.584	73393.745	4.5	D5S2(7S)4F	60625.449	5.5	4P (3H)4G	790.6980	-4.941	99573.225	4.5	5S (3F)4F	86299.649	3.5	4P (3P)4D
783.0742	-3.372	105414.180	2.5	4D (3F)4G	92647.510	1.5	4P (3F)4G	790.7634	-0.949	78525.407	2.5	5S (5D)6D	91167.937	3.5	5P (5D)6P
783.2826	-4.379	105063.550	5.5	4D (3F)4G	92300.277	4.5	4SP(5D)6F	791.1364	-2.205	105063.550	5.5	4D (3F)4G	92426.980	4.5	4SP(5G)4F
783.3597	-3.578	99885.493	2.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	791.1851	-3.834	103265.694	0.5	6S (5D)4D	90629.902	1.5	4P (3P)4S
783.5641	-4.969	96688.337	3.5	5S (3F)4F	86929.649	3.5	4P (3P)4D	791.4006	-4.682	84870.863	2.5	6S (5D)4D	72238.513	2.5	4P (3D)4F
783.5883	-3.389	60384.370	0.5	D5S2(7S)4D	47626.076	0.5	4P (5D)4F	791.5109	-0.852	103118.400	1.5	6S (5D)4D	90487.810	2.5	5P (5D)6F
783.6539	-4.011	50187.813	3.5	D6S (3F)4F	62945.038	3.5	4P (3F)4D	791.5216	-4.808	102842.119	4.5	5S (3G)4G	90211.700	5.5	4P (3F)4G
783.8419	-2.487	105449.540	3.5	5D (5D)4G	92695.374	2.5	4P (3P)2D	791.6262	-3.385	78185.030	3.5	D5S2(7S)2G	65556.280	4.5	4P (3H)2H
783.9034	-3.599	50075.910	1.5	D6S (3F)4F	62829.075	0.5	4P (3P)2D	791.7796	-4.470	57411.065	2.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D
784.0070	-4.562	73637.340	1.5	D5S2(7S)4F	86388.820	0.5	4P (3P)4D	791.8078	-4.993	85728.806	1.5	4D (5D)4S	98354.660	2.5	4SP(5D)4F
784.1362	-3.884	50212.826	2.5	D6S (3P)4F	62962.205	1.5	4P (3P)4D	792.0694	-3.295	104630.430	1.5	5D (5D)6P	73018.729	2.5	4SP(5D)6F
784.1388	-3.719	31483.176	3.5	D6S (3D)4D	44232.512	4.5	4P (5D)4F	792.2447	-3.222	85048.602	1.5	4D (5D)4D	72429.711	0.5	4P (3D)4D
784.2163	-3.613	60441.033	1.5	D5S2(7S)4D	73189.110	1.5	4P (3D)2P	792.3335	-2.156	103265.694	0.5	6S (5D)4F	90648.217	0.5	5P (5D)6F
784.3041	-3.734	104863.430	5.5	5D (5D)4G	92116.780	4.5	4SP(5G)4H	792.4162	-4.571	104705.420	3.5	5D (5D)6D	92089.260	3.5	4SP(5G)4H
784.3289	-3.801	60441.033	1.5	D5S2(7S)4D	73187.280	0.5	4P (3D)2P	792.5615	-3.862	60441.033	1.5	D5S2(7S)4D	73018.729	2.5	4SP(5D)6F
784.3456	-4.488	84710.685	3.5	4D (5D)6G	71964.710	2.5	4P (3D)4F	792.6985	-4.753	79885.493	2.5	5S (5D)4D	67273.826	1.5	4P (3F)2D
784.3559	-2.422	60270.339	3.5	D5S2(7S)4D	73016.147	3.5	4P (1G)2F	792.8281	-4.053	60445.275	2.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F
784.3908	-1.832	104588.710	1.5	5D (5D)6D	91843.470	1.5	5P (5D)6F	792.9016	-1.998	105211.140	4.5	5D (5D)4G	92602.703	3.5	4P (3F)2G
784.4773	-3.839	60445.275	2.5	D5S2(7S)4D	73189.110	1.5	4P (3D)2P	793.1417	-7.708	26055.423	2.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D
784.5227	-3.361	85172.809	0.5	4D (5D)4D	72429.711	0.5	4P (3D)4D	793.2675	-2.603	104828.160	2.5	5D (5D)6D	92225.538	1.5	5P (5D)4P
784.9759	-3.319	105065.630	3.5	5D (5D)6G	92329.890	2.5	4SP(5G)4F	793.4886	-4.601	104873.230	3.5	5D (5D)4D	92274.120	2.5	4P (3P)4D
785.1912	-2.737	79439.467	3.5	5S (5D)4G	92171.716	4.5	4P (3F)2G	793.7074	-3.276	105291.010	3.5	4D (3F)4G	92695.374	2.5	4P (3P)2D
785.2343	-2.993	105630.750	2.5	5D (5D)4G	92899.200	2.5	4P (3F)4D	794.0142	-3.834	104873.230	3.5	5D (5D)4D	92282.460	3.5	4SP(5G)4F
785.4465	-3.268	105155.090	4.5	4D (3F)4G	92426.980	4.5	4SP(5G)4F	794.2364	-2.717	108804.667	3.5	5S (3D)4D	60807.420	3.5	4SP(5P)4D
785.8716	-1.869	80177.495	1.5	5S (5D)4D	92899.200	2.5	4P (3F)4D	794.2826	-4.254	73933.745	4.5	D5S2(7S)4F	68017.230	4.5	4SP(5P)4D
785.9171	-2.180	84685.198	3.5	4D (5D)4D	71964.710	2.5	4P (3D)4F	794.2865	-1.886	102030.912	3.5	6S (5D)6D	89444.458	2.5	4SP(5P)6P
786.0051	-3.544	104873.230	3.5	5D (5D)4D	92154.165	3.5	4SP(5D)6F	794.3126	-2.758	104868.500	4.5	5D (5D)6G	92282.460	3.5	4SP(5D)6F
786.0211	-4.199	105414.180	2.5	4D (3F)4G	92695.374	2.5	4P (3P)2D	794.5051	-1.972	104426.460	2.5	5D (5D)6F	91843.470	1.5	5P (5D)6P
786.1197	-1.962	79885.493	2.5	5S (5D)4D	92602.703	3.5	4P (3F)2G	794.5184	-3.957	105230.290	0.5	5S (5D)4D	92018.729	2.5	4SP(5D)6F
786.2750	-4.933	79439.467	3.5	5S (5D)4D	92154.165	3.5	4SP(5D)6F	794.7406	-4.422	79439.467	3.5	5S (5D)4D	73016.147	3.5	4P (1G)2F
786.2885	-1.838	104630.430	1.5	5D (5D)6P	91915.950	1.5	4SP(5D)6F	795.2710	-2.997	60445.275	2.5	D5S2(7S)4D	73016.147	3.5	4P (1G)2F
786.2975	-2.977	104868.500	4.5	5D (5D)6G	92154.165	3.5	4SP(5D)6F	795.3274	-3.371	104588.710	1.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
786.6548	-3.621	57493.321	1.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D	795.3274	-3.371	104588.710	1.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
786.6788	-3.559	102334.112	2.5	6S (5D)6D	89625.940	1.5	4SP(5P)6P	795.3307	-1.084	101698.489	4.5	6S (5D)6D	89128.561	3.5	4SP(5P)6P
787.0694	-3.599	84870.863	2.5	4D (5D)4D	72168.998	1.5	4P (3D)4F	795.4386	-3.726	104868.500	4.5	5D (5D)6G	92300.277	4.5	4SP(5D)6F
787.0912	-4.399	104873.230	3.5	5D (5D)4D	92171.716	4.5	4P (3F)2G	795.6724	-4.804	78577.280	4.5	D5S2(7S)2G	66012.750	4.5	4P (3G)4F
787.3082	-3.455	60445.275	2.5	D5S2(7S)4D	73143.288	3.5	4P (1G)2G	795.7596	-3.655	104863.430	5.5	5D (5D)4G	92300.277	4.5	4SP(5D)6F
787.3844	-4.672	104868.500	4.5	5D (5D)6G	92171.716	4.5	4P (3F)2G	796.4422	-2.786	105155.090	4.5	4D (3F)4G	92602.703	3.5	4P (3F)2G
787.6788	-2.738	104863.430	5.5	5D (5D)4G	92171.716	4.5	4P (3F)2G	796.5140	-3.446	104705.420	3.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F
787.9899	-2.738	105389.420	3.5	4D (3F)4H	92899.200	2.5	4P (3F)4D	796.5140	-3.446	104705.420	3.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F
787.9105	-3.829	105291.010	3.5	4D (3F)4G	92602.703	3.5	4P (3F)2G	796.6028	-4.609	83308.194	2.5	4D (5D)6F	95858.050	1.5	4P (3G)4F
788.9608	-3.722	83308.194	2.5	4D (5D)6F	93995.690	2.5	4SP(5P)4D	796.6446	-4.405	54063.656	1.5	D6S (3G)4F	66612.656	1.5	4P (3G)4F
788.1018	-2.682	104705.420	3.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F	796.7714	-3.773	50142.786	2.5	D6S (3F)4F	62689.880	2.5	4P (3P)4D
788.1168	-2.937	73492.215	3.5	D5S2(7S)4F	60807.230	4.5	4P (3H)4G	796.8667	-3.900	104828.160	2.5	5D (5D)6D	92282.460	3.5	4SP(5G)4F
788.2103	-2.575	78525.420	2.5	5S (5D)6D	91208.887	1.5	5P (5D)4F	796.9022	-1.025	78525.420	2.5	5S (5D)6D	91070.547	2.5	5P (5D)4F
788.5253	-6.308	25981.609	3.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D	796.9028	-1.136	104120.270	2.5	5D (5D)6P	91575.139	2.5	5P (5D)6P
788.5937	-3.792	79439.467	3.5	5S (5D)4D	92116.780	4.5	4SP(5G)4H	796.9793	-3.926	73637.340	1.5	D5S2(7S)4F	61093.413	2.5	4P (3P)2D
788.7400	-3.503	85679.698	2.5	4D (5D)4G	98354.660	2.5	4SP(5D)4F	797.0166	-4.306	104873.230	3.5	5D (5D)4D	92329.890	2.5	4SP(5G)4F
788.8002	-3.916	104828.160	2.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F	797.0423	-0.633	78237.685	3.5	5S (5D)6D	90780.621	3.5	5P (5D)4F
788.8771	-2.941	104588.710	1.5	4SP(5D)6F	91915.950	1.5	4SP(5D)6F	797.1242	-4.699	78237.685	3.5	5S (5D)6D	65696.038	4.5	4P (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
797.1339	-2.820	102842.119	4.5	5D (3G)4G	804.5291	-0.657	103265.694	0.5	6S (5D)4D	90339.480	0.5	4P (3P)4P					
797.2482	-4.375	85728.806	1.5	4D (5D)4S	804.5643	-1.519	104000.810	3.5	5P (5D)6P	91575.139	2.5	5P (5D)6P					
797.4678	-1.855	77861.825	4.5	5S (5D)6D	804.8309	-3.577	104593.270	5.5	5D (5D)6G	92171.716	4.5	4P (3F)2G					
797.4820	-4.163	83459.670	1.5	4D (5D)6F	805.4797	-2.668	86124.301	4.5	4D (5D)4F	98535.850	3.5	4SP(5D)4F					
797.5193	-4.183	73492.215	3.5	D5S2(7S)4F	805.7276	-3.298	104426.460	2.5	5D (5D)6F	92018.727	2.5	4SP(5D)6F					
797.5904	-4.065	57578.484	0.5	D5S2(7S)4F	805.8957	-4.370	104705.420	3.5	5D (5D)6D	92300.279	4.5	4SP(5D)6F					
797.6294	-4.237	104705.420	3.5	5D (5D)6D	805.8982	-4.408	83812.316	2.5	4D (5D)6D	96217.420	3.5	4SP(5F)4D					
797.6832	-4.613	85184.734	4.5	4D (5D)4G	805.9120	-2.933	104630.430	1.5	5D (5D)6P	92225.538	1.5	5P (5D)4D					
797.7651	-3.997	104757.110	0.5	5D (5D)6D	805.9504	-4.523	73393.745	4.5	D5S2(7S)4F	90989.444	4.5	4P (3H)4H					
798.1794	-3.210	105127.770	2.5	5D (5D)4D	806.0155	-2.402	54870.528	2.5	D6S (3F)2F	67273.826	1.5	4P (3F)2D					
798.1898	-1.111	77861.825	4.5	5S (5D)6D	806.1560	-3.420	78237.685	3.5	5S (5D)6D	90638.822	2.5	5P (5D)4D					
798.1898	-3.619	103118.400	1.5	6S (5D)4D	806.2977	-3.270	77230.900	4.5	D5S2(7S)2H	64831.943	4.5	4P (3F)2G					
798.2451	-3.274	85048.602	1.5	4D (5D)4D	806.3078	-3.263	73492.215	3.5	D5S2(7S)4F	61093.413	2.5	4P (3F)2D					
798.3208	-1.811	78525.407	2.5	5S (5D)6D	806.3149	-4.971	54273.641	4.5	D5S2(7S)4G	66672.334	3.5	4P (3G)4H					
798.6545	-3.099	102584.963	5.5	5S (3G)4G	806.3353	-3.854	83459.670	1.5	4D (5D)6F	92858.050	1.5	4SP(5G)4F					
798.6683	-2.397	80177.975	1.5	5S (5D)4D	806.4272	-1.579	79885.493	2.5	5S (5D)4D	95282.460	3.5	4SP(5G)4F					
798.7383	-2.306	85679.698	2.5	4D (5D)4G	806.4447	-4.995	54275.637	2.5	D5S2(7S)4G	66672.334	3.5	4P (3G)4H					
798.8227	-4.862	105414.180	2.5	4D (3F)4G	806.5837	-3.550	105524.461	4.5	4D (3F)4H	93129.900	3.5	4P (3F)4D					
799.1081	-3.638	104426.460	2.5	5D (5D)6F	806.7628	-3.313	105291.010	3.5	4D (3F)4G	92899.200	2.5	4P (3F)4D					
799.3869	-4.862	73393.745	4.5	D5S2(7S)4F	806.9383	-4.331	54283.220	3.5	D5S2(7S)4G	66672.334	3.5	4P (3G)4H					
799.4735	-4.471	50157.452	4.5	D6S (3F)4F	806.9700	-2.944	79885.493	2.5	5S (5D)4D	92274.120	2.5	4P (3F)4P					
799.6028	-3.910	73492.215	3.5	D5S2(7S)4F	807.2261	-4.997	87985.628	2.5	4D (5D)4P	75600.931	3.5	4P (3G)2F					
799.6478	-3.668	50187.813	3.5	D6S (3F)4F	807.3204	-2.953	105711.730	2.5	5D (5D)6S	93328.480	1.5	4P (3F)4F					
799.6721	-0.475	102802.312	2.5	6S (5D)4D	807.4321	-2.538	60270.339	3.5	D5S2(7S)4D	72551.876	3.5	4P (3D)4D					
799.7257	-3.912	105630.750	2.5	5D (5D)4G	807.4447	-4.677	84424.370	1.5	4D (5D)6P	72043.026	1.5	4P (3D)4P					
799.8907	-4.286	104828.160	2.5	5D (5D)6D	807.5116	-2.717	60270.339	3.5	D5S2(7S)4D	72650.658	4.5	4P (3D)4F					
800.3527	-3.352	83726.364	4.5	4D (5D)6D	807.8119	-1.372	78525.407	2.5	5S (5D)6D	90901.124	2.5	5P (5D)4P					
800.4850	-4.406	78185.030	3.5	D5S2(7S)2G	807.8241	-3.529	104705.420	3.5	5D (5D)6D	92329.890	2.5	4SP(5G)4F					
800.8630	-1.526	78725.790	1.5	5S (5D)6D	807.9588	-2.023	78525.407	2.5	5S (5D)6D	90988.873	1.5	4P (3F)4P					
801.0451	-3.209	105127.770	2.5	5D (5D)4D	807.9721	-2.826	102584.963	5.5	5S (3G)4G	90211.700	5.5	4P (3F)4G					
801.0888	-1.632	103118.400	1.5	6S (5D)4D	808.0865	-4.499	54902.315	1.5	D6S (3F)2P	67273.826	1.5	4P (3F)2D					
801.2317	-7.559	25981.629	3.5	D6S (3G)4G	808.1685	-4.279	105065.630	3.5	5D (5D)6G	42695.374	2.5	4P (3F)2D					
801.2509	-3.478	50212.826	2.5	D6S (3P)4G	808.3880	-4.758	57411.065	2.5	D5S2(7S)4P	45044.168	1.5	4P (5D)4D					
801.4499	-2.432	78725.790	1.5	5S (5D)6D	808.3930	-0.677	103265.694	0.5	6S (5D)4D	90988.873	1.5	4P (3F)4P					
801.5038	-3.352	79885.493	2.5	5S (5D)4D	808.6316	-4.702	104588.710	1.5	5D (5D)6D	91208.887	1.5	5P (5D)4F					
801.5531	-3.260	86124.301	4.5	4D (5D)4F	808.6944	-3.720	104380.940	3.5	5D (5D)6F	92018.729	2.5	4SP(5D)6F					
801.6924	-2.120	103118.400	1.5	6S (5D)4D	808.6950	-4.682	84326.912	2.5	4D (5D)6P	71964.710	2.5	4P (3D)4P					
801.7340	-3.210	80177.975	1.5	5S (5D)4D	809.0477	-4.488	54232.195	5.5	D5S2(7S)4G	66389.008	4.5	4P (3G)4H					
802.11591	-4.264	105065.630	3.5	5D (5D)6G	809.0806	-4.259	104630.430	1.5	5D (5D)6P	92274.120	2.5	4P (3F)4P					
802.3695	-4.627	84424.370	1.5	4D (5D)6P	809.1170	-2.046	78843.992	0.5	5S (5D)6D	91199.746	0.5	5P (5D)4D					
802.3785	-4.407	105589.420	3.5	4D (3F)4H	809.4891	0.084	77861.625	4.5	5S (5D)6D	90211.700	5.5	4P (3F)4G					
802.6316	-3.990	102842.119	4.5	5S (3G)4G	809.5497	-2.796	60270.339	3.5	D5S2(7S)4F	72619.490	2.5	4P (3D)4D					
802.6434	-3.664	84870.863	2.5	4D (5D)4D	809.5655	-4.280	81639.260	2.5	D5S2(7S)2F	93988.170	2.5	4SP(5G)4G					
802.9619	-4.053	73492.215	3.5	D5S2(7S)4F	809.7368	-3.139	84870.863	2.5	4D (5D)4D	72324.566	1.5	4P (3D)4D					
803.1399	-4.262	108804.667	3.5	5S (3D)4D	809.8378	-0.781	78725.790	1.5	5S (5D)6D	91070.547	1.5	5P (5D)4F					
803.2340	-2.958	104873.230	3.5	5D (5D)4D	810.1471	-1.599	79885.493	2.5	5S (5D)4D	92225.538	1.5	5P (5D)4P					
803.3536	-2.075	79885.493	2.5	5S (5D)4D	810.2492	-4.563	81734.750	3.5	D5S2(7S)2F	94073.240	3.5	4SP(5G)4G					
803.3630	-3.697	102842.119	4.5	5S (3G)4G	810.3458	-3.492	54275.637	2.5	D5S2(7S)4F	66612.656	1.5	4P (3G)4F					
803.3960	-4.032	102334.112	2.5	6S (5D)6D	810.4534	-4.132	73492.215	3.5	D5S2(7S)4G	61156.835	3.5	4P (3H)4H					
803.5393	-3.416	104868.500	4.5	5D (5D)6G	810.5984	-4.841	84685.198	3.5	4D (5D)4D	72352.024	3.5	4P (3D)4F					
803.6925	-2.959	73393.745	4.5	D5S2(7S)4F	810.7291	-4.964	57411.065	2.5	D5S2(7S)4P	45079.879	2.5	4P (5D)4F					
803.7850	-2.642	77861.625	4.5	5S (5D)6D	810.7527	-4.006	79885.493	2.5	5S (5D)4D	92216.320	1.5	4P (3F)2D					
803.8669	-1.343	104863.430	5.5	5D (5D)4G	810.9800	0.132	102394.718	3.5	6S (5D)4D	90067.347	4.5	5P (5D)6F					
804.1290	-4.379	105127.770	2.5	5D (5D)4D	811.3052	-1.554	78725.790	1.5	5S (5D)6D	91048.256	1.5	5P (5D)4D					
804.1999	-3.022	104705.420	3.5	5D (5D)6D	811.3028	-4.016	104411.690	4.5	5D (5D)6D	92089.260	3.5	4SP(5G)4H					
804.3415	-3.894	85048.602	1.5	4D (5D)4D	811.4889	-2.456	105449.540	3.5	5D (5D)4G	93129.900	3.5	4P (3F)4D					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	ML(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
811.7044	-4.239	105711.730	2.5	5D (5D)6S	93395.360	2.5	4P (3F)4F	818.8321	-4.375	83558.540	0.5	4D (5D)6F	93767.700	0.5	4SP(5P)4D
811.7504	-4.834	104630.430	1.5	5D (5D)6P	92314.758	0.5	5P (5D)4P	818.8552	-2.607	102802.312	2.5	6S (5D)4D	90593.497	1.5	5P (5D)6F
811.7705	-3.729	54273.641	4.5	D5S2(7S)4G	66589.008	4.5	4P (3G)4H	819.0037	-4.621	60445.275	2.5	D3S2(7S)4D	72651.876	3.5	4P (3D)4D
811.8217	-4.570	104588.710	1.5	5D (5D)6D	92274.120	2.5	4P (3F)4P	819.0627	-0.407	77861.625	4.5	5S (5D)6D	90067.347	4.5	5P (5D)6F
811.8275	-1.365	102802.312	2.5	6S (5D)4D	90487.810	2.5	5P (5D)6F	819.1568	-3.917	104120.270	2.5	5D (5D)6P	91915.950	1.5	4SP(5D)6F
812.2544	-4.584	83439.670	1.5	4D (5D)6F	95767.000	0.5	4SP(5P)4D	819.1605	-1.632	78843.992	0.5	5S (5D)6D	91048.256	1.5	5P (5D)4D
812.3041	-7.449	26352.766	4.5	D6S (3B)2H	38660.043	3.5	4P (5D)6D	819.1939	-4.207	79885.493	2.5	5S (5D)4D	92089.260	3.5	4SP(5G)4H
812.3494	-4.832	105205.790	2.5	5D (5D)6G	92899.200	2.5	4P (3F)4D	819.4321	-4.841	104366.820	6.5	5D (5D)6G	92166.600	5.5	4SP(5G)4H
812.4024	-4.973	54283.220	3.5	D5S2(7S)4G	66589.008	4.5	4P (3G)4H	819.4471	-4.169	78577.280	4.5	D5S2(7S)2G	66377.283	3.5	4P (3G)4F
812.6347	-1.547	105630.750	2.5	5D (5D)4G	93328.480	1.5	4P (3F)4F	819.5520	-2.610	102584.963	5.5	5S (3G)4G	90386.528	4.5	5P (5D)4F
812.6627	-3.254	84266.556	3.5	4D (5D)6P	71964.710	2.5	4P (3D)4D	819.8460	-3.297	105899.420	3.5	4D (3F)4F	93395.360	2.5	4P (3F)4D
812.6859	-1.961	80346.016	0.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	820.4421	-4.036	50463.459	0.5	D6S (3P)2P	66248.660	0.5	4P (3P)2S
812.7490	-4.181	104630.430	1.5	5D (5D)6P	92329.890	2.5	4SP(5G)4F	820.5651	-4.744	83812.316	2.5	4D (5D)6D	93995.690	2.5	4SP(5P)4D
812.8170	-4.370	83558.540	0.5	4D (5D)6F	95858.050	1.5	4SP(5P)4D	820.7147	-3.699	77861.625	4.5	5S (5D)6D	90042.779	4.5	4P (3F)4G
812.9920	-2.592	86710.837	1.5	4D (5D)4F	99007.700	0.5	4SP(5D)4D	820.7486	-3.707	104828.160	2.5	5D (5D)6D	92647.510	1.5	4P (3F)4D
813.2479	-2.707	104593.270	5.5	5D (5D)6G	92300.277	4.5	4SP(5D)6F	820.7496	-2.042	80177.975	1.5	5S (5D)4D	92358.610	1.5	4SP(5G)4F
813.3348	-4.748	104380.940	3.5	5D (5D)6F	92089.260	3.5	4SP(5G)4H	820.7711	-4.426	86416.333	3.5	4D (5D)4F	98596.650	4.5	4SP(5D)4F
813.5254	-6.577	26170.181	5.5	D6S (3B)2H	38458.981	4.5	4P (5D)6D	820.8163	-4.530	50142.786	2.5	D6S (3F)4F	62322.431	3.5	4P (3G)2G
813.8248	-4.985	105414.180	2.5	4D (3F)4G	93129.900	3.5	4P (3F)4D	820.8267	-4.944	54232.195	5.5	D5S2(7S)4G	66411.686	6.5	4P (3G)4H
813.8509	-4.342	84326.912	2.5	4D (5D)6P	72043.026	1.5	4P (3D)4P	820.8964	-2.977	60441.033	1.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D
814.1800	-1.094	103118.400	1.5	6S (5D)4D	95995.690	2.5	4SP(5P)4D	820.9967	-4.987	104630.430	1.5	5D (5D)6P	92453.460	0.5	4P (3F)4D
814.1953	-4.748	105763.270	5.5	4D (3F)2H	90839.480	0.5	4P (3P)4P	820.9967	-4.987	104630.430	1.5	5D (5D)6P	92453.460	0.5	4P (3F)4D
814.2118	-2.872	104705.420	3.5	5D (5D)6D	92426.980	4.5	4SP(5G)4F	821.0244	-7.890	26932.748	0.5	D6S (3P)2P	39109.307	0.5	4P (5D)6D
814.2630	-3.835	85048.602	1.5	4D (5D)4D	97326.270	1.5	5P (5D)6P	821.1070	-1.759	78725.790	1.5	5S (5D)6D	90901.124	2.5	5P (5D)4P
814.3206	-2.418	104120.270	2.5	5D (5D)6P	91843.470	1.5	4P (5D)6P	821.1825	-2.650	60445.275	2.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D
814.4078	-2.767	80177.975	1.5	5S (5D)4D	92453.460	0.5	4P (3F)4D	821.2588	-1.878	78725.790	1.5	5S (5D)6D	90898.873	1.5	4P (3P)4D
814.5096	-4.580	104588.710	1.5	5D (5D)6D	92314.758	0.5	5P (5D)4P	821.3042	-3.216	102802.312	2.5	6S (5D)4D	90629.902	1.5	4P (3P)4S
814.6195	-4.721	104426.460	2.5	5D (5D)6F	92154.165	3.5	4SP(5D)6F	821.4397	-2.320	86599.738	2.5	4D (5D)4F	98770.140	1.5	4SP(5D)4D
814.6511	-4.983	104630.430	1.5	5D (5D)6P	92358.610	1.5	4SP(5G)4F	821.5607	-3.130	50075.910	1.5	D6S (3F)4F	62244.520	1.5	4P (3F)4F
814.7369	-4.057	104873.230	3.5	5D (5D)4D	92602.703	3.5	4P (3F)2G	821.7079	-3.879	105065.930	3.5	5D (5D)6G	92899.200	2.5	4P (3F)4D
814.8601	-3.299	79885.493	2.5	5S (5D)4F	92154.165	3.5	4SP(5D)6F	821.7174	-2.313	104593.270	5.5	5D (5D)6G	92426.980	4.5	4SP(5G)4F
814.9692	-2.043	86124.301	4.5	4D (5D)4F	98391.300	3.5	4SP(5D)4D	821.8059	-4.373	102802.312	2.5	D6S (3F)4F	62322.431	3.5	4P (3H)2G
815.0511	-3.089	104868.500	4.5	5D (5D)6G	92602.703	3.5	4P (3F)2G	821.9065	-0.261	102802.312	2.5	6S (5D)4D	90638.822	1.5	5P (5D)4P
815.1510	-4.802	104588.710	1.5	5D (5D)6D	92329.890	2.5	4SP(5G)4F	822.0658	-4.061	104593.270	5.5	5D (5D)6G	92432.136	5.5	4SP(5D)6F
815.6011	-2.949	104411.690	4.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F	822.0674	-3.522	105291.010	3.5	4D (3F)4G	93129.900	3.5	4P (3F)4D
815.7549	-0.275	78525.407	2.5	5S (5D)6D	90780.621	3.5	5P (5D)6D	822.1300	-0.579	78237.685	3.5	5S (5D)6D	90397.868	3.5	5P (5D)4D
816.0107	-3.748	84870.863	2.5	4D (5D)4D	72619.490	2.5	4P (3D)4D	822.2220	-4.635	54273.641	4.5	D5S2(7S)4G	42114.818	4.5	4P (5D)6F
816.3243	-3.853	54275.637	2.5	D5S2(7S)4G	66522.304	2.5	5P (5D)6F	822.5848	-3.983	85172.809	0.5	4D (5D)4D	97326.270	1.5	4SP(3P)2P
816.4938	-3.853	54275.637	2.5	D5S2(7S)4G	66522.304	2.5	5P (5D)6F	822.6606	-4.490	104426.460	2.5	5D (5D)6F	92274.120	2.5	4P (3P)4F
816.7247	-2.034	99688.337	3.5	5S (3F)4F	11929.000	2.5	290DD	822.6894	-1.733	80177.975	1.5	5S (5D)4D	92329.890	2.5	4SP(5G)4F
816.7706	-4.582	104411.690	4.5	5D (5D)6D	92171.716	4.5	4P (3F)2G	822.8974	0.132	78237.685	3.5	5S (5D)6D	90386.528	4.5	5P (5D)4F
816.8293	-4.403	73395.930	2.5	D5S2(7S)4F	61156.835	3.5	4P (3H)4H	822.9024	-4.545	104315.370	6.5	4D (3H)2K	92166.600	5.5	4SP(5G)4H
816.8300	-3.114	54283.220	3.5	D5S2(7S)4G	66522.304	2.5	4P (3G)4F	822.9461	-4.741	78525.407	2.5	5S (5D)6D	66377.283	3.5	4P (3G)4F
817.0767	-2.243	105630.750	2.5	5D (5D)4G	93395.360	2.5	4P (3F)4F	823.2256	-4.988	104426.460	2.5	5D (5D)6F	92282.460	3.5	4SP(5G)4F
817.3173	-4.017	49100.976	0.5	D6S (3P)4P	61332.764	1.5	4P (3P)4P	823.2866	-3.950	105630.750	2.5	5D (5D)4G	93487.650	4.5	4P (3F)4F
817.3477	-3.401	54232.195	5.5	D5S2(7S)4G	66463.528	5.5	4P (3G)4H	823.4603	-4.322	102030.912	3.5	6S (5D)6D	82890.373	3.5	4P (3F)4G
817.5323	-3.138	105127.770	2.5	5D (5D)4D	92899.200	2.5	4P (3F)4D	823.4836	-3.377	60384.370	0.5	D5S2(7S)4D	72524.566	1.5	4P (3D)4D
817.6524	-3.794	104380.940	3.5	5D (5D)6F	92154.165	3.5	4SP(5D)6F	823.7151	-0.815	80177.975	1.5	5S (5D)4D	92314.758	0.5	5P (5D)4P
817.7405	-4.307	104828.160	2.5	5D (5D)6F	92602.703	3.5	4P (3F)2G	823.7905	-1.506	79439.467	3.5	5S (5D)4D	91575.139	2.5	5P (5D)6P
817.7754	-4.542	78237.685	3.5	5S (5D)6D	66012.750	4.5	4P (3G)4F	823.8621	-3.172	50187.813	3.5	D6S (3F)4F	62322.431	3.5	4P (3H)2G
817.8326	-4.614	105711.730	2.5	5D (5D)6S	93487.650	3.5	4P (3F)4F	824.1765	-3.761	54870.528	2.5	D6S (3F)2F	67000.017	2.5	4P (3F)2D
818.1374	-0.304	103118.400	1.5	6S (5D)4D	90898.873	1.5	4P (3P)4P	824.2982	-3.673	81734.750	3.5	D5S2(7S)2F	69606.552	3.5	4P (3G)2F
818.1735	-4.667	84870.863	2.5	4D (5D)4D	72651.876	3.5	4P (3D)4D	824.7727	-2.547	77230.900	4.5	D5S2(7S)2H	63109.679	3.5	4P (3F)2G
818.2772	-0.292	103265.694	0.5	6S (5D)4D	91048.256	1.5	5P (5D)4D	824.8886	-3.679	86416.333	3.5	4D (5D)4F	98535.850	3.5	4SP(5D)4F
818.2881	-0.197	103118.400	1.5	6S (5D)4D	90901.124	2.5	5P (5D)4P	825.0343	-3.709	54232.195	5.5	D5S2(7S)4G	42114.818	4.5	4P (5D)6F
818.5952	-4.197	84863.351	5.5	4D (5D)4F	72650.658	4.5	4P (3D)4F	825.2812	-4.632	78577.280	4.5	D5S2(7S)2G	66463.528	5.5	4P (3G)4H
818.8278	-4.758	104380.940	3.5	5D (5D)6G	92171.716	4.5	4P (3F)2G	825.2854	-2.867	78725.790	1.5	5S (5D)6D	90839.480	0.5	4P (3P)4D
								825.3042	-0.907	78725.790	1.5	5S (5D)6D	90638.822	2.5	5P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
825.4406	-3.346	104411.690	4.5	5D (5D)6D	92300.277	4.5	4SP(5D)6F	831.6012	0.191	102802.312	2.5	6S (5D)4D	90780.621	3.5	5P (5D)4F
825.7112	-2.402	80346.016	0.5	5S (5D)4D	92453.460	0.5	4P (3F)4D	831.6198	-4.687	98568.912	3.5	5S (3H)4H	86347.490	2.5	4P (1F)2F
825.7537	-4.523	104380.940	3.5	5D (5D)6F	92274.120	2.5	4P (3F)4D	831.7198	-3.600	105414.180	2.5	4D (3F)4G	93595.360	2.5	4P (3F)4F
825.7578	-4.021	78185.030	3.5	D5S2(7S)2G	66078.269	2.5	4P (3G)4G	831.8236	-0.464	102666.694	0.5	6S (5D)6D	90646.217	0.5	4P (5D)6F
825.7950	-8.243	26352.766	4.5	D6S (3H)2H	38458.981	4.5	4P (5D)6D	832.2309	-1.972	80346.016	0.5	5S (5D)4D	92358.610	1.5	4SP(5G)4F
825.8810	-0.716	99824.045	2.5	5S (3F)4F	111929.000	2.5	290DD	832.3308	0.101	99918.569	1.5	3S (3F)4F	111929.000	2.5	290DD
825.9124	-3.175	78525.407	2.5	5S (5D)6D	90629.902	1.5	4P (3P)4S	832.4075	-4.694	104705.420	3.5	5D (5D)6D	92695.374	2.5	4P (3P)2D
825.9706	-2.844	54273.641	4.5	D5S2(7S)4G	66377.283	3.5	4P (3G)4F	832.4956	-2.929	50142.786	2.5	D6S (3F)4F	92151.561	2.5	4P (5D)4F
826.0983	-4.373	105589.420	3.5	4D (3F)4H	93487.650	3.5	4P (3F)4F	832.5362	-0.005	102394.718	3.5	6S (5D)4D	90386.528	4.5	5P (5D)4F
826.1008	-4.009	50142.786	2.5	D6S (3F)4F	62244.520	1.5	4P (3F)4F	832.5722	-4.313	104174.270	5.5	4D (3H)4I	92166.600	5.5	4SP(5G)4H
826.1068	-4.470	54275.637	2.5	D5S2(7S)4G	66377.283	3.5	4P (3G)4F	832.7139	-4.042	80990.063	1.5	4D (5D)6D	95995.690	2.5	4SP(5P)4D
826.1140	-4.872	104120.270	2.5	5D (5D)6F	92018.729	2.5	4SP(5D)6F	832.9271	-3.127	104174.270	5.5	4D (3H)4I	92171.716	4.5	4P (3F)2G
826.3420	-3.484	54902.315	1.5	D6S (3P)2P	67000.517	2.5	4P (3F)2D	833.0587	-2.640	50157.452	4.5	D6S (3F)4F	62158.110	4.5	4P (3F)4F
826.4534	-4.506	104426.460	2.5	5D (5D)6F	92329.890	2.5	4SP(5G)4F	833.2523	-3.833	105127.770	2.5	5D (5D)4D	93129.900	3.5	4P (3F)4D
826.4722	-2.273	54904.222	3.5	D6S (3F)2F	67000.517	2.5	4P (3P)2D	833.3231	0.162	102394.718	3.5	6S (5D)4D	90397.868	3.5	5P (5D)4D
826.4825	-2.669	80177.975	1.5	5S (5D)4D	92274.120	2.5	4P (3F)4D	833.3417	-2.859	78843.992	0.5	5S (5D)6D	90839.480	0.5	4P (3P)4P
826.6227	-0.494	102394.718	3.5	6S (5D)4D	90300.625	3.5	5P (5D)6F	833.8843	-4.079	81639.260	2.5	D5S2(7S)2F	69650.484	2.5	4P (3G)2F
826.6248	-3.243	54283.220	3.5	D5S2(7S)4G	66377.283	3.5	4P (3G)4F	833.8911	-3.498	60441.033	1.5	D5S2(7S)4D	72429.711	0.5	4P (3D)4D
826.9869	-2.617	86416.333	3.5	4D (5D)4F	98505.100	2.5	4SP(5D)4D	833.9194	-4.741	78577.280	4.5	D5S2(7S)2G	66589.008	4.5	4P (3G)4H
827.1968	-2.556	105414.180	2.5	4D (3F)4G	93328.480	1.5	4P (3F)4F	833.9291	-2.835	102030.912	3.5	6S (5D)6D	90042.779	4.5	4P (3F)4G
827.3451	-3.367	60441.033	1.5	D5S2(7S)4D	72524.566	1.5	4P (3D)4D	834.1672	-3.571	104411.690	4.5	5D (5D)6D	92426.980	4.5	4SP(5G)4F
827.4717	-3.795	60270.339	3.5	D5S2(7S)4D	72352.024	3.5	4P (3D)4F	834.2992	-3.907	50142.786	2.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D
827.5021	-1.932	105211.140	4.5	5D (5D)4G	93129.900	3.5	4P (3F)4D	834.5263	-4.841	104411.690	4.5	5D (5D)6D	92432.136	5.5	4SP(5G)6F
827.5417	-4.088	104380.940	3.5	5D (5D)6F	92300.277	4.5	4SP(5D)6F	834.8438	-3.265	86416.333	3.5	4D (5D)4F	98391.330	3.5	4SP(5D)4D
827.6357	-2.909	60445.275	2.5	D5S2(7S)4D	72524.566	1.5	4P (3D)4D	834.9113	-4.346	104873.230	3.5	5D (3F)4D	92899.200	2.5	4P (3F)4D
828.0534	-0.505	102666.694	0.5	6S (5D)6D	90593.497	1.5	5P (5D)6F	835.1716	-4.075	50187.813	3.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F
828.2629	-3.482	103118.400	1.5	6S (5D)4D	91048.256	1.5	5P (5D)4D	835.2801	-0.611	80346.016	0.5	5S (5D)4D	92314.738	0.5	5P (5D)4P
828.4038	-0.883	78525.407	2.5	5S (5D)6D	90593.497	1.5	5P (5D)6F	835.3198	-4.840	60270.339	3.5	D5S2(7S)4D	72238.513	2.5	4P (3D)4F
828.5509	-0.835	103265.694	0.5	6S (5D)6D	91199.746	0.5	5P (5D)4D	835.4642	-4.971	104120.270	2.5	5D (5D)6F	92154.165	3.5	4SP(5D)6F
828.5674	-3.566	84685.198	3.5	4D (5D)4D	72619.490	2.5	4P (3D)4D	835.5442	-3.959	105449.540	3.5	5D (5D)4G	93484.580	4.5	4P (3F)4F
828.6050	-4.872	104315.370	6.5	4D (3H)2K	92250.210	6.5	4SP(5G)4H	835.6288	-3.763	50187.813	3.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F
828.7420	-4.638	73395.930	2.5	D5S2(7S)4F	61332.764	1.5	4P (3P)4F	835.6416	-0.173	102030.912	3.5	6S (5D)6D	90067.347	4.5	5P (5D)6F
828.7575	-0.438	78237.685	3.5	5S (5D)6D	90300.625	3.5	5P (5D)6F	835.7428	-0.103	78525.407	2.5	6S (5D)6D	90487.810	2.5	5P (5D)6F
828.7843	0.590	77861.625	4.5	5S (5D)6D	89924.175	5.5	5P (5D)6F	835.7586	-2.385	105449.540	3.5	5D (5D)4G	93487.650	3.5	4P (3F)4F
828.8566	-3.047	102842.119	4.5	5S (3G)4G	90780.621	3.5	5P (5D)4F	836.0321	-1.941	79885.493	2.5	5S (5D)4D	91843.470	1.5	5P (5D)6P
829.0075	-3.061	86710.837	1.5	4D (5D)4F	98770.140	1.5	4SP(5D)4D	836.3130	-3.612	104380.940	3.5	5D (5D)6F	92426.980	4.5	4SP(5G)4F
829.1321	-2.142	104174.270	5.5	4D (3H)4I	92116.780	4.5	4SP(5G)4H	836.5297	-4.177	84266.556	3.5	4D (5D)6F	96217.420	3.5	4SP(5P)4D
829.1791	-0.709	103265.694	0.5	6S (5D)4D	91208.887	1.5	5P (5D)4F	836.5796	-0.352	102543.648	1.5	6S (5D)6D	90593.497	1.5	5P (5D)6F
829.2437	-0.185	102543.648	1.5	6S (5D)6D	90487.810	2.5	5P (5D)6F	836.7023	-4.256	54283.220	3.5	D5S2(7S)4G	42334.822	2.5	4P (5D)6F
829.3116	-4.328	78943.992	0.5	5S (5D)6D	90898.873	1.5	4P (3P)4P	837.4082	-2.158	86416.333	3.5	4D (5D)4F	98354.660	2.5	4SP(5D)4F
829.3598	-1.579	105449.540	3.5	5D (5D)4G	93395.360	2.5	4P (3F)4F	837.5543	-0.403	102334.112	2.5	6S (5D)6D	90397.868	3.5	5P (5D)4D
829.5752	-4.912	104380.940	3.5	5D (5D)6F	92329.890	2.5	4SP(5G)4F	837.5636	-4.220	86599.738	2.5	4D (5D)4F	98535.850	3.5	4SP(5D)4F
829.6688	-4.865	50075.910	1.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D	837.5904	-3.982	105065.630	3.5	5D (5D)6G	93129.900	3.5	4P (3F)4D
829.7993	-0.198	103118.400	1.5	6S (5D)4D	91070.547	2.5	5P (5D)4F	837.6638	-2.726	104366.820	6.5	5D (5D)6G	92432.136	5.5	4SP(5D)6F
829.8153	-2.030	80177.975	1.5	5S (5D)4D	92225.538	1.5	5P (5D)4P	837.6900	-3.541	49100.976	0.5	D6S (3P)4P	61035.287	0.5	4P (3P)4P
829.9101	-4.707	54283.220	3.5	D5S2(7S)4G	42237.033	3.5	4P (5D)6F	837.7357	-3.927	57499.321	1.5	D5S2(7S)4G	69426.980	0.5	4SP(5S)4P
829.9413	-3.743	83812.316	2.5	4D (5D)6D	95858.050	1.5	4SP(5P)4D	838.0657	-4.124	104828.160	2.5	5D (5D)6D	92899.200	2.5	4P (3F)4D
829.9684	-3.155	60384.370	0.5	D5S2(7S)4D	72429.711	0.5	4P (3D)4D	838.2365	-4.294	105414.180	2.5	4D (3F)4G	93487.650	3.5	4P (3F)4F
830.3448	-4.459	105524.461	4.5	4D (3F)4H	93484.580	4.5	4P (3F)4F	838.2979	-3.366	50157.452	4.5	D6S (3F)4F	62083.108	4.5	4P (3H)2G
830.4507	-3.088	80177.975	1.5	5S (5D)4D	92216.320	1.5	4P (3P)2D	838.3250	-0.792	78725.790	1.5	6S (5D)6D	90648.217	0.5	5P (5D)6F
830.5566	-3.444	105524.461	4.5	4D (3F)4H	93487.650	3.5	4P (3F)4F	838.5290	-0.499	103118.400	1.5	6S (5D)4D	91199.746	0.5	5P (5D)4D
830.5579	-4.321	102666.694	0.5	6S (5D)6D	90629.902	1.5	4P (3P)4S	839.0989	-3.448	105398.852	5.5	4D (3F)4H	93484.580	4.5	4P (3F)4F
830.5706	-3.916	54273.641	4.5	D5S2(7S)4G	42237.033	3.5	4P (5D)6F	839.1360	-2.132	102543.648	1.5	6S (5D)6D	90629.902	1.5	4P (3P)4S
830.7860	-0.092	102334.112	2.5	6S (5D)6D	90300.625	3.5	5P (5D)6F	839.1863	-0.888	78725.790	1.5	6S (5D)4D	90638.822	2.5	5P (5D)4D
830.7974	-4.982	84685.198	3.5	4D (5D)4D	72651.876	3.5	4P (3D)4D	839.2044	-3.420	50212.826	2.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D
830.9098	-4.567	50212.826	2.5	D6S (3P)4P	62244.520	1.5	4P (3D)4F	839.4342	-0.351	103118.400	1.5	6S (5D)4D	91208.887	1.5	5P (5D)4F
830.9952	-3.363	79885.493	2.5	5S (5D)4D	91915.950	1.5	4SP(5D)4F	839.5360	-4.312	50157.452	4.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F
831.3592	-2.806	105155.090	4.5	4D (3F)4G	93129.900	3.5	4P (3F)4D	839.6179	-2.168	102394.718	3.5	6S (5D)4D	90487.810	2.5	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
839.6291	-2.659	60445.275	2.5	D5S2(7S)4D	72352.024	3.5	4P(3D)4F	847.2758	-4.404	105127.770	2.5	5D(5D)4D	93328.480	1.5	4P(3F)4F
839.7269	-2.928	86599.738	2.5	4D(5D)4F	98505.100	2.5	4SP(5D)4D	847.4058	-2.817	60441.033	1.5	D5S2(7S)4D	72238.513	2.5	4P(3D)4F
839.7562	-4.851	78577.280	4.5	D5S2(7S)2G	66672.334	3.5	4P(3G)4H	847.4816	-4.386	103950.590	4.5	5D(5D)6F	92154.165	3.5	4SP(5D)6F
839.8151	-1.820	102543.648	1.5	6S(5D)6D	90638.822	2.5	5P(3D)4D	847.5805	-3.896	54283.220	3.5	D5S2(7S)4G	66078.269	2.5	4P(3G)4G
839.8626	-0.679	78725.790	1.5	5S(5D)6D	90629.902	1.5	4P(3P)4S	847.6370	-4.085	86710.837	1.5	4D(5D)4F	98505.100	2.5	4SP(5D)4D
839.9775	-3.027	105230.290	0.5	5D(5D)4D	90898.873	1.5	4P(3P)4F	847.7106	-4.117	60445.275	2.5	D5S2(7S)4D	72238.513	2.5	4P(3D)4F
840.0214	-0.256	102802.312	2.5	6S(5D)4D	90901.124	2.5	5P(3D)4P	848.2377	-3.869	105630.750	2.5	5D(5D)4G	93840.340	1.5	4SP(5D)6D
840.1191	-4.937	84424.370	1.5	4D(5D)6F	92166.600	5.5	4SP(5G)4H	848.3300	-2.191	78843.992	0.5	5S(5D)6D	90629.902	1.5	4P(3P)4S
840.2415	-2.048	104064.670	6.5	4D(3H)4I	93395.360	2.5	4P(3F)4F	848.3362	-2.042	82978.677	4.5	4D(5D)6F	94763.219	3.5	4SP(5D)6P
840.4120	-2.647	105291.010	3.5	4D(3F)4G	90648.217	0.5	5P(5D)6F	848.6233	-2.695	54232.195	5.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
840.4280	-1.122	102543.648	1.5	6S(5D)6D	90648.217	0.5	5P(5D)6F	848.7444	-4.835	103950.590	4.5	5D(5D)6F	92171.716	4.5	4P(3F)2G
840.4376	-4.368	50187.813	3.5	D6S(3F)4F	62083.108	4.5	4P(3H)2G	848.8335	-4.310	83990.063	1.5	4D(5D)6D	95767.700	0.5	4SP(5P)4D
840.4773	-4.889	104120.270	2.5	5D(5D)6F	92225.538	1.5	5P(5D)4P	849.0079	0.100	78525.407	2.5	5S(5D)6D	90300.625	3.5	5P(5D)6F
840.5114	-4.918	103983.510	3.5	5S(3G)2G	92089.260	3.5	4SP(5G)4H	849.0731	0.273	101698.489	4.5	6S(5D)6D	89924.175	5.5	5P(5D)6F
840.5475	-9.089	30764.485	3.5	D6S(3G)2G	42658.224	3.5	4P(5D)6P	849.2440	-3.417	60441.033	1.5	D5S2(7S)4D	72212.978	0.5	4P(3D)4F
840.6581	-3.635	58631.531	4.5	D6S(1G)2G	70523.706	3.5	4P(3G)2G	849.2572	-4.385	84863.351	5.5	4D(5D)4G	73091.590	4.5	4P(1G)2G
840.7394	-4.247	57411.065	2.5	D5S2(7S)4F	69302.690	1.5	4P(3H)4I	849.5416	-3.530	102666.694	0.5	6S(5D)6D	90898.873	1.5	4P(3P)4P
841.4409	-4.825	73393.745	4.5	D5S2(7S)4F	61512.634	4.5	4P(3H)4I	849.6631	-3.729	73492.215	3.5	D5S2(7S)4F	61726.077	3.5	4P(3P)4D
841.4664	-2.124	105711.730	2.5	5D(5D)6S	93830.979	2.5	4SP(5D)6D	849.7537	-4.208	103936.600	5.5	5D(5D)6F	92171.716	4.5	4P(3F)2G
841.5535	-2.869	80346.016	0.5	5S(5D)4D	92225.538	1.5	5P(5D)4P	849.9606	0.070	78725.790	1.5	5S(5D)6D	90487.810	2.5	5P(5D)6F
841.6820	-2.952	50187.813	3.5	D6S(3F)4F	62065.521	3.5	4P(3F)4F	850.4033	-0.142	102394.718	3.5	6S(5D)4D	90638.822	2.5	5P(5D)4D
841.7102	-3.643	105205.790	2.5	5D(5D)6G	93328.480	1.5	4P(3F)4F	850.4738	-4.073	86599.738	2.5	4D(5D)4F	98354.660	2.5	4SP(5D)4F
841.9211	-4.772	54275.637	2.5	D5S2(7S)4G	42401.302	1.5	4P(5D)6F	850.5365	-0.411	102802.312	2.5	6S(5D)4D	91048.256	1.5	5P(5D)4D
841.9453	-3.773	104174.270	5.5	4D(3H)4I	92300.277	4.5	4SP(5D)6F	850.6201	-4.556	81734.750	3.5	D5S2(7S)2F	93487.650	3.5	4P(3F)4F
842.0540	-0.110	78525.407	2.5	5S(5D)6D	90397.868	3.5	5P(5D)4D	850.8659	-0.222	78843.992	0.5	5S(5D)6D	90593.497	1.5	5P(5D)6F
842.1299	-2.000	105711.730	2.5	5D(5D)6S	93840.340	1.5	4SP(5D)6D	851.0263	-4.469	104174.270	5.5	4D(3H)4I	92426.980	4.5	4SP(5G)4F
842.2070	-3.465	80346.016	0.5	5S(5D)4D	92216.320	1.5	4P(3P)2D	851.3133	-3.336	104873.230	3.5	5D(5D)4D	93129.900	3.5	4P(3F)4D
842.2640	-3.250	104119.710	7.5	4D(3H)2K	92250.210	6.5	4SP(5G)4H	851.4005	-3.184	54870.528	2.5	D6S(3F)2F	66612.656	1.5	4P(3G)4F
842.3714	-4.630	83990.063	1.5	4D(5D)6D	95858.050	1.5	4SP(5P)4D	851.5002	-1.217	102334.112	2.5	6S(5D)6D	90593.497	1.5	5P(5D)6F
842.3913	-0.053	78725.790	1.5	5S(5D)6D	90593.497	1.5	5P(5D)6F	851.6194	-2.636	54273.641	4.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
842.4198	-3.879	77230.900	4.5	D5S2(7S)2H	65363.595	5.5	4P(3D)2H	851.6564	-3.249	104868.500	4.5	5D(5D)6G	93129.900	3.5	4P(3F)4D
842.9148	-4.729	85048.602	1.5	4D(5D)4D	73189.110	1.5	4P(3D)2P	851.6606	-3.205	86599.738	2.5	4D(5D)4F	98338.280	1.5	4SP(5P)4S
843.1201	-3.676	58666.258	3.5	D6S(1G)2G	70523.706	3.5	4P(3G)2G	851.7017	-4.760	80177.975	1.5	5S(5D)4D	91915.950	1.5	4SP(5D)6F
843.3144	-4.755	84870.863	2.5	4D(5D)4D	73016.147	3.5	4P(1G)2F	852.1057	-4.650	105127.770	2.5	5D(5D)4D	93395.360	2.5	4P(3F)4F
843.4582	-3.973	50212.826	2.5	D6S(3P)4F	62065.521	3.5	4P(3F)4F	852.1525	-0.594	102802.312	2.5	6S(5D)4D	91070.547	2.5	5P(5D)4F
843.5751	-4.781	57578.484	0.5	D5S2(7S)4F	69426.980	0.5	4SP(5S)4P	852.1914	-4.688	104630.430	1.5	5D(5D)6P	92899.200	2.5	4P(3F)4P
843.7575	-7.963	30388.542	4.5	D6S(3G)2G	42237.033	3.5	4P(5D)6F	852.2077	-4.824	83308.194	2.5	4D(5D)6F	95039.200	1.5	4P(3P)2P
843.9134	-0.356	102334.112	2.5	6S(5D)6D	90487.810	2.5	5P(5D)6F	852.2599	-0.453	102030.912	3.5	6S(5D)6D	90300.625	3.5	5P(5D)6F
844.3088	-3.124	80177.975	1.5	5S(5D)4D	92018.729	2.5	4SP(5D)6F	852.3149	-4.060	54283.220	3.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
845.1005	0.386	78237.685	3.5	5S(5D)6D	90067.347	4.5	5P(5D)6F	852.3437	-3.688	84266.556	3.5	4D(5D)6P	95995.690	2.5	4SP(5P)4D
845.1758	-4.334	60384.370	0.5	D5S2(7S)4D	72212.978	0.5	4P(3D)4P	852.5308	-2.343	105211.140	4.5	5D(5D)4G	93484.580	4.5	4P(3F)4F
845.2754	-2.654	102666.694	0.5	6S(5D)6D	90839.480	0.5	4P(3P)4P	852.5361	-4.139	84131.563	0.5	4D(5D)6D	95858.050	1.5	4SP(5P)4D
845.3743	-3.753	49506.934	1.5	D6S(3P)4F	61332.764	1.5	4P(3P)4F	852.5514	-7.874	30388.542	4.5	D6S(3G)2G	42114.818	4.5	4P(5D)6F
846.1879	-4.706	104064.670	6.5	4D(3H)4I	92250.210	6.5	4SP(5G)4H	852.6971	-2.628	105711.730	2.5	5D(5D)6S	93987.457	3.5	4SP(5D)6D
846.3789	-4.886	103983.510	3.5	5D(3G)2G	92171.716	4.5	4P(3F)2G	852.7456	-3.509	57578.484	0.5	D5S2(7S)4P	69302.090	1.5	4SP(5S)4P
846.4766	-4.596	105205.790	2.5	5D(5D)6G	93395.360	2.5	4P(3F)4F	852.7540	-1.746	105211.140	4.5	5D(5D)4G	93487.650	3.5	4P(3F)4F
846.5801	-4.933	104411.690	4.5	5D(5D)6D	92602.703	3.5	4P(3F)2G	854.1588	-3.338	102334.112	2.5	6S(5D)6D	90629.902	1.5	4P(3P)4S
846.5957	-3.624	57493.321	1.5	D5S2(7S)4P	69302.090	1.5	4SP(5S)4P	854.1618	-2.553	102543.648	1.5	6S(5D)6D	90839.480	0.5	4P(3P)4S
846.7634	-4.078	105291.010	3.5	4D(3F)4G	93484.580	4.5	4P(3F)4F	854.4272	-4.663	104000.810	3.5	5D(5D)6P	92300.277	4.5	4SP(5D)6F
846.7785	-3.334	104705.420	3.5	5D(5D)6D	92899.200	2.5	4P(3F)4D	854.5932	-4.953	104828.160	2.5	5D(5D)6D	93129.900	3.5	4P(3F)4D
846.8593	-2.564	78237.685	3.5	5S(5D)6D	90042.779	4.5	4P(3F)4G	854.8102	-1.802	102334.112	2.5	6S(5D)6D	90638.822	2.5	5P(5D)4D
846.9216	-0.158	78843.992	0.5	5S(5D)6D	90648.217	0.5	4P(5D)6F	854.8774	-3.531	60270.339	3.5	D5S2(7S)4D	71964.710	2.5	4P(3D)4P
846.9837	-3.950	105291.010	3.5	4D(3F)4G	93487.650	3.5	4P(3F)4F	855.1009	-2.976	57411.065	2.5	D5S2(7S)4P	69102.380	2.5	4SP(5S)4P
847.0359	-2.790	54275.637	2.5	D5S2(7S)4G	66078.269	2.5	4P(3G)4G	855.2229	-2.156	79885.493	2.5	5S(5D)4D	91575.139	2.5	5P(5D)6P
847.0564	-4.906	84326.912	2.5	4D(5D)6P	72524.566	1.5	4P(3D)4D	855.2232	-4.780	84527.778	4.5	4D(5D)6G	96217.420	3.5	4SP(5P)4D
847.0952	-4.611	54870.528	2.5	D6S(3F)2F	66672.334	3.5	4P(3G)4H	855.2541	-4.196	81639.260	2.5	D5S2(7S)2F	93328.480	1.5	4P(3F)4F
847.2413	-3.763	105630.750	2.5	5D(5D)4G	93830.979	2.5	4SP(5D)6D	855.2787	-4.666	54904.222	3.5	D6S(3F)2F	66389.008	4.5	4P(3G)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
855.7041	-3.452	58631.531	4.5	D6S (1G)2G	70314.604	4.5	4P (3G)2P	863.3577	-9.090	30388.542	4.5	D6S (3G)2G	41968.046	5.5	4P (5D)6F
855.8008	-4.095	74270.863	2.5	4D (5D)4D	73189.110	1.5	4D (3D)2P	863.3975	-2.535	105063.550	5.5	4D (3F)4G	93484.580	4.5	4P (3F)4F
856.3237	-2.708	77230.900	4.5	D5S2(7S)2H	65556.280	4.5	4P (3R)2H	863.44713	-4.359	105065.630	3.5	5D (5D)6G	93487.650	3.5	4P (3F)4F
856.4611	-3.630	80177.975	1.5	5S (5D)4D	91850.722	0.5	4SP(5D)6F	863.6548	-3.371	104705.420	3.5	5D (5D)6D	93129.900	3.5	4P (3F)4D
856.5334	-4.131	84685.198	3.5	4D (5D)4D	96356.960	3.5	4SP(3G)2F	863.7810	-4.449	104000.810	3.5	5D (5D)6P	92426.980	4.5	4SP(5C)4F
856.6253	-3.685	103155.090	4.5	4D (3F)4G	93484.580	4.5	4P (3F)4F	863.8138	-4.199	105763.270	5.5	4D (3F)2H	94189.880	5.5	4SP(5G)4G
856.6429	-3.389	105065.630	3.5	5D (5D)6G	93395.360	2.5	4P (3F)4F	864.0718	-3.180	80346.016	0.5	5S (5D)4D	91915.950	1.5	4SP(5D)6F
856.6735	-4.773	73395.930	2.5	D5S2(7S)4F	61726.077	3.5	4P (3F)4D	864.1696	-3.335	50157.452	4.5	D6S (3F)4F	91726.077	3.5	4P (3F)2D
856.7524	-4.267	84326.912	2.5	4D (5D)6P	95995.690	2.5	4SP(5F)4D	864.5023	-4.696	83136.487	3.5	4D (5D)6F	94700.660	2.5	4P (3F)4D
856.8339	-4.146	73393.745	4.5	D5S2(7S)4F	61726.077	3.5	4P (3F)4D	865.3016	-1.049	102334.112	2.5	6S (5D)6D	90780.621	3.5	5P (5D)4F
856.9037	-2.762	105155.090	4.5	4D (3F)4G	93487.650	3.5	4P (3F)4F	865.6678	-2.123	83136.487	3.5	4D (5D)6F	94685.950	2.5	4SP(5D)6P
856.9935	-2.135	80177.975	1.5	5S (5D)4D	91843.470	1.5	5P (5D)6P	866.0103	-0.815	27314.922	3.5	D6S (3F)2F	38858.098	2.5	4P (5D)6D
857.1970	-4.542	78185.030	3.5	D5S2(7S)2G	66522.304	2.5	4P (3G)4F	866.0684	-2.603	103118.400	1.5	6S (5D)4D	91375.139	2.5	5P (5D)6P
857.3525	-4.345	81734.750	3.5	D5S2(7S)2F	93395.360	2.5	4P (3F)4F	866.0804	-1.454	102030.912	3.5	6S (5D)6D	90487.810	2.5	5P (5D)6F
857.4962	-3.942	60384.370	0.5	D5S2(7S)4G	72043.026	1.5	4P (3D)4P	866.1396	-4.900	50185.030	3.5	D5S2(7S)2G	89727.342	2.5	4P (3F)4G
857.5671	-4.022	54273.641	4.5	D5S2(7S)4G	65931.334	3.5	4P (3G)4G	866.4433	-0.073	70187.813	3.5	D6S (3F)4F	91726.077	3.5	4P (3F)4D
857.7130	-4.028	101698.489	4.5	6S (5D)6D	90042.779	4.5	4P (3F)4G	866.6991	-4.431	77230.900	4.5	D5S2(7S)2H	65696.038	4.5	4P (3G)4G
857.7139	-4.233	54275.637	2.5	D5S2(7S)4G	65931.334	3.5	4P (3G)4G	866.8975	-3.401	84685.198	3.5	4D (5D)4D	96217.420	3.5	4SP(5P)4D
857.8668	-4.956	103983.510	3.5	5S (3G)2G	92329.890	2.5	4SP(5G)4F	867.1884	-2.986	49506.934	1.5	D6S (3F)4P	61035.287	0.5	4P (3P)4P
857.9354	-4.511	78237.685	3.5	5S (5D)6D	89890.373	3.5	4P (3F)4G	867.2706	-4.295	104426.460	2.5	5D (5D)6F	92899.200	2.5	4P (3D)4P
858.0026	-3.939	54870.528	2.5	D6S (3F)2F	66522.304	2.5	4P (3G)4G	867.5403	-3.362	60441.033	1.5	D5S2(7S)4D	71964.710	2.5	4P (3D)4P
858.0701	-4.857	77230.900	4.5	D5S2(7S)2H	65580.041	5.5	4P (3G)4G	867.5453	-3.684	103950.590	4.5	5D (5D)6F	92426.980	4.5	4SP(5G)4F
858.2552	-4.089	58666.258	3.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	867.5453	-3.684	103950.590	4.5	5D (5D)6F	92426.980	4.5	4SP(5G)4F
858.2723	-2.708	54283.220	3.5	D5S2(7S)4G	65931.334	3.5	4P (3G)4G	867.8598	-2.943	60445.275	2.5	D5S2(7S)4D	71964.710	2.5	4P (3D)4P
858.3495	-4.647	84266.556	3.5	4D (5D)6P	72619.490	2.5	4P (3F)4D	867.9337	-3.906	103950.590	4.5	5D (5D)6F	92432.136	5.5	4SP(5D)6F
858.5184	-1.659	102543.648	1.5	6S (5D)6D	90898.873	1.5	4P (3D)4P	868.1051	-4.620	105389.420	3.5	4D (3F)4H	94073.240	3.5	4SP(5G)4G
858.5472	0.087	102030.912	3.5	6S (5D)6D	90386.528	4.5	5P (5D)4F	868.3678	-4.959	78185.030	3.5	D5S2(7S)2G	66672.334	3.5	4P (3G)4H
858.6277	-4.227	105630.750	2.5	5D (5D)4G	93987.457	3.5	4SP(5D)6D	868.4399	-4.088	73637.340	1.5	D5S2(7S)4F	62125.600	1.5	4P (3P)2D
858.6803	-4.785	105630.750	2.5	5D (5D)4G	93988.170	2.5	4SP(5G)4G	868.5998	-3.127	103936.600	5.5	5S (5D)6F	92426.980	4.5	4SP(5C)4F
858.6844	-3.775	102543.648	1.5	6S (5D)6D	90901.124	2.5	5P (5D)4F	868.9709	-3.327	80346.016	0.5	5S (5D)4D	91850.722	0.5	4SP(5D)6F
858.8617	-2.859	105127.770	2.5	5D (5D)4D	93487.650	3.5	4P (3F)4F	868.9891	-3.261	103936.600	5.5	5D (5D)6F	92432.136	5.5	4SP(5D)6F
859.1420	-3.484	103936.600	5.5	5D (5D)6F	92300.277	4.5	4SP(5D)6F	869.2169	-2.366	103751.660	5.5	4D (3H)4H	94250.210	6.5	4SP(5P)4P
859.1557	-4.645	84131.563	0.5	4D (5D)6D	95767.700	0.5	4SP(5P)4D	869.3271	-4.853	105711.730	2.5	5D (5D)6S	92111.730	2.5	4P (3F)4F
859.2825	-4.774	78577.280	4.5	D5S2(7S)2G	90211.700	5.5	4P (3F)4G	869.3506	-4.622	104828.160	2.5	5D (5D)6D	93328.480	1.5	4P (3F)4F
859.2858	-3.241	102802.312	2.5	6S (5D)4D	91167.937	3.5	5P (5D)6P	869.5190	-2.785	80346.016	0.5	5S (5D)4D	91843.470	1.5	5P (5D)6P
859.3842	-2.959	102030.912	3.5	6S (5D)6D	90397.868	3.5	5P (5D)4D	869.6749	-1.905	102543.648	1.5	6S (5D)6D	91048.256	1.5	5P (5D)4D
859.4218	-3.708	104064.670	6.5	4D (3H)4I	92432.136	5.5	4SP(5D)6F	869.8110	-0.827	102394.718	3.5	6S (5D)4D	90901.124	2.5	5P (5D)4P
859.5247	-0.732	101698.489	4.5	6S (5D)6D	90067.347	4.5	5P (5D)6F	869.9219	-4.429	103608.909	4.5	5S (3G)2G	92116.780	4.5	4SP(3G)2F
859.5293	-0.052	79439.467	3.5	5S (5D)4D	91070.547	2.5	5P (5D)4F	870.3263	-0.254	101698.489	4.5	6S (5D)6D	90211.700	5.5	4P (3F)4G
859.7473	-1.957	103878.340	7.5	4D (5D)4F	92250.210	6.5	4SP(5G)4H	870.3263	-0.254	101698.489	4.5	6S (5D)6D	90211.700	5.5	4P (3F)4G
859.7981	-4.253	86710.837	1.5	4D (5D)4F	98338.280	1.5	4SP(5P)4S	870.4028	-4.379	73637.340	1.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F
859.8507	-2.133	83136.487	3.5	4D (5D)6F	94763.219	3.5	4SP(5D)6P	870.4495	-3.471	86710.837	1.5	4D (5D)4F	98196.000	1.5	4SP(5D)4F
860.3497	-4.545	54902.315	1.5	D6S (3P)2P	66522.304	2.5	4P (3G)4F	870.7090	-4.952	104380.940	3.5	5D (5D)6F	92899.200	2.5	4P (3F)4D
860.4554	-4.243	105449.540	3.5	5D (5D)4G	93830.979	2.5	4SP(5D)6D	871.0026	-3.515	104873.230	3.5	5D (5D)4D	93395.360	2.5	4P (3F)4D
860.4645	-2.287	102666.694	0.5	6S (5D)6D	91048.256	1.5	5P (5D)4D	871.3646	-1.401	102543.648	1.5	6S (5D)6D	91070.547	2.5	5P (5D)4F
860.4930	-3.316	54904.222	3.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	871.3677	-4.019	54904.222	3.5	D6S (3F)2F	66377.283	3.5	4P (3G)4F
860.7370	-3.364	105763.270	5.5	4D (3F)2H	94148.510	4.5	4SP(5G)4G	871.4066	-6.713	30764.485	3.5	D6S (3G)2G	42327.033	3.5	4P (5D)6F
860.7861	-1.283	102394.718	3.5	6S (5D)4D	90780.621	3.5	5P (5D)4F	871.8322	-2.181	102666.694	0.5	6S (5D)6D	91199.746	0.5	5P (5D)4D
861.1597	-3.453	57493.321	1.5	D5S2(7S)4P	69102.380	2.5	4SP(5S)4P	872.0683	-4.322	54232.195	5.5	D5S2(7S)4G	65696.038	4.5	4P (3G)4G
861.6842	-3.012	60441.033	1.5	D5S2(7S)4D	72043.026	1.5	4P (3D)4P	872.2022	-4.447	105449.540	3.5	5D (5D)4G	93987.457	3.5	4SP(5D)6D
861.7394	-2.309	105589.420	3.5	4D (3F)4H	93988.170	2.5	4SP(5G)4G	872.2346	-0.439	79439.467	3.5	5S (5D)4G	90901.124	2.5	5P (5D)4P
861.9994	-4.651	60445.275	2.5	D5S2(7S)4D	72043.026	1.5	4P (3D)4P	872.2565	-4.118	105449.540	3.5	5D (5D)4G	93988.170	2.5	4SP(5G)4G
862.1100	-3.320	86599.738	2.5	4D (5D)4F	98196.000	1.5	4SP(5D)4F	872.3584	-4.797	105291.010	3.5	4D (3F)4G	91830.979	2.5	4SP(5D)6D
862.3210	-0.552	102802.312	2.5	6S (5D)4D	91208.887	1.5	5P (5D)4F	872.5277	-2.370	102666.694	0.5	6S (5D)6D	93800.887	1.5	5P (5D)4F
862.8380	-4.466	49506.934	1.5	D6S (3P)4P	61093.413	2.5	4P (3P)2D	872.5472	-4.470	105288.530	1.5	5D (5D)6G	93830.979	2.5	4SP(5D)6D
862.9436	-3.389	103751.660	5.5	4D (3H)4H	92166.600	5.5	4SP(5G)4H	873.7396	-2.632	83308.194	2.5	4D (5D)6F	94763.219	3.5	4SP(5D)6P
863.0754	-4.956	50142.786	2.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D	873.0296	-2.211	105524.461	4.5	4D (3F)4H	94073.240	3.5	4SP(5C)4G
863.3558	-4.532	83459.670	1.5	4D (5D)6F	95039.200	1.5	4P (3P)2P	873.2607	-3.460	105288.530	1.5	5D (5D)6G	93840.3		

J	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1	873.7095	-3.876	103608.909	4.5	5S (3G)2G	92166.600	5.5	4SP(5G)4H	883.7773	-1.431	101698.489	4.5	6S (5D)6D	90386.528	4.5	5P (5D)4F
	874.1166	-2.010	100492.020	3.5	5S (3F)2F	111929.000	2.5	290DD	883.8808	-3.690	73393.745	4.5	D5S2(7S)4F	62083.108	4.5	4P (3H)2C
	874.2497	-1.698	102334.112	2.5	6S (5D)6D	90898.873	1.5	4P (3F)4P	883.8921	-4.989	84685.198	3.5	4D (5D)4D	93995.690	2.5	4SP(5P)4D
	874.3567	-3.841	103600.440	6.5	4P (3H)4H	92166.600	5.5	4SP(5G)4H	883.9259	-4.174	104705.420	3.5	5D (5D)6D	93395.360	2.5	4P (3F)4G
	874.3689	-4.611	84424.370	1.5	4D (5D)6P	95858.050	1.5	4SP(5P)4D	884.2120	-3.962	54273.641	4.5	D5S2(7S)4G	65580.041	5.5	4P (3G)4G
	874.4218	-1.159	102334.112	2.5	6S (5D)6D	90901.124	2.5	5P (5D)4P	884.4905	-3.886	105291.010	3.5	4D (3F)4G	93988.170	2.5	4SP(5G)4G
	874.5758	-2.578	83308.194	2.5	4D (5D)6F	94739.170	1.5	4SP(5P)4P	884.6642	-2.216	101698.489	4.5	6S (5D)6D	90397.868	3.5	5P (5D)4D
	874.6686	-4.150	50157.452	4.5	D6S (3F)4F	61587.214	5.5	4P (3H)4I	884.7468	-4.762	77230.900	4.5	D5S2(7S)2H	65931.334	3.5	4P (3G)4G
	874.9035	-3.434	73492.215	3.5	D5S2(7S)4F	62065.521	3.5	5D (5D)4D	884.9641	-3.199	105127.770	2.5	5D (5D)4D	93830.979	2.5	4SP(5D)6D
	874.9559	-2.532	105414.180	2.5	4D (3F)4G	93988.170	2.5	4SP(5G)4G	885.1161	-4.053	82853.658	5.5	4D (5D)6F	94148.510	4.5	4SP(5G)4G
	875.2326	-2.758	54273.641	4.5	D5S2(7S)4G	6596.038	4.5	4P (3G)4G	885.6427	-4.100	103983.510	3.5	5S (3D)2G	92849.374	2.5	4P (3P)2D
	875.2459	-2.644	103265.694	0.5	6S (5D)4D	91843.470	1.5	5P (5D)6P	885.6981	-2.232	105127.770	2.5	5D (5D)4D	93640.340	1.5	4SP(5D)6D
	875.3343	-2.935	83459.670	1.5	4D (5D)6F	94880.740	0.5	4SP(5P)4P	885.8216	-1.460	102334.112	2.5	6S (5D)6D	91048.256	1.5	5P (5D)4D
	875.4051	-3.512	81734.750	3.5	D5S2(7S)2F	70314.604	4.5	4P (3G)2G	886.1409	-4.573	104411.690	4.5	5D (5D)6G	95995.690	2.5	4SP(5P)4D
	875.8019	-3.668	103265.694	0.5	6S (5D)4D	91850.722	0.5	4SP(5D)6F	886.0742	-4.130	54273.641	4.5	D5S2(7S)4G	65556.280	4.5	4P (3H)2H
	875.9672	-4.505	54283.220	3.5	D5S2(7S)4G	6596.038	4.5	4P (3G)4G	886.0895	-3.369	79885.493	2.5	5S (5D)4D	91167.937	3.5	5P (5D)6P
	877.1165	-2.969	101698.489	4.5	6S (5D)6D	90300.625	3.5	5P (5D)6F	886.1409	-4.573	104411.690	4.5	5D (5D)6D	93129.900	3.5	4P (3F)4D
	877.1704	-3.268	80177.975	1.5	5S (5D)4D	91575.139	2.5	5P (5D)6P	886.3208	-2.331	83459.670	1.5	4D (5D)6F	94739.170	1.5	4SP(5P)4F
	877.5048	-3.463	73637.340	1.5	D5S2(7S)4F	62244.520	1.5	4P (3F)4F	886.6800	-1.953	103118.400	1.5	6S (5D)4D	91843.470	1.5	5P (5D)6P
	877.5068	-9.129	27620.412	2.5	D6S (3F)2F	39013.206	1.5	4P (5D)6D	886.8271	-4.796	54283.220	3.5	D5S2(7S)4G	65556.280	4.5	4P (3H)2H
	877.5321	-4.537	83308.194	2.5	4D (5D)6F	94700.660	2.5	4P (3F)2D	887.0419	-3.877	73395.930	2.5	D5S2(7S)4F	62125.600	1.5	4P (3P)2D
	877.5611	-1.306	102030.912	3.5	6S (5D)6D	90638.822	2.5	5P (5D)4D	887.2507	-4.080	103118.400	1.5	6S (5D)4D	91850.722	0.5	4SP(5D)6F
	877.8261	-3.099	104873.230	3.5	5D (5D)4D	93484.580	4.5	4P (3F)4F	887.3091	-0.760	77861.625	4.5	5S (5D)6D	89128.561	3.5	4SP(5P)6P
	878.0628	-3.723	104873.230	3.5	5D (5D)4D	93487.650	3.5	4P (3F)4F	887.5747	-1.811	102334.112	2.5	6S (5D)6D	91070.547	2.5	5P (5D)4F
	878.1909	-3.706	104868.500	4.5	5D (5D)6G	93484.580	4.5	4P (3F)4F	888.0803	-3.374	102388.530	1.5	5D (5D)6G	94031.378	0.5	4SP(5D)6D
	878.4278	-3.077	104868.500	4.5	5D (5D)6G	93487.650	3.5	4P (3F)4F	888.5628	-4.889	104380.940	3.5	5D (5D)6F	93129.900	3.5	4P (3D)4D
	878.4311	-4.526	103983.510	3.5	5S (3G)2G	92602.703	3.5	4P (3F)2G	888.6179	-2.132	105398.852	5.5	4D (3F)4H	94148.510	4.5	4SP(5G)4G
	878.5822	-1.545	104863.430	5.5	5D (5D)4F	93484.580	4.5	4P (3F)4F	888.6219	-0.802	70395.930	2.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F
	878.7331	-1.997	83308.194	2.5	4D (5D)6F	94685.090	2.5	4SP(5D)6P	889.0899	-3.311	103395.930	2.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F
	878.7955	-4.213	50157.452	4.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	889.3572	-4.935	83459.670	1.5	4D (5D)6F	94700.660	2.5	4P (3F)2D
	880.1486	-9.086	30764.485	3.5	D6S (3G)2G	42114.818	4.5	4P (5D)6F	890.4517	-1.661	105062.630	3.5	5S (5D)4D	91575.139	2.5	5P (5D)6P
	880.7975	-1.979	103600.440	6.5	4D (3H)4H	92250.210	6.5	4SP(5G)4H	890.4746	-4.499	83812.316	2.5	4D (5D)6D	95039.200	1.5	4P (3P)2P
	880.8353	-3.739	103265.694	0.5	6S (5D)4D	91915.950	1.5	4SP(5D)6F	890.4828	-1.739	102394.718	3.5	6S (5D)4D	91167.937	3.5	5P (5D)6P
	880.8941	-3.092	105205.790	2.5	5D (5D)6G	93830.979	2.5	4SP(5D)6D	889.6096	-4.272	105449.540	3.5	5D (5D)4G	94211.739	2.5	4SP(5P)4F
	879.6180	-2.643	105205.790	2.5	5D (5D)6G	93840.340	1.5	4SP(5D)6D	889.7811	-2.996	73393.745	4.5	D5S2(7S)4F	62158.110	4.5	4P (3F)4F
	879.6555	-3.712	78525.407	2.5	5S (5D)6D	89890.373	3.5	4P (3F)4G	889.8258	-4.444	104630.430	1.5	5D (5D)6P	93395.360	2.5	4P (3F)4F
	880.4134	-4.213	50157.452	4.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	889.8590	-2.007	105062.630	3.5	5D (5D)6G	93830.979	2.5	4SP(5D)6D
	880.7896	-9.086	30764.485	3.5	D6S (3G)2G	42114.818	4.5	4P (5D)6F	890.4517	-1.661	105062.630	3.5	5S (5D)4D	91575.139	2.5	5P (5D)6P
	880.7975	-1.979	103600.440	6.5	4D (3H)4H	92250.210	6.5	4SP(5G)4H	890.4746	-4.499	83812.316	2.5	4D (5D)6D	95039.200	1.5	4P (3P)2P
	880.8353	-3.739	103265.694	0.5	6S (5D)4D	91915.950	1.5	4SP(5D)6F	890.4828	-1.739	102394.718	3.5	6S (5D)4D	91167.937	3.5	5P (5D)6P
	880.9826	-2.296	54232.195	5.5	D5S2(7S)4G	65580.041	5.5	4P (3G)4G	890.5907	-2.427	83459.670	1.5	4D (5D)6F	94685.090	2.5	4SP(5D)6P
	881.0991	-3.368	54902.315	1.5	D6S (3F)2P	66248.660	0.5	4P (3G)2S	890.7286	-4.003	105211.140	4.5	5D (5D)4G	93987.457	3.5	4SP(5D)6D
	881.1942	-7.934	27314.922	3.5	D6S (3F)2F	38660.043	3.5	4P (5D)6D	890.9360	-4.797	104120.270	2.5	5D (5D)6P	92899.200	2.5	4P (3F)4D
	881.2889	-2.043	102543.648	1.5	6S (5D)6D	91199.746	0.5	5P (5D)4D	890.9543	-3.112	104705.420	3.5	5D (5D)6G	93484.580	4.5	4P (3F)4F
	881.3333	-4.312	84424.370	1.5	4D (5D)6P	95767.700	0.5	4SP(5P)4D	891.1534	-4.781	105205.790	2.5	5D (5D)6G	93987.457	3.5	4SP(5D)6D
	881.5024	-0.656	79439.467	3.5	5S (5D)4D	90780.621	3.5	5P (5D)4F	891.1981	-3.514	104705.420	3.5	5D (5D)6D	93487.650	3.5	4P (3F)4F
	881.5191	-3.259	105414.180	2.5	4D (3F)4G	94073.240	3.5	4SP(5G)4G	891.1981	-2.388	105291.010	3.5	4D (3F)4G	94073.240	3.5	4SP(5G)4G
	881.5413	-4.168	73492.215	3.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F	891.7328	-4.771	81734.750	3.5	D5S2(7S)2F	70523.706	3.5	4P (3G)2G
	881.5525	-3.697	104828.160	2.5	5D (5D)6D	93487.650	3.5	4P (3F)4F	891.8976	-4.095	105398.852	5.5	4D (3F)4H	94189.880	5.5	4SP(5G)4G
	881.8859	-4.545	82853.658	5.5	4D (5D)6F	94189.880	5.5	4SP(5G)4G	891.9956	-3.588	54870.528	2.5	D6S (3F)2F	66078.269	2.5	4P (3G)4G
	881.9996	-2.574	102543.648	1.5	6S (5D)6D	91208.887	1.5	5P (5D)4F	892.0726	-1.465	78237.685	3.5	5S (5D)6F	89444.458	2.5	4SP(5P)6P
	882.0507	-4.902	73492.215	3.5	D5S2(7S)4F	62158.110	4.5	4P (3F)4F	892.2842	-0.877	82853.658	5.5	4D (5D)6F	94057.773	4.5	4SP(5D)6D
	882.3384	-4.471	73395.930	2.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	892.4169	-3.727	103118.400	1.5	6S (5D)4D	91915.950	1.5	4SP(5D)6F
	882.5086	-3.955	73393.745	4.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	892.6635	0.186	79439.467	3.5	5S (5D)4D	90638.822	2.5	5P (5D)4D
	882.6469	-3.864	103608.909	4.5	5S (3G)2G	92282.460	3.5	4SP(5G)4F	892.9282	-3.471	105230.290	0.5	5D (5D)4D	94031.378	0.5	4SP(5D)6D
	882.7738	-3.983	50187.813	3.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	893.4115	-4.547	50142.786	2.5	D6S (3F)4F	61332.764	1.5	4P (3P)4P
	882.7848	-3.476	103751.660	5.5	4D (3H)4H	92426.980	4.5	4SP(5G								

J	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
1	894.6051	-4.392	31483.176	3.5	D6S (3D)4D	42658.224	3.5	4P (5D)6P	908.1166	-1.367	82978.677	4.5	4D (5D)6F	93987.457	3.5	4SP(5D)6D
	894.6853	-4.253	54904.222	3.5	D6S (3F)2F	66078.269	2.5	4P (3G)4G	908.1603	-4.504	81639.260	2.5	D5S2(7S)2F	92647.510	1.5	4P (3F)4D
	894.8311	-4.438	85184.734	4.5	4D (5D)4G	96356.960	3.5	4SP(3G)2F	908.1928	-3.873	105065.630	3.5	5D (5D)6G	94057.773	4.5	4SP(5D)6D
	895.0228	-4.083	82978.677	4.5	4D (5D)6F	94148.510	4.5	4SP(5G)4G	908.2981	-2.305	105155.090	4.5	4D (3F)4G	94148.510	4.5	4SP(5G)4G
	895.0287	-4.248	73492.215	3.5	D5S2(7S)4F	62322.431	3.5	4P (3H)2G	908.3290	-4.358	103608.900	4.5	5S (3G)2G	92602.703	3.5	4P (3F)2G
	895.1191	-4.759	105155.090	4.5	4D (3F)4G	93987.457	3.5	4SP(5D)6D	908.7132	-4.301	78725.190	1.5	5S (5D)6D	92927.342	2.5	4P (3F)4G
	895.3160	-1.301	102334.112	2.5	6S (5D)6D	91167.937	3.5	5P (5D)6P	909.0744	-2.565	104828.160	2.5	5D (5D)6D	93830.979	2.5	4SP(5D)6D
	895.4544	-4.214	81734.750	3.5	D5S2(7S)2F	92899.200	2.5	4P (3F)4D	909.3302	-4.597	105205.790	2.5	5D (5D)6G	94211.739	2.5	4SP(5P)4P
	895.5897	-0.084	79885.493	2.5	5S (5D)4D	91048.256	1.5	5P (5D)4D	909.5150	-0.255	77861.625	4.5	5S (5D)6D	88853.533	3.5	5P (5D)6D
	896.3442	-3.651	105211.140	4.5	5D (5D)4G	94057.773	4.5	4SP(5D)6D	909.6378	-4.765	104120.270	2.5	5D (5D)6P	93129.900	3.5	4P (3F)4D
	897.0928	-7.846	27314.922	3.5	D6S (3F)2F	62244.520	1.5	4P (3F)4F	909.8489	-1.490	104828.160	2.5	5D (5D)6D	93840.340	1.5	4SP(5D)6D
	897.2184	-3.095	105291.010	3.5	4D (3F)4G	38458.981	4.5	4P (5D)6D	909.9065	-4.475	83713.536	3.5	4D (5D)6D	94700.660	2.5	4P (3F)2D
	897.2925	-1.898	98130.131	6.5	5S (3H)4H	109271.710	5.5	4SP(3I)2I	910.1466	-2.967	58666.258	3.5	D6S (1G)2G	69650.484	2.5	4P (3G)2F
	897.3945	-3.273	105127.770	2.5	5D (5D)4D	93987.457	3.5	4SP(5D)6D	910.7201	-1.623	98294.401	5.5	5S (3H)4H	109271.710	5.5	4SP(3I)2I
	898.1130	-2.760	54232.195	5.5	D5S2(7S)4G	94073.240	3.5	4SP(5G)4G	910.9100	-2.873	102543.648	1.5	6S (5D)6D	61556.835	3.5	4P (3H)4F
	898.2431	-1.546	102030.912	3.5	6S (5D)6D	90901.124	2.5	5P (5D)4P	911.1978	-1.895	83713.536	3.5	4D (5D)6D	94685.090	2.5	4SP(5D)6P
	898.6115	-2.563	102334.112	2.5	6S (5D)6D	91208.887	1.5	5P (5D)4F	911.4082	-3.868	50187.813	3.5	D6S (3F)4F	61156.835	3.5	4P (3H)4F
	898.6437	-3.886	84870.863	2.5	4D (5D)4D	95995.690	2.5	4SP(5P)4P	911.4508	-0.973	102543.648	1.5	6S (5D)6D	91575.139	2.5	5P (5D)6P
	898.8749	-4.337	85728.806	1.5	4D (5D)4S	74606.841	2.5	4P (3D)2D	911.6728	-2.719	50075.910	1.5	D6S (3F)4F	61041.748	2.5	4P (3H)4G
	899.0334	-2.639	50212.826	2.5	D6S (3P)4P	61332.764	1.5	4P (3P)4P	911.7250	-3.003	103155.090	4.5	4D (3F)4G	94189.880	5.5	4SP(5G)4G
	899.3938	-3.613	81639.260	2.5	D5S2(7S)2F	70523.706	3.5	4P (3G)2G	911.8364	-3.681	73395.930	2.5	D5S2(7S)4F	84359.800	1.5	4P (1F)2D
	899.9491	-2.616	104593.270	5.5	5D (5D)6G	93484.580	4.5	4P (3F)4F	911.8719	-4.375	81639.260	2.5	D5S2(7S)2F	92602.703	3.5	4P (3F)2G
	900.6104	-2.748	78525.407	2.5	5S (5D)6D	89625.940	1.5	4SP(5P)6P	912.1065	-3.941	81734.750	3.5	D5S2(7S)2F	92695.374	2.5	4P (3P)2D
	900.6804	-3.623	103118.400	1.5	6S (5D)4D	92018.729	2.5	4SP(5D)6F	912.1280	-1.020	102030.912	3.5	6S (5D)6D	91070.547	2.5	5P (5D)4F
	900.7375	-2.008	105288.847	6.5	4D (3F)4H	94189.880	5.5	4SP(5G)4G	912.2548	-1.757	102802.312	2.5	6S (5D)4D	91843.470	1.5	5P (5D)6P
	900.8176	-4.968	104296.460	2.5	5D (5D)6F	93328.480	1.5	4P (3F)4F	912.2915	-0.401	79439.467	3.5	5S (5D)4D	90397.868	3.5	5P (5D)4D
	901.9286	-4.951	103983.510	3.5	5S (3G)2G	92899.200	2.5	4P (3F)4D	912.9134	-0.985	103265.694	0.5	6S (5D)4D	92314.758	0.5	5P (5D)4P
	902.3530	-1.321	82978.677	4.5	4D (5D)6F	94057.773	4.5	4SP(5D)6D	912.9392	-4.403	50142.786	2.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D
	902.4282	-4.320	105065.630	3.5	5D (5D)6G	93987.457	3.5	4SP(5D)6D	913.1156	-3.405	103711.730	2.5	5D (5D)6S	94763.219	3.5	4SP(5D)6P
	902.6383	-3.500	80177.975	1.5	5S (5D)4D	69102.380	2.5	4SP(5S)4P	913.2365	-0.484	79439.467	3.5	5S (5D)4D	90386.528	4.5	5P (5D)4F
	902.6662	-3.308	83136.487	3.5	4D (5D)6F	94211.739	2.5	4SP(5P)4P	913.3334	-4.234	103630.750	2.5	5D (5D)4G	94685.090	2.5	4SP(5D)6P
	902.9873	-4.110	73393.745	4.5	D5S2(7S)4F	62322.431	3.5	4P (3H)2G	913.8014	-3.698	58666.258	3.5	D6S (1G)2G	69606.552	3.5	4P (3G)2F
	903.8353	-3.019	78577.280	4.5	D5S2(7S)2G	67516.332	5.5	4P (3G)2H	914.0970	-4.893	83136.487	3.5	4D (5D)6F	94073.240	3.5	4SP(5G)4G
	903.8451	-4.621	54870.528	2.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	914.9943	-4.693	104411.690	4.5	5D (5D)6D	93484.580	4.5	4P (3F)4F
	904.2287	-4.811	81639.260	2.5	D5S2(7S)2F	92695.374	2.5	4P (3P)2D	914.9254	-2.284	83812.316	2.5	4D (5D)6D	94739.170	1.5	4SP(5P)4P
	904.7803	-3.689	103265.694	0.5	6S (5D)4D	94763.219	3.5	4SP(5D)6P	915.1611	-3.849	104411.690	4.5	5D (5D)6D	93487.650	3.5	4P (3F)4F
	904.8647	-1.475	79439.467	3.5	5S (5D)4D	92216.320	1.5	4P (3P)2D	915.3919	-2.009	83136.487	3.5	4D (5D)6F	94057.773	4.5	4SP(5D)6D
	905.2266	-3.284	80346.016	0.5	5S (5D)4D	69302.090	1.5	4SP(5S)4P	915.5805	-2.595	80346.016	0.5	5S (5D)4D	69426.980	0.5	4SP(5S)4P
	905.3639	-1.688	104873.230	3.5	5D (5D)4D	93830.979	2.5	4SP(5D)6D	915.6784	-2.542	101698.489	4.5	6S (5D)6D	90780.621	3.5	5P (5D)4F
	905.5357	-3.357	103265.694	0.5	6S (5D)4D	92225.538	1.5	5P (5D)4P	915.7705	-2.581	104757.110	0.5	5D (5D)6D	93840.340	1.5	4SP(5D)6D
	905.8066	-1.838	83726.364	4.5	4D (5D)6D	94763.219	3.5	4SP(5D)6P	915.8325	-2.878	105127.770	2.5	5D (5D)4D	94211.739	2.5	4SP(5P)4P
	906.1489	-3.472	85184.734	4.5	4D (5D)4G	96217.420	3.5	4SP(5P)4D	915.9157	-4.136	103063.550	5.5	4D (3F)4G	94148.510	4.5	4SP(5G)4G
	906.2791	-4.267	104426.460	2.5	5D (5D)6F	93395.360	2.5	4P (3F)4F	916.5373	-4.827	84131.563	0.5	4D (5D)6D	95039.200	1.5	4P (3P)2P
	906.2946	-0.074	80177.975	1.5	5S (5D)4D	91208.887	1.5	5P (5D)4F	916.5838	-2.255	103265.694	0.5	6S (5D)4D	92358.610	1.5	4SP(5G)4F
	906.6069	-4.023	54904.222	3.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	916.7085	-4.216	50142.786	2.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D
	906.6457	-3.300	105711.730	2.5	5D (5D)6S	94685.090	2.5	4SP(5D)6P	916.8813	-3.222	83308.194	2.5	4D (5D)6F	94211.739	2.5	4SP(5P)4P
	907.0462	-0.204	80177.975	1.5	5S (5D)4D	91199.746	0.5	5P (5D)4P	917.0045	-3.400	103118.400	1.5	6S (5D)4D	92216.320	1.5	4P (3P)2D
	907.2291	-1.173	98130.131	6.5	5S (3H)4H	109149.680	6.5	4SP(3I)2I	917.1669	-0.479	78725.790	1.5	5S (5D)6D	89625.940	1.5	4SP(5P)6P
	907.3976	-3.670	50075.910	1.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D	917.2668	-3.825	50142.786	2.5	D6S (3F)4F	61041.748	2.5	4P (3H)4G
	907.5518	-0.068	79885.493	2.5	5S (5D)4D	90901.124	2.5	5P (5D)4P	917.4859	-4.403	104380.940	3.5	5D (5D)6F	93484.580	4.5	4P (3F)4F
	907.6822	-3.234	50142.786	2.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H	917.5660	-2.952	49506.934	1.5	D6S (3P)4P	60402.342	2.5	4P (3P)4P
	907.7373	-0.362	79885.493	2.5	5S (5D)4D	90998.873	1.5	4P (3F)4P	917.5896	0.420	79885.493	2.5	5S (5D)4D	90780.621	3.5	5P (5D)4F
	907.7508	-4.813	84844.834	2.5	4D (5D)6G	95858.050	1.5	4SP(5P)4D	917.7444	-4.449	104380.940	3.5	5D (5D)6F	93427.650	3.5	4P (3F)4F
	907.8492	-4.558	83136.487	3.5	4D (5D)6F	94148.510	4.5	4SP(5G)4G	917.7805	-2.532	103118.400	1.5	6S (5D)4D	92225.538	1.5	5P (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
917.8049	0.053	80177.975	1.5	5S (5D)4D	91070.547	2.5	5P (5D)4F	927.2218	-0.327	78843.992	0.5	5S (5D)6D	89625.940	1.5	48P(5P)6P
917.9479	0.179	78237.685	3.5	5S (5D)6D	89128.561	3.5	4SP(5P)6P	927.4685	-2.709	108630.429	5.5	5S (5D)2I	97851.350	4.5	4P (1G)2H
917.9646	-2.600	83990.063	1.5	4D (5D)6D	94880.740	0.5	4SP(5P)4P	928.1975	-3.967	54063.459	0.5	D6S (3P)2P	64834.073	1.5	4P (3P)2P
918.3285	-1.222	102802.312	2.5	6S (5D)4D	91915.990	1.5	4SP(5D)6F	928.3290	-3.877	50187.813	3.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G
918.3782	-1.734	104873.230	3.5	6S (5D)4D	93987.457	3.5	4SP(5D)6D	928.7390	-4.478	105449.540	3.5	4SP(5D)4G	94685.090	2.5	4SP(5D)6P
918.7158	0.243	78237.685	3.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	929.1312	-2.384	103118.400	1.5	6S (5D)4D	92358.610	1.5	48P(5G)4F
918.7774	-2.038	104868.500	4.5	5D (5D)6G	93987.457	3.5	4SP(5D)6D	929.2018	-0.564	102334.112	2.5	6S (5D)6D	91575.139	2.5	5P (5D)6P
918.8159	-3.788	50212.826	2.5	D6S (3P)4P	61093.413	2.5	4P (3P)2D	929.3091	-2.422	104588.710	1.5	5D (5D)6D	93830.979	2.5	48P(5D)6D
919.2131	-2.485	80177.975	1.5	5S (5D)4D	69302.090	1.5	4SP(5S)4D	929.5832	-4.066	85462.862	3.5	4D (5D)4G	96217.420	3.5	48P(5P)4D
919.3352	-1.672	104705.420	3.5	5D (5D)6D	93830.979	2.5	4SP(5D)6D	929.6895	-0.033	79885.493	2.5	5S (5D)4D	90638.822	2.5	5P (5D)4D
919.4004	-2.418	105063.550	5.5	4D (3F)4G	94189.880	5.5	4SP(5G)4G	929.7270	0.282	77861.625	4.5	5S (5D)6D	88614.520	4.5	48P(5P)6D
919.6338	-4.782	104000.810	3.5	5D (5D)6P	94685.090	2.5	4SP(5D)6P	929.7301	-4.840	102842.119	4.5	5S (3G)4G	92089.260	3.5	48P(5G)4H
919.6870	-4.004	80177.975	1.5	5S (5D)4D	93129.900	3.5	4P (3F)4D	929.7984	-3.662	83459.670	1.5	4D (5D)6F	94211.739	2.5	48P(5P)4P
919.8840	-4.883	81734.750	3.5	5S (5D)4D	91048.256	1.5	5P (5D)4D	929.8913	-2.602	80177.975	1.5	5S (5D)4D	96426.980	0.5	48P(5S)4P
920.3056	-0.660	102030.912	3.5	6S (5D)6D	92602.703	3.5	4P (3F)2G	929.9130	-2.099	102666.694	0.5	6S (5D)6D	91915.950	1.5	48P(5D)6F
920.3144	-0.438	80346.016	0.5	5S (5D)4D	91167.937	3.5	5P (5D)6P	930.0486	-3.179	83990.063	1.5	4D (5D)6D	94739.170	1.5	48P(5P)4P
920.4072	0.247	77861.625	4.5	5S (5D)6D	91208.887	1.5	5P (5D)4F	930.0546	-3.179	83990.063	1.5	4D (5D)6D	94739.170	1.5	48P(5P)4P
920.4595	-0.025	79439.467	3.5	5S (5D)4D	88723.400	4.5	5P (5D)6D	930.0743	-4.815	105449.540	3.5	5D (5D)4G	94700.660	2.5	4P (3F)2D
920.9580	-0.673	98294.401	5.5	5S (3H)4H	90300.625	3.5	5P (5D)6F	930.1184	-2.067	104588.710	1.5	4SP(5D)6D	93840.340	1.5	48P(5D)6D
921.0721	-4.836	50187.813	3.5	D6S (3F)4F	109149.680	6.5	4SP(3I)2I	930.3603	-0.166	78725.790	1.5	5S (5D)6D	89471.365	0.5	5P (3D)6D
921.0758	-3.391	105065.630	3.5	5D (5D)6G	61041.748	2.5	4P (3H)4G	930.4613	-2.891	79885.493	2.5	5S (5D)4D	90629.902	1.5	4P (3F)4S
921.0895	-0.553	80346.016	0.5	5S (5D)4D	94211.739	2.5	4SP(5P)4P	930.5809	-3.482	54063.459	0.5	D6S (3P)2P	64806.487	0.5	4P (3F)2P
921.0997	-4.676	103983.510	3.5	5S (3G)2G	91199.746	0.5	5P (5D)4D	931.6981	-3.758	50157.452	4.5	D6S (3F)4F	60887.598	5.5	4P (3H)4H
921.3238	-1.459	83136.487	3.5	4D (5D)6F	93129.900	3.5	4P (3F)4D	932.0120	-3.094	86599.738	2.5	4D (5D)4F	97326.270	1.5	48P(3P)2P
921.3565	-3.756	88157.116	1.5	4D (5D)4F	93987.457	3.5	4SP(5D)6D	932.0816	-2.024	104757.110	0.5	5D (5D)6D	94031.378	0.5	48P(5D)6D
921.8921	-3.027	103118.400	1.5	6S (5D)4D	92274.120	2.5	4P (3P)4P	932.1157	-3.558	102842.119	4.5	5S (3G)4G	92116.780	4.5	48P(5G)4H
922.1963	-3.040	104828.160	2.5	6S (5D)6D	93987.457	3.5	4SP(5D)6D	932.1530	-4.338	104120.270	2.5	5D (5D)6P	93395.360	2.5	4P (3F)4F
922.5933	-4.093	54273.641	4.5	D5S2(7S)4G	65109.679	3.5	4P (3F)2G	932.3061	-0.060	80177.975	1.5	5S (5D)4D	90901.124	2.5	5P (5D)4P
922.7633	-3.941	54275.637	2.5	D5S2(7S)4G	65109.679	3.5	4P (3F)2G	932.3959	-4.541	85495.304	2.5	4D (5D)6S	96217.420	3.5	48P(5P)4D
922.9380	-4.144	50157.452	4.5	D6S (3F)4F	60989.444	4.5	4P (3H)4H	932.5018	-0.028	80177.975	1.5	5S (5D)4D	90988.873	1.5	4P (3P)4P
923.1996	-4.697	50212.826	2.5	D6S (3P)4P	61041.748	2.5	4P (3H)4G	932.6067	-4.657	99573.225	4.5	5S (3F)4F	88853.533	3.5	5P (5D)6D
923.4096	-3.211	54283.220	3.5	D5S2(7S)4G	65109.679	3.5	4P (3F)2G	932.6365	-4.663	81639.260	2.5	D5S2(7S)2F	92358.610	1.5	48P(5G)4F
923.4223	-0.947	98445.400	4.5	5S (3H)4H	109271.710	5.5	4SP(3I)2I	932.6584	-4.884	85048.602	1.5	4D (5D)4D	95767.700	0.5	48P(5P)4D
923.6856	-0.787	102666.694	0.5	6S (5D)6D	91843.470	1.5	5P (5D)6P	932.6958	-0.274	78725.790	1.5	5S (5D)6D	89444.458	2.5	48P(5P)6P
923.9020	-4.757	103950.590	4.5	5D (5D)6F	93129.900	3.5	4P (3F)4D	932.7572	-2.060	104705.420	3.5	5D (5D)6D	93987.457	3.5	48P(5D)6D
923.9968	-1.118	102394.718	3.5	6S (5D)4D	91575.139	2.5	5P (5D)6P	932.8192	-4.873	104705.420	3.5	5D (5D)6D	93988.170	2.5	48P(5G)4G
924.0745	-3.437	88189.030	0.5	4D (5D)4F	99007.700	0.5	4SP(5D)4D	933.0221	-4.300	104863.430	5.5	5D (5D)4G	94148.510	4.5	48P(5G)4G
924.3050	-4.073	102666.694	0.5	6S (5D)6D	91850.722	0.5	4SP(5D)6F	933.1848	-4.768	102802.312	2.5	6S (5D)4D	92089.260	3.5	48P(5G)4H
924.3490	-2.648	104873.230	3.5	5D (5D)4D	94057.773	4.5	4SP(5D)6D	933.2513	-4.429	84326.912	2.5	4D (5D)6P	95039.200	1.5	4P (3P)2P
924.4739	-2.604	50142.786	2.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G	933.3987	-4.795	83990.063	1.5	4D (5D)6D	94700.660	2.5	4P (3F)2D
924.6245	-2.779	103265.694	0.5	6S (5D)4D	92453.460	0.5	4P (3F)4D	933.6247	-4.014	79885.493	2.5	5S (5D)4D	90593.497	1.5	5P (5D)6F
924.7534	-3.588	104868.500	4.5	5D (5D)6G	94057.773	4.5	4SP(5D)6D	934.1275	-0.034	80346.016	0.5	5S (5D)4D	91048.256	1.5	5P (5D)4D
924.8628	-4.273	85048.602	1.5	4D (5D)4D	95858.050	1.5	4SP(5P)4D	934.3075	-0.681	102543.648	1.5	6S (5D)6D	91843.470	1.5	5P (5D)6P
924.9641	-4.522	73637.340	1.5	D5S2(7S)4F	62829.075	0.5	4P (3F)4D	934.7575	-2.294	83990.063	1.5	4D (5D)6D	94685.090	2.5	48P(5D)6P
925.1761	0.110	78525.407	2.5	5S (5D)6D	89331.195	1.5	5P (5D)6D	934.8043	-1.805	83136.487	3.5	4D (5D)6F	93830.979	2.5	48P(5D)6D
925.1873	-2.592	104863.430	5.5	5S (5D)4G	94057.773	4.5	4SP(5D)6D	934.9412	-3.935	102543.648	1.5	6S (5D)6D	91850.722	0.5	48P(5D)6F
925.3599	-1.210	103118.400	1.5	6S (5D)4D	92314.758	0.5	5P (5D)4P	935.0021	-4.895	81734.750	3.5	D5S2(7S)2F	92426.980	4.5	48P(5G)4F
925.4718	-3.468	73492.215	3.5	D5S2(7S)4F	62689.880	2.5	4P (3H)4H	935.1420	-4.357	81639.260	2.5	D5S2(7S)2F	92329.890	2.5	48P(5G)4F
925.5321	-3.062	50187.813	3.5	D6S (3F)4F	60989.444	4.5	4P (3H)4H	935.3761	-4.715	102842.119	4.5	5S (3G)4G	92154.165	3.5	48P(5D)6F
925.7190	-2.871	104630.430	1.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D	935.5191	-4.706	105449.540	3.5	5D (5D)4G	94763.219	3.5	48P(5D)6P
926.0784	-4.489	104868.500	4.5	5D (5D)6G	94073.240	3.5	4SP(5G)4G	936.1374	-1.961	83308.194	2.5	4D (5D)6F	93987.457	3.5	48P(5D)6D
926.3739	-4.291	54904.222	3.5	D6S (3F)2F	65696.038	4.5	4P (3G)4G	936.1447	-1.042	98130.131	6.5	5S (3H)4H	108809.310	5.5	48P(3G)4H
926.6030	-4.691	98130.131	6.5	5S (3F)2F	87340.983	5.5	4SP(5G)6F	936.4657	-2.123	102842.119	4.5	5S (3G)4G	92166.600	5.5	48P(5G)4H
926.6578	-2.026	103118.400	1.5	6S (5D)4D	92329.890	2.5	4SP(5G)4F	937.3946	-3.130	103118.400	1.5	6S (5D)4D	92453.460	0.5	4P (3F)4D
927.0013	-3.643	87985.628	2.5	4D (5D)4D	98770.140	1.5	4SP(5D)4D	937.6966	-0.836	80177.975	1.5	5S (5D)4D	90839.480	0.5	4P (3F)4P
927.0812	-4.229	102802.312	2.5	6S (5D)4D	92018.729	3.5	4SP(5D)6F	937.6978	-2.424	104873.230	3.5	5D (5D)4D	90471.739	2.5	48P(5P)4P
927.1216	-2.556	79885.493	2.5	5S (5D)4D	69102.380	2.5	4SP(5S)4P	938.5282	-4.302	54904.222	3.5	D6S (3F)2F	65556.280	4.5	4P (3H)2H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
938.7292	-4.219	50157.452	4.5	D6S (3F)4F	60807.230	4.5	4P (3H)4G	949.5702	-3.042	102802.312	2.5	6S (3D)4D	92274.120	2.5	4P (3D)4P
938.8729	-3.997	102802.312	2.5	6S (5D)4D	92154.165	3.5	4SP(5D)6F	949.6064	-4.989	105291.010	3.5	4P (3F)4G	94763.219	3.5	4SP(5D)6P
938.9170	-3.094	104705.420	3.5	6D (5D)6D	94057.773	4.5	4SP(5D)6F	949.7791	-3.585	57493.321	1.5	D5S2(7S)4P	46967.444	2.5	4P (5D)4P
939.3093	-4.711	81639.260	2.5	D5S2(7S)2F	92282.460	3.5	4SP(5G)4F	949.8655	-2.930	102543.648	1.5	6S (5D)6D	92018.729	2.5	4SP(5D)6F
939.4248	-4.723	77230.900	4.5	D5S2(7S)2H	66589.008	4.5	4P (3G)4H	950.0581	-1.692	83308.194	2.5	4D (5D)6F	93630.979	2.5	4SP(5D)6D
940.2440	-4.368	104120.270	2.5	5D (5D)6F	93487.650	3.5	4P (3F)4F	950.2464	-3.690	105205.790	2.5	5D (5D)6G	94685.090	2.5	4SP(5D)6P
940.3942	-4.756	82853.658	5.5	4D (5D)6F	93484.580	4.5	4P (3F)4F	950.3230	-1.923	102802.312	2.5	6S (5D)4D	92282.460	3.5	4SP(5G)4F
940.6634	-0.158	79439.467	3.5	5S (5D)4D	90067.347	4.5	5P (5D)6F	950.3768	-0.490	87985.628	2.5	4D (5D)4P	98505.100	2.5	4SP(5D)4D
940.6795	-1.977	102543.648	1.5	6S (5D)6D	91915.950	1.5	4SP(5D)6F	950.7598	-0.490	98294.401	5.5	5S (3H)4H	108809.310	5.5	4SP(3G)4H
940.7082	-0.797	78843.992	0.5	5S (5D)6D	89471.365	0.5	5P (5D)6D	950.9279	-4.288	104000.810	3.5	5D (5D)6P	93487.650	3.5	4P (3F)4F
941.4130	-2.488	50187.813	3.5	D6S (3F)4F	60807.230	4.5	4P (3H)4G	950.9990	-1.693	79885.493	2.5	5S (5D)4D	90397.868	3.5	5P (3F)4F
941.5223	-2.322	103265.694	0.5	6S (5D)4D	92647.510	1.5	4P (3F)4D	951.3068	-4.282	82978.677	4.5	4D (5D)6F	93487.650	3.5	4P (3F)4F
941.6787	-3.137	104828.160	2.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P	952.0848	-4.668	85495.304	2.5	4D (5D)6S	95995.690	2.5	4SP(5P)4D
941.7295	-0.251	78237.685	3.5	5S (5D)6D	88853.533	3.5	5P (5D)6D	952.2828	-3.042	83713.536	3.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P
941.7663	-3.940	86710.837	1.5	4D (5D)4F	97326.270	1.5	4SP(3P)2P	952.4225	-2.293	84266.556	3.5	4D (5D)6P	94763.219	3.5	4SP(5D)6P
941.9801	-3.101	88157.116	1.5	4D (5D)4F	98770.140	1.5	4SP(5D)4D	952.4953	-4.638	103983.510	3.5	5S (3G)2G	93487.650	3.5	4P (3F)4F
942.4611	-2.599	84131.563	0.5	4D (5D)6D	94739.170	1.5	4SP(5P)4P	952.6931	-2.975	104705.420	3.5	5D (5D)6D	94211.739	2.5	4SP(5P)4P
942.6528	-4.777	104000.810	3.5	5D (5D)6P	93395.360	2.5	4P (3F)4F	952.7128	-0.415	80346.016	0.5	5S (5D)4D	90839.480	0.5	4SP(3P)4P
942.6568	-4.148	78725.790	1.5	5S (5D)6D	89331.195	1.5	5P (5D)6D	952.9257	-3.088	105230.290	0.5	5S (5D)4D	94739.170	1.5	4SP(3P)4P
942.8315	-4.855	105288.530	1.5	5D (5D)6G	94685.090	2.5	4SP(5D)6P	952.9691	-0.914	102334.112	2.5	6S (5D)6D	91843.470	1.5	5P (5D)6P
942.8429	-3.624	79439.467	3.5	5S (5D)4D	90042.779	4.5	4P (3F)4G	953.2816	-0.553	78843.992	0.5	5S (5D)6D	89331.195	1.5	5P (5D)6D
942.8569	-0.312	78523.407	2.5	5S (5D)6D	89128.561	3.5	4SP(5P)6P	953.4169	-1.032	78237.685	3.5	5S (5D)6D	88723.400	4.5	5P (3D)6D
942.9314	-0.740	79885.493	2.5	5S (5D)4D	90487.810	2.5	5P (5D)6F	954.0270	-3.940	103608.909	4.5	5S (3G)2G	93129.900	3.5	4P (3D)6D
943.1599	-4.352	54232.195	5.5	D5S2(7S)4G	64831.943	4.5	4P (3F)2G	954.1700	-4.479	73393.745	4.5	D5S2(7S)4F	83871.184	4.5	4P (1F)2G
943.2219	-0.628	104630.430	1.5	5D (5D)6P	94031.378	0.5	4SP(5D)6D	954.5892	-1.869	83358.540	0.5	4D (5D)6F	94031.378	0.5	4SP(5D)6D
943.5397	-1.946	104426.460	2.5	5D (5D)6F	108729.160	6.5	4SP(3G)4H	954.6182	-4.093	73395.930	2.5	D5S2(7S)4F	83868.450	2.5	4P (1F)2D
943.5701	-4.674	81734.750	3.5	D5S2(7S)2F	93329.890	2.5	4SP(5G)4F	954.7668	-3.797	103118.400	1.5	6S (5D)4D	92647.510	1.5	4P (3F)4D
943.6672	-0.885	78525.407	2.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	954.8259	-2.220	80177.975	1.5	5S (5D)4D	90648.217	0.5	5P (3D)6F
944.3741	-1.890	104426.460	2.5	5D (5D)6F	93840.340	1.5	4SP(5D)6D	955.0306	-2.265	50157.452	4.5	D6S (3F)4F	60625.449	5.5	4P (3H)4G
944.3855	-4.347	102802.312	2.5	6S (5D)4D	92216.320	1.5	4P (3F)2D	955.1563	-3.291	105205.790	2.5	5D (5D)6G	94739.170	1.5	4SP(3P)4P
944.6165	-2.203	79885.493	2.5	5S (5D)4D	69302.090	1.5	4SP(5S)4P	955.4922	-4.580	103950.590	4.5	5D (5D)6F	93487.650	3.5	4P (3F)4F
944.8212	-3.656	88189.030	0.5	4D (5D)4P	98770.140	1.5	4SP(5D)4D	955.6475	-2.378	98445.400	4.5	5S (3H)4H	108906.640	3.5	4SP(3G)4H
945.1830	-4.033	81639.260	2.5	D5S2(7S)2F	92216.320	1.5	4P (3F)2D	956.6834	-1.537	80177.975	1.5	5S (5D)4D	90629.902	1.5	4P (3D)4S
945.2086	-2.102	102802.312	2.5	6S (5D)4D	92225.538	1.5	5P (5D)4P	956.0926	-2.603	84424.370	1.5	4D (5D)6P	94880.740	0.5	4SP(3P)4P
945.2338	-4.679	78577.280	4.5	D5S2(7S)2G	68000.788	4.5	4P (3G)2H	956.1472	-0.541	102030.912	3.5	6S (5D)6D	91575.139	2.5	5P (5D)6P
945.4048	-1.914	98294.401	5.5	5S (3H)4H	108868.980	4.5	4SP(3G)4H	956.4905	-4.264	103936.600	5.5	5D (5D)6F	93484.580	4.5	4P (3F)4F
945.6615	-2.180	83459.670	1.5	4D (5D)6F	94031.378	0.5	4SP(5D)6D	956.4990	-3.866	80177.975	1.5	5S (5D)4D	90629.902	1.5	4P (3D)4S
945.9146	-4.814	99688.337	3.5	5S (3F)4F	89119.457	2.5	5P (5D)6D	956.4747	-2.977	108804.667	3.5	5S (3D)4D	98354.660	2.5	4SP(5D)4F
946.4877	-2.815	49100.976	0.5	D6S (3P)4P	59663.456	1.5	4P (3P)4S	956.7449	-4.762	100492.020	3.5	5S (3F)2F	90042.779	4.5	4P (3F)4G
946.7406	-2.641	102842.119	4.5	5S (3G)4G	92282.460	3.5	4SP(5G)4F	956.7938	-4.117	73393.745	4.5	D5S2(7S)4F	62945.038	3.5	4P (3F)4D
946.8386	-4.539	77230.900	4.5	D5S2(7S)2H	66672.334	3.5	4P (3G)4H	956.8658	-4.276	105211.140	4.5	5D (5D)4G	94763.219	3.5	4SP(5D)6P
946.8622	-2.960	54273.641	4.5	D5S2(7S)4G	64831.943	4.5	4P (3F)2G	957.1498	-3.933	105324.461	4.5	4D (3F)4H	95079.640	3.5	4P (3F)2F
946.9492	-1.941	104588.710	1.5	5D (5D)6D	94031.378	0.5	4SP(5D)6D	957.1553	-4.308	104593.270	5.5	5D (5D)6G	94148.510	4.5	4SP(5G)4G
947.3508	-0.426	80346.016	0.5	5S (5D)4D	90898.873	1.5	4P (3P)4F	957.2523	-3.623	102802.312	2.5	6S (5D)4D	92358.610	1.5	4SP(5G)4F
947.5874	-3.814	87985.628	2.5	4D (5D)4P	98535.850	3.5	4SP(5D)4F	957.2597	-3.068	57411.065	2.5	D5S2(7S)4P	46967.444	2.5	4P (5D)4P
947.6108	-1.503	104380.940	3.5	5D (5D)6F	93830.979	2.5	4SP(5D)6D	957.3460	-2.421	105127.770	2.5	5D (5D)4D	94685.090	2.5	4SP(5D)6P
947.6648	-3.991	105288.530	1.5	5D (5D)6G	94739.170	1.5	4SP(5P)4P	957.4857	-3.254	102666.694	0.5	6S (5D)6D	92225.538	1.5	5P (5D)4P
947.7221	-3.920	54283.220	3.5	D5S2(7S)4G	64831.943	4.5	4P (3F)2G	957.6832	-2.108	104426.460	2.5	5D (5D)6F	93987.457	3.5	4SP(5D)6D
947.8131	-4.416	81734.750	3.5	D5S2(7S)2F	92282.460	3.5	4SP(5G)4F	957.8701	-4.416	104734.750	3.5	D5S2(7S)2F	92171.716	4.5	4P (3F)2G
948.2077	-3.687	105589.420	3.5	4D (3F)4H	95046.100	2.5	4P (3F)2F	957.9306	-4.180	84326.912	2.5	4D (5D)6P	94763.219	3.5	4SP(5D)6P
948.3407	-4.698	102842.119	4.5	5S (3G)4G	92300.270	2.5	4SP(5D)6F	958.0530	-4.770	83713.536	3.5	4D (5D)6D	94148.510	4.5	4SP(3G)4G
948.5631	-4.576	81734.750	3.5	D5S2(7S)2F	92274.120	2.5	4P (3F)4P	958.0727	-1.635	98294.401	5.5	5S (3H)4H	108729.160	6.5	4SP(3G)4H
948.9118	-2.182	104593.270	5.5	5D (5D)6G	94057.773	4.5	4SP(5D)6D	958.1329	-4.216	84266.556	3.5	4D (5D)6P	94700.660	2.5	4P (3F)2D
949.1523	-3.533	85462.862	3.5	4D (5D)4G	95995.690	2.5	4SP(5P)4D	958.7755	-4.100	105127.770	2.5	5D (5D)4D	94700.660	2.5	4P (3F)2D
949.2137	-2.108	83308.194	2.5	4D (5D)6F	93840.340	1.5	4SP(5D)6D	959.0401	-1.150	104411.690	4.5	5D (5D)6D	93987.457	3.5	4SP(5D)6D
949.3574	-0.190	101698.489	4.5	6S (5D)6D	91167.937	3.5	5P (5D)6P	959.1002	0.387	98445.400	4.5	5S (3H)4H	108868.980	4.5	4SP(3G)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
959.1512	-2.740	103118.400	1.5	6S (5D)4D	92695.374	2.5	4P (3P)2D	971.6178	-1.816	104120.270	2.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D
959.2322	-4.773	83726.364	4.5	4D (5D)6D	94148.510	4.5	4SP(5G)4G	972.0529	-4.076	102584.963	5.5	5S (3G)4G	92300.277	4.5	4SP(5D)6F
959.5503	-4.452	104630.430	1.5	5D (5D)6P	94211.739	2.5	4SP(3P)4P	972.1285	-3.596	80346.016	0.5	5S (5D)4D	90629.902	1.5	4P (3P)4S
959.5647	-2.105	84266.556	3.5	4D (5D)6P	94685.090	2.5	4SP(5D)6P	972.3257	-2.380	83558.540	0.5	4D (5D)6F	93840.340	1.5	4SP(5D)6D
959.5805	-3.742	102166.600	5.5	4SP(5G)4H	92166.600	5.5	4SP(5G)4H	972.5026	-2.484	104120.270	2.5	5D (5D)6P	93840.340	1.5	4SP(5D)6D
959.5990	-2.420	102334.112	2.5	6S (5D)6D	91915.950	1.5	4SP(5D)6F	972.6911	-4.066	102394.718	3.5	6S (5D)4D	92116.780	4.5	4SP(5G)4H
959.8422	-1.913	80177.975	1.5	5P (5D)4D	90593.497	1.5	5P (5D)6F	972.7164	-4.906	78225.790	1.5	5S (5D)6D	89003.460	0.5	4P (3P)2S
959.8775	-3.136	102842.119	4.5	5S (3G)4G	92426.980	4.5	4SP(5G)4F	972.8595	-3.208	98294.401	5.5	5S (3H)4H	108570.560	4.5	4SP(3G)4G
959.8782	-0.039	79885.493	2.5	5S (5D)4D	90300.625	3.5	5P (5D)6F	973.0714	-4.242	83713.536	3.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
960.0436	-1.901	108804.667	3.5	5S (3D)4D	98391.330	3.5	4SP(5D)4D	973.4876	-3.503	102543.648	1.5	6S (5D)6D	92274.120	2.5	4P (3P)4P
960.0519	-3.386	102584.963	3.5	5S (3G)4G	92171.716	4.5	4P (3P)2G	973.5550	-3.212	108804.667	3.5	5S (3D)4D	98535.850	3.5	4SP(5D)4F
960.1431	-2.296	84326.912	2.5	4D (5D)6P	94739.170	1.5	4SP(5P)4P	973.7197	-3.068	103751.660	5.5	4D (3H)4H	93484.580	4.5	4P (3F)4F
960.3530	-3.734	102842.119	4.5	5S (3G)4G	92432.136	5.5	4SP(5D)6F	973.7383	-4.950	85728.806	1.5	4D (5D)4S	95995.690	2.5	4SP(5P)4D
960.5553	-4.052	105288.530	1.5	5D (5D)6G	94880.740	0.5	4SP(5P)4P	974.0098	-4.664	84870.863	2.5	4D (5D)6D	74606.841	2.5	4P (3D)2D
960.7481	-2.749	87985.628	2.5	4D (5D)4P	98391.330	3.5	4SP(5D)4D	974.2879	-1.254	83726.364	4.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
961.3281	-4.130	83812.316	2.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P	974.4338	-4.958	50142.786	2.5	D6S (3F)4F	60402.342	2.5	4P (3P)4P
961.7888	-4.247	84685.198	3.5	4D (5D)4D	95079.640	3.5	4P (3F)2F	974.4987	-4.370	83136.487	3.5	4D (5D)6F	93395.360	2.5	4P (3F)4F
961.8605	-0.448	78725.790	1.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	975.5820	-1.025	80346.016	0.5	5S (5D)4D	90593.497	1.5	5P (5D)6F
961.8776	-2.547	104380.940	3.5	5D (5D)6F	93987.457	3.5	4SP(5D)6D	975.8324	-4.130	102334.112	2.5	6S (5D)6D	92089.260	3.5	4SP(5G)4H
962.3297	-3.286	105127.770	2.5	5D (5D)4D	94739.170	1.5	4SP(5P)4P	976.2421	-4.437	102394.718	3.5	6S (5D)4D	92154.165	3.5	4SP(5D)6F
963.0648	-1.884	83459.670	1.5	4D (5D)6F	93840.340	1.5	4SP(5D)6D	976.3505	-2.912	102842.119	4.5	5S (3F)4G	92602.703	3.5	4P (3F)2G
963.0769	-2.658	105065.630	3.5	5D (5D)6G	94685.090	2.5	4SP(5D)6P	976.3757	-4.889	54870.528	2.5	D6S (3G)2G	65109.679	3.5	4P (3F)2G
963.2227	-4.778	73492.215	3.5	D5S2(7S)4F	83871.184	4.5	4P (1F)2G	976.7296	-3.000	84527.778	4.5	4D (5D)6G	94763.219	3.5	4SP(5D)6P
963.4081	-3.376	104588.710	1.5	5D (5D)6D	94211.739	2.5	4SP(5P)4P	976.9952	-4.086	86124.301	4.5	4D (5D)4F	96356.960	3.5	4SP(3G)2F
963.4207	-0.265	78237.685	3.5	5S (5D)6D	88614.520	4.5	4SP(5P)6D	977.0170	-4.909	104380.940	3.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G
963.4765	-3.205	73492.215	3.5	D5S2(7S)4F	83868.450	2.5	4P (1F)2D	977.3552	-2.920	102666.694	0.5	6S (5D)6D	92171.716	4.5	4P (3F)2G
963.4993	-4.030	102394.718	3.5	6S (5D)4D	92018.729	2.5	4SP(5D)6F	977.9181	-3.102	102394.718	3.5	6S (5D)4D	94211.739	2.5	4SP(5P)4P
963.9341	-2.123	83459.670	1.5	4D (5D)6F	93830.979	2.5	4SP(5D)6P	978.2819	-2.277	83990.063	1.5	6S (5D)6D	92889.200	2.5	4P (3F)4D
964.0627	-2.694	108648.695	6.5	5S (11)2I	98278.770	5.5	4P (1G)2H	978.8049	-3.636	103118.400	1.5	6S (5D)4D	92171.716	4.5	4P (3F)2G
964.1457	-3.161	87985.628	2.5	4D (5D)4P	98354.660	2.5	4SP(5D)4F	978.7109	-3.644	104426.460	2.5	5D (5D)6F	94211.739	2.5	4SP(5P)4P
964.2343	-4.064	105414.180	2.5	4D (3F)4G	95046.100	2.5	4P (3F)2F	978.7293	-4.347	50187.813	3.5	D6S (3F)4F	60402.342	2.5	4P (3P)4P
964.5626	-4.028	105127.770	2.5	5D (5D)4D	94763.219	3.5	4SP(5D)6P	978.8032	-4.486	102543.648	1.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F
964.6222	-1.249	98445.400	2.5	5S (3H)4H	108609.310	5.5	4SP(3G)4H	978.8534	-4.700	102666.694	0.5	6S (5D)6D	92453.460	2.5	4P (3F)4D
965.1560	-2.512	84326.912	2.5	4D (5D)6P	94685.090	2.5	4SP(5D)6P	979.0321	-4.496	105291.010	3.5	4D (3F)4G	95079.640	3.5	4P (3F)2F
965.5532	-0.422	104411.690	4.5	5D (5D)6D	94057.773	4.5	4SP(5D)6D	979.2807	-4.982	84870.863	3.5	4D (5D)4D	95079.640	3.5	4P (3F)2F
965.5698	-1.473	98130.131	6.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G	979.3536	-2.988	108804.667	3.5	5S (3D)4D	98596.650	4.5	4SP(5D)4F
965.6712	-4.106	87985.628	2.5	4D (5D)4P	98338.280	1.5	4SP(5P)4S	979.5993	-3.694	54904.222	3.5	D6S (3F)2F	65109.679	3.5	4P (3F)2G
965.7380	-3.236	102666.694	0.5	6S (5D)6D	92314.758	0.5	5P (5D)4P	980.1610	-2.316	102802.312	2.5	6S (5D)4D	92602.703	3.5	4P (3F)2G
965.7639	-4.307	108630.429	5.5	5S (11)2I	98278.770	5.5	4P (1G)2H	980.3595	-3.354	88157.116	1.5	4D (5D)4D	98354.660	2.5	4SP(5D)4F
965.8101	-4.337	83136.487	3.5	4D (5D)6F	93487.650	3.5	4P (3F)4F	980.9671	-3.425	99918.569	1.5	5S (3F)4F	89727.342	2.5	4P (3F)4G
965.9607	-2.714	105230.290	0.5	5D (5D)4D	94880.740	0.5	4SP(5P)4P	981.1318	-2.796	50212.826	2.5	D6S (3P)4P	60402.342	2.5	4P (3P)4P
966.1068	-3.494	88157.116	1.5	4D (5D)4P	98505.100	2.5	4SP(5D)4D	981.1364	-0.580	98294.401	5.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G
966.1217	-0.580	77861.625	4.5	5S (5D)6D	88209.450	3.5	4SP(5P)6D	981.2644	-3.521	104873.230	3.5	5D (5D)4D	94685.090	2.5	4SP(5D)6P
966.4568	-1.609	83713.536	3.5	4D (5D)6D	94057.773	4.5	4SP(5D)6D	981.5632	-3.888	102543.648	1.5	6S (5D)6D	92358.610	1.5	4SP(5G)4F
967.0653	0.302	98568.912	3.5	5S (3H)4H	108906.640	3.5	4SP(3G)4H	981.5004	-0.127	98445.400	4.5	5S (3H)4H	108631.090	3.5	4SP(3G)4G
967.1253	-1.925	79439.467	3.5	5S (5D)4D	69102.380	2.5	4SP(5S)4P	981.6399	-3.047	78183.030	3.5	D5S2(7S)2G	68000.788	4.5	4P (3G)2H
967.3437	-2.013	102384.963	5.5	5S (3G)4G	92250.210	6.5	4SP(5G)4H	981.9367	-4.359	88157.116	1.5	4D (5D)4P	98338.280	1.5	4SP(5P)4S
967.6568	-1.345	83726.364	4.5	4D (5D)6D	94057.773	4.5	4SP(5D)6D	982.0541	-2.995	102334.112	2.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
967.9644	-0.585	78525.407	2.5	5S (5D)6D	88853.533	3.5	5P (5D)6D	982.0941	-2.995	102334.112	2.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
968.4294	-1.642	104380.940	3.5	5D (5D)6F	94057.773	4.5	4SP(5D)6D	982.1015	-4.799	83308.194	2.5	4D (5D)6F	93487.650	3.5	4P (3F)4F
968.9040	-3.218	102543.648	1.5	6S (5D)6D	92225.538	1.5	5P (5D)4P	982.2080	-3.903	85679.698	2.5	4D (5D)4G	95858.050	1.5	4SP(5P)4D
969.1029	-4.244	85679.698	2.5	4D (5D)4G	95995.690	2.5	4SP(5P)4D	982.2171	-2.069	99093.452	5.5	5S (3H)2H	109271.710	5.5	4SP(31)2I
969.1602	-3.014	102334.112	2.5	6S (5D)6D	92018.729	2.5	4SP(5D)6F	982.3443	-4.024	104366.820	6.5	5D (5D)6G	94189.880	5.5	4SP(5G)4G
969.2149	-3.062	84424.370	1.5	4D (5D)6P	94739.170	1.5	4SP(5P)4P	982.5180	-1.846	83812.316	2.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
969.6817	-0.449	80177.975	1.5	5S (5D)4D	90487.810	2.5	5P (5D)6F	982.7663	-4.519	104873.230	3.5	5D (5D)4D	94700.660	2.5	4P (3F)2D
970.4002	-2.285	80346.016	0.5	5S (5D)4D	90648.217	0.5	5P (5D)6F	983.0310	-2.138	104000.810	3.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D
970.6012	-1.254	98568.912	3.5	5S (3H)4H	108868.980	4.5	4SP(3G)4H	983.0919	-2.898	104380.940	3.5	5D (5D)6F	94211.739	2.5	4SP(5P)4P
970.6484	-3.038	108804.667	3.5	5S (3D)4D	98505.100	2.5	4SP(5D)4D	983.1754	-4.374	84870.863	2.5	4D (5D)4D	95039.200	1.5	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
984.1775	-2.266	102584.963	5.5	5S (3G)4G	92426.980	4.5	4SP(5G)4F	999.3040	-3.407	102334.112	2.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F
984.3151	-2.887	49506.934	1.5	D6S (3P)4P	59663.456	1.5	4P (3F)4S	999.4136	-2.720	54283.220	3.5	D5S2(7S)4G	64286.345	3.5	4P (3F)2F
984.4858	-3.875	102802.312	2.5	6S (5D)4D	92647.510	1.5	4P (3F)4D	999.5612	-4.237	98568.912	3.5	5S (3H)4H	108570.560	4.5	4SP(3G)4G
984.8329	-4.505	82978.677	4.5	4D (5D)6F	93129.900	3.5	4P (3F)4D	999.7367	-3.411	84685.198	3.5	4D (5D)4D	94685.090	2.5	4SP(5D)6P
984.9738	-2.522	54275.637	2.5	D5S2(7S)4G	64425.408	2.5	4P (3F)2F	999.7576	-2.181	54232.195	5.5	D5S2(7S)4G	44232.512	4.5	4P (5D)4F
985.0244	-4.352	88189.030	0.5	4D (5P)4F	98338.280	1.5	4P (5P)4S	1000.1920	-3.720	103983.510	3.5	5S (3G)2G	93988.170	2.5	4SP(5G)4G
985.6246	-2.873	104828.160	2.5	5D (5D)6D	94685.090	2.5	4SP(5D)6P	1000.3849	-4.839	83136.487	3.5	4D (5D)6F	93129.900	3.5	4P (3F)4D
985.7103	-3.168	54283.220	3.5	D5S2(7S)4G	64425.408	2.5	4P (3F)2F	1001.2889	-4.299	104174.270	5.5	4D (3H)4I	94189.880	5.5	4SP(5G)4G
986.6223	-1.783	104120.270	2.5	5D (5D)6P	93987.457	3.5	4SP(5D)6D	1002.1811	-4.902	102334.112	2.5	6S (5D)6D	92358.610	1.5	4SP(5G)4F
986.9699	-4.542	85728.806	1.5	4D (5D)4S	95858.050	1.5	4SP(5P)4D	1002.2913	-2.947	84710.685	3.5	4D (5D)6G	94685.090	2.5	4SP(5D)6P
987.3358	-3.608	104315.370	6.5	4D (3H)2K	94189.880	5.5	4SP(5G)4G	1002.9617	-1.690	103994.718	3.5	6S (5D)4D	92426.980	4.5	4SP(5G)4F
987.3680	-0.739	98445.400	4.5	5S (3H)4H	108570.560	4.5	4SP(3G)4G	1003.4253	-1.549	103950.590	4.5	5D (5D)6F	93987.457	3.5	4SP(5D)6D
987.4490	-4.031	103608.909	4.5	5S (3G)2G	93484.580	4.5	4P (3F)4F	1004.1487	-1.885	99824.045	2.5	5S (3F)4F	109780.000	1.5	280DD
987.7485	-4.301	103608.909	4.5	5S (3G)2G	93487.650	3.5	4P (3F)4F	1004.5066	-4.654	57578.484	0.5	D5S2(7S)4P	47626.076	0.5	4P (5D)4P
987.8131	-2.786	102394.718	3.5	6S (5D)4D	92274.120	2.5	4P (3F)4P	1005.2205	-4.105	104630.430	1.5	5D (5D)6P	94685.090	2.5	4SP(5D)6P
988.1211	-1.486	83713.536	3.5	4D (5D)6D	93830.979	2.5	4SP(5D)6D	1005.2263	-4.662	84266.556	3.5	4D (5D)6P	94211.739	1.5	4SP(5P)4P
988.6278	-2.647	102394.718	3.5	6S (5D)4D	92282.460	3.5	4SP(5G)4F	1005.4533	-1.784	104000.810	3.5	5D (5D)6P	94057.773	4.5	4SP(5D)6D
988.8475	-2.424	104873.230	3.5	5D (5D)4D	94763.219	3.5	4SP(5D)6P	1005.5015	-4.454	84938.180	1.5	4D (5D)6G	94880.740	0.5	4SP(5P)4P
988.9881	-3.138	102334.112	2.5	6S (5D)6D	92225.538	1.5	5P (5D)4P	1005.5379	-2.804	104705.420	3.5	5D (5D)6D	94763.219	3.5	4SP(5D)6P
989.1361	-2.757	104868.500	4.5	5D (5D)6G	92695.374	2.5	4P (3P)2D	1005.5934	-4.844	102030.912	3.5	6S (5D)6D	92089.260	3.5	4SP(5G)4H
989.3103	-2.687	57493.321	1.5	D5S2(7S)4P	47389.779	1.5	4P (5D)4P	1005.8002	-0.360	99332.102	4.5	5S (3H)2H	109271.710	5.5	4SP(3I)2I
989.4508	-4.600	99824.045	2.5	5S (3F)4F	89727.342	2.5	4P (3F)4G	1006.0425	-1.978	103265.694	0.5	6S (5D)4D	93328.480	1.5	4P (3F)4F
990.1580	-4.223	102394.718	3.5	6S (5D)4D	92300.277	4.5	4SP(5D)6F	1006.1968	-4.634	83459.670	1.5	4D (5D)6F	93395.360	2.5	4P (3F)4F
990.3727	-3.486	86124.301	4.5	4D (5D)4F	96217.420	3.5	4P (3F)4D	1006.4012	-3.292	99824.045	2.5	5S (3F)4F	89890.373	3.5	4P (3F)4G
990.5024	-4.544	102543.648	1.5	6S (5D)6D	92453.460	0.5	4P (3F)4D	1006.5952	-3.622	54902.315	1.5	D6S (3P)2P	63465.109	1.5	4P (3P)2P
990.7902	-2.089	104828.160	2.5	5D (5D)6D	94739.170	1.5	4SP(5P)4P	1006.6901	-4.617	73395.930	2.5	D5S2(7S)4F	84844.073	1.5	4P (3F)4D
990.9491	-4.651	105127.770	2.5	5D (5D)4D	93939.200	1.5	4P (3P)2P	1006.9356	-1.739	98445.400	4.5	5S (3H)4H	108373.800	3.5	260DD
991.0870	-4.280	8308.194	2.5	4D (5D)6F	94763.219	3.5	4SP(5D)6P	1007.0045	-4.159	54904.222	3.5	D6S (3F)2F	64831.943	4.5	4P (3F)2G
991.1361	-4.310	84685.198	3.5	4D (5D)4D	74606.841	2.5	4P (3F)4D	1007.0198	-4.952	104000.810	3.5	5D (5D)6F	94073.240	3.5	4SP(5G)4G
991.9863	-3.067	84685.198	3.5	4D (5D)4D	94763.219	3.5	4SP(5D)6P	1008.8743	-4.218	73395.930	2.5	D5S2(7S)4F	83305.251	3.5	4P (1F)2G
993.2866	-4.699	102394.718	3.5	6S (5D)4D	92329.890	2.5	4SP(5G)4F	1008.9548	-3.152	104120.270	2.5	5D (5D)6P	94211.739	2.5	4SP(5P)4P
993.5482	-1.212	98568.912	3.5	5S (3H)4H	108631.090	3.5	4SP(3G)4G	1009.4551	-2.416	104588.710	1.5	5D (5D)6D	94685.090	2.5	4SP(5D)6P
993.7299	-0.092	98568.912	3.5	5S (3H)4H	108629.250	2.5	4SP(3G)4G	1009.5069	-4.710	102802.312	2.5	6S (5D)4D	92899.200	2.5	4P (3F)4D
993.7641	-4.607	102334.112	2.5	6S (5D)6D	92274.120	2.5	4P (3F)4P	1009.8431	-2.199	84131.563	0.5	4D (5D)6D	94031.378	0.5	4SP(5D)6D
994.1361	-0.047	99093.452	5.5	6S (3H)2H	109149.680	6.5	4SP(3I)2I	1010.2183	-4.500	102543.648	1.5	6S (5D)6D	92647.510	1.5	4P (3F)4D
994.5014	-3.852	84710.685	3.5	4D (5D)6G	94763.219	3.5	4SP(5D)6P	1010.4023	-3.579	84844.834	2.5	4D (5D)6G	94739.170	1.5	4SP(5P)4P
994.5887	-3.164	102334.112	2.5	6S (5D)6D	92282.460	3.5	4SP(5G)4F	1010.5574	-1.240	103950.590	4.5	5D (5D)6F	94057.773	4.5	4SP(5D)6D
994.6821	-4.795	54283.220	3.5	D5S2(7S)4G	44232.512	4.5	4P (5D)4F	1010.6045	-4.513	84870.863	2.5	4D (5D)4D	94763.219	3.5	4SP(5D)6P
995.3201	-4.826	60270.339	3.5	D5S2(7S)4D	70314.604	4.5	4P (3G)2G	1010.7165	-3.406	104630.430	1.5	5D (5D)6P	94739.170	1.5	4SP(5P)4P
995.6125	-1.932	83990.063	1.5	4D (5D)6D	94031.378	0.5	4SP(5D)6P	1011.0446	-4.982	104588.710	1.5	5D (5D)6D	94700.660	2.5	4P (3F)2D
995.6310	-3.307	54273.641	4.5	D5S2(7S)4G	44232.512	4.5	4P (5D)4F	1011.3743	-3.552	84326.912	2.5	4D (5D)6F	94211.739	2.5	4SP(5P)4P
995.8947	-4.316	98445.400	4.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G	1011.9885	-0.905	103936.600	5.5	5D (5D)6F	94057.773	4.5	4SP(5D)6D
996.9321	-1.803	83812.316	2.5	4D (5D)6D	93840.340	1.5	4SP(5D)6D	1012.2017	-3.895	102030.912	3.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
997.1074	-4.871	104174.270	5.5	4D (3H)4I	94148.510	4.5	4SP(5G)4G	1012.2403	-2.773	104757.110	0.5	5D (5D)6D	94880.740	0.5	4SP(5P)4P
997.6024	-4.115	57411.065	2.5	D5S2(7S)4P	47389.779	1.5	4P (5D)4P	1012.4023	-4.697	104064.670	6.5	4D (3H)4I	94189.880	5.5	4SP(5G)4G
997.6976	-1.973	104705.420	3.5	5D (5D)6D	94685.090	2.5	4SP(5D)6P	1013.1764	-3.835	57493.321	1.5	D5S2(7S)4F	47626.076	0.5	4P (5D)4P
997.8117	-4.381	102666.694	0.5	6S (5D)6D	92647.510	1.5	4P (3F)4D	1013.7737	-4.167	99918.569	1.5	5S (3F)4F	109780.000	1.5	280DD
997.8636	-2.468	83812.316	2.5	4D (5D)6D	93850.979	2.5	4SP(5D)6D	1014.0035	-3.715	102030.912	3.5	6S (5D)6D	92171.716	4.5	4P (3F)2G
998.1825	-3.792	84685.198	3.5	4D (5D)4D	94700.660	2.5	4P (3F)2D	1014.5712	-4.552	105711.730	2.5	5D (5D)6S	95858.050	1.5	4SP(5P)4D
998.3928	-1.494	104000.810	3.5	4SP(5D)6P	93987.457	3.5	4SP(5D)6D	1014.6208	-4.462	104092.020	3.5	5S (3F)2F	90638.822	2.5	5P (5D)4D
998.4575	-3.195	54273.641	4.5	D5S2(7S)4G	64286.345	3.5	4P (3F)2F	1014.7133	-4.463	104000.810	3.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G
998.5094	-3.405	102030.912	3.5	6S (5D)6D	92018.729	2.5	4SP(5D)6F	1014.9271	-4.443	84296.830	5.5	4D (5D)6G	94148.510	4.5	4SP(5G)4G
998.6566	-3.985	54275.637	2.5	D5S2(7S)4G	64286.345	3.5	4P (3F)2F	1014.9976	-2.788	104588.710	1.5	5D (5D)6D	93840.340	1.5	4SP(5D)6D
999.2272	-3.756	79439.467	3.5	5S (5D)4D	89444.458	2.5	4SP(5P)6P	1015.8871	-2.170	83990.063	1.5	4D (5D)6D	94739.170	1.5	4SP(5P)4P
999.2503	-3.874	104705.420	3.5	5D (5D)6D	94700.660	2.5	4P (5P)6P	1016.9553	-3.764	84844.834	2.5	4D (5D)6C	94685.090	2.5	4SP(5D)6P
999.2752	-3.874	104705.420	3.5	5D (5D)6D	94700.660	2.5	4P (5P)6P	1016.9553	-4.306	54283.220	3.5	D5S2(7S)4G	44446.878	3.5	4P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1016.7941	-2.999	85048.602	1.5	4D (5D)4D	94880.740	0.5	4SP(5P)4P	1032.7449	-4.629	104380.940	3.5	5D (5D)6F	94700.660	2.5	4P (3F)2D
1017.0362	-4.100	84870.863	2.5	4D (5D)4D	94700.660	2.5	4P (3F)2D	1032.7759	-2.335	79439.467	3.5	5S (5D)4D	89119.457	2.5	5P (5D)6D
1017.3503	-3.454	54273.641	4.5	D5S2(7S)4G	44446.878	3.5	4P (5D)4D	1033.1989	-1.178	77861.625	4.5	5S (5D)6D	87537.652	3.5	4SP(5G)6F
1017.8752	-1.519	78237.685	3.5	5S (5D)6D	88059.380	2.5	4SP(5P)6D	1033.2279	-4.975	83812.316	2.5	4D (5D)6D	93487.650	3.5	4P (3F)4F
1018.6497	-2.759	84870.863	2.5	4D (5D)4D	94685.090	2.5	4SP(5D)6P	1033.2926	-2.156	54273.641	4.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4G
1018.9037	-2.499	54275.637	2.5	D5S2(7S)4G	64087.418	2.5	4P (3F)4G	1033.5850	-2.005	102802.312	2.5	6S (5D)4D	93129.900	3.5	4P (3F)4D
1019.6200	-0.801	98568.912	3.5	5S (3H)4H	108373.800	3.5	260DD	1033.8109	-2.165	98294.401	5.5	5S (3H)4H	107964.700	4.5	210DD
1019.6918	-3.452	54283.220	3.5	D5S2(7S)4G	64087.418	2.5	4P (3F)4G	1033.8121	-3.947	98568.912	3.5	5S (3H)4H	108239.200	3.5	240DD
1019.9121	-4.045	103950.590	4.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G	1034.3167	-3.584	54283.220	3.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4G
1020.0154	-4.593	86416.333	3.5	4D (5D)4F	96217.420	3.5	4SP(5P)4D	1034.5660	-2.732	104426.460	2.5	5D (5D)6F	94763.219	3.5	4SP(5D)6P
1020.0255	-4.341	84938.180	1.5	4D (5D)6G	94739.170	1.5	4SP(5P)4P	1034.8547	-4.708	84336.912	2.5	4D (5D)6P	93987.457	3.5	4SP(5D)6D
1020.3405	-4.737	99688.337	3.5	5S (3F)4F	89890.373	3.5	4P (3F)4G	1035.7646	-4.885	85048.602	1.5	4D (5D)4D	94700.660	2.5	4P (3F)2D
1020.7744	-4.419	98445.400	4.5	5S (3H)4H	108239.200	3.5	240DD	1036.0875	-3.821	99573.225	4.5	5S (3F)4F	89924.175	5.5	5P (5D)6F
1020.7962	-4.486	104873.230	3.5	5D (5D)4D	95079.640	3.5	4P (3F)2F	1036.1497	-1.862	104411.690	4.5	5D (5D)6D	94763.219	3.5	4SP(5D)6P
1020.9604	-3.004	102394.718	3.5	6S (5D)4D	92602.703	3.5	4P (3F)2G	1036.4626	-3.188	99688.337	3.5	5S (3F)4F	90042.779	4.5	4P (3F)4G
1021.0436	-2.341	84266.556	3.5	4D (5D)6P	94057.773	4.5	4SP(5D)6D	1036.5819	-3.663	102543.648	1.5	6S (5D)6D	92899.200	2.5	4P (3F)4D
1021.1789	-2.385	103118.400	1.5	6S (5D)4D	93328.480	1.5	4P (3F)4F	1036.6170	-2.003	54232.195	5.5	D5S2(7S)4G	63876.317	5.5	4P (3F)4G
1021.2675	-3.436	104000.810	3.5	5D (5D)6P	94211.739	2.5	4SP(5P)4P	1037.1960	-4.289	102334.112	2.5	6S (5D)6D	92695.374	2.5	4P (3F)2D
1021.2791	-4.176	104828.160	2.5	5D (5D)6D	95039.200	1.5	4P (3F)2P	1037.4382	-3.426	85048.602	1.5	4D (5D)4D	94685.090	2.5	4SP(5D)6P
1021.3698	-4.063	103936.600	5.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G	1037.5221	-2.650	99093.452	5.5	5S (3H)2H	108729.160	6.5	4SP(3G)4H
1022.6824	-2.329	99093.452	5.5	5S (3H)2H	108888.980	4.5	4SP(3G)4H	1037.5919	-4.143	105630.750	2.5	5D (5D)4G	95995.690	2.5	4SP(5P)4D
1022.9783	-4.018	105630.750	2.5	5D (5D)6G	94148.510	4.5	4SP(5G)4D	1038.5922	-4.855	104705.420	3.5	5D (5D)6D	95079.640	3.5	4P (3F)2F
1023.2568	-4.339	81734.750	3.5	D5S2(7S)2F	71964.710	2.5	4P (3D)4P	1039.1093	-4.832	99688.337	3.5	5S (3F)4F	90067.347	4.5	5P (5D)6F
1023.5496	-3.222	54273.641	4.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1039.4625	-3.377	104380.940	3.5	5D (5D)6F	94763.219	3.5	4SP(5D)6P
1023.7588	-3.771	54275.637	2.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1040.2825	-0.532	77861.625	4.5	5S (5D)6D	87471.765	4.5	4SP(5G)6F
1024.1745	-4.025	83726.364	4.5	4D (5D)6D	93487.650	3.5	4P (3F)4F	1040.3811	-4.932	101698.489	4.5	6S (5D)6D	92089.260	3.5	4SP(5G)4H
1024.2105	-2.319	84296.830	5.5	4D (5D)6G	94057.773	4.5	4SP(5D)6D	1040.6216	-1.901	84294.370	1.5	4D (5D)6P	94031.378	0.5	4SP(5D)6D
1024.6462	-3.480	54283.220	3.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1040.9549	-2.457	102030.912	3.5	6S (5D)6D	92426.980	4.5	4SP(5G)4F
1025.3926	-2.491	104630.430	1.5	5D (5D)6P	94880.740	0.5	4SP(5P)4P	1041.0911	-3.674	54273.641	4.5	D5S2(7S)4G	63876.317	5.5	4P (3F)4G
1025.5228	-3.761	102030.912	3.5	6S (5D)6D	92274.120	2.5	4P (3P)4D	1042.3259	-4.761	83308.194	2.5	4D (5D)6F	92899.200	2.5	4P (3F)4F
1025.7051	-4.563	103936.600	5.5	5D (5D)6F	94189.880	5.5	4SP(5G)4G	1043.2239	-4.870	86416.333	3.5	4D (5D)6D	93395.360	2.5	4P (3F)4F
1026.2684	-2.605	104426.460	2.5	5D (5D)6F	94685.090	2.5	4SP(5D)6P	1043.6254	-4.004	84294.370	1.5	4D (5D)6P	94148.510	4.5	4SP(5G)4F
1027.3189	-3.481	102334.112	2.5	6S (5D)6D	92602.703	3.5	4P (3F)2G	1043.7212	-2.945	82853.658	5.5	4D (5D)6F	92432.136	5.5	4SP(5D)6F
1027.4006	-2.913	102030.912	3.5	6S (5D)6D	92300.277	4.5	4SP(5D)6F	1044.1507	-2.234	99332.102	4.5	5S (3H)2H	108906.640	3.5	4SP(3G)4H
1028.2031	-1.951	103118.400	1.5	6S (5D)4D	93395.360	2.5	4P (3F)4F	1044.2833	-3.327	82853.658	5.5	4D (5D)6F	92426.980	4.5	4SP(5G)4F
1028.4294	-1.708	84266.556	3.5	4D (5D)6P	93987.457	3.5	4SP(5D)6D	1045.0432	-3.254	85172.809	0.5	4D (5D)4D	94739.170	1.5	4SP(5P)4P
1028.7459	-4.920	104757.110	0.5	5D (5D)6D	95039.200	1.5	4P (3F)2P	1045.2550	-1.632	84266.556	3.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D
1028.8851	-3.089	54232.195	5.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4G	1045.5439	-2.146	103751.660	5.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G
1028.9439	-4.807	105711.730	2.5	5D (5D)6S	95995.690	2.5	4SP(5P)4D	1045.5539	-3.425	98568.912	3.5	5S (3H)4H	108130.600	2.5	220DD
1028.9632	-2.177	99093.452	5.5	5S (3H)2H	108809.310	5.5	4SP(3G)4H	1045.8518	-4.479	79885.493	2.5	5S (5D)4D	89444.458	2.5	4SP(5P)6P
1029.0998	-3.867	77230.900	4.5	D5S2(7S)2H	67516.332	5.5	4P (3G)2H	1046.1621	-4.166	105414.180	2.5	5D (3F)4G	95858.050	1.5	4SP(5P)4D
1029.3487	-3.224	102842.119	4.5	5S (3G)4G	93129.900	3.5	4P (3F)4D	1046.2989	-2.621	54870.528	2.5	D6S (3F)2F	64425.408	2.5	4P (3F)2F
1029.7136	-2.491	84131.563	0.5	4D (5D)6D	93840.340	1.5	4SP(5D)6D	1046.8421	-3.940	73637.340	1.5	D5S2(7S)4F	64087.418	2.5	4P (3F)4G
1029.7992	-2.666	104588.710	1.5	5D (5D)6D	94880.740	0.5	4SP(5P)4P	1047.3313	-4.676	84527.778	4.5	4D (5D)6G	94073.240	3.5	4SP(5G)4G
1029.8034	-2.788	85172.809	0.5	4D (5D)4D	94880.740	0.5	4SP(5P)4P	1047.4561	-3.834	101698.489	4.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
1030.5168	-3.103	105763.270	5.5	4D (3F)2H	96062.060	5.5	4SP(3G)2H	1047.5548	-3.836	73492.215	3.5	D5S2(7S)4F	63948.790	4.5	4P (3F)4G
1030.5368	-4.740	102030.912	3.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F	1047.8295	-4.297	100749.810	2.5	5S (3F)2F	91208.887	1.5	5P (5D)4F
1030.7783	-4.031	77230.900	4.5	D5S2(7S)2H	86929.649	3.5	4P (3P)4D	1048.2739	-2.412	99332.102	4.5	5S (3H)2H	108868.980	4.5	4SP(3G)4H
1030.8064	-0.751	99573.225	4.5	5S (3F)4F	109271.710	5.5	4SP(3I)2I	1048.4068	-4.165	103608.909	4.5	5S (3G)2G	94073.240	3.5	4SP(5G)4G
1031.0865	-1.954	104380.940	3.5	5D (5D)6F	94685.090	2.5	4SP(5D)6P	1048.5934	-1.403	78525.407	2.5	5S (5D)6D	88059.380	2.5	4SP(5P)6D
1031.6485	-2.665	85048.602	1.5	4D (5D)4D	94739.170	1.5	4SP(5P)4P	1049.0311	-3.450	84527.778	4.5	4D (5D)6G	94073.240	3.5	4SP(5G)4G
1031.8055	-3.615	79439.467	3.5	5S (5D)4D	89128.561	3.5	4SP(5P)6P	1049.0942	-3.244	54283.220	3.5	D5S2(7S)4G	644573.799	3.5	4P (5D)4F
1031.9976	-2.399	104426.460	2.5	5D (5D)6F	94739.170	1.5	4SP(5P)4P	1049.3858	-4.633	101698.489	4.5	6S (5D)6D	92171.716	4.5	4P (3F)2G
1032.0709	-4.816	102334.112	2.5	6S (5D)6D	92647.510	1.5	4P (3F)4D	1049.4114	-2.286	84685.198	3.5	4D (5D)4D	94211.739	2.5	4SP(5P)4P
1032.3436	-0.755	78525.407	2.5	5S (5D)6D	88209.450	3.5	4SP(5P)6D	1049.7553	-4.981	99824.045	2.5	5S (3F)4F	90300.625	3.5	5P (5D)6F
1032.4706	-4.905	99573.225	4.5	5S (3F)4F	89890.373	3.5	4P (3F)4G	1049.9297	-4.756	54275.637	2.5	D5S2(7S)4G	64425.408	2.5	4P (3F)2F
1032.5803	-3.962	83713.536	3.5	4D (5D)6D	93395.360	2.5	4P (3F)4F	1050.0016	-4.132	54904.222	3.5	D6S (3F)2F	64425.408	2.5	4P (3F)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1050.1499	-2.342	54273.641	4.5	D5S2(7S)4G	44753.799	3.5	4P (5D)4F	1070.2702	-2.872	84870.863	2.5	4D (5D)4D	94211.739	2.5	4SP(3P)4P
1050.2097	-2.726	98445.400	4.5	5S (3H)4H	107964.700	4.5	210DD	1070.2970	-4.305	87985.628	2.5	4D (5D)4P	97326.270	1.5	4SP(3P)2P
1050.4162	-3.464	73393.745	4.5	D5S2(7S)4F	63876.317	5.5	4P (3F)4G	1070.7384	-4.499	105398.852	5.5	4D (3F)4H	96062.060	5.5	4SP(3G)2H
1050.5557	-4.887	83812.316	2.5	4D (5D)6D	93328.480	1.5	4P (3F)4F	1070.8022	-4.660	99824.045	2.5	5S (3F)4F	90487.810	2.5	5P (5D)6F
1050.8579	-1.607	84326.912	2.5	4D (5D)6P	93840.340	1.5	4SP(5D)6D	1070.9730	-1.124	78273.685	3.5	5S (5D)6D	87572.431	2.5	4SP(5G)6F
1051.6925	-4.127	99573.225	4.5	5S (3F)4F	90067.347	4.5	5P (5D)6F	1070.9978	-4.720	58666.258	3.5	D6S (1G)2G	68000.788	4.5	4P (3G)2H
1051.8929	-2.213	84326.912	2.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D	1071.1057	-1.030	78725.790	1.5	5S (5D)6D	88059.380	2.5	4SP(5P)6D
1052.5140	-3.684	54283.220	3.5	D5S2(7S)4G	44784.761	2.5	4P (5D)4D	1071.1258	-2.401	99373.225	4.5	5S (3F)4F	108906.640	3.5	4SP(3G)4H
1052.7602	-4.892	81734.750	3.5	D5S2(7S)2F	72238.513	2.5	4P (3D)4F	1072.4834	-3.812	82978.677	4.5	4D (5D)6F	92300.277	4.5	4SP(5D)6F
1052.8400	-4.789	102394.718	3.5	6S (5D)4D	92899.200	2.5	4P (3F)4D	1072.8911	-4.352	82853.658	5.5	4D (5D)6F	92171.716	4.5	4P (3F)2G
1052.9739	-4.624	105711.730	2.5	5D (5D)6S	96217.420	3.5	4SP(5P)4D	1072.9437	-3.150	83868.912	3.5	5S (3H)4H	107886.600	3.5	200DD
1053.3549	-4.542	54275.637	2.5	D5S2(7S)4G	44784.761	2.5	4P (5D)4D	1072.9957	-4.709	98312.316	2.5	4D (5D)6D	93129.900	3.5	4P (3F)4D
1054.6348	-0.074	77861.625	4.5	5S (5D)6D	87340.983	5.5	4SP(5G)6F	1073.1603	-2.433	104000.810	3.5	5D (5D)6P	94685.090	2.5	4SP(5D)6P
1054.8741	-2.068	99332.102	4.5	5S (3H)2H	108809.310	5.5	4SP(3G)4H	1073.2822	-2.130	102802.312	2.5	6S (5D)4D	93487.650	3.5	4P (3F)4F
1054.8852	-1.680	99093.452	5.5	5S (3H)2H	108570.560	4.5	4SP(3G)4G	1073.4805	-4.867	82853.658	5.5	4D (5D)6F	92166.600	5.5	4SP(5G)4H
1055.2500	-3.428	102802.312	2.5	6S (5D)4D	93328.480	1.5	4P (3F)4F	1073.7743	-4.575	85728.806	1.5	4D (5D)4S	95039.200	1.5	4P (3P)2P
1056.4230	-4.830	84685.198	3.5	4D (5D)4D	94148.510	4.5	4SP(5G)4G	1073.8278	-3.579	105589.420	3.5	4D (3F)4H	96279.490	2.5	4SP(3G)2F
1056.8288	-2.339	84527.778	4.5	4D (5D)6G	93987.450	3.5	4SP(5D)6D	1073.9913	-4.132	73395.930	2.5	D5S2(7S)4F	64087.418	2.5	4P (3F)4G
1057.5241	-3.628	82978.677	4.5	4D (5D)6F	92432.136	5.5	4SP(5D)6F	1074.7653	-4.704	99688.337	3.5	5S (3F)4F	90386.528	4.5	5P (5D)4F
1058.1012	-3.789	50212.826	2.5	D6S (3F)4F	59663.456	1.5	4P (3F)4S	1074.9782	-0.630	78237.685	3.5	5S (3H)2H	87537.652	3.5	4SP(5G)6F
1058.2898	-3.399	82853.658	5.5	4D (5D)6F	92426.980	4.5	4SP(5G)4F	1075.0913	-1.718	99332.102	4.5	5S (3D)2H	108633.090	3.5	4SP(3G)4G
1058.3926	-2.509	79885.493	2.5	5S (5D)4D	89331.195	1.5	5P (5D)6D	1075.4652	-1.732	99573.225	4.5	5S (3F)4F	69426.980	0.5	4SP(5S)4P
1058.4763	-4.884	73393.745	4.5	D5S2(7S)4F	63948.790	4.5	4P (3F)4G	1075.5156	-3.968	105291.010	3.5	4D (3F)4G	108868.980	4.5	4SP(3G)4H
1058.8973	-2.536	98445.400	4.5	5S (3H)4H	107886.600	3.5	200DD	1075.7389	-2.871	80177.975	1.5	5S (5D)4D	89471.365	2.5	4SP(5D)6D
1059.1168	-3.137	78525.407	2.5	5S (5D)6D	87964.650	1.5	4SP(5P)6D	1076.0744	-4.524	83136.487	3.5	4D (5D)6F	92426.980	4.5	4SP(5G)4F
1059.5729	-2.109	104120.270	2.5	5D (5D)6P	94685.090	2.5	4SP(5D)6P	1076.0772	-4.096	99688.337	3.5	5S (3F)4F	90330.979	2.5	4SP(5D)6D
1059.6030	-4.081	102334.112	2.5	6S (5D)6D	92899.200	2.5	4P (3F)4D	1076.4303	-3.129	103118.400	1.5	6S (5D)4D	93870.360	1.5	4SP(5D)6D
1060.3563	-4.176	102030.912	3.5	6S (5D)6D	92602.703	3.5	4P (3F)2G	1076.4517	-4.829	81639.260	2.5	D5S2(7S)2F	72352.024	3.5	4P (3D)4F
1060.6775	-3.489	103265.694	0.5	6S (5D)4D	93840.340	1.5	4SP(5D)6D	1076.6925	-4.194	84863.351	5.5	4D (5D)4G	94148.510	4.5	4SP(5G)4G
1061.3243	-4.675	104120.270	2.5	5D (5D)6P	94700.660	2.5	4P (3F)2D	1076.8347	-1.963	79439.467	3.5	5S (5D)4D	88723.400	4.5	5P (5D)6D
1061.3898	-4.349	103608.909	4.5	5S (3G)2G	94189.880	5.5	4SP(5G)4G	1077.2999	-4.374	80346.016	0.5	5S (5D)4D	86225.940	1.5	4SP(5P)6P
1061.4505	-4.084	105414.180	2.5	4D (3F)4G	95995.690	2.5	4SP(5P)4D	1077.5164	-2.992	103118.400	1.5	6S (5D)4D	93840.340	1.5	4SP(5D)6D
1061.6902	-4.893	83713.536	3.5	4D (5D)6D	93129.900	3.5	4P (3F)4D	1077.6660	-3.200	84710.685	3.5	4D (5D)6G	93987.457	3.5	4SP(5D)6F
1061.7346	-3.560	84424.370	1.5	4D (5D)6P	93840.340	1.5	4SP(5D)6D	1078.1508	-3.869	99573.225	4.5	5S (3F)4F	90330.979	2.5	4SP(5D)6F
1061.9493	-2.406	79439.467	3.5	5S (5D)4D	88853.533	3.5	5P (5D)6D	1078.2777	-3.507	101698.489	4.5	6S (5D)6D	92426.980	4.5	4SP(5G)4F
1062.3450	-2.494	103600.440	6.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G	1078.6959	-3.283	85495.304	2.5	4D (5D)6S	94763.219	3.5	4SP(5D)6P
1062.6423	-4.239	99332.102	4.5	5S (3H)2H	89924.175	5.5	5P (5D)6F	1078.8625	-3.226	80177.975	1.5	5S (5D)4D	89444.458	2.5	4SP(3P)6P
1062.7524	-2.396	102802.312	2.5	6S (5D)4D	93395.360	2.5	4P (3F)4F	1078.8777	-2.998	101698.489	4.5	6S (5D)6D	92432.136	5.5	4SP(5D)6F
1062.7912	-3.290	84424.370	1.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D	1079.0638	-4.455	99332.102	4.5	5S (3H)2H	90067.347	4.5	5P (5D)6F
1062.9394	-4.916	83990.063	1.5	4D (5D)6D	93395.360	2.5	4P (3F)4F	1080.5689	-3.146	77230.900	4.5	D5S2(7S)2H	86482.750	3.5	4P (1F)2F
1063.1385	-4.639	83726.364	4.5	4D (5D)6D	93129.900	3.5	4P (3F)4D	1081.5022	-4.310	85495.304	2.5	4D (5D)6S	94739.170	1.5	4SP(5P)4P
1064.0152	-4.528	98568.912	3.5	5S (3H)4H	95995.690	2.5	4SP(5P)4D	1081.5956	-2.540	79885.493	2.5	5S (3D)4D	89128.561	3.5	4SP(5P)6P
1064.9305	-4.264	99688.337	3.5	5S (3F)4F	107964.700	4.5	210DD	1082.0882	-1.242	78725.790	1.5	5S (5D)6D	87964.650	1.5	4SP(5P)6D
1064.6237	-2.616	99093.452	5.5	5S (3H)2H	108483.870	5.5	4SP(3G)4G	1082.1333	-1.592	99332.102	4.5	5S (5D)6D	89570.560	4.5	4SP(3G)4G
1064.9305	-4.264	99688.337	3.5	5S (3F)4F	108030.625	3.5	5P (5D)6F	1082.2126	-4.933	85462.862	3.5	4D (3H)2H	94700.660	2.5	4P (3F)2D
1064.9818	-4.672	104426.460	2.5	5D (5D)6F	95039.200	1.5	4P (3P)2P	1082.2369	-2.159	104000.810	3.5	5D (5D)6P	94763.219	3.5	4SP(5D)6P
1065.5811	-3.037	54904.222	3.5	D6S (3F)2F	64286.345	3.5	4SP(5P)4F	1082.4133	-1.510	93273.225	4.5	5S (3F)4F	108609.310	5.5	4SP(3G)4H
1065.6811	-3.037	104120.270	2.5	5D (5D)6P	94739.170	1.5	4SP(5P)4P	1082.6207	-3.190	103265.694	0.5	6S (5D)4D	94301.378	0.5	4SP(5D)6D
1066.6504	-3.252	84685.198	3.5	4D (5D)4D	94057.773	4.5	4SP(5D)6D	1082.6484	-0.417	78237.685	3.5	5S (5D)6D	87471.765	4.5	4SP(5G)6F
1067.9095	-3.364	95753.225	4.5	5S (3F)4G	90211.700	5.5	4P (3F)4G	1082.6620	-2.452	79885.493	2.5	5S (5D)4D	89119.457	2.5	5P (5D)6D
1068.3644	-2.486	102842.119	4.5	5S (3G)4G	93484.580	4.5	4P (3F)4F	1082.8383	-4.616	105589.420	3.5	4D (3F)4H	96356.960	3.5	4SP(3G)2F
1068.4201	-2.447	104120.270	2.5	5D (5D)6P	94763.219	3.5	4SP(5P)6F	1082.8383	-4.616	105589.420	3.5	4D (3F)4H	96356.960	3.5	4SP(3G)2F
1068.6493	-3.878	73395.930	2.5	D5S2(7S)4F	64040.886	3.5	4P (3F)4G	1082.9546	-4.112	54275.637	2.5	D5S2(7S)4G	45044.168	1.5	4P (5D)4D
1068.7150	-3.305	102842.119	4.5	5S (3G)4G	93487.650	3.5	4P (3F)4F	1083.1138	-3.565	105288.900	4.5	D5S2(7S)2H	68000.788	4.5	4P (3G)2H
1069.4843	-4.828	105205.790	2.5	4D (5D)6G	95858.050	1.5	4SP(5P)4D	1083.5041	-3.668	105288.900	4.5	D5S2(7S)2H	68000.788	4.5	4P (3G)2H
1069.5589	-4.795	84710.685	3.5	4D (5D)6G	94057.773	4.5	4SP(5D)6D	1083.9117	-4.848	78525.407	2.5	5S (5D)6D	69302.090	1.5	4SP(5S)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1084.1730	-3.963	84266.556	3.5	4D (5D)6F	93487.650	3.5	4P (3F)4F	1100.1692	-3.959	103118.400	1.5	6S (5D)4D	94031.378	0.5	4SP(5D)6D
1084.5013	-1.857	99688.337	3.5	5S (3F)4F	108906.640	3.5	4SP(3G)4H	1100.1859	-4.632	83812.316	2.5	4D (5D)6D	92899.200	2.5	4P (3F)4D
1084.5341	-3.995	84266.556	3.5	4D (5D)6F	93484.580	4.5	4P (3F)4F	1100.5241	-4.625	81734.750	3.5	D5S2(7S)2F	72650.658	4.5	4P (3D)4F
1084.6676	-2.818	54870.528	2.5	D6S (3F)2F	64087.418	2.5	4P (3F)4G	1100.6717	-4.956	81734.750	3.5	D5S2(7S)2F	72651.876	3.5	4P (3D)4F
1084.8703	-4.040	102453.648	1.5	6S (5D)6D	93328.480	1.5	4P (3F)4F	1100.7055	-1.708	99824.045	2.5	5S (3F)4F	10890.840	3.5	4SP(3G)4H
1085.2513	-4.148	73637.340	1.5	D5S2(7S)4F	64425.408	2.5	4P (3F)2F	1101.1305	-4.640	99918.569	1.5	5S (3F)4F	90839.480	0.5	4P (3P)4F
1085.9660	-4.283	73492.215	3.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	1101.4030	-1.232	78525.407	2.5	5S (5D)6D	87602.250	1.5	4SP(5G)6F
1086.1616	-3.628	102334.112	2.5	6S (5D)6D	93129.900	3.5	4P (3F)4D	1101.7979	-3.506	105291.010	3.5	4D (3F)4G	96217.420	3.5	4SP(5P)4D
1086.2644	-2.464	54283.220	3.5	D5S2(7S)4G	45079.879	2.5	4P (5D)4F	1102.2413	-4.455	105065.630	3.5	5D (5D)6G	95995.690	2.5	4SP(5P)4D
1087.0417	-4.273	105414.180	2.5	4D (3F)4G	96217.420	3.5	4SP(5P)4D	1102.4226	-4.814	84326.912	2.5	4D (5D)6F	93395.360	2.5	4P (3F)4F
1087.1602	-3.365	54275.637	2.5	D5S2(7S)4G	45079.879	2.5	4P (5D)4F	1103.8328	-4.467	86710.837	1.5	4D (5D)4F	95767.700	0.5	4SP(5P)4D
1087.3181	-3.130	84863.351	5.5	4D (5D)4G	94057.773	4.5	4SP(5D)6D	1104.1662	-1.248	78843.992	0.5	5S (5D)6D	87898.120	0.5	4SP(5G)6F
1087.8666	-3.496	85495.304	2.5	4D (5D)6S	94685.090	2.5	4SP(5D)6F	1104.4490	-4.042	105291.010	3.5	4D (3F)4G	96239.200	4.5	4SP(3G)2H
1088.0077	-4.949	83459.670	1.5	4D (5D)6F	92647.510	1.5	4P (3F)4D	1104.5877	-4.803	99693.452	5.5	5S (3H)2H	90042.779	4.5	4P (3F)4G
1088.1071	-3.391	84296.830	5.5	4D (5D)6G	93484.580	4.5	4P (3F)4F	1104.7290	-3.136	99688.337	3.5	5S (3H)4F	90638.822	2.5	5P (5D)4D
1088.1526	-2.218	103950.590	4.5	5D (5D)6F	94763.219	3.5	4SP(5D)6F	1105.0332	-4.852	78525.407	2.5	5S (5D)6D	87572.431	2.5	4SP(5G)6F
1088.2324	-3.680	99573.225	4.5	5S (3F)4F	90386.528	4.5	5P (5D)4F	1105.4731	-4.416	99824.045	2.5	5S (3F)4F	90780.621	3.5	5P (5D)4F
1088.3548	-4.639	99824.045	2.5	5S (3F)4F	92899.200	2.5	4P (3F)4D	1105.5726	-3.322	60384.370	0.5	D5S2(7S)4D	69426.980	0.5	4SP(5S)4P
1088.4071	-4.269	99824.045	2.5	5S (3F)4F	90638.822	2.5	5P (5D)4F	1105.6841	-1.615	99332.102	4.5	5S (3H)2H	108373.800	3.5	260DD
1088.6473	-4.064	54904.222	3.5	D6S (3F)2F	64087.418	2.5	4P (3F)4G	1106.6052	-4.908	57578.484	0.5	D5S2(7S)4P	66612.656	1.5	4P (3G)4F
1088.9501	-1.420	99688.337	3.5	5S (3F)4F	108868.980	4.5	4SP(3G)4H	1106.9355	-4.687	99332.102	4.5	5S (3H)2H	90390.000	1.5	5P (5D)6F
1089.5619	-3.752	82978.677	4.5	4D (5D)6F	92154.165	3.5	4SP(5D)6F	1107.0932	-2.451	100749.810	2.5	5S (3H)2H	109780.000	1.5	280DD
1089.5774	-2.998	99573.225	4.5	5S (3F)4F	90397.868	3.5	5P (5D)4D	1107.2412	-4.397	57493.321	1.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F
1089.6135	-2.234	79439.467	3.5	5S (5D)4D	88614.520	4.5	4SP(5P)6D	1107.5943	-4.974	99093.452	5.5	5S (3H)2H	90067.347	4.5	5P (5D)6F
1089.9370	-2.731	88725.790	1.5	5S (5D)6D	87898.120	0.5	4SP(5G)6F	1108.3813	-4.318	99918.569	1.5	5S (3F)4F	90898.873	1.5	4P (3P)4F
1090.3145	-3.768	88157.116	1.5	4D (5D)4F	97326.270	1.5	4SP(3P)2F	1108.6293	-4.641	83136.487	3.5	4D (5D)6F	92154.165	3.5	4SP(5G)6F
1090.5111	-3.748	105524.461	4.5	4D (3F)4H	96356.960	3.5	4SP(3G)2F	1108.6580	-4.805	99918.569	1.5	5S (3F)4F	90901.124	2.5	5P (5D)4P
1090.9527	-3.890	83136.487	3.5	4D (5D)6F	92300.277	4.5	4SP(5D)6F	1109.2976	-0.780	105291.010	3.5	5S (5D)6D	87537.652	3.5	4SP(5G)6F
1091.0305	-3.508	85048.602	1.5	4D (5D)6F	94211.739	2.5	4SP(5P)4F	1109.3869	-4.684	105291.010	3.5	4D (3F)4G	96279.490	2.5	4SP(3G)2H
1091.3162	-4.645	84326.912	2.5	4D (5D)6F	93487.650	3.5	4P (3F)4F	1109.5292	-2.578	85728.806	1.5	4D (5D)4S	94739.170	1.5	4SP(5P)4P
1091.4456	-3.874	105398.852	5.5	4D (3F)4H	96239.200	4.5	4SP(3G)2H	1110.1122	-4.419	102334.112	2.5	6S (5D)6D	93328.480	1.5	4P (3F)4F
1092.2126	-2.629	80177.975	1.5	5S (5D)4D	89331.195	1.5	5P (5D)6D	1110.6134	-4.696	84326.912	2.5	4D (5D)4G	93328.480	1.5	4P (3F)4F
1092.3660	-3.014	85728.806	1.5	4D (5D)4S	94880.740	0.5	4SP(5D)4F	1110.6230	-3.512	105063.550	5.5	4D (3F)4G	96062.060	5.5	4SP(3G)2H
1092.3858	-1.556	99332.102	4.5	5S (3H)2H	108483.870	5.5	4SP(3G)4G	1110.8862	-3.586	102394.718	3.5	6S (5D)4D	93395.360	2.5	4P (3F)4F
1092.8014	-4.931	102543.648	1.5	6S (5D)6D	93395.360	2.5	4P (3F)4F	1111.1354	-4.892	54275.637	2.5	D5S2(7S)4G	63272.976	2.5	4P (3F)4D
1092.9298	-4.470	86710.837	1.5	4D (5D)4F	95858.050	1.5	4SP(5P)4D	1111.1359	-1.479	99573.225	4.5	5S (3F)4F	108570.560	4.5	4SP(3G)4G
1093.1009	-2.334	84685.198	3.5	4D (5D)4D	93830.979	2.5	4SP(5D)6D	1111.3619	-3.084	84844.834	2.5	4D (5D)6G	93840.340	1.5	4SP(5D)6D
1093.4785	-4.523	84844.834	2.5	4D (5D)6G	93987.457	3.5	4SP(5D)6D	1111.5826	-3.634	105211.140	4.5	5D (5D)4G	96217.420	3.5	4SP(5P)4D
1094.1917	-2.847	54904.222	3.5	D6S (3F)2F	64040.886	3.5	4P (3F)4G	1112.0727	-4.812	54283.220	3.5	D5S2(7S)4G	63272.976	2.5	4P (3F)4D
1094.3545	-4.649	78237.685	3.5	5S (5D)6D	69102.380	2.5	4SP(5S)4F	1112.1155	-4.576	104757.110	0.5	5D (5D)6D	95767.700	0.5	4SP(5P)4D
1094.4281	-3.795	105414.180	2.5	4D (3F)4G	96279.490	2.5	4SP(3G)2F	1112.3662	-4.880	81639.260	2.5	D5S2(7S)2F	72651.876	3.5	4P (3D)4D
1094.7409	-4.001	105127.770	2.5	5D (5D)4D	95995.690	2.5	4SP(5P)4D	1112.5196	-3.375	84844.834	2.5	4D (5D)6G	93830.979	2.5	4SP(5D)6D
1094.9628	-4.414	103118.400	1.5	6S (5D)4D	93988.170	2.5	4SP(5G)4G	1112.5441	-3.261	60441.033	1.5	D5S2(7S)4D	69426.980	0.5	4SP(5S)4F
1095.1338	-3.984	84266.556	3.5	4D (5D)6F	93395.360	2.5	4P (3F)4F	1112.5578	-2.579	54275.637	2.5	D5S2(7S)4G	45289.801	1.5	4P (5D)4F
1095.3877	-4.866	102802.312	2.5	6S (5D)4D	111929.000	2.5	290DD	1112.6392	-4.143	80346.016	0.5	5S (5D)4D	89331.195	1.5	5P (5D)6D
1095.5484	-2.876	80346.016	0.5	5S (5D)4D	89471.365	0.5	5P (5D)6D	1112.9368	-3.091	85048.602	1.5	4D (5D)4D	94031.378	0.5	4SP(5D)6D
1096.1119	-1.341	78843.992	0.5	5S (5D)6D	87964.650	1.5	4SP(5P)6D	1113.0531	-4.950	83713.536	3.5	4D (5D)6D	92695.374	0.5	4SP(5D)6D
1096.1427	-3.782	99332.102	4.5	5S (3H)2H	90211.700	5.5	4P (3F)4G	1113.6270	-4.502	108630.429	5.5	5S (11)21	99653.220	4.5	4SP(3G)2G
1096.2709	-2.651	84710.685	3.5	4D (5D)6G	93830.979	2.5	4SP(5D)6D	1114.2917	-3.785	85728.806	1.5	4D (5D)4S	94700.660	2.5	4P (3F)2D
1096.4404	-4.759	57493.321	1.5	D5S2(7S)4F	66612.656	1.5	4P (3G)4F	1114.3564	-2.615	102802.312	2.5	6S (5D)4D	93830.979	2.5	4SP(5D)6D
1096.6005	-4.036	84870.863	2.5	4D (5D)4D	93987.457	3.5	4SP(5D)6D	1114.3990	-4.913	84424.370	1.5	4D (5D)6P	93395.360	2.5	4P (3F)4F
1097.2451	-4.568	57411.065	2.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F	1114.4316	-3.969	73757.280	4.5	D5S2(7S)2G	69606.552	3.5	4P (3G)2F
1097.3241	-4.880	82978.677	4.5	4D (5D)6F	95089.260	3.5	4SP(5G)4H	1114.4571	-4.709	73395.930	2.5	D5S2(7S)4F	64425.408	2.5	4P (3F)2F
1097.4443	-3.875	73395.930	2.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	1114.5083	-3.641	104828.160	2.5	5D (5D)6D	95838.050	1.5	4SP(5P)4D
1097.7076	-4.743	73393.745	4.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	1114.5870	-2.773	84870.863	2.5	4D (5D)4D	93840.340	1.5	4SP(5D)6D
1098.5540	-2.880	102584.963	5.5	5S (3G)4G	93484.580	4.5	4P (3F)4F	1114.7656	-2.843	79885.493	2.5	5S (5D)4D	88853.533	3.5	5P (5D)6F
1099.4220	-3.736	84938.180	1.5	4D (5D)6G	94031.378	0.5	4SP(5D)6D	1114.9921	-4.243	57411.065	2.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4D
1099.4423	-4.017	105155.090	4.5	4D (3F)4G	96062.060	5.5	4SP(3G)								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1115.7514	-4.450	84870.863	2.5	4D (5D)4D	93830.979	2.5	4SP(5D)6D	1133.3467	-4.436	104588.710	1.5	5D (5D)6D	95776.700	0.5	4SP(5P)4D
1115.7818	-3.867	84527.778	4.5	4D (5D)6G	93487.650	3.5	4P (3F)4F	1134.2298	-2.812	102802.312	2.5	6S (5D)4D	93987.457	3.5	4SP(5D)6D
1116.1643	-4.665	84527.778	4.5	4D (5D)6G	93484.580	4.5	4P (3F)4F	1134.2381	-4.966	102802.312	2.5	6S (5D)4D	93988.170	2.5	4SP(5G)4G
1116.2288	-2.825	85728.806	1.5	4D (5D)4S	94685.090	2.5	4SP(5D)6P	1134.6858	-4.291	103118.400	1.5	6S (5D)4D	111929.000	2.5	290DD
1116.2698	-2.282	99824.045	2.5	5S (3F)4F	108780.000	1.5	270DD	1135.1438	-0.799	99824.045	2.5	5S (3F)4F	108631.090	3.5	4SP(3C)4G
1116.3466	-4.103	86124.301	4.5	4D (5D)4F	95079.640	3.5	4P (3F)2F	1135.3810	-1.259	99824.045	2.5	5S (3F)4F	108629.120	2.5	4SP(3G)4G
1117.5652	-3.994	99332.102	4.5	5S (3H)2H	90386.528	4.5	5P (5D)4F	1135.6310	-4.793	73637.340	1.5	D5S2(7S)4F	64834.073	1.5	4P (3P)2P
1117.9178	-1.131	99688.337	3.5	5S (3F)4F	108631.090	3.5	4SP(3G)4F	1135.9736	-3.527	84695.198	3.5	4D (5D)4D	93487.800	3.5	4P (3F)4F
1118.0767	-4.184	80177.975	1.5	5S (5D)4D	89119.457	2.5	5P (5D)6D	1135.9784	-2.498	99573.225	4.5	5S (3F)4F	108373.650	3.5	260DD
1118.1478	-2.503	99688.337	3.5	5S (3F)4F	108629.250	2.5	4SP(3G)4G	1136.1324	-2.931	84685.198	3.5	4D (5D)4D	93484.580	4.5	4P (3F)4F
1118.4181	-3.382	102334.112	2.5	6S (5D)6D	93935.360	2.5	4P (3F)4F	1136.2941	-4.321	105155.090	4.5	4D (3F)4G	96356.960	3.5	4SP(3C)2F
1118.5335	-4.783	105155.090	4.5	4D (3F)4G	96217.420	3.5	4SP(5P)4D	1137.0082	-3.302	99573.225	4.5	5S (3F)4F	90780.621	3.5	5P (5D)4F
1118.5861	-2.598	103983.510	3.5	5S (3G)2G	95046.100	2.5	4P (3F)2F	1137.0956	-1.597	78843.992	0.5	5S (5D)6D	87635.920	0.5	4SP(3P)6D
1118.9837	-3.429	99332.102	4.5	5S (3H)2H	90397.868	3.5	5P (5D)4D	1137.1202	-3.841	85048.602	1.5	4D (5D)4D	93840.340	1.5	4SP(5P)6D
1119.0068	-4.969	105291.010	3.5	4D (3F)4G	96356.960	3.5	4SP(3G)2F	1137.7058	-3.170	99688.337	3.5	5S (3F)4F	90901.124	2.5	5P (5D)4F
1120.4024	-3.649	99824.045	2.5	5S (3F)4F	90901.124	2.5	5P (5D)4F	1139.0341	-4.876	84710.685	3.5	4D (5D)6G	93487.650	3.5	4P (3F)4F
1121.0559	-4.216	60384.370	0.5	D5S2(7S)4D	108483.870	1.5	4SP(5S)4P	1139.1868	-3.214	99824.045	2.5	5S (3F)4F	91048.256	1.5	5P (5D)4D
1121.9460	-1.038	99573.225	4.5	5S (3F)4F	108483.870	1.5	4SP(3G)4G	1139.6295	-4.984	104630.430	1.5	5D (5D)6P	95858.050	1.5	4SP(5P)4D
1122.0098	-1.886	102394.718	3.5	6S (5D)4D	93484.580	4.5	4P (3F)4F	1139.8335	-4.619	105127.770	2.5	5D (5D)4D	96356.960	3.5	4SP(3G)2F
1122.0108	-1.482	78725.790	1.5	5S (5D)6D	87635.920	0.5	4SP(5P)6D	1139.9410	-3.479	79439.467	3.5	5S (5D)4D	88209.450	3.5	4SP(5P)6D
1122.3149	-3.427	99688.337	3.5	5S (3F)4F	90780.621	3.5	5P (5D)4F	1140.0845	-4.287	102842.119	4.5	5S (3G)4G	94073.240	3.5	4SP(5G)4G
1122.3928	-2.147	99332.102	4.5	5S (3H)2H	108239.200	3.5	240DD	1141.4670	-1.704	78843.992	0.5	5S (5D)6D	87602.250	1.5	4SP(5G)6F
1122.3966	-2.610	102394.718	3.5	6S (5D)4D	93487.650	3.5	4P (3F)4F	1141.7330	-4.022	83558.540	0.5	4D (5D)6F	92314.758	0.5	5P (5D)4D
1122.4479	-3.751	103118.400	1.5	6S (5D)4D	94211.739	2.5	4SP(5P)4P	1142.0878	-3.772	99824.045	2.5	5S (3F)4F	91070.547	2.5	5P (5D)4F
1122.7997	-3.931	103983.510	3.5	5S (3G)2G	95079.640	3.5	4P (3F)2F	1142.6910	-4.557	85462.862	3.5	4D (5D)4G	94211.739	2.5	4SP(5P)4D
1123.0154	-3.785	84938.180	1.5	4D (5D)6G	93840.340	1.5	4SP(5D)6D	1145.0753	-4.311	104588.710	1.5	5D (5D)6D	95858.050	1.5	4SP(5P)4D
1123.4066	-4.265	104757.110	0.5	5D (5D)6D	95858.050	1.5	4SP(5P)4D	1145.2836	-3.341	102802.312	2.5	6S (5D)4D	94073.240	3.5	4SP(5G)4G
1123.4462	-4.965	54063.459	0.5	D6S (3P)2P	62962.205	1.5	4P (3P)4D	1146.4488	-3.441	98445.400	4.5	5S (3H)4H	107165.600	3.5	170DD
1124.7405	-4.078	85184.734	4.5	4D (5D)4G	94073.240	3.5	4SP(5G)4G	1146.6588	-4.810	81734.750	3.5	D5S2(7S)2F	73016.147	3.5	4P (1G)2F
1125.2095	-4.736	58631.531	4.5	D6S (1G)2G	67516.332	5.5	4P (3G)2H	1146.9440	-4.128	84895.304	2.5	4D (5D)6S	94211.739	2.5	4SP(5P)4F
1125.5337	-4.418	83136.487	3.5	4D (5D)6F	92018.729	2.5	4SP(5D)6F	1147.3377	-3.990	83713.536	3.5	4D (5D)6S	92426.980	4.5	4SP(5G)4F
1125.5361	-0.824	99688.337	3.5	5S (3F)4F	108570.560	4.5	4SP(3G)4G	1147.4398	-1.576	102543.648	1.5	6S (5D)6D	93830.979	2.5	4SP(5D)6D
1126.1298	-4.282	104873.230	3.5	5D (5D)4D	95995.690	2.5	4SP(5P)4D	1147.5346	-3.351	98294.401	5.5	5S (3H)4H	107006.350	4.5	4SP(3I)2H
1126.2668	-1.152	78725.790	1.5	5S (5D)6D	87602.250	1.5	4SP(5G)6F	1147.7017	-0.814	99918.569	1.5	5S (3F)4F	108629.250	2.5	4SP(3C)4G
1126.9285	-3.231	83726.364	4.5	4D (5D)6D	92018.729	2.5	4P (3F)2G	1147.7700	-4.482	84685.198	3.5	4D (5D)4D	93395.360	2.5	4P (3F)4F
1126.7011	-4.194	85184.734	4.5	4D (5D)4G	94057.773	4.5	4SP(5D)6D	1147.8270	-3.721	104705.420	3.5	5D (5D)6D	95995.690	2.5	4SP(5P)4D
1127.0473	-3.579	99918.569	1.5	5S (3F)4F	91048.256	1.5	5P (5D)4D	1148.1969	-4.397	99093.452	5.5	5S (3H)2H	90386.528	4.5	4SP(5S)6P
1127.9335	-4.341	84266.556	3.5	4D (5D)6P	93129.900	3.5	4P (3F)4D	1148.3488	-4.293	83726.364	4.5	4D (5D)6D	92432.136	5.5	4SP(5D)6F
1128.0116	-4.243	104630.430	1.5	5D (5D)6P	95767.700	0.5	4SP(5P)4D	1148.6739	-2.596	102543.648	1.5	6S (5D)6D	93840.340	1.5	4SP(5D)6D
1128.1770	-3.151	99918.569	1.5	5S (3F)4F	108780.000	1.5	270DD	1149.0293	-3.881	83726.364	4.5	4D (5D)6D	92426.980	4.5	4SP(5G)4F
1128.2822	-3.326	60441.033	1.5	D5S2(7S)4D	69302.090	1.5	4SP(5S)4P	1149.0423	-4.936	87985.628	2.5	4D (5D)4D	79285.110	2.5	4SP(5S)6P
1128.5415	-3.314	85172.809	0.5	4D (5D)4D	94031.378	0.5	4SP(5D)6D	1149.9555	-3.733	102842.119	4.5	5S (3G)4G	94148.510	4.5	4SP(5G)4G
1128.7650	-2.896	60445.275	2.5	D5S2(7S)4D	69302.090	1.5	4SP(5S)4P	1151.0340	-4.652	99688.337	3.5	5S (3F)4F	108373.650	3.5	260DD
1128.9851	-3.720	83459.670	1.5	4D (5D)6F	92314.758	0.5	5P (5D)4F	1151.1384	-4.022	84710.685	3.5	4D (5D)6G	93395.360	2.5	4P (3F)4F
1129.1009	-4.392	105211.140	4.5	5D (5D)4G	96356.960	3.5	4SP(3G)2F	1151.9523	-4.951	98568.912	3.5	5S (3H)4H	98990.373	3.5	4P (3F)4G
1129.8867	-4.753	99918.569	1.5	5S (3F)4F	91070.547	2.5	5P (5D)4F	1152.9011	-4.305	54273.641	4.5	D5S2(7S)4G	62945.038	3.5	4P (3F)4D
1130.0631	-1.184	78725.790	1.5	5S (5D)6D	87572.431	2.5	4SP(5G)6F	1153.4453	-4.967	85172.809	0.5	4D (5D)4D	93840.340	1.5	4SP(5D)6D
1130.0860	-3.896	102334.112	2.5	6S (5D)6D	93487.650	3.5	4P (3F)4F	1153.6224	-1.700	99573.225	4.5	5S (3F)4F	108239.200	3.5	240DD
1130.1487	-4.233	83308.194	2.5	4D (5D)6F	92154.165	3.5	4SP(5D)6F	1154.1761	-4.227	54283.220	3.5	D5S2(7S)4G	62945.038	3.5	4P (3F)4D
1130.7113	-3.549	98568.912	3.5	5S (3H)4H	99277.342	2.5	4P (3F)4G	1154.3451	-3.998	60441.033	1.5	D5S2(7S)4D	69102.380	2.5	4SP(5S)4P
1131.8762	-4.935	104828.160	2.5	5D (5D)6D	95995.690	2.5	4SP(5P)4D	1154.3821	-4.001	73492.215	3.5	D5S2(7S)4F	64831.943	4.5	4P (3F)2G
1131.9312	-2.672	60270.339	3.5	D5S2(7S)4D	69102.380	2.5	4SP(5S)4P	1154.3451	-3.998	100749.810	2.5	5S (3F)2F	92089.260	3.5	4SP(5G)4F
1132.0835	-4.049	73637.340	1.5	D5S2(7S)4F	64806.487	0.5	4P (3F)2P	1154.8044	-3.589	60445.275	2.5	D5S2(7S)4D	69102.380	2.5	4SP(5S)4P
1132.6605	-1.695	102666.694	0.5	6S (5D)6D	93840.340	1.5	4SP(5D)6D	1154.9772	-3.542	104873.230	3.5	5D (5D)4D	96217.420	3.5	4SP(5P)4D
1132.9177	-2.590	105063.550	4.5	4D (3F)4G	96239.200	4.5	4SP(3G)2H	1156.6676	-3.818	81734.750	3.5	D5S2(7S)2F	73091.590	4.5	4P (1G)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1157.2356	-3.821	86124.301	4.5	4D (5D)4F	94763.219	3.5	4SP(5D)6P	1182.0426	-4.711	84870.863	2.5	4D (5D)4D	93328.480	1.5	4P (3F)4F
1157.6866	-4.096	102030.912	3.5	6S (5D)6D	93395.360	2.5	4P (3F)4F	1182.2295	-4.001	83459.670	1.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F
1157.7183	-2.314	102666.694	0.5	6S (5D)6D	94031.378	0.5	4SP(5D)6D	1182.6699	-2.564	99918.569	1.5	5S (3F)4F	108371.700	1.5	2500D
1158.0768	-3.566	84266.556	3.5	4D (5D)6P	92899.200	2.5	4P (3F)4D	1183.7593	-4.753	83726.364	4.5	4D (5D)6D	92171.716	4.5	4P (3F)2G
1158.0828	-2.393	99332.102	4.5	5S (3H)2H	107964.700	4.5	210DD	1183.8504	-2.964	84685.198	3.5	4D (5D)4D	93129.900	3.5	4P (3F)4D
1158.7956	-4.228	98568.912	3.5	5S (3H)4H	107196.200	2.5	180DD	1184.1924	-2.107	99688.337	3.5	5S (3F)4F	108130.600	2.5	220DD
1159.6100	-1.576	84863.351	5.5	4D (5D)4G	93484.580	4.5	4P (3F)4F	1184.5854	-4.564	86599.738	2.5	4D (5D)4F	95039.200	1.5	4P (3F)2P
1159.7870	-4.036	79439.467	3.5	5S (5D)4F	88059.380	2.5	4SP(5F)6D	1184.6991	-1.787	83136.487	3.5	4D (5D)6F	91575.139	2.5	5P (5D)6P
1160.0727	-3.868	99688.337	3.5	5S (3F)4F	91070.547	2.5	5P (5D)4F	1185.0079	-4.691	102584.963	4.5	5S (3G)4G	94148.510	4.5	4SP(5G)4G
1160.2078	-2.910	84870.863	2.5	4D (5D)4D	93487.650	3.5	4P (3F)4F	1185.4496	-3.948	103118.400	1.5	6S (5D)4D	94685.090	2.5	4SP(5D)6P
1160.2671	-4.580	83713.536	3.5	4D (5D)6D	92329.890	2.5	4SP(5G)4F	1185.8067	-4.256	104426.460	2.5	5D (5D)6F	95995.690	2.5	4SP(5F)4D
1164.8364	-3.516	78185.030	3.5	5S (3F)4F	91208.887	1.5	5P (5D)4F	1185.9081	-4.224	104232.195	5.5	D5S2(7S)4G	62662.244	5.5	4P (3H)2I
1164.8364	-3.516	78185.030	3.5	5S (3F)4F	91208.887	1.5	5P (5D)4F	1185.9081	-4.224	104232.195	5.5	D5S2(7S)4G	62662.244	5.5	4P (3H)2I
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6P	92695.374	2.5	4P (3F)2D
1166.2662	-3.617	99824.045	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1204.0666	-1.788	80346.016	0.5	5S (5D)4D	72043.026	1.5	4P (3D)4P	1231.8776	-2.089	83459.670	1.5	4D (5D)6F	91575.139	2.5	5P (5D)6P
1204.1165	-3.621	85184.734	4.5	4D (5D)4G	93487.650	3.5	4P (3F)4F	1232.4752	-3.344	85728.806	1.5	4D (5D)4S	93840.340	1.5	4SP(5D)6D
1204.5120	-2.491	85184.734	4.5	4D (5D)4G	94031.378	0.5	4SP(5D)6D	1233.6767	-4.087	83812.316	2.5	4D (5D)6D	91915.950	1.5	4SP(5D)6F
1204.8206	-4.220	78185.030	3.5	D5S2(7S)2G	93484.580	4.5	4P (3F)4F	1233.8992	-3.272	85728.806	1.5	4D (5D)4S	93830.979	2.5	4SP(5D)6D
1205.3191	-3.912	98568.912	3.5	5S (3H)4H	86482.750	3.5	4P (1F)2F	1233.9785	-4.536	102802.312	2.5	6S (5D)4D	94700.660	2.5	4P (3F)2D
1205.6253	-4.543	83558.540	0.5	4D (5D)6F	106863.200	3.5	160DD	1234.5068	-3.191	79439.467	3.5	5S (5D)4D	87537.652	3.5	4SP(5G)6F
1206.4882	-4.772	73395.930	2.5	D5S2(7S)4F	91850.722	0.5	4SP(5D)6F	1235.1489	-4.264	84131.563	0.5	4D (5D)6D	92225.538	1.5	5P (5D)4P
1206.6806	-2.678	83558.540	0.5	4D (5D)6F	91843.470	1.5	5P (5D)6P	1235.4997	-4.452	54870.528	2.5	D6S (3F)2F	62962.205	1.5	4P (3P)4D
1207.4168	-4.322	85048.602	1.5	4D (5D)4D	93328.480	1.5	4P (3F)4F	1237.4077	-4.450	103118.400	1.5	6S (5D)4D	95039.200	1.5	4P (3P)2P
1207.9296	-4.054	99688.337	3.5	5S (3F)4F	107964.700	4.5	210DD	1237.5088	-3.525	100492.020	3.5	5S (3F)2F	108570.560	4.5	4SP(3G)4G
1209.0408	-4.097	86416.333	3.5	4D (5D)4F	94685.090	2.5	4SP(5D)6P	1238.1265	-4.552	54870.528	2.5	D6S (3F)2F	62945.708	3.5	4P (3F)4D
1209.3058	-1.618	83308.194	2.5	4D (5D)6F	91575.139	2.5	5P (5D)6P	1238.7510	-8.832	30388.542	4.5	D6S (3G)2G	38458.981	4.5	4P (5D)6D
1209.9306	-2.591	78577.280	4.5	D5S2(7S)2G	70314.604	4.5	4P (3G)2G	1239.3992	-3.758	86124.301	4.5	4D (5D)6F	94189.880	5.5	4SP(5G)4G
1209.9973	-4.540	104120.270	2.5	5D (5D)6P	95858.050	1.5	4SP(5F)4D	1239.8426	-3.623	84266.556	3.5	4D (5D)6P	92329.890	2.5	4SP(5G)4F
1210.3637	-3.942	84870.863	2.5	4D (5D)4D	93129.900	3.5	4P (3F)4D	1239.8721	-2.525	102802.312	2.5	6S (5D)4D	94739.170	1.5	4SP(5P)4P
1211.3036	-2.758	104315.370	6.5	4D (3H)2K	96062.060	5.5	4SP(3G)2H	1239.9624	-2.689	99824.045	2.5	5S (3F)4F	107886.600	3.5	200DD
1211.5514	-3.513	98294.401	5.5	5S (3H)4H	90042.779	3.5	4P (3F)4G	1240.0260	-4.309	54063.459	0.5	D6S (3P)2P	62125.600	1.5	4P (3P)2D
1211.6261	-4.746	81639.260	2.5	D5S2(7S)2F	89890.373	3.5	4P (3F)4G	1240.3724	-4.595	54902.315	1.5	D6S (3P)2P	62962.205	1.5	4P (3P)4D
1212.3468	-4.542	102394.718	3.5	6S (5D)4D	94148.510	4.5	4SP(5G)4G	1241.2123	-4.413	100749.810	2.5	5S (3F)2F	92695.374	2.5	4P (3P)2D
1212.5583	-3.744	98445.400	4.5	5S (3H)4H	106690.170	5.5	4SP(3I)2H	1241.3451	-3.714	78577.280	4.5	D5S2(7S)2G	70523.431	3.5	4P (3H)2G
1213.6049	-2.624	103118.400	1.5	6S (5D)4D	94880.740	0.5	4SP(5F)4P	1242.0829	-3.597	54273.641	4.5	D5S2(7S)4G	62322.431	3.5	4P (3H)2G
1213.9269	-4.114	83990.063	1.5	4D (5D)6D	92225.538	1.5	5P (5D)4P	1242.3910	-3.309	54273.637	2.5	D5S2(7S)4G	62322.431	3.5	4P (3H)2G
1215.2521	-4.797	103265.694	0.5	6S (5D)4D	95039.200	1.5	4P (3P)2P	1242.9068	-1.574	102030.912	3.5	6S (5D)6D	93987.457	3.5	4SP(5D)6D
1217.1003	-3.297	84685.198	3.5	4D (5D)4D	92899.200	2.5	4P (3F)4D	1243.3147	-3.626	54904.222	3.5	D6S (3F)2F	62945.708	3.5	4P (3F)4D
1217.1141	-4.845	101698.489	4.5	6S (5D)6D	93484.580	4.5	4P (3F)4F	1243.5629	-3.575	54283.220	3.5	D5S2(7S)2G	62322.431	3.5	4P (3H)2G
1217.2095	-4.078	80177.975	1.5	5S (5D)4D	71964.710	2.5	4P (3D)4P	1243.5812	-3.365	102802.312	2.5	6S (5D)4D	94763.219	3.5	4SP(5D)6P
1217.3924	-2.886	99918.569	1.5	5S (3F)4F	108130.600	2.5	220DD	1244.4127	-4.331	84266.556	3.5	4D (5D)6P	92300.277	4.5	4SP(5D)6F
1217.7589	-4.120	100492.020	3.5	5S (3F)2F	92282.460	3.5	4SP(5G)4F	1244.6332	-3.977	94339.467	3.5	5S (5D)6D	84771.765	4.5	4SP(5G)6F
1217.8360	-4.869	104426.460	2.5	5D (5D)6F	96217.420	3.5	4SP(5P)4D	1244.7262	-4.567	84326.912	2.5	4D (5D)6F	92358.610	1.5	4SP(5G)4F
1218.2258	-3.503	83812.316	2.5	4D (5D)6D	92018.729	2.5	4SP(5D)6F	1244.7646	-1.426	83136.487	3.5	4D (5D)6F	91167.937	3.5	5P (5D)6P
1218.2937	-3.862	98130.131	6.5	5S (3H)4H	89924.175	5.5	5P (5D)6F	1244.8105	-4.996	83812.316	2.5	4D (5D)6F	10843.470	1.5	5P (5D)6P
1218.1895	-2.084	102030.912	3.5	6S (5D)6D	93830.979	2.5	4SP(5D)6D	1244.9599	-2.754	100749.810	2.5	5S (3F)2F	108780.000	1.5	270DD
1219.4369	-1.868	99688.337	3.5	5S (3F)4F	107886.600	3.5	200DD	1244.9661	-4.077	73393.745	4.5	D5S2(7S)4F	65363.595	5.5	4P (3H)2H
1220.0311	-3.454	104411.690	4.5	5D (5D)6D	96217.420	3.5	4SP(5P)4D	1245.1963	-3.665	83990.063	1.5	4D (5D)6D	92018.729	2.5	4SP(5D)6F
1220.7775	-1.386	82978.677	4.5	4D (5D)6F	91167.937	3.5	5P (5D)6P	1245.2473	-3.199	84870.863	2.5	4D (5D)6D	92899.200	2.5	4P (3F)4D
1220.8886	-4.371	84710.685	3.5	4D (5D)6G	92899.200	2.5	4P (3F)4D	1245.7980	-2.525	85462.862	3.5	4D (5D)4G	93487.650	3.5	4P (3F)4F
1221.7145	-2.436	102394.718	3.5	6S (5D)4D	94211.739	2.5	4SP(5F)4P	1246.2748	-4.101	85462.862	3.5	4D (5D)4G	93484.580	4.5	4P (3F)4F
1223.0735	-3.672	79885.493	2.5	5S (5D)4D	88059.380	2.5	4SP(5P)6D	1248.0883	-4.748	87985.628	2.5	4D (5D)4F	93995.690	2.5	4SP(5P)4D
1223.6699	-4.873	86710.837	1.5	4D (5D)4F	94880.740	0.5	4SP(5F)4P	1248.2574	-4.075	80177.975	1.5	5S (5D)4D	72168.998	1.5	4P (3D)4F
1224.6267	-4.723	104380.940	3.5	5D (5D)6F	96217.420	3.5	4SP(5P)4D	1248.4777	-3.173	84266.556	3.5	4D (5D)6P	92274.120	2.5	4P (3P)4P
1225.0586	-4.837	85679.698	2.5	4D (5D)4G	92329.890	2.5	4SP(5G)4F	1248.8588	-4.214	104000.810	3.5	5D (5D)6P	93995.690	2.5	4SP(5P)4D
1225.0913	-3.685	84266.556	3.5	4D (5D)6P	92426.980	4.5	4SP(5G)4F	1249.1199	-2.566	84296.830	5.5	4D (5D)6G	92300.277	4.5	4SP(5D)6F
1225.6311	-2.780	100749.810	2.5	5S (3F)2F	108906.640	3.5	4SP(3G)4H	1249.2505	-4.886	104064.670	6.5	4D (3H)4I	96062.060	5.5	4SP(3G)2H
1225.8053	-3.127	85172.809	0.5	4D (5D)4D	93328.480	1.5	4P (3F)4F	1253.8681	-1.736	102030.912	3.5	6S (5D)6D	94057.773	4.5	4SP(5D)6D
1227.0938	-4.665	100749.810	2.5	5S (3F)2F	92602.703	3.5	4P (3F)2G	1254.5378	-3.033	54275.637	2.5	D5S2(7S)4G	62244.520	1.5	4P (3F)4F
1227.4451	-4.868	98445.400	4.5	5S (3H)4H	90300.625	3.5	5P (5D)6F	1255.1499	-3.335	80177.975	1.5	5S (5D)4D	72212.978	0.5	4P (3D)4F
1228.2509	-4.239	86599.738	2.5	4D (5D)4F	94739.170	1.5	4SP(5P)4D	1256.3052	-4.773	102030.912	3.5	6S (5D)6D	94073.240	3.5	4SP(5G)4G
1228.3055	-4.043	100492.020	3.5	5S (3F)2F	108631.090	3.5	4SP(3G)4G	1257.6855	-4.773	86124.301	4.5	4D (5D)4F	94073.240	3.5	4SP(5G)4G
1228.5833	-3.279	100492.020	3.5	5S (3F)2F	108631.090	3.5	4SP(3G)4G	1258.2827	-2.012	85184.734	4.5	4D (5D)4F	93129.900	3.5	4P (3F)4D
1228.8738	-3.708	84296.830	5.5	4D (5D)6G	108629.250	2.5	4SP(3G)4G	1259.1867	-4.997	80177.975	1.5	5S (5D)4D	72238.513	2.5	4P (3D)4F
1228.9277	-3.267	80177.975	1.5	5S (5D)4D	72043.026	1.5	4P (3D)4P	1259.8837	-4.696	104174.270	5.5	4D (3H)4I	96239.200	4.5	4SP(3G)2H
1229.2165	-3.465	80346.016	0.5	5S (5D)4D	72212.978	0.5	4P (3D)4P	1260.0440	-2.297	83136.487	3.5	4D (5D)6F	91070.547	2.5	5P (5D)4F
1229.2277	-3.357	79439.467	3.5	5S (5D)4D	87572.431	2.5	4SP(5G)6F	1260.1374	-4.906	86124.301	4.5	4D (5D)4F	94057.773	4.5	4SP(5D)6D
1229.6531	-3.224	84296.830	5.5	4D (5D)6G	92426.980	4.5	4SP(5G)4F	1261.0829	-1.662	102662.862	3.5	4D (5D)4D	93395.360	2.5	4P (3F)4P
1230.4962	-3.922	104120.270	2.5	5D (5D)6P	95959.690	2.5	4SP(5P)4D	1261.0829	-2.488	102662.862	3.5	4D (5D)4D	93395.360	2.5	4P (3F)4P
1230.8305	-4.632	102334.112	2.5	6S (5D)6D	94211.739	2.5	4SP(5P)4P	1261.3389	-2.795	54232.195	5.5	D5S2(7S)4G	62158.110	4.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1261.3434	-2.733	83990.063	1.5	4D (5D)6D	91915.950	1.5	4SP(5D)6F	1282.4560	-4.212	86416.333	3.5	4D (5D)4F	94211.739	2.5	4SP(5P)4P
1261.8428	-4.592	58666.258	3.5	D6S (1G)2G	66589.008	4.5	4P (3G)4H	1283.0364	-3.167	54273.641	4.5	D5S2(7S)4G	62065.521	3.5	4P (3F)4F
1262.1562	-3.190	79885.493	2.5	5S (5D)4D	71964.710	2.5	4P (3D)4P	1283.3651	-3.744	54275.637	2.5	D5S2(7S)4G	62065.521	3.5	4P (3F)4F
1262.5311	-3.711	98130.131	6.5	5S (3H)4H	90211.700	5.5	4P (3F)4G	1283.7473	-4.763	54902.315	1.5	D6S (3P)2P	62689.880	2.5	4P (3P)4P
1262.6787	-4.782	84685.198	3.5	4D (5D)4D	92602.703	3.5	4P (3F)2G	1283.8940	-3.930	80177.975	1.5	5S (5D)4D	87964.650	1.5	4SP(5P)6D
1262.8701	-3.595	80346.016	0.5	5S (5D)4D	72429.711	0.5	4P (3D)4D	1284.0129	-3.168	102666.694	0.5	6S (5D)6D	94880.740	0.5	4SP(5P)4P
1264.2167	-4.475	98294.401	5.5	5S (3H)4H	90386.528	4.5	5P (5D)4F	1284.0617	-4.446	54904.222	3.5	D6S (3F)2F	62689.880	2.5	4P (3P)4P
1264.5930	-4.429	84424.370	1.5	4D (5D)6P	92329.890	2.5	4SP(5G)4F	1284.2714	-2.443	84131.563	0.5	4D (5D)6D	91915.950	1.5	4SP(5D)6F
1264.6010	-2.707	78577.280	4.5	D5S2(7S)2G	86482.750	3.5	4P (1F)2F	1284.4359	-4.078	104000.820	3.5	5D (5D)6P	96217.420	3.5	4SP(5P)4D
1264.6506	-4.969	84266.556	3.5	4D (5D)6P	92171.716	4.5	4P (3F)2G	1284.6156	-3.176	54283.220	3.5	D5S2(7S)4G	62065.521	3.5	4P (3F)4F
1264.8330	-4.084	105230.290	0.5	5D (5D)4D	97326.270	1.5	4SP(3P)2P	1285.5496	-3.062	84870.863	2.5	4D (5D)4D	92647.510	1.5	4P (3F)4D
1265.0202	-4.335	104120.270	2.5	5D (5D)6P	96217.420	3.5	4SP(5P)4D	1286.2357	-3.493	84527.778	4.5	4D (5D)6G	92300.277	4.5	4SP(5D)6F
1265.3656	-2.694	83308.194	2.5	4D (5D)6F	91208.887	1.5	5P (5D)4F	1287.5380	-2.292	83136.487	2.5	4D (5D)6F	90901.124	2.5	5P (5D)4P
1265.4676	-4.715	85495.304	2.5	4D (5D)6F	93395.360	2.5	4P (3F)4F	1287.7910	-4.508	102802.312	2.5	6S (5D)4D	95039.220	1.5	4P (3P)2P
1265.6044	-4.445	84527.778	4.5	4D (5D)6G	92426.980	4.5	4SP(5G)4F	1287.8389	-0.848	83812.316	2.5	4D (5D)6D	91575.139	2.5	5P (5D)6P
1265.6967	-2.863	84326.912	2.5	4D (5D)6P	92225.538	1.5	5P (5D)4F	1287.8960	-3.750	102842.119	4.5	5S (3G)4G	95079.640	3.5	4P (3F)2F
1267.1902	-4.786	100492.020	3.5	5S (3F)2F	92602.703	3.5	4P (3F)2G	1287.9169	-1.795	83308.194	2.5	4D (5D)6F	91070.547	2.5	5P (5D)4F
1267.2895	-3.308	98294.401	5.5	5S (3H)4H	106183.100	6.5	4SP(3I)2K	1289.1909	-3.657	84527.778	4.5	4D (5D)6G	92282.460	3.5	4SP(5G)4F
1267.4646	-3.268	84266.556	3.5	4D (5D)6P	92154.165	3.5	4SP(5D)6F	1289.6081	-2.663	84266.556	3.5	4D (5D)6P	92018.729	2.5	4SP(5D)6F
1267.9694	-2.935	54273.641	4.5	D5S2(7S)4G	62158.110	4.5	4P (3F)4F	1290.1001	-2.784	83459.670	1.5	4D (5D)6F	91208.887	1.5	5P (5D)4F
1268.4020	-3.407	100492.020	3.5	5S (3F)2F	108373.800	3.5	260DD	1290.2588	-3.855	80177.975	1.5	5S (5D)4D	92429.711	0.5	4P (3D)4D
1268.4824	-3.434	100749.810	2.5	5S (3F)2F	108631.090	3.5	4SP(3G)4G	1290.4393	-4.674	100492.020	3.5	5S (3F)2F	108239.200	3.5	240DD
1268.7786	-3.236	100749.810	2.5	5S (3F)2F	108629.250	2.5	4SP(3G)4G	1290.9175	-2.076	103983.510	3.5	5S (3G)2G	96239.980	4.5	4SP(5C)4F
1269.3451	-3.186	54275.637	2.5	D5S2(7S)4G	62151.561	2.5	4P (3F)4F	1291.3391	-2.871	84685.198	3.5	4D (5D)4D	92426.980	4.5	4SP(5C)4F
1269.5117	-4.004	54283.220	3.5	D5S2(7S)4G	62158.110	4.5	4P (3F)4F	1291.6237	-3.124	83459.670	1.5	4D (5D)6F	91199.746	0.5	5P (5D)4D
1269.5124	-4.348	84296.830	5.5	4D (5D)6G	92171.716	4.5	4P (3F)2G	1291.6260	-2.702	83308.194	2.5	4D (5D)6F	91048.256	1.5	5P (5D)4D
1269.9097	-4.468	87989.628	2.5	4D (5D)4D	95858.050	1.5	4SP(5P)4D	1292.5072	-4.497	99824.050	2.5	5S (3F)4F	92089.260	3.5	4SP(5G)4H
1270.2318	-4.169	78185.030	3.5	D5S2(7S)2G	70314.604	4.5	4P (3G)2D	1292.5772	-4.087	103950.540	4.5	5D (5D)6F	96217.420	3.5	4SP(5P)4D
1270.5684	-3.027	54283.220	3.5	D5S2(7S)4G	62151.561	2.5	4P (3F)4F	1292.9432	-3.853	86416.333	3.5	4D (5D)4F	94148.510	4.5	4SP(5G)4G
1271.4062	-3.599	86124.301	4.5	4D (5D)4F	93987.457	3.5	4SP(5D)6D	1292.9595	-3.398	84870.863	2.5	4D (5D)4D	92602.703	3.5	4P (3F)2F
1271.6573	-1.671	83713.536	3.5	4D (5D)6P	91575.139	2.5	5P (5D)6P	1294.5345	-4.882	102802.312	2.5	6S (5D)4D	95079.640	3.5	4P (3F)2F
1271.9583	-1.955	83308.194	2.5	4D (5D)6F	91167.937	3.5	5P (5D)6P	1294.9583	-4.603	80177.975	1.5	5S (5D)4D	87898.120	0.5	4SP(5G)6F
1272.1501	-2.120	102543.648	1.5	6S (5D)6D	94685.090	2.5	4SP(5D)6P	1295.1237	-4.961	84131.563	0.5	4D (5D)6D	87602.250	1.5	4SP(5D)6F
1272.9845	-1.414	83990.063	1.5	4D (5D)6D	91843.470	1.5	5P (5D)6P	1295.5268	-3.572	79885.493	2.5	5S (5D)4D	87602.250	1.5	4SP(5G)6F
1273.3889	-4.097	54232.195	5.5	D5S2(7S)4G	62083.108	4.5	4P (3H)2D	1295.5708	-4.165	79885.493	2.5	5S (5D)4D	72168.998	1.5	4P (3D)4F
1273.4380	-4.954	100749.810	2.5	5S (3F)2F	92899.200	2.5	4P (3F)4D	1295.6044	-4.938	84710.685	3.5	4D (5D)6G	92426.980	4.5	4SP(5C)4F
1273.5430	-4.270	54275.637	2.5	D5S2(7S)4G	62274.120	2.5	4P (3P)2D	1295.7107	-2.407	85679.698	2.5	4D (5D)6D	93395.360	2.5	4P (3F)4F
1273.5775	-4.200	84424.370	1.5	4D (5D)6P	92274.120	2.5	4P (3P)4D	1296.3416	-1.013	84131.563	0.5	4D (5D)6D	91843.470	1.5	5P (5D)6P
1274.6756	-4.678	102543.648	1.5	6S (5D)6D	94700.660	2.5	4P (3F)2D	1296.4887	-2.158	101698.489	4.5	6S (5D)6D	93987.457	3.5	4SP(5D)6P
1274.7603	-3.029	79885.493	2.5	5S (5D)4D	72043.026	1.5	4P (3D)4P	1296.7248	-2.458	102394.718	3.5	5S (3G)2G	94685.090	2.5	4SP(5D)6P
1276.2198	-2.772	99332.102	4.5	5S (3H)2H	107165.600	3.5	170DD	1297.6687	-2.458	103983.510	3.5	5S (3G)2G	96279.490	2.5	4SP(3G)2F
1276.4644	-4.086	58631.531	4.5	D6S (1G)2G	66463.528	5.5	4P (3G)4H	1297.9671	-4.529	99918.569	1.5	5S (3F)4F	92216.320	1.5	4P (3P)2D
1277.2380	-4.190	84326.912	2.5	4D (5D)6P	92154.165	3.5	4SP(5D)6F	1298.1887	-4.430	88157.116	1.5	4D (5D)4P	95858.050	1.5	4SP(5P)4D
1277.6856	-4.095	84870.863	2.5	4D (5D)4D	92695.374	2.5	4P (3P)2D	1298.7329	-9.918	73393.745	4.5	D5S2(7S)4F	65696.038	4.5	4P (3G)4D
1277.9808	-4.370	84266.556	3.5	4D (5D)6P	92089.260	3.5	4SP(5G)4H	1299.2749	-9.832	30764.485	3.5	D6S (3G)2G	38458.981	4.5	4P (3G)6D
1278.4308	-4.855	84296.830	5.5	4D (5D)6G	92116.780	4.5	4SP(5G)4H	1299.3489	-3.809	102394.718	3.5	6S (5D)4D	94700.660	2.5	4P (3F)2D
1278.5579	-2.722	102030.912	3.5	6S (5D)6D	94211.739	2.5	4SP(5P)4P	1300.1022	-3.503	103751.660	5.5	4D (3H)4H	96062.060	5.5	4SP(3G)2H
1278.7196	-4.953	78723.790	1.5	5S (5D)6D	86543.974	1.5	4P (3P)4D	1300.5524	-3.551	79885.493	2.5	5S (5D)4D	87572.431	2.5	4SP(5C)6F
1279.4528	-3.905	73393.745	4.5	D5S2(7S)4F	65580.041	5.5	4P (3G)4D	1302.7030	-1.853	99332.102	4.5	5S (3H)2H	107006.350	4.5	4SP(3I)2H
1280.1469	-3.928	54273.641	4.5	D5S2(7S)4G	62083.108	4.5	4P (3H)2G	1303.4911	-4.945	99688.337	3.5	5S (3F)4F	92018.729	2.5	4SP(5D)6F
1280.3953	-4.061	85679.698	2.5	4D (5D)4G	93487.650	3.5	4P (3F)4P	1303.9280	-2.654	88462.862	3.5	4D (3D)4H	93129.900	3.5	4P (5D)4F
1280.9653	-4.007	102543.648	1.5	6S (5D)6D	94739.170	1.5	4SP(5P)4P	1304.3123	-4.692	98445.400	4.5	5S (3H)4H	90780.621	3.5	5P (5D)4D
1281.3813	-1.740	82978.677	4.5	4D (5D)6F	90780.621	3.5	5P (5D)4F	1304.6308	-2.711	102543.648	1.5	6S (5D)6D	94880.740	0.5	4SP(3P)4P
1281.4543	-3.902	105127.770	2.5	5D (5D)4D	97326.270	1.5	4SP(3P)2P	1304.9005	-2.608	78185.030	3.5	D5S2(7S)2G	70523.706	3.5	4P (3G)2G
1281.5088	-3.285	84424.370	1.5	4D (5D)6P	92225.538	1.5	5P (5D)4F	1306.2500	-3.888	80177.975	1.5	5S (5D)4D	72524.866	1.5	4P (3D)4D
1281.7191	-3.359	54283.220	3.5	D5S2(7S)4G	62083.108	4.5	4P (3H)2G	1306.7728	-2.593	83558.540	0.5	4D (5D)6F	91208.887	1.5	5P (5D)4F
1282.2521	-3.501	100492.020	3.5	5S (3F)2F	92695.374	2.5	4P (3P)2D	1306.9992	-2.594	102334.112	2.5	6S (5D)6D	94685.090	2.5	4SP(5D)6P
1282.3292	-3.501	73492.215	3.5	D5S2(7S)4F	65696.038	4.5	4P (3G)4G								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1307.3838	-4.470	85048.602	1.5	4D (5D)4D	92695.374	2.5	4P (3P)2D	1331.5728	-2.495	99688.337	3.5	5S (3F)4F	107196.200	2.5	180DD
1307.7395	-3.680	84685.198	3.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F	1332.5539	-2.088	83136.487	3.5	4D (5D)6F	90638.822	2.5	5P (5D)4D
1307.7811	-4.398	99918.569	1.5	5S (3F)4F	92274.120	2.5	4P (3P)4F	1333.3254	-4.463	103265.694	0.5	6S (5D)6F	95767.700	0.5	4SP(5P)4D
1307.8350	-1.406	83136.487	3.5	4D (5D)6F	90780.621	3.5	5P (5D)4F	1334.0084	-3.072	99824.045	2.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F
1308.3361	-3.022	83558.540	0.5	4D (5D)6F	91199.746	0.5	5P (5D)4D	1334.4670	-2.056	84424.370	1.5	4D (5D)6P	91915.950	1.5	4SP(5D)6F
1308.4200	-1.174	101698.489	4.5	6S (5D)6F	94057.773	4.5	4SP(5D)6D	1334.7160	-4.767	79439.467	3.5	5S (5D)4D	86929.649	3.5	4P (3P)4F
1308.7859	-2.858	100492.020	3.5	5S (3F)2F	108130.600	2.5	220DD	1334.7991	-2.493	83558.540	0.5	4D (5D)6F	91048.256	1.5	5P (5D)4D
1309.6651	-4.891	102334.112	2.5	6S (5D)6D	94700.660	2.5	4P (3F)2D	1335.1501	-4.166	84870.863	2.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F
1310.0003	-2.961	102394.718	3.5	6S (5D)4D	94763.219	3.5	4SP(5D)6P	1335.3693	-4.348	84685.198	3.5	4D (5D)4D	92171.716	4.5	4P (3F)2G
1310.6881	-4.675	102666.694	0.5	6S (5D)6D	95039.200	1.5	4P (3P)2P	1335.7293	-4.771	105763.270	5.5	4D (3F)2H	98278.770	5.5	4P (1G)2H
1310.8504	-3.319	103983.510	3.5	5S (3G)2G	96356.960	3.5	4SP(3G)2F	1337.0221	-3.018	99688.337	3.5	5S (3F)4F	107166.400	3.5	170DD
1310.8784	-2.829	84527.778	4.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F	1337.4704	-2.610	79439.467	3.5	5S (5D)4D	71964.710	2.5	4P (3D)4P
1311.2289	-4.533	77230.900	4.5	D582(7S)2H	69606.552	3.5	4P (3F)4F	1337.4804	-4.090	85172.809	0.5	4D (5D)4D	92647.510	1.5	4P (3F)4D
1311.2905	-4.254	100749.810	2.5	5S (3F)2F	108373.800	3.5	260DD	1337.6950	-3.946	86599.738	2.5	4D (5D)4F	94073.240	3.5	4SP(5G)4G
1311.6518	-2.659	100749.810	2.5	5S (3F)2F	108371.700	1.5	250DD	1337.8821	-3.614	80302.020	3.5	5S (3F)2F	107964.700	4.5	210DD
1312.1140	-4.348	84710.685	3.5	4D (5D)6G	92329.890	2.5	4SP(5G)4F	1337.8874	-1.400	83308.194	2.5	4D (5D)6F	90780.621	3.5	5P (5D)4F
1312.2124	-4.870	80346.016	0.5	5S (5D)4D	87964.650	1.5	4SP(5P)6D	1339.1405	-3.449	99824.045	2.5	5S (3F)4F	92358.610	1.5	4SP(5G)4F
1313.3558	-4.449	86599.738	2.5	4D (5D)4F	94211.739	2.5	4SP(5P)4F	1339.1990	-4.730	99918.569	1.5	5S (3F)4F	92453.460	0.5	4P (3F)4G
1313.5498	-1.713	83459.670	1.5	4D (5D)6F	91070.547	2.5	5P (5D)4F	1339.2910	-3.596	73395.930	2.5	D582(7S)4F	65931.334	3.5	4P (3G)4G
1313.6004	-4.291	88157.116	1.5	4D (5D)4F	95767.700	0.5	4SP(5P)4D	1340.2909	-3.519	84870.863	2.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F
1314.0940	-4.977	99824.045	2.5	5S (3F)4F	92216.320	1.5	4P (3P)2D	1340.4854	-4.013	80177.975	1.5	5S (5D)4D	87635.920	0.5	4SP(5P)6D
1315.6188	-3.225	85048.602	1.5	4D (5D)4D	92647.510	1.5	4P (3F)4F	1340.7550	-4.381	99573.225	4.5	5S (3F)4F	92116.780	4.5	4SP(5G)4H
1315.9038	-4.694	84685.198	3.5	4D (5D)4D	92282.460	3.5	4SP(5G)4F	1341.1227	-0.431	83713.536	3.5	4D (5D)6D	91167.937	3.5	5P (5D)6P
1315.9980	-1.539	99093.452	5.5	5S (3H)2H	106690.170	5.5	4SP(3I)2H	1341.4763	-3.779	54273.641	4.5	D582(7S)4G	61726.077	3.5	4P (3F)4D
1316.3058	-2.557	102334.112	2.5	6S (5D)6D	94739.170	1.5	4SP(5P)4F	1341.5722	-3.151	54270.528	2.5	D6S (3F)2F	62322.431	3.5	4P (3H)2G
1316.4068	-3.386	84424.370	1.5	4D (5D)6F	92018.729	2.5	4SP(5D)6F	1341.8357	-4.479	54875.637	2.5	D582(7S)4F	61726.077	3.5	4P (3F)4D
1316.6546	-3.787	83308.194	2.5	4D (5D)6F	90901.124	2.5	5P (5D)4P	1341.8785	-4.150	85679.698	2.5	4D (5D)4G	93129.900	3.5	4P (3F)4D
1316.7508	-2.430	99573.225	4.5	5S (3F)4F	107165.600	3.5	170DD	1342.6560	-4.969	102334.112	2.5	6S (5D)6D	109780.000	1.5	280DD
1317.0450	-2.647	83308.194	2.5	4D (5D)6F	90898.877	1.5	4P (3P)4P	1343.0904	-3.588	84710.685	3.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F
1317.2336	-4.698	84710.685	3.5	4D (5D)6G	92330.273	4.5	4SP(5D)6F	1343.2028	-3.714	54283.220	3.5	D582(7S)4G	61726.077	3.5	4P (3F)4D
1317.3298	-1.867	84326.912	2.5	4D (5D)6P	91915.950	1.5	4SP(5D)6F	1343.3954	-4.482	100749.810	2.5	5S (3F)2F	108191.600	1.5	230DD
1317.3499	-3.129	84685.198	3.5	4D (5D)4D	92274.120	2.5	4P (3P)4F	1343.4345	-0.360	83726.364	4.5	4D (5D)6F	91167.937	3.5	5P (5D)6P
1317.3921	-3.613	99918.569	1.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F	1343.4560	-3.050	83459.670	1.5	4D (5D)6F	90901.124	2.5	5P (5D)4P
1317.4083	-2.497	83459.670	1.5	4D (5D)6F	91048.256	1.5	5P (5D)4D	1343.8625	-3.376	83459.670	1.5	4D (5D)6F	90898.873	1.5	4P (3P)4P
1318.0179	-0.783	83990.063	1.5	4D (5D)6D	91575.139	2.5	5P (5D)6P	1344.2740	-3.519	84863.351	5.5	4D (5D)4G	92300.277	4.5	4SP(5D)6F
1320.3224	-4.928	86416.333	3.5	4D (5D)4F	93988.170	2.5	4SP(5G)4G	1344.3803	-2.538	85462.862	3.5	4D (5D)4G	92899.200	2.5	4P (3F)4D
1320.3332	-4.798	84710.685	3.5	4D (5D)6G	92282.460	3.5	4SP(5G)4F	1344.6674	-2.768	105630.750	2.5	5D (5D)4G	98196.000	1.5	4SP(5D)4F
1320.3712	-3.932	99688.337	3.5	5S (3F)4F	92116.780	4.5	4SP(5G)4H	1344.9614	-2.074	99573.225	4.5	5S (3F)4F	107006.350	4.5	4SP(3I)2H
1320.4870	-2.294	102334.112	2.5	6S (5D)6D	94763.219	3.5	4SP(5D)6P	1345.6564	-4.987	84844.834	2.5	4D (5D)6F	92274.120	2.5	4P (3P)4F
1321.7552	-1.554	84863.351	5.5	4D (5D)4G	92426.980	4.5	4SP(5G)4F	1346.5646	-4.049	80177.975	1.5	5S (5D)4D	87602.250	1.5	4SP(5G)6F
1321.7891	-3.924	84710.685	3.5	4D (5D)6G	92274.120	2.5	4P (3P)4P	1347.4874	-1.733	82978.677	4.5	4D (5D)6F	90397.868	3.5	5P (5D)6P
1322.1305	-4.020	84527.778	4.5	4D (5D)6G	92089.260	3.5	4SP(5G)4H	1347.5039	-0.663	84424.370	1.5	4D (5D)6P	91843.470	1.5	5P (5D)6P
1322.3968	-3.137	99918.569	1.5	5S (3F)4F	92358.610	1.5	4SP(5G)4F	1347.6658	-3.877	54904.222	3.5	D6S (3F)2F	62322.431	3.5	4P (3H)2G
1322.5522	-3.728	73637.340	1.5	D582(7S)4F	66078.269	2.5	4P (3G)4G	1347.7094	-2.229	85184.734	4.5	4D (5D)4G	92602.703	3.5	4P (3F)2G
1323.7723	-4.198	80346.016	0.5	5S (5D)4D	87898.120	0.5	4SP(5G)6F	1348.3134	-3.688	86416.333	3.5	4D (5D)4F	93830.979	2.5	4SP(5D)6D
1324.1449	-4.070	101698.489	4.5	6S (5D)6D	94148.510	4.5	4SP(5G)4G	1348.3914	-3.940	99688.337	3.5	5S (3F)4F	92274.120	2.5	4P (3F)4D
1324.1543	-3.912	99824.045	2.5	5S (3F)4F	92274.120	2.5	4P (3P)4P	1348.7927	-4.783	58666.258	3.5	D6S (1G)2G	66078.269	2.5	4P (3G)4G
1324.6941	-1.983	103608.909	4.5	5S (3G)2G	96062.060	5.5	4SP(3G)2H	1348.8680	-3.051	84870.863	2.5	4D (5D)4D	92282.460	3.5	4SP(5D)4F
1325.6187	-3.440	99824.045	2.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F	1349.5501	-1.127	82978.677	4.5	4D (5D)6F	90386.528	4.5	5P (5D)4F
1326.1823	-4.106	103600.440	6.5	4D (3H)4H	96062.060	5.5	4SP(3G)2H	1349.5878	-4.596	103265.694	0.5	6S (5D)6F	95858.050	1.5	4SP(5P)4D
1327.1523	-1.403	82853.658	5.5	4D (5D)6F	90386.528	4.5	5P (5D)4F	1349.7735	-4.382	99573.225	4.5	5S (3F)4F	92166.600	5.5	4SP(5G)4H
1327.4646	-4.797	99332.102	4.5	5S (3H)2H	106863.200	3.5	160DD	1349.9098	-2.856	99688.337	3.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F
1330.0324	-0.578	84326.912	2.5	4D (5D)6P	91843.470	1.5	5P (5D)6P	1350.0956	-3.077	85048.602	1.5	4D (5D)4D	92453.460	0.5	4P (3F)4D
1330.1790	-4.260	105711.730	2.5	5D (5D)6S	98196.000	1.5	4SP(5D)4F	1350.2710	-4.682	85495.304	2.5	4D (5D)6S	92899.200	2.5	4P (3F)4D
1330.2586	-4.973	84938.180	1.5	4D (5D)6G	92453.460	0.5	4P (3F)4D	1350.3876	-2.847	84870.863	2.5	4D (5D)4D	92274.120	2.5	4P (3F)4D
1330.5249	-4.428	84844.834	2.5	4D (5D)6G	92358.610	1.5	4SP(5G)4F	1350.7065	-4.270	99573.225	4.5	5S (3F)4F	92171.716	4.5	4P (3F)2G
1331.4405	-4.358	101698.489	4.5	6S (5D)6D	94189.880	5.5	4SP(5G)4G	1351.6082	-3.148	83812.316	2.5	4D (5D)6D	91208.887	1.5	5P (5D)4F

WL(NM)	LOGG	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGG	EVEN E	J	LABEL	ODD E	J	LABEL
1351.9722	-3.699	100492.020	3.5	5S (3F)2F	107886.600	3.5	200DD	1376.7766	-3.313	99688.337	3.5	5S (3F)4F	92426.980	4.5	4SP(5G)4F
1353.0517	-4.879	73637.340	1.5	D5S2(7S)4F	66248.660	0.5	4P (3P)2S	1376.9676	-4.287	103118.400	1.5	6S (5D)4D	95858.050	1.5	4SP(5F)4F
1354.4605	-3.216	73393.745	4.5	D5S2(7S)4F	66012.750	4.5	4P (3C)4F	1377.3696	-2.075	83812.316	2.5	4D (5D)6D	91070.547	2.5	5P (5D)4F
1354.4981	-3.953	100749.810	2.5	5S (3F)2F	108130.600	2.5	220DD	1377.7487	-3.674	80346.016	0.5	5S (5D)4D	87602.250	1.5	4SP(5G)6F
1354.5139	-4.714	84844.834	2.5	4D (5D)6F	92225.538	1.5	5P (5D)4P	1377.9693	-4.745	54870.528	2.5	D6S (3F)2F	62125.600	1.5	4P (3P)2D
1354.6780	-3.212	83459.670	1.5	4D (5D)6F	90839.480	0.5	4P (3P)4F	1378.1942	-4.032	54904.222	3.5	D6S (3F)2F	62158.110	4.5	4P (3F)4F
1354.9048	-4.779	84710.685	3.5	4D (5D)6G	92089.260	3.5	4SP(5G)4H	1378.2815	-4.076	84863.351	5.5	4D (5D)4G	92116.780	4.5	4SP(5G)4H
1355.2716	-4.702	84938.180	1.5	4D (5D)6F	92314.758	0.5	5P (5D)4P	1378.5627	-2.322	103608.909	4.5	5S (3C)2G	96356.960	4.5	4SP(3G)2F
1355.0847	-4.829	99824.045	2.5	5S (3F)4F	107196.200	2.5	180DD	1378.9287	-1.330	83136.587	3.5	4D (5D)6F	90336.587	4.5	5P (5D)4F
1356.5348	-4.370	103608.909	4.5	5S (3C)2G	96239.200	4.5	4SP(3G)2H	1379.2706	-1.598	84326.912	2.5	4D (5D)6P	91575.139	2.5	5P (5D)6P
1357.7064	-3.305	86124.301	4.5	4D (5D)4F	93487.950	3.5	4P (3F)4F	1380.4097	-2.446	85184.734	4.5	4D (5D)4G	92426.980	4.5	4SP(5G)4F
1357.9331	-4.155	100492.020	3.5	5S (3F)2F	93129.900	3.5	4P (3F)4D	1380.7231	-4.174	86599.738	2.5	4D (5D)4G	93840.340	1.5	4SP(5G)6D
1358.1532	-3.339	79885.493	2.5	5S (3D)4D	72524.566	1.5	4P (3D)4D	1381.6127	-2.860	83812.316	2.5	4D (5D)6D	91048.256	1.5	5P (5D)4D
1358.2728	-2.416	86124.301	4.5	4D (5D)4F	93484.580	4.5	4P (3F)4F	1381.8364	-4.517	105589.420	3.5	4D (3F)4H	98354.660	2.5	4SP(5D)4F
1358.6109	-3.397	99688.337	3.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F	1382.0564	-4.675	79885.493	2.5	5S (5D)4D	72651.876	3.5	4P (3D)4D
1358.6809	-1.669	99332.102	4.5	5S (3H)2H	106690.170	5.5	4SP(3I)2H	1382.1699	-1.375	82978.677	4.5	4D (5D)6F	90211.700	5.5	4P (3F)4G
1358.8761	-2.487	83713.536	3.5	4D (5D)6D	91070.547	2.5	5P (5D)4F	1382.2676	-2.686	85462.862	3.5	4D (5D)4G	92695.374	2.5	4P (3P)2D
1359.1329	-0.783	83812.316	2.5	4D (5D)6D	90211.700	5.5	4P (3F)4G	1382.5105	-4.043	86599.738	2.5	4D (5D)4G	93830.979	2.5	4SP(5D)6D
1359.3077	-2.304	84870.863	2.5	4D (5D)4D	92225.538	1.5	5P (5D)4P	1383.6055	-3.018	85048.602	1.5	4D (5D)4D	92274.120	2.5	4P (3P)4P
1359.3493	-4.116	100749.810	2.5	5S (3F)2F	93395.360	2.5	4P (3F)4F	1384.0333	-4.840	54902.315	1.5	D6S (3F)2P	62125.600	1.5	4P (3P)2D
1359.9275	-1.232	83136.487	3.5	4D (5D)6F	90487.810	2.5	5P (5D)6F	1384.0505	-4.299	99918.569	1.5	5S (3F)4F	92695.374	2.5	4P (3P)2D
1360.9459	-2.423	102030.912	3.5	6S (5D)6D	94685.090	2.5	4SP(5D)6F	1384.4057	-3.778	99824.045	2.5	5S (3F)4F	92602.703	3.5	4P (3F)2G
1361.0135	-4.660	84870.863	2.5	4D (5D)4D	92216.320	1.5	4P (3P)2D	1384.7585	-3.187	85679.698	2.5	4D (5D)4G	92899.280	2.5	4P (3F)4D
1361.7369	-3.719	99824.045	2.5	5S (3F)4F	107165.600	3.5	170DD	1384.8886	-2.614	83990.063	1.5	4D (5D)6D	91208.887	1.5	5P (5D)4F
1361.9636	-4.332	83558.540	0.5	4D (5D)6F	90898.873	1.5	4P (3P)4P	1385.0121	-4.636	105063.550	5.5	4D (3F)4G	90067.347	4.5	5P (5D)6F
1363.2269	-3.937	84685.198	3.5	4D (5D)4D	92018.729	2.5	4SP(5D)6F	1385.8744	-1.449	82853.658	5.5	4D (5D)6F	90648.217	0.5	5P (5D)6F
1364.2353	-4.963	79439.467	3.5	5S (5D)6F	90638.822	2.5	5P (5D)4D	1386.1605	-4.077	105063.550	5.5	4D (3F)4G	91199.746	0.5	4P (1G)2H
1364.7667	-2.127	83308.194	2.5	4D (5D)6D	86767.577	2.5	4P (3P)4D	1386.6444	-3.750	83990.063	1.5	4D (5D)6D	91199.746	0.5	5P (5D)4D
1365.3834	-1.326	82978.677	4.5	4D (5D)6F	90300.625	3.5	5P (5D)6F	1387.2319	-4.852	105711.730	2.5	5D (5D)6S	98505.100	2.5	4SP(5D)4D
1365.4282	-3.457	83308.194	2.5	4D (5D)6F	90629.902	1.5	4P (3P)4S	1388.3253	-4.900	79439.467	3.5	5S (5D)4D	72238.513	2.5	4P (3D)4F
1365.6459	-4.698	86710.837	1.5	4D (5D)4F	94031.378	0.5	4SP(5D)6D	1389.4755	-3.814	54870.528	2.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F
1366.6657	-4.466	102394.718	3.5	6S (5D)4D	95079.640	3.5	4P (3F)2F	1390.6104	-4.088	82853.658	5.5	4D (5D)6F	90042.779	4.5	4P (3F)4G
1366.9470	-2.594	54273.641	4.5	D5S2(7S)4G	61587.214	5.5	4P (3H)4I	1390.7215	-1.331	83459.670	1.5	4D (5D)6F	90648.217	0.5	5P (5D)6F
1367.1176	-2.402	99688.337	3.5	5S (3F)4F	107006.350	4.5	4SP(3I)2H	1390.9070	-2.451	85172.809	0.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F
1367.1636	-4.957	85048.602	1.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F	1391.2529	-3.329	83713.536	3.5	4D (5D)6D	90407.810	2.5	5P (5D)6F
1367.7403	-4.785	84844.834	2.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F	1392.4515	-1.294	83308.194	2.5	4D (5D)6F	90487.810	2.5	5P (5D)6F
1367.8803	-0.330	84266.556	3.5	4D (5D)6F	91575.139	2.5	5P (5D)6P	1392.5415	-1.851	83459.670	1.5	4D (5D)6F	90638.822	2.5	5P (5D)4D
1367.9211	-3.064	84863.351	5.5	4D (5D)4G	92171.716	4.5	4P (3F)2G	1392.5931	-3.025	54904.222	3.5	D6S (3F)2F	62083.108	4.5	4P (3H)2G
1367.9812	-3.248	84710.685	3.5	4D (5D)6G	92018.729	2.5	4SP(5D)6F	1392.9714	-2.409	85048.602	1.5	4D (5D)4D	92225.538	1.5	5P (5D)4P
1370.3481	-2.528	54232.195	5.5	D5S2(7S)4G	61527.616	6.5	4P (3H)4I	1393.0493	-4.917	99824.045	2.5	5S (3F)4F	92647.510	1.5	4P (3F)4D
1370.4437	-4.810	102334.112	2.5	6S (5D)6D	95039.200	1.5	4P (3P)2P	1393.3739	-3.568	99688.337	3.5	5S (3F)4F	106863.200	3.5	160DD
1371.2233	-3.554	99573.225	4.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F	1393.5619	-3.894	84844.834	2.5	4D (5D)6G	92018.729	2.5	4SP(5D)6F
1371.3852	-4.529	80346.016	0.5	5S (5D)4D	87635.920	0.5	4SP(5P)6D	1394.2423	-3.818	85728.806	1.5	4D (5D)4S	92899.200	2.5	4P (3F)4D
1372.2513	-1.220	83308.194	2.5	4D (5D)6F	90593.497	1.5	5P (5D)6F	1394.2738	-4.266	83459.670	1.5	4D (5D)6F	90629.902	1.5	4SP(5G)4F
1373.0080	-3.577	85048.602	1.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F	1394.9765	-3.703	105763.270	5.5	4D (3F)2H	98596.650	4.5	4SP(5D)4H
1373.0561	-4.488	54870.528	2.5	D6S (3F)2F	62151.561	2.5	4P (3F)4F	1395.1942	-4.388	99332.102	4.5	5S (3H)2H	92166.600	5.5	4SP(5G)4H
1373.0736	-3.456	83558.540	0.5	4D (5D)6F	90839.480	0.5	4P (3P)4P	1395.4598	-1.327	83136.487	3.5	4D (5D)6F	90300.625	3.5	5P (5D)6F
1373.1281	-3.304	85172.809	0.5	4D (5D)4D	92453.460	0.5	4P (3F)4D	1396.0130	-3.718	54904.222	3.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F
1373.1681	-4.505	54232.195	5.5	D5S2(7S)4G	61512.634	4.5	4P (3H)4I	1396.1910	-4.607	99332.102	4.5	D6S (3F)2H	92171.716	4.5	4P (3F)2G
1373.6979	-4.018	99918.569	1.5	5S (3F)4F	107196.200	2.5	180DD	1398.0688	-0.821	84424.370	1.5	4D (5D)6P	91575.139	2.5	5P (5D)6P
1373.7542	-4.072	86710.837	1.5	4D (5D)4D	93988.170	2.5	4SP(5G)4G	1398.6366	-4.271	84870.863	2.5	4D (5D)4D	92018.729	2.5	4SP(5D)6F
1373.9889	-3.715	105630.750	2.5	5D (5D)4G	98354.660	2.5	4SP(5D)4F	1398.9538	-2.567	99573.225	4.5	5S (3F)4F	92426.980	4.5	4SP(5G)4F
1374.5824	-4.674	99573.225	4.5	5S (3F)4F	92300.277	4.5	4SP(5D)6F	1399.7953	-1.369	85172.809	0.5	4D (5D)4D	92314.758	0.5	5P (5D)4P
1374.9396	-3.585	99918.569	1.5	5S (3F)4F	92647.510	1.5	4P (3F)4D	1399.9416	-2.911	81639.260	2.5	D5S2(7S)2F	74498.260	1.5	4P (3D)2D
1375.5763	-2.209	102030.912	3.5	6S (5D)6D	94763.219	3.5	4SP(5D)6F	1400.2086	-2.921	85462.862	3.5	4D (5D)4G	92602.703	3.5	4P (3F)2G
1375.8673	-1.207	85048.602	1.5	4D (5D)4D	92314.758	0.5	5P (5D)4P	1400.8072	-4.170	100749.810	2.5	5S (3F)2F	107886.600	3.5	200DD
1376.7721	-1.233	83136.487	3.5	4D (5D)6F	90397.868	3.5	5P (5D)4D	1401.3890	-1.396	83459.670	1.5	4D (5D)6F	90593.497	1.5	5P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1402.2390	-4.448	86710.837	1.5	4D (5D)4F	93840.340	1.5	4SP(5D)6D	1430.5085	-4.076	105524.461	4.5	4D (3F)4H	98533.850	3.5	4SP(5D)4F
1402.4026	-3.795	99824.045	2.5	5S (3F)4F	92695.374	2.5	4P (3P)2D	1430.8420	-3.926	85184.734	4.5	4D (5D)4G	92171.716	4.5	4P (3F)2G
1402.5525	-2.746	81734.750	3.5	D5S2(7S)2F	74606.841	2.5	4P (3D)2D	1432.4729	-2.610	86416.333	3.5	4D (5D)4F	93395.363	2.5	4P (3F)4F
1402.9972	-3.666	105630.750	2.5	5D (5D)4G	98505.100	2.5	4SP(5D)4D	1432.7310	-4.781	84938.180	1.5	4D (5D)6G	91915.950	1.5	4SP(5D)6F
1403.5763	-3.715	103118.400	1.5	6S (5D)4D	95995.600	2.5	4SP(3F)4D	1432.7478	-3.811	102802.312	2.5	6S (5D)4D	109780.000	1.5	200DD
1404.7133	-2.586	99573.225	4.5	5S (3F)4F	106690.170	5.5	4SP(3I)2H	1432.7919	-1.994	86870.863	2.5	4D (5D)4D	91843.470	1.5	5P (5D)6P
1404.9900	-4.554	85184.734	4.5	4D (5D)4G	92300.277	4.5	4SP(5D)6F	1434.2207	-4.095	99573.225	4.5	5S (3F)4F	92602.703	3.5	4P (3F)2G
1405.0901	-4.466	73637.340	1.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F	1434.4453	-3.872	83184.734	4.5	4D (5D)4G	92154.165	3.5	4SP(5D)6F
1405.1107	-3.535	73492.215	3.5	D5S2(7S)4F	66377.628	3.5	4P (3G)4F	1434.6771	-3.168	83812.316	2.5	4D (5D)6D	90780.621	3.5	5P (5D)4F
1408.5169	-1.851	85184.734	4.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F	1434.7786	-2.714	85679.698	2.5	4D (5D)4G	92647.510	1.5	4P (3F)4D
1408.7285	-4.894	100492.020	3.5	5S (3F)2F	93395.360	2.5	4P (3F)4F	1435.0348	-4.561	85728.806	1.5	4D (5D)4S	92695.374	2.5	4P (3F)2D
1409.0779	-4.677	105630.750	2.5	5D (5D)4G	98535.850	3.5	4SP(5D)4F	1435.5396	-4.047	85462.862	3.5	4D (5D)4G	92426.980	4.5	4SP(5G)4F
1409.0819	-3.328	105449.540	3.5	5D (5D)4G	98354.660	2.5	4SP(5D)4F	1438.7642	-3.065	58631.531	4.5	D6S (1G)2G	65580.041	5.5	4P (3G)4G
1410.1160	-1.355	83558.540	0.5	4D (5D)6F	90648.217	0.5	5P (5D)6F	1439.3881	-0.877	82978.677	4.5	4D (5D)6F	89924.177	5.5	5P (5D)6F
1410.1166	-1.223	83308.194	2.5	4D (5D)6F	90397.868	3.5	5P (5D)4D	1439.6074	-2.778	105449.540	3.5	5D (5D)4G	98505.100	2.5	4SP(5D)4D
1410.1218	-2.821	99093.452	5.5	5S (3H)2H	106183.100	6.5	4SP(3I)2K	1439.6443	-4.291	102802.312	1.5	6S (5D)4D	95858.050	1.5	4SP(5P)4D
1410.2889	-2.637	83812.316	2.5	4D (5D)6D	90901.124	2.5	5P (5D)4P	1441.2865	-3.781	105291.010	3.5	4D (3F)4G	98354.660	2.5	4SP(5D)4F
1410.3163	-0.610	82978.677	4.5	4D (5D)6F	90067.347	4.5	5P (5D)6F	1442.1728	-4.519	101698.489	4.5	6S (5D)6D	94763.219	3.5	4SP(5D)6P
1410.5605	-4.868	79439.467	3.5	5S (5D)4D	72352.024	3.5	4P (3D)4F	1442.4281	-0.877	83136.487	3.5	4D (5D)6F	90067.347	4.5	5P (5D)6F
1410.7368	-3.204	83812.316	2.5	4D (5D)6D	90898.873	1.5	4P (3P)4P	1443.2627	-4.732	99093.452	5.5	5S (3H)2H	92166.600	5.5	4SP(5G)4H
1411.1823	-4.407	105589.420	3.5	5S (3F)4F	92602.703	3.5	4P (3F)2G	1443.5891	-2.732	83713.536	3.5	5S (3D)6D	90638.822	2.5	5P (5D)4D
1411.9468	-3.273	83990.063	1.5	4D (5D)6D	91070.547	2.5	5P (5D)4F	1443.6810	-3.417	99824.045	2.5	5S (3F)4F	92899.200	2.5	4P (3F)4D
1412.5773	-3.864	84131.563	0.5	4D (5D)6D	91208.887	1.5	5P (5D)4F	1443.7010	-4.218	58631.531	4.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H
1413.7682	-3.759	83558.540	0.5	4D (5D)6F	90629.902	1.5	4P (3F)4S	1444.0647	-4.432	85679.698	2.5	4D (5D)4G	92602.703	3.5	4P (3F)2G
1413.7772	-2.602	86416.333	3.5	4D (5D)4F	93487.650	3.5	4P (3F)4S	1444.3295	-4.561	99093.452	5.5	5S (3H)2H	92171.716	4.5	4P (3F)2G
1413.8174	-4.075	84844.834	2.5	4D (5D)6G	91915.950	1.5	4SP(5D)6F	1444.9624	-4.307	83728.806	1.5	4D (5D)4S	92647.510	1.5	4P (3F)4D
1413.9372	-0.193	82853.658	5.5	4D (5D)6F	89924.175	5.5	5P (5D)6F	1445.3826	-4.289	84131.563	0.5	4D (5D)6D	91048.256	1.5	5P (5D)4D
1414.3913	-3.675	86416.333	3.5	4D (5D)4F	93484.580	4.5	4P (3F)4F	1445.4655	-3.345	77230.900	4.5	D5S2(7S)2H	70314.604	4.5	4P (3G)2G
1414.6239	-1.383	83713.536	3.5	4D (5D)6D	90780.621	3.5	5P (5D)4F	1446.2505	-4.567	84938.180	1.5	4D (5D)6G	98533.850	3.5	4SP(5D)4F
1415.2212	-3.762	82978.677	4.5	4D (5D)6F	90042.779	4.5	4P (3F)4G	1446.4275	-4.917	82978.677	4.5	4D (5D)6F	91850.722	0.5	4SP(5D)6F
1416.4060	-3.087	83990.063	1.5	4D (5D)6D	91048.256	1.5	5P (5D)4D	1446.5604	-2.720	83990.063	1.5	4D (5D)6D	90901.124	2.5	5P (5D)4P
1417.1963	-2.060	83796.364	4.5	4D (5D)6D	90780.621	3.5	5P (5D)4F	1446.9752	-4.611	105414.180	2.5	4D (3F)4G	98505.100	2.5	4SP(5D)4D
1417.3340	-4.648	87985.628	2.5	4D (5D)4P	95039.200	1.5	4P (3P)2P	1447.0317	-4.757	83990.063	1.5	4D (5D)6D	90898.873	1.5	4P (3F)4P
1417.5034	-3.021	85172.809	0.5	4D (5D)4D	92225.538	1.5	5P (5D)4D	1447.5993	-3.979	83136.487	3.5	4D (5D)6F	90042.779	4.5	4P (3F)4G
1418.1241	-3.791	99332.102	4.5	5S (3H)2H	92282.460	3.5	4SP(5G)4F	1447.7694	-4.141	84938.180	1.5	4D (5D)6G	91843.470	1.5	5P (5D)6P
1419.0410	-4.058	84870.863	2.5	4D (5D)4D	91915.950	1.5	4SP(5D)6F	1447.9296	-4.722	85184.734	4.5	4D (5D)4G	92089.260	3.5	4SP(5G)4H
1419.3585	-4.239	85172.809	0.5	4D (5D)4D	92216.320	1.5	4P (3P)2D	1448.5894	-0.742	84266.556	3.5	4D (5D)6P	91167.937	3.5	5P (5D)6P
1420.2368	-3.387	99824.045	2.5	5S (3F)4F	106863.200	3.5	160DD	1448.9465	-4.338	105291.010	3.5	4D (3F)4G	98391.330	3.5	4SP(5D)4D
1421.0843	-1.175	83558.540	0.5	4D (5D)6F	90593.497	1.5	5P (5D)6F	1448.9906	-4.877	102666.694	0.5	6S (5D)6D	95767.700	0.5	4SP(5P)4D
1421.2191	-4.440	105230.290	0.5	5D (5D)4D	98196.000	1.5	4SP(5D)4F	1449.0906	-4.877	102666.694	0.5	6S (5D)6D	98338.280	1.5	4SP(5P)4S
1421.5972	-3.686	81639.260	2.5	D5S2(7S)2F	74606.841	2.5	4P (3D)2D	1449.5990	-4.302	105230.290	0.5	5D (5D)4D	65556.280	4.5	4P (3H)2H
1422.1309	-4.439	58666.258	3.5	D6S (1G)2G	65996.038	4.5	4P (3G)4G	1450.5776	-2.751	58666.258	3.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H
1422.4627	-1.040	83459.670	1.5	4D (5D)6F	90487.810	2.5	5P (5D)6F	1450.9946	-1.216	84685.198	3.5	4D (5D)4D	91575.139	2.5	5P (5D)6P
1423.1625	-4.199	73637.340	1.5	D5S2(7S)4F	66612.656	1.5	4P (3G)4F	1451.9368	-3.706	60384.370	0.5	D5S2(7S)4D	67273.826	1.5	4P (3F)2D
1424.2401	-4.030	99918.569	1.5	5S (3F)4F	92899.200	2.5	4P (3F)4F	1451.4221	-3.503	86599.738	2.5	4D (5D)4F	93487.650	3.5	4P (3F)4F
1424.3867	-4.217	73395.930	2.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4F	1452.6512	-4.702	88157.116	1.5	4D (5D)4P	95039.200	1.5	4P (3P)2P
1424.8302	-4.192	73393.745	4.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4F	1452.6512	-4.926	79885.493	2.5	5S (5D)4D	86767.577	2.5	4P (3F)4D
1424.9899	-3.401	85679.698	2.5	4D (5D)4G	92695.374	2.5	4P (3P)2D	1452.6742	-3.895	84326.912	2.5	4D (5D)6P	91208.887	1.5	5P (5D)4F
1425.2607	-4.692	57411.065	2.5	D5S2(7S)4P	64425.408	2.5	4P (3F)2F	1452.6742	-3.895	84326.912	2.5	4D (5D)6P	91208.887	1.5	5P (5D)4F
1426.1280	-4.898	105288.847	6.5	4D (3F)4H	98278.770	5.5	4P (1G)2H	1452.6832	-2.592	54275.637	2.5	D5S2(7S)4G	61156.835	3.5	4P (3H)4H
1426.1864	-4.790	105205.790	2.5	5D (5D)6G	98196.000	1.5	4SP(5D)4F	1453.4440	-4.638	105414.180	2.5	4D (3F)4G	98533.850	3.5	4SP(5D)4F
1427.0396	-2.211	86124.301	4.5	4D (5D)4F	93129.900	3.5	4P (3F)4F	1454.0888	-3.778	57431.065	2.5	D5S2(7S)4P	64286.345	3.5	4P (3F)2F
1427.2900	-4.132	100492.020	3.5	5S (3F)2F	93487.650	3.5	4P (3F)4F	1454.4367	-3.737	73395.930	2.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F
1428.4594	-3.561	84844.834	2.5	4D (5D)6G	91843.470	1.5	5P (5D)6P	1454.4410	-4.967	54283.220	3.5	D5S2(7S)4G	61156.835	3.5	4P (3H)4H
1429.6182	-3.996	99688.337	3.5	5S (3F)4F	92695.374	2.5	4P (3F)4D	1455.7683	-3.649	85048.602	1.5	4D (5D)4D	91915.950	1.5	4SP(5D)6F
1429.7270	-1.221	83308.194	2.5	4D (5D)6F	90300.625	3.5	5P (5D)6F	1455.8361	-1.949	85462.862	3.5	4D (5D)4G	92329.890	2.5	4SP(5G)4F
1430.4565	-4.675	80177.975	1.5	5S (5D)4D	73189.110	1.5	4P (3D)2P	1456.3820	-3.115	84710.685	3.5	4D (5D)6G	91575.139	2.5	5P (5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1457.1980	-3.954	105630.750	2.5	5D (5D)4G	98770.140	1.5	4SP(5D)4D	1490.7447	-2.369	54283.820	3.5	D5S2(7S)4G	60989.444	4.5	4P (3H)4H
1458.2738	-4.978	54870.528	2.5	D6S (3F)2F	61726.077	3.5	4D (3P)4D	1491.1778	-2.383	84870.863	2.5	4D (5D)4D	91575.139	2.5	5P (5D)6P
1458.8396	-4.924	105449.540	3.5	5D (5D)4G	98596.650	4.5	4SP(5D)4F	1492.2494	-3.062	87985.628	2.5	4D (5D)4P	94685.090	2.5	4SF(5D)6P
1459.4189	-4.727	88189.030	0.5	4D (5D)4P	95039.200	1.5	4P (3P)2P	1492.9355	-4.867	79885.493	2.5	5S (5D)4D	73189.110	1.5	4P (3D)2P
1459.5793	-4.996	89090.063	1.5	4D (5D)6D	90839.480	0.5	4P (3P)4P	1493.3866	-4.246	105291.010	3.5	4D (3F)4G	98596.650	4.5	4SP(5D)4F
1460.8964	-4.362	99093.452	5.5	5S (3H)2H	92250.210	6.5	4SP(5G)4H	1493.4346	-3.538	99824.045	2.5	5S (3F)4F	93129.900	3.5	4P (3F)4D
1461.3698	-0.697	84326.912	2.5	4D (5D)6P	91167.937	3.5	5P (5D)6P	1493.9780	-3.263	88189.030	0.5	4D (5D)4P	94880.740	0.5	4SP(5P)4P
1462.7466	-4.485	85495.304	2.5	4D (5D)6S	92329.890	2.5	4SP(5C)4F	1494.0689	-4.490	85462.862	3.5	4D (5D)4G	92154.165	3.5	4SP(5D)6F
1463.1305	-4.181	60441.033	1.5	D5S2(7S)4D	67273.826	1.5	4P (3F)2D	1495.0869	-3.123	102584.963	5.5	5S (3G)4G	109271.710	5.5	4SF(3I)2I
1464.4780	-1.913	83812.316	2.5	4D (5D)6D	90638.822	2.5	5P (5D)4D	1495.1043	-2.337	98130.131	6.5	5S (3H)4H	104816.800	5.5	4SP(3I)4H
1465.4764	-4.635	54904.222	3.5	D6S (3F)2F	61726.077	3.5	4P (3P)4D	1495.5843	-3.232	86710.837	1.5	4D (5D)4F	93395.360	2.5	4P (3F)4F
1465.8800	-3.710	79439.467	3.5	5S (5D)4D	72619.490	2.5	4P (3D)4D	1495.6271	-1.356	83713.536	3.5	4D (5D)6D	90397.868	3.5	5P (5D)4F
1465.9159	-3.207	105211.140	4.5	5D (5D)4G	98391.330	3.5	4SP(5D)4D	1495.8938	-4.052	54273.641	4.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1466.9614	-2.547	85462.862	3.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F	1496.3407	-4.177	54273.641	2.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1466.3532	-4.840	54275.637	2.5	D5S2(7S)4G	61093.413	2.5	4P (3P)2D	1496.8408	-1.993	85679.698	2.5	4D (5D)4G	92358.610	1.5	4SP(5G)4F
1466.3941	-4.208	83812.316	2.5	4D (5D)6D	90629.902	1.5	4P (3P)4S	1497.0647	-4.186	85172.809	0.5	4D (5D)4D	91850.722	0.5	4SP(5D)6F
1467.7564	-2.701	85462.862	3.5	4D (5D)4G	92274.120	2.5	4P (3P)4P	1497.3658	-4.708	100749.810	2.5	5S (3F)2F	94073.240	3.5	4SP(5G)4G
1468.3199	-3.994	102666.694	0.5	6S (5D)6D	95858.050	1.5	4SP(3P)4D	1497.4145	-4.787	57411.065	2.5	D5S2(7S)4P	64087.418	2.5	4P (3F)4G
1469.3241	-1.650	84266.556	3.5	4D (5D)6P	91070.547	2.5	5P (5D)4F	1497.6072	-1.231	83812.316	2.5	4D (5D)6D	90487.810	2.5	5P (5D)6F
1469.7105	-4.227	105398.852	5.5	4D (3F)4H	98596.650	4.5	4SP(5D)4F	1497.6530	-2.725	105211.140	4.5	5D (5D)4G	98535.850	3.5	4SP(5D)4F
1469.7282	-4.055	85048.602	1.5	4D (5D)4D	91850.722	0.5	4SP(5D)6F	1497.8751	-4.769	100646.630	3.5	5S (3F)2F	107165.600	3.5	1700DD
1471.1336	-2.474	86599.738	2.5	4D (5D)4F	93395.360	2.5	4P (3P)4F	1498.0367	-4.778	100492.020	3.5	5S (3F)2F	107165.600	3.5	1700DD
1471.2968	-2.626	85048.602	1.5	4D (5D)4D	91843.470	1.5	5P (5D)6P	1498.0410	-3.609	54283.220	3.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1472.4622	-4.412	105127.770	2.5	5D (5D)4D	98338.280	1.5	4SP(5P)4S	1498.1687	-2.855	83713.536	3.5	4D (5D)6D	90386.528	4.5	5P (5D)4F
1472.5388	-4.479	99688.337	3.5	5S (3F)4F	92899.200	2.5	4P (3F)4D	1498.5029	-2.876	83726.364	4.5	4D (5D)6D	90397.868	3.5	5P (5D)4D
1472.6099	-4.441	79439.467	3.5	5S (5D)4D	72650.658	4.5	4P (3D)4F	1498.6922	-3.571	85172.809	0.5	4D (5D)4D	91843.470	1.5	4P (5D)6P
1473.2391	-3.843	105291.010	3.5	4D (3F)4G	98505.100	2.5	4SP(5D)4D	1499.6340	-4.235	99093.452	5.5	5S (3H)2H	92426.980	4.5	4SP(5G)4F
1473.5415	-2.898	84424.370	1.5	4D (5D)6P	91208.887	1.5	5P (3G)4F	1501.0343	-1.101	83726.364	4.5	4D (5D)6S	92426.980	4.5	5P (5D)4F
1473.8116	-3.987	73395.930	2.5	D5S2(7S)4F	66612.656	1.5	4P (3D)4F	1501.3480	-3.935	85495.304	2.5	4D (5D)6S	92426.980	4.5	5P (5D)4F
1474.2665	-1.526	83812.316	2.5	4D (5D)6D	90393.497	1.5	5P (5D)6F	1501.4337	-4.946	79885.493	2.5	5S (5D)4D	86543.974	1.5	4P (3P)4D
1474.5104	-3.586	102842.119	4.5	5S (3G)4G	96062.060	5.5	4SP(3G)2H	1501.5075	-1.761	83990.063	1.5	4D (5D)6D	90648.217	0.5	5P (5D)6F
1474.7808	-4.033	85495.304	2.5	4D (5D)6S	92274.120	2.5	4P (3P)4P	1503.3052	-2.672	85679.698	2.5	4D (5D)4G	92329.890	2.5	4SP(5C)4F
1475.4050	-4.466	102543.648	1.5	6S (5D)6D	94763.219	3.5	4SP(5D)6P	1503.6292	-4.576	83990.063	1.5	4D (5D)6D	90638.822	2.5	4SP(5D)4D
1475.5296	-4.456	84424.370	1.5	4D (5D)6P	95767.700	0.5	4SP(5P)4D	1504.2133	-3.161	84424.370	1.5	4D (5D)6P	91070.547	2.5	5P (5D)4F
1475.7696	-1.519	83713.536	3.5	4D (5D)6D	90487.810	2.5	5P (5D)6F	1504.5483	-4.294	77230.900	4.5	D5S2(7S)2H	83871.184	4.5	4SF(3I)4H
1476.0232	-3.014	105127.770	2.5	5D (5D)4D	98354.660	2.5	4SP(5D)4F	1505.5766	-2.811	84527.778	4.5	4D (5D)6G	91167.937	3.5	5P (5D)6P
1477.2883	-3.119	84131.563	0.5	4D (5D)6D	90898.873	1.5	4P (3P)4P	1505.6492	-3.049	83990.063	1.5	4D (5D)6D	90629.902	1.5	4P (3P)4S
1477.5501	-3.818	54275.637	2.5	D5S2(7S)4G	61041.748	2.5	4P (3H)4G	1506.0685	-1.814	105291.010	3.5	4D (3F)4G	111929.000	2.5	290DD
1478.0636	-4.526	105155.090	4.5	4D (3F)4G	98391.330	3.5	4SP(5D)4D	1506.3334	-4.445	73637.340	1.5	D5S2(7S)4F	67000.517	2.5	4P (3F)2D
1478.5271	-4.074	100749.810	2.5	5S (3F)2F	93988.170	2.5	4SP(5G)4G	1506.8454	-1.379	84266.556	3.5	4D (5D)6P	90901.124	2.5	5P (5D)4P
1479.2079	-4.417	54283.220	3.5	D5S2(7S)4G	61041.748	2.5	4P (3H)4G	1507.9243	-4.051	57411.065	2.5	D5S2(7S)4P	64040.886	3.5	4P (3F)4G
1480.2999	-2.721	87985.628	2.5	4D (5D)4D	94739.170	1.5	4SP(5P)4F	1507.9281	-4.538	85728.806	1.5	4D (5D)4S	92358.610	1.5	4SP(5G)4F
1482.4746	-4.907	84326.912	2.5	4D (5D)6P	91070.547	2.5	5P (5D)4F	1509.0901	-4.496	102842.119	4.5	5S (3G)4G	96217.420	3.5	4SP(5P)4D
1482.5832	-3.037	105127.770	2.5	5D (5D)4D	91915.950	1.5	4SP(5D)6F	1509.2754	-3.226	84424.370	1.5	4D (5D)6P	91048.256	1.5	5P (5D)4D
1484.0580	-3.634	84844.834	2.5	4D (5D)6G	98391.330	3.5	4SP(5D)4D	1509.5525	-3.038	105127.770	2.5	5D (5D)4D	98050.100	2.5	4SP(5D)4D
1485.4108	-3.378	85495.304	2.5	4D (5D)6S	91575.139	2.5	5P (5D)6P	1510.3347	-3.253	105155.090	4.5	4D (3F)4G	98535.850	3.5	4SP(5D)4F
1485.6108	-4.013	99332.102	4.5	5S (3H)2H	92225.538	1.5	5P (5D)4P	1510.6992	-2.370	86710.837	1.5	4D (5D)4F	93328.480	1.5	4P (3F)4F
1485.4265	-3.378	85495.304	2.5	4D (5D)6S	92225.538	1.5	5P (5D)4P	1511.4193	-3.316	105211.140	4.5	5D (5D)4G	98596.650	4.5	4SP(5D)4F
1485.6108	-4.013	99332.102	4.5	5S (3H)2H	92225.538	1.5	5P (5D)4P	1511.5411	-2.619	54273.641	4.5	D5S2(7S)4G	60887.598	5.5	4P (3H)4H
1485.7558	-2.599	86599.738	2.5	4D (5D)4F	93328.480	1.5	4P (3F)4F	1512.8094	-3.991	54904.222	3.5	D6S (3F)2F	61512.634	4.5	4P (3H)4I
1486.8868	-2.615	88157.116	1.5	4D (5D)4P	94880.740	0.5	4SP(3P)4D	1513.5052	-2.574	54232.195	5.5	D5S2(7S)4G	60837.569	6.5	4P (3H)4H
1487.3912	-3.206	84326.912	2.5	4D (5D)6P	91048.256	1.5	5P (5D)6P	1513.9499	-1.419	83990.063	1.5	4D (5D)6D	90593.497	1.5	5P (5D)6F
1488.6184	-4.477	54273.641	4.5	D5S2(7S)4G	60989.444	4.5	4P (3H)4H	1514.0680	-4.064	85679.698	2.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F
1488.7893	-3.936	87985.628	2.5	4D (5D)4D	94700.660	2.5	4P (3F)2D	1514.1040	-3.400	85728.806	1.5	4D (5D)4S	92329.890	2.5	4SF(5G)4F
1489.1142	-3.002	86416.333	3.5	4D (5D)4F	93129.900	3.5	4P (3F)4D	1514.4888	-3.400	85728.806	1.5	4D (5D)4S	92329.890	2.5	4SF(5G)4F
1489.3684	-4.756	84131.563	0.5	4D (5D)6D	90839.480	0.5	4P (3P)4P	1516.0188	-3.477	85679.698	2.5	4D (5D)4G	92274.120	2.5	4P (3F)4D
1490.5291	-3.174	77230.900	4.5	D5S2(7S)2H	70523.706	3.5	4P (3C)2C	1516.0936	-4.515	57493.321	1.5	D5S2(7S)4P	64087.418	2.5	4P (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1516.5943	-4.590	105127.770	2.5	5D (5D)4D	98535.850	3.5	4SP(5D)4F	1543.5615	-2.498	84424.370	1.5	4D (5D)6P	90901.124	2.5	5P (5D)4P
1517.0156	-2.729	99918.569	1.5	5S (3F)4F	93328.480	1.5	4P (3F)4F	1543.7265	-2.498	102334.112	2.5	6S (5D)6D	95858.050	1.5	4SP(3F)4D
1517.7065	-1.179	83713.536	3.5	4D (5D)6D	90300.620	3.5	5P (5D)6F	1544.0982	-2.286	84424.370	1.5	4D (5D)6P	90898.870	1.5	4P (3F)4D
1517.9686	-1.469	85728.806	1.5	4D (5D)4S	92314.758	0.5	5P (5D)4F	1544.3374	-3.994	104828.160	2.5	5D (5D)6D	98354.660	2.5	4SP(5D)4F
1518.2129	-3.449	102802.312	2.5	6S (3D)4D	96217.420	3.5	4SP(5P)4D	1545.9135	-3.045	105063.550	5.5	4D (3F)4G	98596.650	4.5	4SP(5D)4F
1518.6031	-2.492	98445.400	4.5	5S (3H)4H	105028.600	3.5	4SP(3I)4H	1547.0293	-4.910	54870.528	2.5	D6S (3F)2F	61332.768	1.5	4P (3F)4P
1518.8675	-3.360	88157.116	1.5	4D (5D)4P	94739.170	1.5	4SP(5P)4P	1547.1016	-2.950	84131.563	0.5	4D (5D)6D	90593.497	1.5	5P (5D)6F
1520.4680	-4.022	54232.195	5.5	D5S2(7S)4G	60807.220	4.5	4P (3H)4G	1547.5288	-3.285	105230.290	0.5	5D (5D)4D	98770.140	1.5	4SP(5D)4D
1520.6680	-1.794	83726.364	4.5	4D (5D)6D	90300.620	3.5	5P (5D)6F	1547.6395	-1.473	98568.912	3.5	5S (3H)4H	105028.600	3.5	4SP(3I)4H
1520.6793	-3.575	84326.912	2.5	4D (5D)6P	90901.124	2.5	5P (5D)4P	1548.2234	-4.091	84710.685	3.5	4D (5D)6G	91167.937	3.5	5P (5D)6P
1521.2002	-2.064	84326.912	2.5	4D (5D)6P	90898.873	1.5	4P (3P)4F	1549.0733	-3.022	84326.912	2.5	4D (5D)6G	90780.621	3.5	5P (5D)4F
1522.8788	-3.051	102584.963	5.5	5S (3G)4G	109149.680	6.5	4SP(3I)2I	1549.4519	-4.201	98568.912	3.5	5S (3H)4H	92116.780	4.5	4SP(5C)4H
1523.8507	-3.819	105065.630	3.5	5D (5D)6G	98505.100	2.5	4SP(5D)4D	1550.7118	-3.779	78577.280	4.5	D5S2(7S)2G	72130.390	4.5	4P (1G)2H
1524.0937	-3.695	60441.033	1.5	D5S2(7S)4D	67000.517	2.5	4P (3F)2D	1550.8321	-4.987	100749.810	2.5	5S (3F)2F	107196.200	2.5	180DD
1524.3370	-2.956	99688.337	3.5	5S (3F)4F	93129.900	3.5	4P (3F)4D	1551.4804	-4.266	85728.806	1.5	4D (5D)4S	79285.110	2.5	4SP(5S)6P
1524.9346	-3.720	85462.862	3.5	4D (5D)4F	92018.729	2.5	4SP(5D)6F	1551.5698	-4.222	99573.225	4.5	5S (3F)4D	93129.900	3.5	4P (3F)4D
1525.0799	-4.206	60445.275	2.5	D5S2(7S)4D	67000.517	2.5	4P (3F)2D	1553.1354	-3.989	104828.160	2.5	5D (5D)6D	98391.330	3.5	4SP(5D)4D
1526.2679	-2.765	88189.030	0.5	4D (5D)6D	94739.170	1.5	4SP(5P)4D	1553.4201	-4.307	105205.790	2.5	5D (5D)6G	98770.140	1.5	4SP(5D)4D
1526.7765	-3.861	102543.648	1.5	6S (5D)6D	95995.690	2.5	4SP(5P)4D	1554.8840	-2.858	102842.119	4.5	5S (3G)4G	109271.710	5.5	4SP(3I)2I
1527.3932	-2.972	85728.806	1.5	4D (5D)4S	92274.120	2.5	4P (3P)4F	1555.1032	-2.802	99824.045	2.5	5S (3F)4F	93395.360	2.5	4P (3F)4F
1527.8064	-4.495	88157.116	1.5	4D (5D)4P	94700.660	2.5	4P (3F)2D	1557.0502	-1.913	85495.304	2.5	4D (5D)6S	91915.950	1.5	4SP(5D)6F
1529.4242	-3.261	85679.698	2.5	4D (5D)4G	92216.320	1.5	4P (3P)2D	1557.5029	-4.638	100492.020	3.5	5S (3F)2F	94073.240	3.5	4SP(5G)4G
1530.1342	-3.372	54273.641	4.5	D5S2(7S)4G	60807.220	4.5	4P (3H)4G	1558.3939	-3.896	84424.370	1.5	4D (5D)6P	90839.480	0.5	4P (3F)4P
1530.9372	-3.690	86599.738	2.5	4D (5D)4F	93129.900	3.5	4P (3F)4D	1558.4821	-3.635	98568.912	3.5	5S (3H)4H	92154.165	3.5	4SP(5D)6F
1531.0268	-4.696	105065.630	3.5	5D (5D)6G	98535.850	3.5	4SP(3I)4H	1562.3105	-4.216	102394.718	3.5	6S (5D)4D	95995.690	2.5	4SP(5P)4D
1531.1795	-1.044	98130.131	6.5	5S (3H)4H	104659.260	6.5	4SP(3I)4H	1563.1936	-4.272	73395.930	2.5	D5S2(7S)4F	67000.517	2.5	4P (3F)2D
1531.4504	-3.324	88157.116	1.5	4D (5D)4P	94685.090	2.5	4SP(5D)6P	1563.7215	-2.997	54232.195	5.5	D5S2(7S)4G	60625.449	5.5	4P (3H)4G
1531.7876	-3.803	85048.602	1.5	4D (5D)4D	60807.220	4.5	4P (3H)4G	1566.0811	-2.534	98445.400	4.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1532.3809	-4.239	54283.220	3.5	D5S2(7S)4G	60807.220	4.5	4P (3H)4G	1569.7039	-2.614	98568.912	3.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1532.5183	-3.091	85495.304	2.5	5S (3G)4G	93395.360	2.5	4P (3F)4F	1569.8798	-2.143	98568.912	3.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1532.5690	-3.316	99918.569	1.5	5S (3G)4G	93395.360	2.5	4P (3F)4F	1569.8798	-2.143	98568.912	3.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1532.6409	-4.107	102584.963	5.5	5S (3H)4H	96062.060	5.5	4SP(3G)2H	1569.8976	-4.174	104873.230	3.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1532.7594	-1.207	98294.401	5.5	5S (3H)4H	104816.800	5.5	4SP(3I)4H	1570.6976	-2.794	98294.401	5.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1533.6597	-3.953	104873.230	3.5	5D (5D)4D	98354.660	2.5	4SP(5D)4F	1570.8965	-1.784	84844.834	2.5	4D (5D)6G	91208.887	1.5	5P (5D)4F
1533.7021	-4.927	105288.530	1.5	5D (5D)6G	98770.140	1.5	4SP(5D)4D	1571.0293	-3.628	73637.340	1.5	D5S2(7S)4F	67273.826	1.5	4P (3F)2D
1534.1106	-1.676	84131.563	0.5	4D (5D)6D	90648.217	0.5	5P (5D)6F	1571.9315	-0.954	84710.685	3.5	4D (5D)6G	91070.547	2.5	5P (5D)4F
1534.5425	-0.720	105414.180	2.5	4D (3F)4G	111929.000	2.5	290DD	1572.4835	-3.410	105127.770	2.5	4D (5D)4D	98770.140	1.5	4SP(5D)4D
1534.6579	-3.673	100492.020	3.5	5S (3F)2F	107006.350	4.5	4SP(3I)2H	1572.8522	-3.907	98445.400	4.5	5S (3H)4H	92089.260	3.5	4SP(5G)4H
1534.6636	-4.570	103265.694	0.5	6S (5D)4D	109780.000	1.5	280DD	1572.9940	-3.612	108804.667	3.5	5S (3D)4D	102449.100	2.5	4SP(3D)2D
1534.7204	-3.045	84266.556	3.5	4D (5D)6P	90780.621	3.5	5P (5D)4F	1573.9249	-4.510	54273.641	4.5	D5S2(7S)4G	60625.449	5.5	4P (3H)4G
1538.4344	-3.276	84131.563	0.5	4D (5D)6D	90629.902	1.5	4P (3P)4S	1573.9249	-4.510	54273.641	4.5	D5S2(7S)4G	60625.449	5.5	4P (3H)4G
1538.5746	-3.559	83990.063	1.5	4D (5D)6D	90487.810	2.5	5P (5D)6F	1574.1846	-3.832	104705.420	3.5	5D (5D)6D	98354.660	2.5	4SP(5D)4F
1538.8149	-2.239	85728.806	1.5	4D (5D)4S	92225.538	1.5	5P (5D)4P	1574.8278	-0.561	85495.304	2.5	4D (5D)6S	91843.470	1.5	5P (5D)6P
1539.0914	-3.181	99824.045	2.5	5S (3F)4F	93328.480	1.5	4P (3F)4F	1574.8995	-4.889	79439.467	3.5	5S (5D)4D	73091.590	4.5	4P (1G)2G
1539.8417	-1.362	98445.400	4.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H	1575.9837	-4.456	100492.020	3.5	5S (3F)2F	94148.510	4.5	4SP(5G)4G
1540.0082	-3.504	73492.215	3.5	D5S2(7S)4F	67000.517	2.5	4P (3F)2D	1576.6118	-0.817	83726.364	4.5	4D (5D)6D	90067.347	4.5	5P (5D)6F
1540.4396	-4.751	104828.160	2.5	5D (5D)6D	98338.280	1.5	4SP(5P)4S	1576.9607	-0.176	105589.420	3.5	4D (3F)4H	111929.000	2.5	290DD
1540.8126	-2.431	83812.316	2.5	4D (5D)6D	90300.625	3.5	5P (5D)6F	1577.0973	-4.372	85679.698	2.5	4D (5D)4G	92018.729	2.5	4SP(5D)6F
1541.5189	-2.050	83726.364	4.5	4D (5D)6D	90211.700	5.5	4P (3F)4G	1577.2488	-4.194	102334.112	2.5	6S (5D)6D	95995.690	2.5	4SP(5P)4D
1541.5610	-3.520	102842.119	4.5	5S (3G)4G	96356.960	3.5	4SP(3G)2F	1577.3479	-2.430	84870.863	2.5	4D (5D)4D	91208.887	1.5	5P (5D)4F
1542.1060	-2.302	86416.333	3.5	4D (5D)4F	92899.200	2.5	4P (3F)4F	1577.5081	-4.422	104873.230	3.5	5D (5D)4D	98325.850	3.5	4SP(5D)4F
1542.1365	-2.061	84685.198	3.5	4D (5D)4D	91167.937	3.5	5P (5D)6P	1577.7534	-3.416	99824.045	2.5	5S (3F)4F	93487.650	3.5	4P (3F)4F
1542.1610	-4.448	85728.806	1.5	4D (5D)4D	79246.170	1.5	4SP(5S)6P	1578.6864	-3.823	104868.500	4.5	5D (3F)4G	98535.850	3.5	4SP(5D)4H
1542.3361	-2.635	104873.230	3.5	5D (5D)4D	98391.330	3.5	4SP(5D)4D	1579.6917	-2.443	98445.400	4.5	5S (3H)4H	92116.780	4.5	4SP(5G)4H
1542.8712	-2.510	98568.912	3.5	5S (3H)4H	92089.260	3.5	4SP(5G)4H	1581.0700	-4.678	84844.834	2.5	4D (5D)6G	91167.937	3.5	5P (5D)6P
1542.9169	-4.116	105449.540	3.5	5D (5D)4G	111929.000	2.5	290DD	1581.0808	-4.224	104828.160	2.5	5D (5D)6D	98505.100	2.5	4SP(5D)4D
1543.1689	-3.176	86124.301	4.5	4P (5D)4F	92602.700	3.5	4P (3F)2G	1582.4107	-2.124	83308.194	2.5	4D (5D)6F	98625.940	1.5	4SP(5P)6P
1543.4624	-4.073	104868.500	4.5	5D (5D)6G	98391.330	3.5	4								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1582.9606	-3.765	78577.280	4.5	D582(7S)2G	72261.729	5.5	4P(1C)2H	1618.5094	-4.955	83713.536	3.5	4D(5D)6D	89890.373	3.5	4P(3F)4G
1583.3269	-2.717	104705.420	3.5	5D(5D)6D	98591.330	3.5	4SP(5D)4D	1618.7351	-4.154	86124.301	4.5	4D(5D)4F	92300.277	4.5	4SP(5D)6F
1583.8738	-1.756	84326.912	2.5	4D(5D)6P	90638.822	2.5	5P(5D)4D	1618.7702	-4.723	102394.718	3.5	6S(5D)4D	108570.560	4.5	4SP(3G)4G
1584.8628	-1.754	83136.487	3.5	4D(5D)6F	89444.458	2.5	4SP(3P)6P	1619.8768	-3.454	60441.033	1.5	D5S2(7S)4D	66612.656	1.5	4P(3G)4F
1586.1153	-2.715	84326.912	2.5	4D(5D)6P	90629.902	1.5	4P(3P)4S	1620.4158	-3.895	104705.420	3.5	5D(5D)6D	98535.850	3.5	4SP(5D)4F
1586.1935	-2.297	86124.301	4.5	4D(5D)4F	92426.980	4.5	4SP(5G)4F	1620.5322	-2.039	84424.370	1.5	4D(5D)6P	90593.497	1.5	5P(5D)6F
1587.0036	-4.136	86599.738	2.5	4D(5D)4F	92899.207	2.5	4P(3F)4D	1620.9910	-4.541	80345.275	2.5	D5S2(7S)4D	66622.650	1.5	4P(3G)4F
1587.6054	-2.765	84870.863	2.5	4D(5D)4F	91167.937	3.5	5P(5D)6P	1621.2830	-1.763	83459.670	1.5	4D(5D)6F	89625.940	1.5	4SP(5P)6P
1588.6390	-3.117	99698.337	3.5	5S(3F)4F	93395.360	2.5	4P(3F)4F	1621.9317	-1.834	85495.304	2.5	4D(5D)6S	79331.500	3.5	4SP(5S)6P
1590.2879	-4.983	98568.912	3.5	5S(3H)4H	92282.460	3.5	4SP(5G)4F	1622.1591	-4.775	98445.400	4.5	5S(3H)4H	92282.460	3.5	4SP(5G)4F
1590.3246	-3.900	54870.528	2.5	D6S(3F)2F	61156.835	3.5	4P(3H)4H	1622.6967	-4.077	98445.400	4.5	4D(5D)6P	90487.810	2.5	5P(5D)6F
1590.9041	-4.275	102584.963	5.5	5S(3G)4G	108868.980	4.5	4SP(3G)4H	1622.9697	-1.581	84326.912	2.5	4D(5D)6P	90487.810	2.5	5P(5D)6F
1591.7114	-4.662	105288.530	1.5	5D(5D)6G	99007.700	0.5	4SP(5D)4D	1622.8582	-1.192	85048.602	1.5	4D(5D)4D	91208.887	1.5	5P(5D)4F
1592.1649	-3.205	86416.333	3.5	4D(5D)4F	92955.374	2.5	4P(3P)2D	1623.4184	-2.781	86124.301	4.5	4D(5D)4F	92282.460	3.5	4SP(5G)4F
1592.2260	-4.128	98445.400	4.5	5S(3H)4H	92166.600	5.5	4SP(5G)4H	1625.2699	-1.342	85048.602	1.5	4D(5D)4D	91199.746	0.5	5P(5D)4F
1592.7892	-4.136	104873.230	3.5	5D(5D)4D	98596.650	4.5	4SP(5D)4F	1625.6028	-1.152	82978.677	4.5	4D(5D)6F	89128.561	3.5	4SP(5P)6P
1593.5244	-3.424	98445.400	4.5	5S(3H)4H	92171.716	4.5	4P(3F)2G	1626.8623	-4.077	98445.400	4.5	5S(3H)4H	92300.277	4.5	4SP(5D)6F
1593.7045	-4.727	78237.685	3.5	5S(5D)6D	71964.710	2.5	4P(3D)4P	1627.1075	-1.750	102584.963	5.5	5S(3G)4G	108729.160	6.5	4SP(3G)4H
1593.9904	-4.559	104868.500	4.5	5D(5D)6G	98596.650	4.5	4SP(5D)4F	1628.8760	-4.524	54904.222	3.5	D6S(3F)2F	61041.748	2.5	4P(3H)4G
1594.2809	-2.017	84938.180	1.5	4D(5D)6G	91208.887	1.5	5P(5D)4F	1629.2110	-1.460	83308.194	2.5	4D(5D)6F	89444.458	2.5	4SP(5P)6P
1595.2800	-2.510	104863.430	5.5	5D(5D)4G	98596.650	4.5	4SP(5D)4F	1629.8604	-2.774	81734.750	3.5	D5S2(7S)2F	75600.991	3.5	4P(3D)2F
1595.3296	-2.212	84326.912	2.5	4D(5D)6P	90593.497	1.5	5P(5D)6F	1630.2464	-2.596	84938.180	1.5	4D(5D)6G	91070.547	2.5	5P(5D)4F
1596.6084	-2.368	84938.180	1.5	4D(5D)6G	91199.746	0.5	5P(5D)4D	1630.3014	-3.695	103983.510	3.5	5S(3G)2G	97851.350	4.5	4P(1G)2H
1598.8357	-0.575	84527.778	4.5	4D(5D)6G	90780.621	3.5	5P(5D)4F	1630.5269	-1.032	84266.556	3.5	4D(5D)6P	90397.868	3.5	5P(5D)4D
1598.8945	-4.515	54904.222	3.5	D6S(3F)2F	61156.835	3.5	4P(3H)4H	1631.4611	-2.316	98294.401	5.5	5S(3H)4H	92166.600	5.5	4SP(5G)4H
1599.0603	-4.682	60270.339	3.5	D5S2(7S)4D	66222.304	2.5	4P(3G)4F	1632.8243	-4.790	98294.401	5.5	5S(3H)4H	92171.716	4.5	4P(3F)2G
1599.7847	-1.684	85495.304	2.5	4D(5D)6S	79246.170	1.5	4SP(5S)6P	1632.9793	-4.809	73395.930	2.5	D5S2(7S)4F	67273.826	1.5	4P(3F)2D
1603.0893	-3.796	86579.698	2.5	4D(5D)4G	91915.950	1.5	4SP(3D)6F	1633.5482	-1.695	84266.556	3.5	4D(5D)6P	90386.528	4.5	5P(5D)4F
1605.1396	-3.058	60384.370	0.5	D5S2(7S)4D	66612.656	1.5	4P(3G)4F	1634.4241	-4.260	102334.112	2.5	6S(5D)6D	96217.420	3.5	4SP(5P)4D
1605.7004	-2.545	87985.628	2.5	4D(5D)4P	94211.739	2.5	4SP(3P)4P	1634.9662	-2.443	85728.806	1.5	4D(5D)4S	91843.470	1.5	5P(5D)6P
1605.8030	-1.459	84844.834	2.5	4D(5D)6G	91070.547	2.5	5P(5D)4F	1635.6047	-4.335	85462.862	3.5	4D(5D)4G	91575.139	2.5	5P(5D)6P
1605.9209	-3.760	78577.280	4.5	D5S2(7S)2G	72352.024	3.5	4P(3D)4F	1636.1939	-2.152	84938.180	1.5	4D(5D)6G	91048.256	1.5	5P(5D)4D
1606.1554	-3.091	102584.963	5.5	5S(3G)4G	108809.310	5.5	4SP(3G)4H	1636.2009	-2.648	105763.270	5.5	4D(3F)2H	99653.220	4.5	4SP(3G)2G
1606.2845	-2.632	84424.370	1.5	4D(5D)6P	90648.217	0.5	5P(5D)6F	1636.5437	-4.009	104705.420	3.5	5D(5D)6D	98596.650	4.5	4SP(5D)4F
1606.6090	-3.451	54870.528	2.5	D6S(3F)2F	61093.413	2.5	4P(3P)2D	1637.0330	-3.497	60270.339	3.5	D5S2(7S)4D	66377.283	3.5	4P(3G)4F
1606.9540	-2.500	84266.556	3.5	4D(5D)6P	90487.810	2.5	5P(5D)6F	1640.0699	-3.547	86599.738	2.5	4D(5D)4F	92695.378	2.5	4P(3F)2D
1608.3314	-0.349	84685.198	3.5	4D(5D)4D	90901.124	2.5	5P(5D)4P	1640.1272	-0.577	84685.198	3.5	4D(5D)4D	90780.621	3.5	5P(5D)4F
1608.7129	-3.139	84424.370	1.5	4D(5D)6P	90638.822	2.5	5P(5D)4P	1641.6691	-0.080	84296.830	5.5	4D(5D)6G	90386.528	4.5	5P(5D)4F
1609.8159	-1.704	85495.304	2.5	4D(5D)6S	79285.110	2.5	4SP(5S)6P	1642.7813	-3.518	99573.225	4.5	5S(3F)4F	93484.580	4.5	4P(3F)4F
1610.3101	-4.713	102030.912	3.5	6S(5D)6D	108239.200	3.5	240DD	1642.8766	-4.713	54904.222	3.5	D6S(3F)2F	60989.444	4.5	4P(3H)4H
1611.0253	-2.658	84424.370	1.5	4D(5D)6P	90829.902	1.5	4P(3P)4S	1643.9440	-2.880	60441.033	1.5	D5S2(7S)4D	66522.304	2.5	4P(3G)4F
1611.4862	-3.373	99688.337	3.5	5S(3F)4F	93484.580	4.5	4P(3F)4F	1644.3323	-0.614	85495.304	2.5	4D(5D)6S	91575.139	2.5	5P(5D)6P
1611.5732	-1.752	84844.834	2.5	4D(5D)6G	91048.256	1.5	5P(5D)4D	1645.0916	-3.375	60445.275	2.5	D5S2(7S)4D	66522.304	2.5	4P(3G)4F
1611.8902	-4.250	99332.102	4.5	5S(3H)2H	93129.900	3.5	4P(3F)4D	1645.8168	-3.026	77230.900	4.5	D5S2(7S)2H	83303.251	3.5	4P(1F)2G
1612.2841	-2.905	99688.337	3.5	5S(3F)4F	93487.650	3.5	4P(3F)4F	1646.5083	-4.950	104426.460	2.5	5D(5D)6F	98535.850	3.5	4SP(5D)4F
1612.3795	-4.121	104705.420	3.5	5D(5D)6D	98505.100	2.5	4SP(5D)4D	1647.0139	-1.090	84710.685	3.5	4D(5D)6G	90780.621	3.5	5P(5D)4F
1612.5449	-0.685	84870.863	2.5	4D(5D)4D	91070.547	2.5	5P(5D)4F	1647.7023	-2.190	83558.540	0.5	4D(5D)6F	89625.940	1.5	4SP(5P)6P
1613.0322	-1.555	83726.364	4.5	4D(5D)6D	89224.175	5.5	5P(5D)6F	1648.0372	-3.926	57493.321	1.5	D5S2(7S)4D	63559.488	0.5	4P(3F)4D
1614.9531	-2.396	84710.685	3.5	4D(5D)6G	91093.413	2.5	4P(3P)2D	1648.4845	-4.658	102842.119	4.5	5S(3G)4G	108906.640	3.5	4SP(3G)4H
1615.4788	-3.523	54904.222	3.5	D6S(3F)2F	61093.413	2.5	4P(3F)4D	1650.2336	-4.477	104828.160	2.5	5D(5D)6D	90487.810	2.5	5P(5D)6P
1615.8132	-4.230	85728.806	1.5	4D(5D)4S	91915.950	1.5	4SP(5D)6F	1651.1748	-4.995	78185.030	3.5	D5S2(7S)2G	72130.390	4.5	4P(1G)2H
1616.0153	-2.956	86416.333	3.5	4D(5D)4F	92602.703	4.5	4P(3F)2G	1651.3795	-3.051	88157.116	1.5	4D(5D)4P	94211.739	2.5	4SP(5P)4D
1618.3040	-3.903	98294.401	5.5	5S(3H)4H	92116.780	4.5	4SP(5G)4H	1651.3374	-4.042	57411.065	2.5	D5S2(7S)4P	63465.109	1.5	4P(3F)4D
1618.3637	-2.615	84870.863	2.5	4D(5D)4D	91048.256	1.5	5P(5D)4D	1651.3387	-4.235	84844.834	2.5	4D(5D)6G	90988.873	1.5	4P(3P)4D
1618.3886	-4.020	102394.718	3.5	6S(5D)4D	96217.420	3.5	4SP(5P)4D	1653.0499	-2.335	86599.738	2.5	4D(5D)4F	92647.510	1.5	4P(3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1653.1475	-3.697	86124.301	4.5	4P (5D)4F	92171.716	4.5	4P (3F)2G	1694.7664	-1.772	102584.963	5.5	5S (3G)4G	108483.870	5.5	J LABEL
1654.0293	-4.299	98294.401	5.5	5S (3H)4F	92250.210	6.5	4SP (5G)4H	1695.7628	-4.858	85679.698	2.5	4D (5D)4G	91575.139	2.5	5P (5D)6P
1655.6351	-4.274	81639.260	2.5	D5S2(7S)2F	75600.931	3.5	4P (3D)2F	1697.6345	-4.162	105524.461	4.5	4D (3F)4H	99635.520	3.5	4SP (3G)2G
1655.7916	-4.162	102394.718	3.5	6S (5D)4D	96356.960	3.5	4SP (3G)2F	1698.3024	-3.348	57578.484	0.5	D5S2(7S)4P	63465.109	1.5	4P (3F)4D
1656.1093	-4.589	104315.370	6.5	4D (3H)2K	98278.770	5.5	4P (1G)2H	1700.2387	-2.229	98130.131	6.5	5S (3H)4F	92250.210	6.5	4SP (3G)4H
1656.2525	-0.895	85172.809	0.5	4D (5D)4D	91208.887	1.5	5P (1G)2H	1700.9643	-4.432	73393.745	4.5	D5S2(7S)4F	67516.332	5.5	4P (3G)2H
1656.4874	-4.314	102030.912	3.5	6S (5D)6D	95995.690	2.5	4SP (5P)4D	1701.4196	-4.726	104411.690	4.5	5D (5D)6D	98535.850	3.5	4SP (5D)4F
1656.5126	-4.951	104426.460	2.5	5D (5D)6F	90391.330	3.5	4SP (5D)4D	1701.4916	-4.888	104380.940	3.5	5D (5D)6F	98505.100	2.5	4SP (5D)4D
1656.8039	-2.070	84266.556	3.5	4D (5D)6P	98391.620	3.5	5P (5D)6F	1701.5334	-1.204	85172.809	0.5	4D (5D)4D	91048.256	1.5	5P (5D)4D
1657.8502	-1.595	84870.863	2.5	4D (5D)4D	90901.124	2.5	5P (5D)4P	1701.7046	-0.293	82978.677	4.5	4D (5D)6F	88853.533	3.5	5P (5D)6D
1657.9593	-4.071	86124.301	4.5	4D (5D)4F	92154.165	3.5	4SP (5D)6F	1701.8767	-2.874	88157.116	1.5	4D (5D)4P	94031.378	0.5	4SP (5D)6D
1658.4692	-0.497	84870.863	2.5	4D (5D)4D	90898.873	1.5	4P (3P)4P	1702.6700	-0.554	83459.670	1.5	4D (5D)6F	99331.195	1.5	5P (5D)6D
1658.7645	-0.799	85172.809	0.5	4D (5D)4D	91199.746	0.5	5P (5D)4F	1703.0862	-0.362	84527.778	4.5	4D (5D)6G	90397.868	3.5	5P (5D)4D
1658.7854	-3.863	102842.119	4.5	5S (3G)4F	108868.980	4.5	4SP (3G)4H	1703.1872	-0.210	82853.658	5.5	4D (5D)6F	88723.400	4.5	5P (5D)6D
1659.8485	-0.881	83308.194	2.5	4D (5D)6F	89331.195	1.5	5P (5D)6D	1703.8609	-4.991	98294.401	5.5	5S (3H)4H	92426.980	4.5	4SP (5G)4F
1660.1396	-2.296	85048.602	1.5	4D (5D)4D	91070.547	2.5	5P (5D)4F	1704.2368	-2.620	86416.333	3.5	4D (5D)4F	92426.980	4.5	4SP (5G)4F
1661.1119	-4.829	98445.400	4.5	5S (3H)4H	92426.980	4.5	4SP (5G)4F	1705.3595	-3.983	98294.401	5.5	5S (3H)4H	92432.136	5.5	4SP (5D)6F
1662.9701	-1.131	83459.670	1.5	4D (5D)6F	89471.365	0.5	5P (5D)6D	1705.4625	-3.193	57411.065	2.5	D5S2(7S)4P	63272.976	2.5	4P (3F)4D
1663.2601	-3.529	86416.333	3.5	4D (5D)4F	92426.980	4.5	4SP (5G)4F	1706.3827	-1.042	84527.778	4.5	4D (5D)6G	90386.528	4.5	5P (5D)4F
1664.5034	-1.831	105763.270	5.5	4D (3F)2H	99757.120	4.5	4P (1G)2G	1707.2750	-4.665	102030.912	3.5	6S (5D)6D	107886.600	3.5	240DD
1665.3886	-3.801	86599.738	2.5	4D (5D)4F	92602.703	3.5	4SP (5D)6D	1707.5596	-3.249	87985.628	2.5	4D (5D)4P	93840.340	1.5	4SP (5D)6D
1665.7038	-4.871	87985.628	2.5	4D (5D)4F	93987.457	3.5	4SP (5D)6D	1708.1985	-2.115	85048.602	1.5	4D (5D)4D	90901.124	2.5	5P (5D)4P
1666.3076	-0.575	85048.602	1.5	4D (5D)4F	91048.256	1.5	5P (5D)4D	1708.8558	-1.606	85048.602	1.5	4D (5D)4P	90898.873	1.5	4P (3P)4F
1667.1507	-3.444	104593.270	5.5	5D (5D)6G	98596.650	4.5	4SP (5D)4F	1709.6159	-4.983	73395.930	2.5	D5S2(7S)4F	79243.600	1.5	4P (1D)2P
1668.3028	-4.802	86124.301	4.5	4D (5D)4F	92116.780	4.5	4SP (5G)4H	1709.6591	-3.119	99332.102	4.5	5S (3H)2H	93484.580	4.5	4P (3F)4F
1668.4155	-1.092	83136.487	3.5	4D (5D)6F	89128.561	3.5	4SP (5P)6P	1710.0069	-2.247	85728.806	1.5	4D (5D)4H	91575.139	2.5	5P (5D)6P
1669.1019	-4.158	104380.940	3.5	5D (5D)6F	98391.330	3.5	4SP (5D)4D	1710.2941	-3.274	87985.628	2.5	4D (5D)4P	93830.979	2.5	4SP (5D)6D
1670.2209	-3.020	102584.963	5.5	5S (3G)4G	108570.560	4.5	4SP (3G)4G	1710.5484	-3.495	102394.718	3.5	6S (5D)4D	108239.200	3.5	240DD
1670.4467	-1.785	83459.670	1.5	4D (5D)6F	89444.458	2.5	4SP (5P)6P	1710.5572	-3.748	99332.102	4.5	5S (3H)2H	93484.580	4.5	4P (3F)4F
1670.5167	-4.217	86124.301	4.5	4D (5D)4F	92695.374	2.5	4P (3P)2D	1710.5876	-3.937	99093.452	5.5	5S (3H)2H	104937.800	4.5	4SP (3I)4H
1670.9543	-0.595	83136.487	3.5	4D (5D)6F	89119.457	2.5	5P (5D)6D	1711.1732	-3.675	88189.030	0.5	4D (5D)4P	94031.378	0.5	4SP (5D)6D
1671.5035	-3.307	57578.484	0.5	4D (5D)6F	63559.488	0.5	4P (3F)4D	1713.0712	-3.318	99824.045	2.5	5S (3F)4F	93988.170	2.5	4P (3D)4F
1672.4308	-3.848	102802.312	2.5	6S (5D)6D	108780.000	1.5	270DD	1713.9138	-4.804	78185.030	3.5	D5S2(7S)2G	72352.024	3.5	4P (3D)4F
1673.5436	-2.161	84326.912	2.5	6S (5D)6P	90300.625	3.5	5P (5D)6F	1715.1570	-4.733	102802.312	2.5	6S (5D)4D	108631.090	3.5	4SP (3G)4G
1674.0831	-3.160	57493.321	1.5	D5S2(7S)4P	63465.109	1.5	4P (3F)4D	1717.6356	-1.506	83308.194	2.5	4D (5D)6F	89128.561	3.5	4SP (5P)6P
1675.3728	-1.862	102842.119	4.5	5S (3G)4G	108809.310	5.5	4SP (3G)4H	1717.8812	-3.910	81734.750	3.5	D5S2(7S)2F	75915.215	2.5	4P (3D)2F
1676.4010	-4.096	98130.131	6.5	5S (3H)4H	92166.600	5.5	4SP (5G)4H	1719.2091	-4.548	104411.690	4.5	5D (5D)6D	98596.650	4.5	4SP (5D)4F
1676.5660	-3.494	84938.180	1.5	4D (5D)6G	90901.124	2.5	5P (5D)4P	1719.6278	-1.502	83812.316	2.5	4D (5D)6D	89625.940	1.5	4SP (5P)6P
1677.1992	-3.499	84938.180	1.5	4D (5D)6G	90898.873	1.5	4P (3P)4P	1719.6669	-4.116	102030.912	3.5	6S (5D)6D	96217.420	3.5	4SP (3P)4D
1678.7177	-4.860	50187.813	3.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	1720.3265	-0.365	83308.194	2.5	4D (5D)6F	89119.457	2.5	5P (5D)6D
1679.1127	-4.981	105589.420	3.5	4D (3F)4H	99635.520	3.5	4SP (3G)2G	1722.8913	-2.586	84685.198	3.5	4D (5D)4D	90487.810	2.5	5P (5D)6F
1679.1906	-1.448	84685.198	3.5	4D (5D)4D	90638.822	2.5	5P (5D)4D	1722.9447	-4.566	85048.602	1.5	4D (5D)4D	79246.170	1.5	4SP (5S)6P
1681.1975	-4.747	78185.030	3.5	D5S2(7S)2G	72238.513	2.5	4P (3D)4F	1723.4321	-2.972	84266.556	3.5	4D (5D)6P	90067.347	4.5	5P (5D)6F
1683.2052	-3.801	103265.694	0.5	6S (5D)4D	97326.270	1.5	4SP (3P)2P	1724.7115	-4.996	102334.112	2.5	6S (5D)6D	108130.600	2.5	220DD
1684.2365	-2.302	84844.834	2.5	6S (5D)6G	90780.621	3.5	5P (5D)4F	1725.4557	-1.539	84844.834	2.5	4D (5D)6G	90638.822	2.5	5P (5D)4D
1684.8039	-3.828	102030.912	3.5	6S (5D)6D	107964.700	4.5	210DD	1726.0092	-3.677	103118.400	1.5	6S (5D)4D	97326.270	1.5	4SP (3P)2P
1685.3095	-2.710	60445.275	2.5	D5S2(7S)4D	66377.283	3.5	4P (3G)4F	1726.2387	-3.851	100492.020	3.5	6S (3F)2F	94700.660	2.5	4P (3F)2D
1685.7667	-3.039	99918.569	1.5	5S (3F)4F	93988.170	2.5	4SP (5G)4G	1726.3824	-1.073	85048.602	1.5	4D (5D)4D	90839.480	0.5	4P (3P)4P
1686.4100	-1.065	84710.685	3.5	4D (5D)6G	90638.822	2.5	5P (5D)4D	1726.9511	-2.984	102842.119	4.5	5S (3G)4G	108631.090	3.5	4SP (3G)4G
1686.8411	-4.473	78577.280	4.5	D5S2(7S)2G	72650.658	4.5	4P (3D)4F	1728.1162	-2.611	84844.834	2.5	4D (5D)6G	90629.902	1.5	4P (3F)4F
1687.1878	-3.676	78577.280	4.5	D5S2(7S)2G	72651.876	3.5	4P (3D)4D	1728.3486	-4.616	104380.940	3.5	5D (5D)6F	98596.650	4.5	4SP (5D)4F
1687.3199	-3.846	50157.452	4.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	1729.3262	-4.925	105589.420	3.5	4D (3F)4H	99808.400	3.5	4P (1G)2G
1690.1926	-1.478	84296.830	5.5	4D (5D)6G	90211.700	5.5	4P (3F)4G	1729.7347	-2.982	57493.321	1.5	D5S2(7S)4P	63272.976	2.5	4P (3F)4D
1690.5679	-2.696	86416.333	3.5	4D (5D)4F	92329.890	2.5	4SP (5G)4G	1730.0325	-4.672	105414.180	2.5	4D (3F)4G	99635.520	3.5	4SP (3G)2G
1690.7771	-0.755	83558.540	0.5	4D (5D)6F	89471.365	0.5	5P (5D)6D	1730.4922	-0.051	84710.685	3.5	4D (5D)6G	90487.810	2.5	5P (5D)6F
1691.6546	-3.166	84870.863	2.5	4D (5D)4D	90780.621	3.5	5P (5D)4F	1731.7746	-0.096	84266.556	3.5	4D (5D)6P	90042.779	4.5	4P (3F)4G
1692.9924	-4.810	102334.112	2.5	6S (5D)6D	108239.200	3.5	240DD	1731.7746	-0.096	84266.556	3.5	4D (5D)6G	90300.625	3.5	5P (5D)6F
1694.0792	-3.902	84938.180	1.5	4D (5D)6G	90839.480	0.5	4P (3P)4P	1731.8322</							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1732.4738	0.046	84296.830	5.5	4D (5D)6G	90667.347	4.5	5P (5D)6F	1772.0154	-4.586	102842.119	4.5	5S (3G)4G	108483.870	5.5	4SP(3G)4G
1733.2421	-0.388	84870.863	2.5	4D (5D)4D	90638.822	2.5	5P (5D)4D	1772.0214	-3.080	105398.852	5.5	4D (3F)4H	99757.120	4.5	4P (1G)2G
1733.8467	-4.769	50212.826	2.5	D6S (3P)4P	44446.878	3.5	4P (5D)4D	1773.4347	-4.054	60441.033	1.5	D5S2(7S)4D	66078.269	2.5	4P (3G)4G
1733.9483	-4.947	104120.270	2.5	4D (5D)6F	98354.660	2.5	4SP(5D)4F	1773.8623	-1.374	83990.063	1.5	4D (5D)6D	89625.940	1.5	4SP(5P)6P
1735.3774	-0.047	82853.658	5.5	4D (5D)6F	88614.520	4.5	4SP(5P)6D	1773.8730	-0.485	82978.677	4.5	4D (5D)6F	88614.520	4.5	4SP(5P)6D
1735.8933	-4.072	58666.258	3.5	D6S (1G)2G	64425.408	2.5	4P (3F)2F	1774.7702	-4.556	60445.275	2.5	D5S2(7S)4D	66078.269	2.5	4P (3G)4G
1735.9171	-3.262	86599.738	2.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F	1775.0387	-0.973	83812.316	2.5	4D (5D)6D	89444.458	2.5	4SP(5P)6P
1738.4122	-2.922	99824.045	2.5	5S (3F)4F	94073.240	3.5	4SP(5G)4G	1776.5518	-0.983	84296.830	5.5	4D (5D)6G	89924.175	5.5	5P (5D)6F
1739.0600	-0.154	84844.834	2.5	4D (5D)6G	90593.497	1.5	5P (5D)6F	1777.3894	-3.694	84870.863	2.5	4D (5D)4D	79246.170	1.5	4SP(5S)6P
1739.8814	-2.853	84296.830	5.5	4D (5D)6G	90042.779	4.5	4P (3F)4G	1779.1734	-3.432	86710.837	1.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F
1739.9774	-3.930	105398.852	5.5	4D (3F)4H	99653.220	4.5	4SP(3G)2G	1779.8405	-2.441	84870.863	2.5	4D (5D)4D	90487.810	2.5	5P (5D)6F
1740.2527	-0.446	82978.677	4.5	4D (5D)6F	88723.400	4.5	5P (5D)6D	1780.3223	-1.137	84685.198	3.5	4D (5D)4D	90300.625	3.5	5P (5D)6F
1740.8891	-2.607	86710.837	1.5	4D (5D)4F	92453.460	0.5	4P (3F)4D	1780.4269	-3.123	99688.337	3.5	5S (3F)4F	94073.240	3.5	4SP(5G)4G
1740.9534	-2.751	60270.339	3.5	D5S2(7S)4D	66012.750	4.5	4P (3G)4F	1782.4029	-0.239	99093.452	5.5	5S (3H)2H	93484.580	4.5	4P (3F)4F
1741.4010	-4.932	50187.813	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	1782.7802	-0.235	85462.862	3.5	4D (5D)4G	91070.547	2.5	5P (5D)4F
1742.3427	-4.562	86416.333	3.5	4D (5D)4F	92154.165	3.5	4SP(5D)6F	1783.3861	-4.782	105414.180	2.5	4D (3F)4G	99808.400	3.5	4P (1G)2G
1742.9350	-4.474	102394.718	3.5	6S (5D)4D	108130.600	2.5	220DD	1783.4121	-4.473	99332.102	4.5	5S (3H)2H	104937.800	4.5	4SP(3I)4H
1744.4435	-0.836	83713.536	3.5	4D (5D)6D	89444.458	2.5	4SP(5P)6P	1783.9777	-2.420	86710.837	1.5	4D (5D)4F	92314.758	0.5	5P (5D)4P
1745.1990	-1.959	102842.119	4.5	5S (3G)4G	108570.560	4.5	4SP(3G)4G	1784.4633	-3.668	86416.333	3.5	4D (5D)4F	92314.758	0.5	4SP(5D)6F
1745.9235	-3.083	85172.809	0.5	4D (5D)4D	90898.873	1.5	4P (3P)4P	1785.3495	-3.009	85048.602	1.5	4D (5D)4D	90648.217	0.5	5P (5D)6F
1746.5393	-2.991	81639.260	2.5	D5S2(7S)2F	75915.215	2.5	4P (3D)2F	1785.6528	-4.885	84844.834	2.5	4D (5D)6G	79246.170	1.5	4SP(5S)6P
1746.7520	-3.409	99093.452	5.5	5S (3H)2H	104816.800	5.5	4SP(3I)4H	1786.5389	-0.201	85184.734	4.5	4D (5D)4G	90780.621	3.5	5P (5D)4F
1746.9700	-3.970	84870.863	2.5	4D (5D)4D	90593.497	1.5	5P (5D)6F	1788.3500	-0.600	85048.602	1.5	4D (5D)4D	90638.822	2.5	5P (5D)4D
1748.6775	-0.257	83136.487	3.5	4D (5D)6F	88853.533	3.5	5P (5D)6D	1788.4396	-0.809	84710.685	3.5	4D (5D)6G	90300.625	3.5	5P (5D)6F
1748.9788	-3.855	105524.461	4.5	4D (3F)4H	99808.400	3.5	4P (1G)2G	1789.4086	-1.048	83136.487	3.5	4D (5D)6F	88723.400	4.5	5P (5D)6D
1749.7374	-4.432	85495.304	2.5	4D (5D)6S	91208.887	1.5	5P (5D)4F	1789.7802	-4.366	84870.863	2.5	4D (5D)4D	90300.625	3.5	4SP(5S)6P
1750.6173	-0.278	84685.198	3.5	5P (5D)4D	90397.868	3.5	5P (5D)4D	1791.2081	-3.718	85048.602	1.5	4D (5D)4D	90629.902	1.5	4P (3P)4S
1750.6483	-4.681	100749.810	2.5	5S (3F)2F	95039.200	1.5	4P (3P)2P	1793.1541	-3.294	85495.304	2.5	4D (5D)6S	91070.547	2.5	5P (5D)4F
1750.8240	-0.329	100749.810	2.5	5S (3F)2F	95046.100	2.5	4P (3F)2F	1793.8478	-3.105	102394.718	3.5	6S (5D)4D	107964.700	4.5	210DD
1753.4978	-1.192	84685.198	3.5	4D (5D)4D	90386.528	4.5	5P (5D)4F	1796.1938	-3.119	99093.452	5.5	5S (3H)2H	104659.260	6.5	4SP(3I)4H
1753.6362	-4.941	99688.337	3.5	5S (3F)4F	90386.528	4.5	4SP(5D)6D	1797.7038	-4.042	78577.280	4.5	D5S2(7S)2G	73016.147	3.5	4P (1G)2F
1753.7095	-2.585	84938.180	1.5	4D (5D)6G	90638.822	2.5	5P (5D)4D	1800.3523	-4.037	85495.304	2.5	4D (5D)6S	91048.256	1.5	5P (5D)4D
1754.9852	-4.739	99332.102	4.5	5S (3H)2H	105028.600	3.5	4SP(3I)4H	1800.3523	-4.037	85495.304	2.5	4D (5D)6S	91048.256	1.5	5P (5D)4D
1756.4578	-3.172	84938.180	1.5	4D (5D)6G	90629.902	1.5	4P (3P)4S	1800.5028	-4.263	102334.112	2.5	6S (5D)4D	107886.600	3.5	200DD
1757.8597	-1.199	84710.685	3.5	4D (5D)6G	90397.868	3.5	5P (5D)4D	1800.9400	-4.880	57411.065	2.5	D5S2(7S)4P	62962.205	1.5	4P (3P)4D
1758.1778	-4.661	78185.030	3.5	D5S2(7S)2G	83871.184	4.5	4P (1F)2G	1801.4500	-1.882	84938.180	1.5	4D (5D)6G	90487.810	2.5	5P (5D)6F
1758.8682	-2.901	84527.778	4.5	4D (5D)6G	90211.700	5.5	4P (3F)4G	1801.5566	-1.705	103600.440	6.5	4D (3H)4H	109149.680	6.5	4SP(3I)2I
1759.0236	-4.399	78185.030	3.5	D5S2(7S)2G	83868.450	2.5	4P (1F)2D	1802.8240	-0.710	83308.194	2.5	4D (5D)6F	88853.533	3.5	5P (5D)6D
1759.0842	-3.764	88157.116	1.5	4D (5D)4P	93840.340	1.5	4SP(5D)6D	1802.9683	-2.900	85048.602	1.5	4D (5D)4D	90559.497	1.5	5P (5D)6F
1759.2396	-3.454	86599.738	2.5	4D (5D)4F	92282.460	3.5	4SP(5G)4F	1804.6177	-2.768	99688.337	3.5	5S (3F)4F	94148.510	4.5	4SP(5G)4G
1761.3718	-2.139	84710.685	3.5	4D (5D)6G	90386.528	4.5	5P (5D)4F	1804.7689	-3.607	84870.863	2.5	4D (5D)4D	90397.868	3.5	5P (5D)6F
1761.8253	-3.249	86599.738	2.5	4D (5D)4F	92274.120	2.5	4P (3F)4P	1806.5267	-2.739	57411.065	2.5	D5S2(7S)2G	62945.038	3.5	4P (3F)4D
1761.9865	-4.076	88157.116	1.5	4D (5D)4P	93830.979	2.5	4SP(5D)6D	1806.7941	-4.856	78185.030	3.5	D5S2(7S)2G	72651.876	3.5	4P (3D)4D
1762.3685	-0.819	85495.304	2.5	4D (5D)6S	91167.937	3.5	5P (5D)6P	1808.0898	-0.148	85679.698	2.5	4D (5D)4G	91208.887	1.5	4P (3D)4D
1762.7921	-3.182	103600.440	6.5	4D (3H)4H	109271.710	5.5	4SP(3I)2I	1808.8042	-0.801	84870.863	2.5	4D (5D)4D	90397.868	3.5	5P (5D)4F
1764.2227	-1.449	85172.809	0.5	4D (5D)4D	90839.480	0.5	4P (3F)4P	1810.0579	0.153	84863.351	5.5	4D (5D)4G	90386.528	4.5	5P (5D)4F
1765.4284	-4.305	103600.440	6.5	5S (3G)2G	109271.710	5.5	4SP(3I)2I	1811.0832	-2.325	103751.660	5.5	4D (3H)4H	109271.710	5.5	4SP(3I)2I
1765.8029	-4.701	103118.400	1.5	6S (5D)4D	108718.000	1.5	270DD	1811.4675	-0.647	83812.316	2.5	4D (5D)6D	89331.195	1.5	5P (5D)6D
1765.9916	-4.237	60270.339	3.5	D5S2(7S)4D	65931.334	3.5	4P (3G)4G	1812.7413	-3.800	84527.778	4.5	4D (5D)6G	90042.779	4.5	4P (3F)4G
1766.3686	-0.754	83459.670	1.5	4D (5D)6F	89119.457	2.5	5P (5D)6D	1812.9698	-4.254	103265.694	0.5	6S (5D)4D	108780.000	1.5	270DD
1767.7106	-3.854	105291.010	3.5	4D (3F)4G	99635.520	3.5	4SP(3G)2G	1815.8752	-3.668	86710.837	1.5	4D (5D)4F	92216.320	1.5	4P (3P)2D
1767.7647	-0.727	84938.180	1.5	4D (5D)6G	90593.497	1.5	5P (5D)6F	1817.0677	-4.043	105155.090	4.5	4D (3F)4G	99653.220	4.5	4SP(3G)2G
1767.9220	-3.993	58631.531	4.5	D6S (1G)2G	64286.345	3.5	4P (3F)2F	1819.5457	-2.160	84131.563	0.5	4D (5D)6D	89625.940	1.5	4SP(5P)6P
1769.0181	-3.491	88189.030	0.5	4D (5D)4P	93840.340	1.5	4SP(5D)6D	1820.3723	-4.454	102394.718	3.5	6S (5D)4D	107886.600	3.5	200DD
1770.1260	-2.568	86710.837	1.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F	1822.3045	-3.446	60445.275	2.5	D5S2(7S)4D	65931.334	3.5	4P (3G)4G
1771.6308	-0.656	84844.834	2.5	4D (5D)6G	90487.810	2.5	5P (5D)6F	1822.4271	-3.479	78577.280	4.5	D5S2(7S)2G	73091.590	4.5	4P (1G)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1822.7567	-2.875	99332.102	4.5	5S (3H)2H	104816.800	5.5	4SP(3I)4H	1872.1655	-4.103	103936.600	5.5	5D (5D)6F	98596.650	4.5	4SP(5D)4F
1823.4309	-3.890	105291.010	3.5	4D (3F)4G	99808.400	3.5	4P (1G)2G	1872.1655	-4.103	103936.600	5.5	5D (5D)6F	98596.650	4.5	4SP(5D)4F
1823.8860	-0.857	83990.063	1.5	4D (5D)6D	89471.365	0.5	5P (5D)6D	1875.2116	-3.741	103608.909	4.5	5S (3G)2G	98471.365	0.5	5P (5D)6D
1824.2924	-1.917	85728.806	1.5	4D (5D)4S	91208.887	1.5	5P (5D)4F	1876.2631	-4.736	102802.312	2.5	6S (5D)4D	108130.600	2.5	220DD
1824.9744	-1.174	83136.487	3.5	4D (5D)6F	88614.520	4.0	4P (5D)6F	1879.3805	-1.268	85462.862	1.5	4D (5D)4G	91048.256	1.5	5P (5D)4D
1825.6380	-4.340	102802.312	2.5	6S (5D)4D	97326.270	1.5	4SP(3P)2P	1879.9781	-0.806	85462.862	1.5	4D (5D)4G	91048.256	1.5	5P (5D)4D
1825.8494	-2.891	85172.809	0.5	4D (5D)4D	90648.217	0.5	5P (5D)6F	1880.5135	-3.406	83812.316	2.5	4D (5D)6D	89128.561	3.5	4SP(5P)6P
1827.3405	-2.183	85728.806	1.5	4D (5D)4S	91199.746	0.5	5P (5D)4D	1880.5252	-3.508	86599.738	2.5	4D (5D)4F	91915.950	1.5	4SP(5D)6F
1828.6203	-4.491	101698.489	4.5	6S (5D)6D	107165.600	3.5	170DD	1883.7394	-4.879	83812.316	2.5	4D (5D)6D	89119.457	2.5	5P (5D)6D
1829.3400	-4.899	104000.810	3.5	5D (5D)6F	98535.850	3.5	4SP(5D)4F	1883.9918	-4.434	105063.550	5.5	4D (3F)4G	99757.120	4.5	4P (1G)2G
1831.9172	-4.274	85172.809	0.5	4D (5D)4D	90629.902	1.5	4P (3P)4S	1886.6234	-0.595	84326.912	2.5	4D (5D)6P	89625.940	1.5	4SP(5P)6P
1832.4144	-2.037	84844.834	2.5	4D (5D)6G	90300.625	3.5	5P (5D)6F	1888.4495	-3.298	78577.280	4.5	D5S2(7S)2G	83871.184	4.5	4P (1F)2G
1832.8834	-2.203	83990.063	1.5	4D (5D)6D	105028.600	3.5	5P (3F)4F	1891.2944	-4.650	60270.339	3.5	D5S2(7S)4D	65556.280	4.5	4P (3H)2H
1835.7358	-4.144	100492.020	3.5	5S (3F)2F	89444.458	2.5	4SP(5P)6P	1891.5177	-3.640	85495.304	2.5	4D (5D)6S	90780.621	3.5	5P (5D)4F
1838.0011	-1.688	85048.602	1.5	4D (5D)4D	95046.100	2.5	4P (3F)2F	1893.8475	-4.424	57411.065	2.5	D5S2(7S)4F	62699.880	2.5	4P (3P)4D
1838.3208	-1.669	85462.862	3.5	4D (5D)4G	90487.810	2.5	5P (5D)6F	1896.5330	-1.057	103878.340	7.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I
1838.7854	-4.128	102802.312	2.5	6S (5D)4D	90901.124	2.5	5P (5D)4P	1900.5961	-3.932	103608.909	4.5	5S (3G)2G	108868.980	4.5	4SP(3G)4H
1839.7579	-4.101	50187.813	3.5	D6S (3F)4F	108239.200	3.5	240DD	1901.0331	-4.782	99332.102	4.5	5S (3H)2H	94073.240	3.5	4SP(5G)4G
1839.7654	-3.714	78577.280	4.5	D5S2(7S)2G	44753.799	3.5	4P (5D)4F	1903.0458	-4.138	103118.400	1.5	6S (5D)4D	108371.700	1.5	250DD
1841.1986	-1.043	84870.863	2.5	4D (5D)4D	73143.288	3.5	4P (1G)2G	1904.4368	-2.747	99688.337	3.5	5S (3F)4F	104937.800	4.5	4SP(3I)4H
1842.5174	-2.855	60270.339	3.5	D5S2(7S)4D	90300.625	3.5	5P (5D)6F	1906.5182	-3.882	86599.738	2.5	4D (5D)4F	91843.470	1.5	5P (5D)6P
1842.6195	-4.460	84710.685	3.5	4D (5D)6G	65696.038	4.5	4P (3G)4G	1906.5753	-3.050	99373.225	4.5	5S (3F)4F	104816.800	5.5	4SP(3I)4H
1842.9116	-3.398	99573.225	4.5	5S (3F)4F	79285.110	2.5	4SP(5S)6P	1911.2415	-1.081	82978.677	4.5	4D (5D)6F	80420.450	3.5	4SP(5P)6D
1844.1201	-4.389	58666.258	3.5	D6S (1G)2G	94148.510	4.5	4SP(5G)4G	1914.6629	-2.042	85679.698	2.5	4D (5D)4G	90901.124	2.5	5P (5D)4P
1844.8882	-3.533	85172.809	0.5	4D (5D)4D	64087.418	2.5	4P (3F)4G	1916.0746	-4.236	103608.909	4.5	5S (3G)2G	98391.330	3.5	4SP(5D)4D
1845.6743	-4.790	108648.695	6.5	5S (1I)2I	90593.497	1.5	5P (5D)6F	1917.7083	-0.577	85184.734	4.5	4D (5D)4G	90397.868	3.5	5P (5D)4D
1846.2094	-0.820	83713.536	3.5	4D (5D)6D	92018.729	2.5	4SP(5D)6F	1919.2782	-2.767	103600.440	6.5	4D (3H)4I	108809.310	5.5	4SP(3G)4H
1846.3066	-4.994	103950.590	4.5	5D (5D)6F	103232.100	7.5	4SP(3I)4I	1919.9527	-1.536	104064.670	6.5	4D (3H)4I	109271.710	5.5	4SP(3I)2I
1847.1117	-3.589	100492.020	3.5	5S (3F)2F	89128.561	3.5	4SP(5P)6P	1920.8454	-4.137	73637.340	1.5	D5S2(7S)4F	705028.600	3.5	4SP(1D)2P
1848.1446	-4.482	58631.531	4.5	D6S (1G)2G	98535.850	3.5	4SP(5D)4F	1920.8694	-3.031	99824.045	2.5	5S (3F)4F	105028.600	3.5	4SP(1D)2P
1849.3186	-0.558	83713.536	3.5	4D (5D)6D	95079.640	3.5	4P (3F)2F	1921.0758	-0.068	84863.351	5.5	4D (5D)4G	90067.347	4.5	5P (5D)6F
1850.0948	-4.731	50157.452	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	1921.8890	-0.753	85184.734	4.5	4D (5D)4G	90386.528	4.5	5P (5D)4F
1850.1235	-3.354	85495.304	2.5	4D (5D)6S	89119.457	2.5	5P (5D)6D	1921.9717	-1.268	84424.370	1.5	4D (5D)6P	89625.940	1.5	4SP(5P)6P
1850.5934	-0.144	83728.364	4.5	4D (5D)6D	90901.124	2.5	5P (5D)4P	1922.4038	-3.328	103608.909	4.5	5S (3G)2G	108809.310	5.5	4SP(3G)4H
1851.3162	-2.651	84685.198	3.5	4D (5D)4D	44753.799	3.5	4P (3P)4F	1922.6881	-0.753	84131.563	0.5	4D (5D)6D	89331.195	1.5	5P (5D)6D
1852.0254	-2.204	103751.660	5.5	4D (3H)4H	90988.873	1.5	4P (3P)4F	1923.0583	-3.509	73492.215	3.5	D5S2(7S)4F	78690.846	2.5	4P (1D)2D
1852.0426	-3.642	105155.090	4.5	4D (3F)4G	89128.561	3.5	4SP(5P)6P	1923.9291	-4.397	81734.750	3.5	D5S2(7S)2F	86929.649	3.5	4P (3P)4D
1852.5824	-2.405	84527.778	4.5	4D (5D)6G	79285.110	2.5	4SP(5S)6P	1924.4398	-3.994	81734.750	3.5	D5S2(7S)2F	86929.649	3.5	4P (3P)4D
1854.4890	-0.950	85679.698	2.5	4D (5D)4G	109149.680	6.5	4SP(3I)2I	1928.6376	-3.628	99332.102	4.5	5S (3H)2H	94148.510	4.5	4SP(5G)4G
1855.0262	-3.840	102802.312	2.5	6S (5D)4D	99757.120	4.5	4P (1G)2G	1930.1990	-4.789	84710.685	3.5	4D (5D)6G	89890.373	3.5	4P (3F)4G
1855.1298	-4.815	50142.786	2.5	D6S (3F)4F	108239.200	3.5	240DD	1930.1882	-4.100	84863.351	5.5	4D (5D)4G	90042.779	4.5	4P (3F)4G
1857.4867	-1.376	84685.198	3.5	4D (5D)4D	89924.175	5.5	5P (5D)6F	1930.1990	-4.658	99918.569	1.5	5S (3F)4F	94739.170	1.5	4SP(5P)4P
1857.8770	-1.174	84685.198	3.5	4D (5D)4D	91070.547	2.5	5P (5D)4F	1930.6459	-1.914	84424.370	1.5	4D (5D)6P	79246.170	1.5	4SP(5S)6P
1858.3195	-2.427	102584.963	5.5	5S (3G)4G	108191.600	1.5	230DD	1930.7570	-0.372	84266.556	3.5	4D (5D)6P	89444.458	2.5	4SP(5P)6P
1862.1891	-0.783	85679.698	2.5	4D (5D)4G	44753.799	3.5	4P (5D)4F	1931.4814	-0.436	85462.862	3.5	4D (5D)4G	90638.822	2.5	5P (5D)4D
1863.5717	-3.103	99573.225	4.5	5S (3F)4F	94189.880	5.5	4P (5D)6F	1932.8415	-0.721	85728.806	1.5	4D (5D)4S	90901.124	2.5	5P (5D)4P
1864.2598	-4.028	84527.778	4.5	4D (5D)6G	90067.347	4.5	5P (5D)6F	1933.6830	-0.795	85728.806	1.5	4D (5D)4S	90901.124	2.5	5P (5D)4P
1866.3247	-2.187	84710.685	3.5	4D (5D)6G	107964.700	4.5	210DD	1934.1259	-4.809	78185.030	3.5	D5S2(7S)2G	73016.147	3.5	4P (1G)2F
1867.2735	-4.625	103950.590	4.5	5D (5D)4D	91048.256	1.5	5P (5D)4D	1935.4721	-3.836	102030.912	3.5	6S (5D)6D	107196.200	2.5	180DD
1867.3579	-2.950	84685.198	3.5	4D (5D)4D	104937.800	4.5	4SP(3I)4H	1935.4721	-3.836	102030.912	3.5	6S (5D)6D	107196.200	2.5	180DD
1869.2255	-3.267	84863.351	5.5	4D (5D)4G	89890.373	3.5	4P (3F)4G	1941.3797	-4.961	104630.430	4.5	6S (5D)6D	107860.200	3.5	150DD
1871.5378	-0.795	85728.806	1.5	4D (5D)4S	90067.347	4.5	5P (5D)6F	1943.3791	-4.475	87985.628	2.5	4D (5D)4P	93129.900	3.5	4P (3F)4D
1871.7512	-1.669	83990.063	1.5	4D (5D)6D	98596.650	4.5	4SP(5D)4F	1943.6640	-3.690	85495.304	2.5	4D (5D)6S	90638.822	2.5	5P (5D)4D
1872.0588	-3.371	99688.337	3.5	5S (3F)4F	79331.500	3.5	4SP(5S)6P	1944.1538	-3.143	99332.102	4.5	5S (3H)2H	94189.880	5.5	4SP(5G)4G
					90211.700	5.5	4P (3F)4G	1944.9954	-1.000	83713.536	3.5	4D (5D)6D	88853.533	3.5	5P (5D)6D
					91070.547	2.5	5P (5D)4F	1945.0378	-3.577	86710.837	1.5	4D (5D)4F	91850.722	0.5	4SP(5D)6F
					89331.195	1.5	5P (5D)6D	1945.2744	-2.048	84424.370	1.5	4D (5D)6P	79285.110	2.5	4SP(5S)6P
					105028.600	3.5	4SP(3I)4H	1945.3898	-4.774	99824.045	2.5	5S (3F)4F	94685.090	2.5	4SP(5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1947.0065	-4.171	102030.912	3.5	6S (5D)6D	107165.600	3.5	170DD	2003.1524	-3.660	98130.131	6.5	5S (3H)4H	103120.900	6.5	4SP(3I)4I
1947.0406	-2.701	85495.304	2.5	4D (5D)6S	90629.402	1.5	4P (3P)4S	2006.9014	-1.596	84266.556	3.5	4D (5D)6P	79285.110	2.5	4SP(5S)6P
1947.7860	-4.711	86710.837	1.5	4D (5D)4F	91843.470	1.5	5P (5D)6F	2008.4924	-0.291	103751.660	5.5	4D (3H)4H	108729.160	6.5	4SP(3G)4H
1948.7291	-3.444	78185.030	3.5	D5S2(7S)2G	73054.881	2.5	4P (1G)2F	2009.3361	-4.172	104174.270	5.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I
1949.0159	-0.524	83990.063	1.5	4D (5D)6D	89119.457	2.5	5P (5D)6D	2009.9946	-3.001	78577.280	4.5	D5S2(7S)2G	73603.500	5.5	4P (1I)2H
1949.2721	0.037	103600.440	6.5	4D (3H)4H	108729.160	6.5	4SP(3G)4H	2014.9081	-3.691	103608.909	4.5	5S (3G)2G	108570.560	4.5	4SP(3G)4G
1949.4253	-4.161	81639.260	2.5	D5S2(7S)2F	86767.577	2.5	4P (3P)4D	2015.9349	-1.306	85679.698	2.5	5P (5D)4D	90638.822	2.5	5P (5D)4D
1949.8617	-1.075	83726.364	4.5	4D (5D)6D	88853.533	3.5	5P (5D)6D	2017.0672	-0.621	104315.370	6.5	4D (3H)2K	109271.710	5.5	4SP(3I)2I
1951.6081	-4.520	102842.119	4.5	5S (3G)4G	107964.700	4.5	210DD	2019.5165	-4.241	85679.698	2.5	4D (5D)4G	90629.902	1.5	4P (3P)4S
1953.5283	-2.939	78185.030	3.5	D5S2(7S)2G	83305.251	3.5	4P (1F)2G	2021.7165	-4.030	99093.452	5.5	5S (3H)2H	94148.510	4.5	4SP(5G)4G
1953.6145	-2.986	84326.912	2.5	4D (5D)6F	89444.458	2.5	4SP(5P)6F	2025.7665	-2.015	84266.556	3.5	4D (5D)6P	79331.500	3.5	4SP(5S)6P
1953.6285	-4.453	103751.660	5.5	4D (3H)4H	108868.980	4.5	4SP(3G)4H	2025.7870	-1.636	85462.862	3.5	4D (5D)4G	90397.868	3.5	5P (5D)4D
1954.1602	-0.168	85184.734	4.5	4D (5D)4G	90300.625	3.5	5P (5D)6F	2028.9083	-3.965	103665.694	0.5	6S (5D)4D	98338.280	1.5	4SP(5P)4S
1956.1550	-1.470	85728.806	1.5	4D (5D)4G	90839.480	0.5	4P (3P)4F	2029.8541	-4.961	99688.337	3.5	5S (3F)4F	94763.219	3.5	4SP(5D)6P
1957.2044	-4.698	50187.813	3.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2030.4527	-2.361	85462.862	3.5	4D (5D)4G	90386.528	4.5	5P (5D)4F
1957.8268	-4.980	104863.430	5.5	5D (5D)4G	99757.120	4.5	4P (1G)2G	2030.6738	-4.025	103983.510	3.5	5S (3G)2G	108906.640	3.5	4SP(3G)4H
1957.9434	-3.709	103265.694	0.5	6S (5D)4D	108371.700	1.5	250DD	2030.7715	-1.798	83136.487	3.5	4D (5D)6F	88059.380	2.5	4SP(5P)6D
1959.4926	-1.514	98130.131	6.5	5S (3H)4H	103232.100	7.5	4SP(3I)4I	2030.9749	-3.779	103118.400	1.5	6S (5D)4D	98196.000	1.5	4SP(5D)4F
1959.8945	-2.273	85679.698	2.5	4D (5D)4G	90780.621	3.5	5P (5D)4F	2034.5299	-1.437	85679.698	2.5	4D (5D)4G	90593.497	1.5	5P (5D)6F
1960.0532	-3.055	77230.900	4.5	D5S2(7S)2H	77130.390	4.5	4P (1G)2H	2034.5299	-1.437	85679.698	2.5	4D (5D)4G	90593.497	1.5	5P (5D)6F
1960.9440	-3.928	85495.304	2.5	4D (5D)6S	90593.497	1.5	5P (5D)6F	2036.0974	-1.112	87928.806	1.5	4D (5D)4S	90638.822	2.5	5P (5D)4D
1961.2336	-1.952	104174.270	5.5	4D (3H)4I	109271.710	5.5	4SP(3I)2I	2036.8383	-3.267	81639.260	2.5	D5S2(7S)2F	86547.490	2.5	4P (1F)2F
1963.6285	-4.453	73395.930	2.5	D5S2(7S)4F	78487.153	1.5	4P (1D)2D	2037.4216	-0.943	84424.370	1.5	4D (5D)6P	89331.195	1.5	5P (5D)6D
1966.0278	-1.763	104064.670	6.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I	2038.7732	-4.243	99093.452	5.5	5S (3H)2H	94189.880	5.5	4SP(5G)4G
1966.0799	-4.182	99824.045	2.5	5S (3F)4F	94739.170	1.5	4SP(5P)4F	2039.1924	-4.990	85495.304	2.5	4D (5D)6S	90397.868	3.5	5P (5D)4D
1966.1089	-4.318	103983.510	3.5	5S (3G)2G	98898.710	3.5	4P (1G)2F	2039.7366	-2.231	83308.194	2.5	4D (5D)6F	88209.450	3.5	4SP(5P)6D
1966.3069	-3.114	102802.312	2.5	6S (5D)4D	107886.600	3.5	200DD	2039.8031	-3.846	85728.806	1.5	4D (5D)4S	90629.902	1.5	4P (3P)4S
1967.6793	-1.871	84326.912	2.5	4D (5D)6P	79246.170	1.5	4SP(5S)6P	2039.8498	-0.812	83713.536	3.5	4D (5D)6D	88614.520	4.5	4SP(5P)6S
1970.6045	-4.469	103118.400	1.5	6S (5D)4D	108191.600	1.5	230DD	2044.1600	-4.728	105291.010	3.5	4D (3F)4G	100400.360	2.5	4SP(3P)2D
1970.6593	-3.968	103608.909	4.5	5S (3G)2G	98535.850	3.5	4SP(5D)4F	2045.2032	-0.556	83726.364	4.5	4D (5D)6D	88614.520	4.5	4SP(5P)6D
1970.6966	-1.480	83136.487	3.5	4D (5D)6F	88209.450	3.5	4SP(5P)6D	2046.3274	-4.165	103983.510	3.5	5S (3G)2G	108868.980	4.5	4SP(3G)4H
1971.9673	-3.225	103265.694	0.5	6S (5D)4D	98196.000	1.5	4SP(5D)4F	2046.3596	-2.299	84131.563	0.5	4D (5D)6D	79246.170	1.5	4SP(5S)6P
1974.6108	-4.270	50142.786	2.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2047.1822	-0.555	103600.440	6.5	4D (3H)4H	108483.870	5.5	4SP(3G)4G
1975.4235	-2.875	84863.351	5.5	4D (5D)4G	89924.175	5.5	5P (5D)6F	2047.5248	-0.997	85184.734	4.5	4D (5D)4G	90067.347	4.5	5P (5D)6F
1976.6632	-0.753	103751.660	5.5	4D (3H)4H	108809.310	5.5	4SP(3G)4H	2050.7387	-3.772	103608.909	4.5	5S (3F)4F	95046.100	2.5	4P (3F)2F
1979.9191	-4.873	105449.540	3.5	5D (5D)4G	100400.360	2.5	4SP(3P)2D	2051.7875	-4.331	99918.569	1.5	5S (3F)4F	95046.100	2.5	4P (3F)2F
1980.8363	-0.840	84424.370	1.5	4D (5D)6P	89471.365	0.5	5P (5D)6D	2056.1683	-3.883	102334.112	2.5	6S (5D)6D	107196.200	2.5	180DD
1981.8235	-2.502	102842.119	4.5	5S (3G)4G	107886.600	3.5	200DD	2056.2034	-0.588	84266.556	3.5	4D (5D)6P	89128.561	3.5	4SP(5P)6P
1982.1555	-2.886	86124.301	4.5	4D (5D)4F	91167.937	3.5	5P (5D)6P	2060.0251	-4.857	50142.786	2.5	D6S (3F)4F	45289.801	1.5	4P (5D)4F
1982.865	-2.735	84326.912	2.5	4D (5D)6P	79285.110	2.5	4SP(5S)6P	2060.0608	-1.858	84266.556	3.5	4D (5D)6P	89119.457	2.5	5P (5D)6D
1982.9001	-3.715	78185.030	3.5	D5S2(7S)2G	73143.288	3.5	4P (1G)2G	2060.9446	-0.085	103878.340	7.5	4D (3H)4I	108729.160	6.5	4SP(3G)4H
1983.1066	-0.473	83812.316	2.5	4D (5D)6D	88853.533	3.5	5P (5D)6D	2061.3725	-4.534	73637.340	1.5	D5S2(7S)4F	78487.153	1.5	4P (1D)2D
1984.4403	-4.660	99918.569	1.5	5S (3F)4F	94880.740	0.5	4SP(5P)4F	2064.0635	-4.853	81639.260	2.5	D5S2(7S)2F	86482.750	3.5	4P (1F)2F
1986.4126	-4.466	81734.750	3.5	D5S2(7S)2F	86767.577	2.5	4P (3P)4D	2066.5070	-0.918	85462.862	3.5	4D (5D)4G	90300.625	3.5	5P (5D)6F
1987.5409	-0.382	104119.710	7.5	4D (3H)2K	109149.680	6.5	4SP(3I)2I	2067.9831	-1.430	104315.370	6.5	4D (3H)2K	109149.680	6.5	4SP(3I)2I
1988.7286	-4.623	85184.734	4.5	4D (5D)4G	90211.700	5.5	4P (3F)4G	2068.7037	-4.751	79439.467	3.5	5S (5D)4D	74606.841	2.5	4P (3D)2D
1989.5272	-0.687	85462.862	3.5	4D (5D)4G	90487.810	2.5	5P (5D)6F	2068.8484	-3.478	102030.912	3.5	6S (5D)6D	106863.200	3.5	160DD
1990.6234	-4.348	103608.909	4.5	5S (3G)2G	108631.090	3.5	4SP(3G)4G	2069.1909	-4.489	102334.112	2.5	6S (5D)6D	107165.600	3.5	170DD
1991.4533	-1.190	84424.370	1.5	4D (5D)6P	89444.458	2.5	4SP(5P)6P	2071.3298	-1.609	98294.401	5.5	5S (3H)4H	103120.900	6.5	4SP(3I)4I
1992.8153	-4.967	84710.685	3.5	4D (5D)6G	89727.342	2.5	4P (3F)4G	2071.5448	-4.307	78577.280	4.5	D5S2(7S)2G	73751.282	4.5	4P (1I)2H
1994.5874	-3.681	103118.400	1.5	6S (5D)4D	108130.600	2.5	220DD	2074.5961	-1.564	103751.660	5.5	4D (3H)4H	108570.560	4.5	4SP(3G)4G
1995.5174	-0.931	83713.536	3.5	4D (5D)6D	88723.400	4.5	5P (5D)6D	2077.2515	-4.349	81734.750	3.5	D5S2(7S)2F	86547.490	2.5	4P (1F)2F
1997.7429	-1.072	84326.912	2.5	4D (5D)6P	89331.195	1.5	5P (5D)6D	2078.4322	-4.209	99573.225	4.5	5S (3F)4F	94763.219	3.5	4SP(5D)6P
1998.1566	-4.120	99688.337	3.5	5S (3F)4F	94685.090	2.5	4SP(5D)6P	2079.2509	-1.418	85679.698	2.5	4D (5D)4G	90487.810	2.5	5P (5D)6F
2000.6402	-0.835	83726.364	4.5	4D (5D)6D	88723.400	4.5	5P (5D)6D	2080.4586	-3.923	85495.304	2.5	4D (5D)6S	90300.625	3.5	5P (5D)6F
2001.0426	-4.939	50075.910	1.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2082.0496	-1.923	84326.912	2.5	4D (5D)6P	89128.561	3.5	4SP(5P)6P
2001.2906	-1.871	84326.912	2.5	4D (5D)6P	79331.500	3.5	4SP(5S)6P	2082.1220	-4.488	102394.718	3.5	6S (5D)4D	107196.200	2.5	180DD
2002.4555	-3.685	85495.304	2.5	4D (5D)6S	90487.810	2.5	5P (5D)6F								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2085.8098	-4.354	50075.910	1.5	D6S (3F)4F	45289.800	1.5	4P (5D)4F	2192.8470	-2.812	82978.677	4.5	4D (5D)6F	87537.652	3.5	4SP(5C)6F
2090.9255	-3.611	84844.834	2.5	4D (5D)6G	89625.940	1.5	4SP(5P)6P	2194.8877	-3.336	104174.270	5.5	4D (3H)4I	108729.160	6.5	4SP(3C)4H
2091.4268	-4.168	103118.400	1.5	6S (5D)4D	98338.280	1.5	4SP(5P)4S	2197.3426	-4.541	105230.290	0.5	5D (5D)4D	109780.000	1.5	280DD
2097.9804	-4.221	98568.912	3.5	5S (3H)4H	103334.100	2.5	4SP(3D)2F	2203.5183	-4.079	100492.020	3.5	5S (3F)2F	105028.600	3.5	4SP(3I)4H
2098.1112	-4.343	103608.909	4.5	5S (3G)2G	108373.800	3.5	260DD	2204.5186	-1.695	98445.400	1.5	5S (3H)4H	102980.300	5.5	4SP(3I)4I
2098.6182	-2.744	103118.400	1.5	6S (5D)4D	98354.660	2.5	4SP(5D)4F	2205.3527	-4.291	84938.180	4.5	4D (5D)6G	89471.365	0.5	5P (5D)6D
2100.5936	-1.615	84685.198	3.5	4D (5D)4D	89444.458	2.5	4SP(5P)6P	2207.3476	-4.208	102334.112	2.5	6S (5D)6D	106863.200	3.5	160DD
2100.7066	-3.378	85728.806	1.5	4D (5D)4S	90487.810	2.5	5P (5D)6F	2208.2652	-2.189	83812.316	2.5	4D (5D)6D	79285.110	2.5	4SP(5S)6P
2102.4415	-2.677	84870.863	2.5	4D (5D)4S	89625.940	1.5	4SP(5P)6P	2208.5506	-1.283	84326.912	2.5	4D (5D)6P	88853.533	3.5	5P (5D)6D
2103.9782	-4.791	86416.333	3.5	4D (5D)4F	91167.937	3.5	5P (5D)6P	2218.6085	-3.147	98445.400	4.5	5S (3H)4H	102951.500	4.5	4SP(3I)4I
2104.1633	-2.745	83308.194	2.5	4D (5D)6F	88059.380	2.5	4SP(5P)6D	2222.5790	-0.620	86710.837	1.5	4D (5D)4F	91208.887	1.5	5P (5D)4F
2105.5752	-3.102	81734.750	3.5	D5S2(7S)2F	86482.720	3.5	4P (1F)2F	2223.4293	-4.608	100492.020	3.5	5S (3F)2F	95959.690	2.5	4SP(5P)4D
2107.0664	-0.245	104064.670	6.5	4D (3H)4I	108809.310	5.5	4SP(3G)4H	2223.6350	-1.333	83713.536	3.5	4D (5D)6D	88209.450	3.5	4SP(5P)6D
2107.1707	-4.474	99824.045	2.5	5S (3F)4F	95079.640	3.5	4P (3F)2F	2223.7547	-4.103	98568.912	3.5	5S (3H)4H	94073.240	3.5	4SP(5G)4G
2107.3981	-2.770	83990.063	1.5	4D (5D)6D	79246.170	1.5	4SP(5S)6P	2223.8130	-3.287	103265.694	0.5	6S (5D)4D	98770.140	1.5	4SP(5D)4D
2107.5199	-4.545	73393.745	4.5	D5S2(7S)4F	78137.364	3.5	4P (1D)2F	2224.6117	-2.315	104315.370	6.5	4D (3H)2K	108809.310	5.5	4SP(3C)4H
2108.9083	-4.930	57411.065	2.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F	2225.0336	-0.996	82978.677	4.5	4D (5D)6F	87471.765	4.5	4SP(5C)6F
2109.3777	-4.301	85184.734	4.5	4D (5D)4G	89924.175	5.5	5P (5D)6F	2226.3685	-3.715	88157.116	1.5	4D (5D)4P	92647.510	1.5	4P (3F)4D
2109.8857	-4.429	98445.400	4.5	5S (3H)4H	103183.700	3.5	4SP(3D)2F	2227.1050	-0.523	86710.837	1.5	4D (5D)4F	91199.746	0.5	5P (5D)4D
2111.9034	-3.073	84710.685	3.5	4D (5D)6G	89444.458	2.5	4SP(5P)6P	2227.8912	-0.912	82853.658	5.5	4D (5D)6F	87340.983	5.5	4SP(5G)6F
2112.6009	-0.430	103751.660	5.5	4D (3H)4H	108483.870	5.5	4SP(3G)4G	2228.3699	-3.687	84844.834	2.5	4D (5D)6G	89331.195	1.5	5P (5D)6D
2114.4951	-3.917	78577.280	4.5	D5S2(7S)2G	83305.251	3.5	4P (1F)2G	2229.1500	-0.249	86416.333	3.5	4D (5D)4F	90901.124	2.5	5P (5D)4P
2114.7460	-4.959	105127.770	2.5	5D (5D)4D	100400.360	2.5	4SP(3F)2D	2229.9977	-2.478	83726.364	4.5	4D (5D)6D	88209.450	3.5	4SP(5P)6D
2117.5864	-2.077	98130.131	6.5	5S (3H)4H	102851.200	7.5	4SP(3I)4K	2231.1275	-1.974	83812.316	2.5	4D (5D)6D	79331.500	3.5	4SP(5S)6P
2118.8875	-3.398	85679.698	2.5	4D (5D)4G	90397.868	3.5	5P (5D)4D	2236.1214	-1.235	86599.738	2.5	4D (5D)4F	91070.547	2.5	5P (5D)4F
2120.5212	-4.249	57411.065	2.5	D5S2(7S)4F	62125.600	1.5	4P (3P)2D	2236.3660	-2.523	100749.810	2.5	5S (3F)2F	96729.490	2.5	4SP(3C)2F
2122.4732	-3.618	103608.909	4.5	5S (3G)2G	98898.710	3.5	4P (1G)2F	2239.5161	-4.344	102802.312	2.5	6S (5D)4D	98338.280	1.5	4SP(5P)4S
2124.8398	-2.034	83990.063	1.5	4D (5D)6D	79285.110	2.5	4SP(5S)6P	2243.1280	-1.807	84266.556	3.5	4D (5D)6P	88723.400	4.5	5P (5D)6D
2129.3048	-1.616	84424.370	1.5	4D (5D)6P	89119.457	2.5	5P (5D)6D	2246.1797	-3.968	102842.119	4.5	5S (3G)4G	98391.330	3.5	4SP(5D)4D
2132.6329	-4.682	84938.180	1.5	4D (5D)6G	89625.940	1.5	4SP(5P)6P	2247.7639	-3.398	102802.312	2.5	6S (5D)4D	98354.660	2.5	4SP(5D)4F
2133.4799	-3.207	98294.401	5.5	5S (3H)4H	102980.300	6.5	4SP(3I)4I	2248.7104	-3.924	100492.020	3.5	5S (3F)2F	89128.561	3.5	4SP(3I)4H
2143.2721	-2.672	104064.670	6.5	4D (3H)4I	108729.160	5.5	4SP(3G)4H	2249.9336	-1.790	84685.198	3.5	4D (5D)4D	88723.400	4.5	4SP(5P)6P
2144.4711	-3.675	87985.628	2.5	4D (5D)4P	92647.510	1.5	4P (3F)4D	2252.4241	-2.323	83459.670	1.5	4D (5D)6F	87898.120	0.5	4SP(5C)6F
2146.1478	-4.587	57493.321	1.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F	2254.5530	-4.080	84685.198	3.5	4D (5D)4D	89119.457	2.5	5P (5D)6D
2146.9700	-2.128	83308.194	2.5	4D (5D)6F	87964.650	1.5	4SP(5P)6D	2254.8128	-3.050	78185.030	3.5	D5S2(7S)2G	73751.282	4.5	4P (1I)2H
2147.0327	-0.116	86124.301	4.5	4D (5D)4F	90780.621	3.5	5P (5D)4F	2257.5226	-3.250	83713.536	3.5	4D (5D)6D	79285.110	2.5	4SP(5S)6P
2147.8926	-3.889	57411.065	2.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	2258.4691	-2.046	84296.830	5.5	4D (5D)6G	88723.400	4.5	5P (5D)6D
2148.0042	-0.648	86416.333	3.5	4D (5D)4F	91070.547	2.5	5P (5D)4F	2260.4132	-4.996	85048.602	1.5	4D (5D)4D	89471.365	0.5	5P (5D)6D
2148.7716	-4.110	102543.648	1.5	6S (5D)6D	107196.200	2.5	4SP(3C)4G	2261.6205	-1.140	104064.670	6.5	4D (3H)4I	108483.870	5.5	4SP(5P)6P
2151.9223	-4.724	103983.510	3.5	5S (3G)2G	108629.250	2.5	4SP(3G)4G	2262.9136	-4.832	84710.685	3.5	4D (5D)6G	89128.561	3.5	4SP(5P)6P
2152.1961	-3.348	73492.215	3.5	D5S2(7S)4F	78137.364	3.5	4P (1D)2F	2263.2855	-4.609	104174.270	5.5	4D (3H)4I	99757.120	4.5	4P (1G)2G
2156.8900	-2.880	104174.270	5.5	4D (3H)4I	108809.310	5.5	4SP(3G)4H	2263.4085	-3.320	104315.370	6.5	4D (3H)2K	108729.160	6.5	4SP(3G)4H
2163.4775	-2.465	85679.698	2.5	4D (5D)4G	90300.325	3.5	5P (5D)6F	2265.0085	-3.397	102802.312	2.5	6S (5D)4D	98391.330	3.5	4SP(5D)4D
2164.7986	-2.174	82853.658	5.5	4D (5D)6F	87471.765	4.5	4SP(5G)6F	2266.4504	-3.397	102802.312	2.5	6S (5D)4D	98391.330	3.5	4SP(5D)4D
2167.0543	-4.832	103118.400	1.5	6S (5D)4D	98505.100	2.5	4SP(5D)4D	2267.5865	-3.816	83710.685	3.5	4D (5D)6G	89119.457	2.5	5P (5D)6D
2168.8643	-1.351	104119.710	7.5	4D (3H)2K	108729.160	6.5	4SP(3G)4H	2268.9565	-3.033	83558.540	0.5	4D (5D)6F	87964.650	1.5	4SP(5P)6D
2169.0059	-2.008	86599.738	2.5	4D (5D)4F	91208.887	1.5	5P (5D)4F	2271.5058	-1.213	83136.487	3.5	4D (5D)6F	87537.652	3.5	4SP(5C)6F
2171.2030	-2.593	85462.862	3.5	4D (5D)4G	90067.347	4.5	5P (5D)6F	2273.5882	-1.310	83812.316	2.5	4D (5D)6D	88209.450	3.5	4SP(5P)6D
2172.9500	-2.725	84527.778	4.5	4D (5D)6G	89128.561	3.5	4SP(5P)6P	2274.0246	-1.142	104174.270	5.5	4D (3H)4I	108570.560	4.5	4SP(3G)4G
2173.4569	-4.191	83459.670	1.5	4D (5D)6F	88059.380	2.5	4SP(5P)6D	2274.7625	-1.697	83726.364	4.5	4D (5D)6D	79331.500	3.5	4SP(5S)6P
2173.9455	-4.262	103983.510	3.5	5S (3G)2G	108570.560	4.5	4SP(3G)4G	2275.8054	-3.827	100749.810	2.5	5S (3F)2F	96356.960	3.5	4SP(3C)2F
2179.4902	-1.641	84266.556	3.5	4D (5D)6P	88853.533	3.5	5P (5D)6D	2277.1324	-4.171	103983.510	3.5	5S (3G)2G	108570.560	4.5	4SP(3G)4G
2182.4568	-2.506	98568.912	3.5	5S (3H)4H	93988.170	2.5	4SP(5G)4G	2277.9066	-4.561	60445.275	2.5	D5S2(7S)4D	64834.073	1.5	4P (3P)2P
2184.0798	-4.216	85048.602	1.5	4D (5D)4D	89625.940	1.5	4SP(5P)6P	2281.1343	-1.753	98368.912	3.5	5S (3H)4H	102951.500	4.5	4SP(3I)4I
2188.1216	-4.629	99332.102	4.5	5S (3H)2H	94763.219	3.5	4SP(5D)6P	2281.4216	-1.693	83713.536	3.5	4D (5D)6D	79331.500	3.5	4SP(5S)6P
2190.7751	-4.959	102842.119	4.5	5S (3G)4G	98278.770	5.5	4P (1G)2H	2286.1452	-4.469	87985.628	2.5	4D (5D)4P	92358.610	1.5	4SP(5G)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2286.5750	-2.393	98445.400	4.5	5S (3H)4H	94073.240	3.5	4SP(5G)4G	2372.9355	-3.061	103751.660	5.5	4D (3H)4H	107964.700	4.5	210DD
2289.8956	-2.780	105414.180	2.5	4D (3F)4G	109780.000	1.5	280DD	2373.2227	-3.468	100492.020	3.5	5S (3F)2F	96279.490	2.5	4SP(3G)2F
2290.6994	-1.409	86416.333	3.5	6S (5D)4F	90780.620	3.5	5P (5D)4F	2375.6872	-1.775	105063.550	5.5	4D (3F)4G	109271.710	5.5	4SP(3I)2I
2291.2244	-4.754	102802.312	2.5	4D (5D)4D	107165.600	3.5	170DD	2377.2645	-4.971	102543.648	1.5	6S (5D)6D	98338.280	1.5	4SP(5F)4S
2291.7402	-1.601	82978.677	4.5	4D (5D)6F	87340.983	5.5	4SP(5G)6F	2379.4565	-4.811	88157.116	1.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F
2293.0737	-3.837	98130.131	6.5	5S (3H)4H	102489.900	6.5	4SP(3I)4K	2382.7866	-2.700	84527.778	4.5	4D (5D)6G	88723.400	4.5	5P (5D)6D
2293.1048	-1.835	86710.837	1.5	4D (5D)4F	91070.547	2.5	5P (5D)4F	2382.8856	-2.306	98294.401	5.5	5S (3H)4H	102489.900	6.5	4SP(3I)4K
2295.1679	-4.699	103608.909	4.5	5S (3G)2G	107964.700	4.5	210DD	2385.8204	-4.298	86710.837	1.5	4D (5D)4F	90901.124	2.5	5P (5D)4F
2299.1431	-3.081	103118.400	1.5	6S (5D)4D	98770.140	1.5	4SP(5D)4D	2386.5602	-4.838	102543.648	1.5	6S (5D)6D	98354.660	2.5	4SP(5D)4F
2299.2858	-3.766	103983.510	3.5	5S (3G)2G	99635.520	3.5	4SP(3G)2D	2387.1027	-1.816	86710.837	1.5	4D (5D)4F	90898.873	1.5	4P (3P)4F
2299.2996	-1.572	84266.556	3.5	4D (5D)6F	88614.520	4.5	4SP(5F)6D	2391.1868	-1.889	86599.738	2.5	4D (5D)4F	90780.621	3.5	5P (5D)4F
2299.9153	-4.063	73395.930	2.5	D5S2(7S)4F	77742.730	2.5	4P (1D)2F	2393.7971	-3.650	86124.301	4.5	4D (5D)4F	90300.625	3.5	5P (5D)6F
2300.4212	-2.009	83713.536	3.5	4D (5D)6D	88059.880	2.5	4SP(5F)6D	2393.8395	-3.314	83459.670	1.5	4D (5D)6F	87635.920	0.5	4SP(5F)6D
2301.2290	-3.840	87985.628	2.5	4D (5D)4F	92329.390	2.5	4SP(5G)4F	2394.4931	-3.924	103983.510	3.5	5S (3G)2G	99808.400	3.5	4P (1G)2G
2303.7418	-3.325	83558.540	0.5	4D (5D)6F	87898.120	0.5	4SP(5G)6F	2394.8086	-3.299	83459.670	1.5	4D (5D)6F	79285.110	2.5	4SP(5S)6P
2304.8896	-4.593	86710.837	1.5	4D (5D)4F	91048.256	1.5	5P (5D)4D	2395.8336	-4.090	88157.116	1.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F
2306.0279	-1.378	83136.487	3.5	4D (5D)6F	87471.765	4.5	4SP(5G)6F	2397.6688	-4.957	88189.030	0.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F
2308.6841	-4.356	103983.510	3.5	5S (3G)2G	99653.220	4.5	4SP(3G)2G	2398.2901	-4.206	104315.370	6.5	4D (3H)2K	108483.870	5.5	4SP(3G)4G
2311.1045	-3.464	84527.778	4.5	4D (5D)6G	88853.533	3.5	5P (5D)6D	2398.3850	-4.375	84685.198	3.5	4D (5D)4D	88853.533	3.5	5P (5D)6D
2312.3201	-3.872	102842.119	4.5	5S (3G)4G	107165.600	3.5	170DD	2400.7487	-4.204	102842.119	4.5	5S (3G)4G	107006.350	4.5	4SP(3I)2H
2318.2779	-3.937	83558.540	0.5	4D (5D)6F	88614.520	4.5	4SP(5F)6D	2404.1232	-4.649	85172.809	0.5	4D (5D)4D	89331.195	1.5	5P (5D)6D
2319.7679	-2.411	104174.270	5.5	4D (3H)4I	79246.170	1.5	4SP(5S)6F	2404.5534	-1.004	88157.116	1.5	4D (5D)4F	92314.758	0.5	5P (5D)4F
2321.5623	-2.428	102842.119	4.5	5S (3G)4G	108483.870	5.5	4SP(3G)4G	2407.6272	-2.232	83812.316	2.5	4D (5D)6D	87964.700	1.5	4SP(5F)6D
2324.1978	-1.770	86599.738	2.5	4D (5D)4F	98535.850	3.5	4SP(5D)4F	2408.4769	-3.023	99918.569	1.5	5S (3F)4F	95767.700	0.5	4SP(5F)4D
2325.4147	-0.916	86599.738	2.5	4D (5D)4F	90901.124	2.5	5P (5D)4D	2410.6716	-4.255	103983.510	3.5	5S (3G)2G	108130.600	2.5	220DD
2325.7280	-3.801	85172.809	0.5	4D (5D)4D	89471.365	0.5	5P (5D)6D	2411.3688	-2.308	98294.401	5.5	5S (3H)4H	94148.510	4.5	4SP(5G)4G
2326.4554	-2.790	102802.312	2.5	6S (5D)4D	98505.100	2.5	4SP(5D)4D	2413.1400	-1.872	84710.685	3.5	4D (5D)6G	88853.533	3.5	5P (5D)6D
2326.6297	-4.087	98445.400	4.5	5S (3H)4H	94148.510	4.5	4SP(5G)4G	2415.2026	-4.523	77230.900	4.5	D5S2(7S)2H	73091.590	4.5	4P (1G)2G
2328.9254	-3.714	88157.116	1.5	4D (5D)4F	92453.460	0.5	4P (3F)4D	2417.6849	-2.438	100492.020	3.5	5S (3F)2F	96356.960	3.5	4SP(3G)2F
2328.1652	-3.391	83308.194	2.5	4D (5D)6F	87602.250	1.5	4SP(5G)6F	2420.2743	-0.906	85495.304	2.5	4D (5D)6S	89625.940	1.5	4SP(5F)6P
2331.1859	-2.273	87985.628	2.5	4D (5D)4F	92274.120	2.5	4P (3P)4F	2421.4426	-1.890	86710.837	1.5	4D (5D)4F	90839.480	0.5	4P (3P)4F
2333.7790	-4.669	84844.834	2.5	4D (5D)6G	89128.561	3.5	4SP(5P)6F	2423.1535	-1.908	88189.030	0.5	4D (5D)4F	92314.758	0.5	5P (5D)4F
2334.3469	-3.332	85048.602	1.5	4D (5D)4D	89331.195	1.5	5P (5D)6D	2428.2882	-3.617	88157.116	1.5	4D (5D)4F	92274.120	2.5	4P (3P)4F
2336.4717	-3.386	100749.810	2.5	5S (3F)2F	105028.600	3.5	4SP(3I)4H	2428.5147	-4.409	105155.090	4.5	4D (3F)4G	109271.710	5.5	4SP(3I)2I
2337.0720	-4.043	103608.909	4.5	5S (3G)2G	107886.600	3.5	200DD	2430.7934	-1.605	83459.670	1.5	4D (5D)6F	87572.431	2.5	4SP(5G)6F
2338.7494	-4.058	84844.834	2.5	4D (5D)6G	89119.457	2.5	5P (5D)6D	2432.0121	-3.516	103118.400	1.5	6S (5D)4D	99007.700	0.5	4SP(5F)6D
2338.7620	-4.555	100492.020	3.5	5S (3F)2F	96217.420	3.5	4SP(5P)4D	2435.2663	-4.375	102584.963	5.5	5S (3G)4G	106690.170	5.5	4SP(3I)2H
2339.3273	-0.360	86124.301	4.5	4D (5D)4F	90397.868	3.5	5P (5D)4D	2435.6733	-4.271	98294.401	5.5	5S (3H)4H	94189.880	5.5	4SP(5G)4G
2343.2230	-2.909	102802.312	2.5	6S (5D)4D	98535.850	3.5	4SP(5D)4F	2445.7488	-4.155	77230.900	4.5	D5S2(7S)2H	73143.288	3.5	4P (1G)2G
2344.3396	-4.293	88189.030	0.5	4D (5D)4F	92453.460	0.5	4P (3F)4D	2446.2695	-2.779	84527.778	4.5	4D (5D)6G	88614.520	4.5	4SP(5F)6D
2344.4457	-1.539	83308.194	2.5	4D (5D)6F	87572.431	2.5	4SP(5G)6F	2446.6359	-2.767	105063.550	5.5	4D (3F)4G	109149.680	6.5	4SP(3I)2I
2345.5513	-0.605	86124.301	4.5	4D (5D)4F	90386.528	4.5	5P (5D)4F	2451.6338	-4.439	103118.400	1.5	6S (5D)4D	107196.200	2.5	180DD
2347.8831	-3.380	103265.694	0.5	6S (5D)4D	99007.700	0.5	4SP(5D)4D	2451.8863	-2.127	83558.540	0.5	4D (5D)6F	87635.920	0.5	4SP(5F)6D
2348.0463	-3.276	84870.863	2.5	4D (5D)4D	89128.561	3.5	4SP(5P)6F	2455.0173	-4.966	104411.690	4.5	5D (5D)6D	108483.870	5.5	4SP(3G)4G
2349.2480	-4.876	98445.400	4.5	5S (3H)4H	94189.880	5.5	4SP(5G)4G	2455.4412	-1.805	86416.333	3.5	4D (5D)4F	90487.810	2.5	5P (5D)6F
2350.7395	-3.873	100492.020	3.5	5S (3F)2F	96239.200	4.5	4SP(3G)2H	2456.7445	-2.068	83990.063	1.5	4D (5D)6D	88059.380	2.5	4SP(5F)6D
2350.9374	-4.598	99332.102	4.5	5S (3H)2H	95079.640	3.5	4P (3F)2F	2457.2850	-2.918	88157.116	1.5	4D (5D)4F	92225.538	1.5	5P (5D)4F
2353.0777	-2.837	84870.863	2.5	4D (5D)4F	89119.457	2.5	5P (5D)6D	2461.1554	-3.755	83308.194	2.5	4D (5D)6F	79246.170	1.5	4SP(5S)6P
2353.9254	-2.302	83812.316	2.5	4D (5D)6D	88059.380	2.5	4SP(5P)6D	2461.8439	-4.143	102802.312	2.5	6S (5D)4D	106863.200	3.5	160DD
2354.8098	-3.588	102842.119	4.5	5S (3G)4G	98596.650	4.5	4SP(5D)4F	2462.0676	-3.449	99918.569	1.5	5S (3F)4F	95858.050	1.5	4SP(5F)4D
2357.8972	-2.353	87985.628	2.5	4D (5D)4F	92225.538	1.5	5P (5D)4D	2470.9644	-3.873	98294.401	5.5	5S (3H)4H	102340.300	5.5	4SP(3I)4K
2363.7241	-1.399	83308.194	2.5	4D (5D)6F	87537.652	3.5	4SP(5G)6F	2472.3020	-1.975	83558.540	0.5	4D (5D)6F	87602.250	1.5	4SP(5G)6F
2365.4400	-3.918	103983.510	3.5	5S (3G)2G	99757.120	4.5	4P (1G)2G	2474.5368	-4.102	102394.718	3.5	6S (5D)4F	98354.660	2.5	4SP(5D)4F
2367.6254	-0.869	86416.333	3.5	4D (5D)4F	90638.822	2.5	5P (5D)4D	2475.1335	-0.887	86599.738	2.5	4D (5D)4F	90638.822	2.5	5P (5D)4F
2371.9710	-4.458	77230.900	4.5	D5S2(7S)2H	73016.147	3.5	4P (1G)2F	2475.4620	-4.958	102543.648	1.5	6S (5D)6D	98505.100	2.5	4SP(5D)4D
2372.6764	-3.451	83459.670	1.5	4D (5D)6F	79246.170	1.5	4SP(5S)6P	2475.6741	-2.672	84685.198	3.5	4D (5D)4D	88723.400	4.5	5P (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2476.7131	-2.532	88189.030	0.5	4D (5D)4P	92225.538	1.5	5P (5D)4P	2603.8341	-4.458	57493.321	1.5	D5S2(7S)4P	61332.374	1.5	4P (3P)4P
2479.3764	-3.410	102802.312	2.5	6S (5D)4D	98770.140	1.5	4SP(5D)4D	2606.2452	-2.163	85495.304	2.5	4D (5D)6S	89331.195	1.5	5P (5D)6D
2480.6118	-3.801	86599.738	2.5	4D (5D)4D	90629.902	1.5	4P (3P)4D	2608.1517	-2.952	84131.563	0.5	4D (5D)6D	87964.650	1.5	4SP(5P)6D
2482.2846	-3.543	90903.452	5.5	5S (3H)2H	103120.900	6.5	4SP(3I)4I	2608.9631	-4.791	108648.695	6.5	5S (1I)2I	104816.800	5.5	4SP(3I)4H
2484.9773	-2.858	83308.194	2.5	4D (5D)6F	79285.110	2.5	4SP(5S)6P	2610.9274	-4.137	102334.112	2.5	6S (3F)4F	98505.100	2.5	4SP(5D)4D
2486.2151	-4.116	102842.119	4.5	5S (3G)4G	106863.200	3.5	160DD	2611.3755	-3.342	99824.045	2.5	5S (5D)6D	95959.690	2.5	4SP(5P)4D
2491.3985	-3.873	84710.685	3.5	4D (5D)6G	88723.400	4.5	5P (5D)6D	2614.2702	-2.181	83713.536	3.5	4D (5D)6D	87537.652	3.5	4SP(5G)6F
2493.8945	-4.835	84844.834	2.5	4D (5D)6G	88853.330	3.5	5P (5D)6D	2623.0693	-2.892	83726.364	4.5	4D (5D)6D	87537.652	3.5	4SP(5G)6F
2497.2029	-2.575	102394.718	3.5	6S (5D)4D	98391.533	3.5	4SP(5D)4D	2627.1072	-2.694	105063.550	5.5	4D (3F)4G	108868.980	4.5	4SP(3G)4H
2503.2237	-1.946	86599.738	2.5	4D (5D)4F	90593.497	1.5	5P (5D)6F	2627.4131	-2.600	83136.487	3.5	4D (5D)6F	79331.500	3.5	4SP(5S)6P
2506.6419	-2.309	102584.963	5.5	5S (3G)4G	98596.650	4.5	4SP(5D)4F	2630.0650	-4.067	102334.112	2.5	6S (5D)6D	98535.850	3.5	4SP(5D)4F
2507.5579	-4.734	73637.340	1.5	D5S2(7S)4F	64425.408	2.5	4P (3F)2F	2632.1565	-2.529	86599.738	2.5	4D (5D)4F	90397.868	3.5	5P (5D)4D
2509.1193	-4.901	60441.033	1.5	D5S2(7S)4D	64425.408	2.5	4P (3F)2F	2632.1995	-2.981	102394.718	3.5	6S (5D)4D	98596.650	4.5	4SP(5D)4F
2510.0719	-2.650	105288.847	6.5	4D (3F)4H	109271.710	5.5	4SP(3I)2I	2635.1938	-4.396	84266.556	3.5	4D (5D)6P	88059.380	2.5	4SP(5P)6D
2510.1935	-2.750	84870.863	2.5	4D (5D)6F	88753.533	3.5	5P (5D)6D	2637.5035	-3.200	104174.270	5.5	4D (3H)4I	107964.700	4.5	210DD
2510.8706	-3.837	85462.862	3.5	4D (5D)4G	89444.458	2.5	4SP(5P)6P	2637.8487	-3.789	83812.316	2.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F
2510.9091	-1.165	86416.333	3.5	4D (5D)4F	90397.868	3.5	5P (5D)4D	2646.9007	-2.128	86710.837	1.5	4D (5D)4F	90487.810	2.5	5P (5D)6F
2512.2234	-4.439	102334.112	2.5	6S (5D)6D	98354.660	2.5	4SP(5D)4F	2649.3312	-4.504	102543.648	1.5	6S (5D)6D	98770.140	1.5	4SP(5D)4D
2513.9657	-3.097	83308.194	2.5	4D (5D)6F	87964.650	1.5	4SP(5P)6D	2651.4117	-4.746	60270.339	3.5	D5S2(7S)4D	64040.886	3.5	4P (3F)4G
2515.2984	-2.921	83990.063	1.5	4D (5D)6D	89386.528	4.5	5P (5D)4F	2654.2204	-3.675	84131.563	0.5	4D (5D)6D	87898.120	0.5	4SP(5G)6F
2518.0809	-1.841	86416.333	3.5	4D (5D)4F	90397.868	3.5	5P (5D)4D	2655.4874	-4.727	85679.698	2.5	4D (5D)4G	89444.458	2.5	4SP(5P)6P
2520.7476	-2.831	99824.045	2.5	5S (3F)4F	93588.050	1.5	4SP(5P)4D	2658.7678	-2.164	83812.316	2.5	4D (5D)6D	87572.431	2.5	4SP(5G)6F
2527.3151	-3.736	103608.909	4.5	5S (3G)2G	99653.220	4.5	4SP(3G)2G	2659.6739	-4.838	88157.116	1.5	4D (5D)4P	91915.950	1.5	4SP(5D)6F
2531.4972	-0.917	85495.304	2.5	4D (5D)6S	89444.458	2.5	4SP(5P)6P	2660.8329	-2.335	83713.536	3.5	4D (5D)6D	87471.765	4.5	4SP(5G)6F
2533.3653	-4.667	85679.698	2.5	4D (5D)4G	89625.940	1.5	4SP(5P)6P	2664.8079	-2.720	105155.090	4.5	4D (3F)4G	108906.660	3.5	4SP(3G)4H
2534.9166	-3.015	85184.734	4.5	4D (5D)4G	89128.561	3.5	4SP(5P)6P	2665.1086	-2.689	84863.351	5.5	4D (5D)4G	88614.520	4.5	4SP(5P)6D
2535.4186	-1.062	86124.301	4.5	4D (5D)4F	90067.347	4.5	5P (5D)6F	2665.3508	-3.426	105398.852	5.5	4D (3F)4H	109149.680	5.5	4SP(3I)2I
2535.5164	-2.651	84266.556	3.5	4D (5D)6P	88209.450	3.5	4SP(5P)6D	2667.8965	-3.993	105524.461	4.5	4D (3F)4H	109271.710	5.5	4SP(3I)2I
2537.2171	-2.237	98130.131	6.5	5S (3H)4H	94189.880	5.5	4SP(5G)4G	2668.9571	-1.658	105063.550	5.5	4D (3F)4G	108809.310	5.5	4SP(3G)4H
2539.0672	-2.707	86710.837	1.5	4D (5D)4F	90648.217	0.5	4SP(5P)6D	2669.1808	-4.613	73395.930	2.5	D5S2(7S)4F	69650.484	2.5	4P (3G)2F
2544.2741	-2.575	84685.198	3.5	4D (5D)4D	88614.520	4.5	4SP(5P)6D	2671.2398	-3.360	83726.364	4.5	4D (5D)6D	87471.765	4.5	4SP(5G)6F
2545.1402	-1.950	86710.837	1.5	4D (5D)4F	90638.822	2.5	5P (5D)4D	2679.2129	-2.272	8528.806	1.5	4D (5D)4S	89471.365	0.5	5P (5D)6D
2548.4529	-4.479	9918.569	1.5	5S (3F)4F	95995.620	2.5	4SP(5P)4D	2679.2398	-3.360	83726.364	4.5	4D (5D)4S	89471.365	0.5	5P (5D)6D
2549.2197	-3.272	57411.065	2.5	D5S2(7S)4F	61332.764	1.5	4P (3P)4F	2678.4617	-2.116	84326.912	2.5	4D (5D)6P	88059.380	2.5	4SP(5P)6D
2551.3152	-4.523	86124.301	4.5	4D (5D)4F	90042.779	4.5	4P (3F)4G	2682.4489	-4.839	88189.030	0.5	4D (5D)4P	91915.950	1.5	4SP(5I)6F
2558.1184	-2.529	83990.063	1.5	4D (5D)6D	87898.120	0.5	4SP(5G)6F	2683.5895	-2.238	83812.316	2.5	4D (5D)6D	87537.652	3.5	4SP(5G)6F
2560.8850	-4.126	84710.685	3.5	4D (5D)6G	88614.520	4.5	4SP(5P)6D	2690.5837	-4.157	85728.806	1.5	4D (5D)4S	89444.458	2.5	4SP(5P)6P
2565.2883	-4.418	85728.806	1.5	4D (5D)4S	89625.940	1.5	4SP(5P)6P	2691.8602	-1.573	105155.090	4.5	4D (3F)4G	108868.980	4.5	4SP(3G)4H
2565.6860	-4.722	81639.260	2.5	D5S2(7S)2F	77742.730	2.5	4P (1D)2F	2696.7688	-4.779	104863.430	5.5	5D (5D)4G	108570.560	4.5	4SP(3G)4G
2566.7597	-2.630	98445.400	4.5	5S (3H)4H	102340.300	5.5	4SP(3I)4K	2701.3180	-1.796	86599.738	2.5	4D (5D)4F	90300.625	3.5	5P (5D)6F
2570.2453	-3.767	102394.718	3.5	6S (5D)4D	98505.100	2.5	4SP(5D)4D	2703.9168	-4.749	104873.230	3.5	5D (5D)4D	108570.560	4.5	4SP(3G)4G
2572.8614	-4.024	73492.215	3.5	D5S2(7S)4F	69606.552	3.5	4P (3G)2F	2706.3459	-2.656	99688.337	3.5	5S (3F)4F	95995.690	2.5	4SP(5P)4D
2573.7695	-0.855	86416.333	3.5	4D (5D)4F	90300.625	3.5	5P (5D)6F	2711.9676	-3.578	88157.116	1.5	4D (5D)4P	91843.470	1.5	5P (5D)6P
2574.8514	-2.117	86710.837	1.5	4D (5D)4F	90593.497	1.5	5P (5D)6F	2714.9179	-4.314	57411.065	2.5	D5S2(7S)4P	61093.413	2.5	4P (3P)2D
2574.9232	-1.854	84326.912	2.5	4D (5D)6P	88209.450	3.5	4SP(5P)6D	2715.1664	-1.434	84527.778	4.5	4D (5D)6G	88209.450	3.5	4SP(5P)6D
2576.4918	-4.484	98568.912	3.5	5S (3H)4H	102449.100	2.5	4SP(3D)2D	2717.1792	-4.063	60270.339	3.5	D5S2(7S)4D	63948.790	4.5	4P (3F)4G
2581.3682	-3.922	105398.852	5.5	4D (3F)4H	109271.710	5.5	4SP(3I)2I	2719.4199	-4.839	102030.912	3.5	6S (5D)6D	98354.660	2.5	4SP(5D)4F
2586.1280	-4.671	104863.430	5.5	5D (5D)4G	108729.160	6.5	4SP(3G)4H	2724.9442	-2.875	85184.734	4.5	4D (5D)4G	88853.533	3.5	5P (5D)6D
2589.4082	-2.831	105288.847	6.5	4D (3F)4H	109149.680	6.5	4SP(3I)2I	2727.2487	-3.768	85462.862	3.5	4D (5D)4G	89128.561	3.5	4SP(5P)6P
2589.9341	-2.645	84863.351	5.5	4D (5D)4G	88723.400	4.5	5P (5D)6D	2727.3149	-1.764	105063.550	5.5	4D (3F)4G	108729.160	6.5	4SP(3G)4H
2590.7086	-3.080	83713.536	3.5	4D (5D)6D	87572.431	2.5	4SP(5G)6F	2730.2331	-4.748	88189.030	0.5	4D (5D)4P	91850.722	0.5	4SP(5D)6F
2591.4157	-2.489	97985.628	2.5	4D (5D)4F	91843.470	1.5	5P (5D)6F	2732.2463	-4.916	102666.694	0.5	6S (5D)6D	99007.700	0.5	4SP(5D)4D
2595.4881	-3.869	103608.909	4.5	5S (3G)2G	99757.120	4.5	4P (1G)2G	2733.1063	-4.885	105211.140	4.5	5D (5D)4G	108868.980	4.5	4SP(3G)4H
2595.6168	-3.473	99332.102	4.5	5S (3H)2H	103183.700	3.5	4SP(3D)2F	2734.0388	-3.299	85462.862	3.5	4D (5D)4G	89119.457	2.5	5P (5D)6D
2595.7657	-3.045	83136.487	3.5	4D (5D)6F	79285.110	2.5	4SP(5S)6P	2734.3544	-4.784	58666.238	3.5	D6S (1G)2G	62322.431	3.5	4P (3H)2G
2598.0093	-3.656	102842.119	4.5	5S (3C)4G	106690.170	5.5	4SP(3I)2H	2735.6511	-3.207	88189.030	0.5	4D (5D)4P	91843.470	1.5	5P (5D)6P
2602.7311	-4.685	60445.275	2.5	D5S2(7S)4D	64286.345	3.5	4P (3I)2F	2735.8158	-2.195	105155.090	4.5	4D (3F)4G	108809.310	5.5	4SP(3G)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2737.8559	-4.119	89379.698	2.5	4D (5D)4G	89371.195	1.5	5P (5D)6D	2931.3579	-2.113	105398.852	5.5	4D (3F)4H	108809.310	5.5	4SP(3G)4H
2738.2181	-2.271	86416.333	3.5	4D (5D)4F	90067.347	4.5	5P (5D)6F	2932.7432	-4.648	99688.337	3.5	5S (3F)4F	96279.490	2.5	4SP(3G)2F
2740.3317	-4.314	99332.102	4.5	5S (3H)2H	102980.300	5.5	4SP(3I)4I	2934.2685	-4.200	99573.225	4.5	5S (3F)4F	102980.300	5.5	4SP(3I)4I
2741.0989	-2.579	82978.677	4.5	4D (5D)6F	79331.920	3.5	4SP(5S)6P	2942.5891	-4.048	103608.909	4.5	5S (3G)2G	107006.350	4.5	4SP(3I)2H
2742.0913	-4.379	83990.063	1.5	4D (5D)6D	87635.500	0.5	4SP(5S)6P	2943.4494	-4.499	99093.452	5.5	5S (3H)2H	102489.900	6.5	4SP(3I)4K
2746.8189	-3.529	102030.912	3.5	6S (5D)6D	98391.330	3.5	4SP(5D)4D	2948.4645	-3.813	85462.862	3.5	4D (5D)4G	88853.533	3.5	5P (5D)6D
2747.1986	-4.308	99918.569	1.5	5S (3F)4F	96279.490	2.5	4SP(3G)2F	2948.4819	-3.363	85728.806	1.5	4D (5D)4S	89119.457	2.5	5P (5D)6D
2748.2113	-3.082	84326.912	2.5	4D (5D)6P	87964.650	1.5	4SP(5P)6D	2952.1744	-2.599	105763.270	5.5	4D (3F)2H	109149.680	6.5	4SP(3I)2I
2750.2738	-2.693	84424.370	1.5	4D (5D)6D	88059.380	2.5	4SP(5P)6D	2955.8675	-1.514	105524.461	4.5	4D (3F)4H	108906.640	3.5	4SP(3G)4H
2751.6008	-1.090	85495.304	2.5	4D (5D)6S	89128.561	3.5	4SP(5P)6P	2962.8731	-4.528	84685.198	3.5	4D (5D)4D	88059.380	2.5	4SP(5P)6D
2756.0436	-4.516	77230.900	4.5	D5S2(7S)2H	73603.500	5.5	4P (1I)2H	2965.2916	-3.900	104593.270	5.5	5D (5D)6G	107964.700	4.5	210DD
2758.5129	-2.793	85495.304	2.5	4D (5D)6S	89119.457	2.5	5P (5D)6D	2970.1016	-4.440	104873.230	3.5	5D (5D)4D	108239.200	3.5	240DD
2761.3419	-4.766	104863.430	5.5	5D (5D)4G	108483.870	5.5	4SP(3G)4G	2970.2340	-3.653	105414.180	2.5	4D (3F)4G	108780.000	1.5	270DD
2765.0154	-1.943	105291.010	3.5	4D (3F)4G	108906.640	3.5	4SP(3G)4H	2970.2870	-4.574	98445.400	4.5	5S (3H)4H	95079.640	3.5	4P (3F)2F
2765.7888	-2.311	83726.364	4.5	4D (5D)6D	87340.983	5.5	4SP(5G)6F	2971.2969	-3.308	84844.834	2.5	4D (5D)6G	88209.450	3.5	4SP(5P)6D
2767.6509	-2.345	83990.063	1.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F	2975.8926	-4.265	105211.140	4.5	5D (5D)4G	108570.560	4.5	4SP(3G)4G
2768.9633	-4.635	99573.225	4.5	5S (3F)4F	103183.700	3.5	4SP(3D)2F	2976.9480	-1.863	85495.304	2.5	4D (5D)6S	88853.533	3.5	5P (5D)6D
2771.9191	-4.729	99824.045	2.5	5S (3F)4F	96217.420	3.5	4SP(5P)4D	2979.0983	-2.651	99573.225	4.5	5S (3F)4F	96217.420	3.5	4SP(5P)4D
2775.1786	-3.141	85728.806	1.5	4D (5D)4S	89331.195	1.5	5P (5D)6D	2985.4236	-1.452	105524.461	4.5	4D (3F)4H	108868.980	2.5	4SP(5P)6D
2778.4326	-4.163	105211.140	4.5	5D (5D)4G	108809.310	5.5	4SP(3G)4H	2989.1512	-2.175	105524.461	4.5	4D (3F)4H	108868.980	2.5	4SP(5P)6D
2780.4100	-4.589	60445.275	2.5	D5S2(7S)4D	64040.886	3.5	4P (3F)4G	2993.1238	-1.131	105291.010	3.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G
2785.1350	-2.933	87985.628	2.5	4D (5D)4P	91575.139	2.5	5P (5D)6P	2994.4623	-3.609	84870.863	2.5	4D (5D)4D	88209.450	3.5	4SP(5P)6D
2790.0793	-4.166	103983.510	3.5	5S (3G)2G	100400.360	2.5	4SP(3P)2D	2994.7736	-2.674	105291.010	3.5	4D (3F)4G	108629.250	2.5	4SP(3G)4G
2790.6884	-2.308	83990.063	1.5	4D (5D)6D	87572.431	2.5	4SP(5G)6F	2998.5597	-2.984	99573.225	4.5	5S (3F)4F	96239.200	4.5	4SP(3G)2H
2794.1187	-2.240	105291.010	3.5	4D (3F)4G	108868.980	4.5	4SP(3G)4H	3000.9432	-4.034	99688.337	3.5	5S (3F)4F	96336.960	3.5	4SP(3G)2F
2805.0930	-4.478	102334.112	2.5	6S (5D)6D	98770.140	1.5	4SP(5D)4D	3001.9634	-4.715	105398.852	5.5	4D (3F)4H	108729.160	6.5	4SP(3G)4H
2816.3633	-4.498	105230.290	0.5	5D (5D)4D	108780.000	1.5	270DD	3003.2844	-1.455	105155.090	4.5	4D (3F)4G	108483.870	5.5	4SP(3G)4G
2822.5208	-4.012	57493.321	1.5	D5S2(7S)4P	61035.287	0.5	4P (3P)4P	3013.7504	-2.093	105589.420	3.5	4D (3F)4H	108906.640	3.5	4SP(3G)4H
2823.8650	-2.493	84424.370	1.5	4D (5D)6P	87964.650	1.5	4SP(5P)6D	3024.4498	-4.910	105524.461	4.5	4D (5D)6P	87572.431	2.5	4SP(5G)6F
2825.1530	-3.695	85184.734	4.5	4D (5D)6D	88723.400	4.5	5P (5D)6D	3048.3673	-1.517	105291.010	3.5	4D (3F)4G	108570.560	4.5	4SP(3G)4G
2829.0592	-4.584	104705.420	3.5	5D (5D)6D	108239.200	3.5	240DD	3051.7735	-3.477	105630.750	2.5	5D (5D)4G	108906.640	3.5	4SP(3G)4H
2835.4526	-4.977	102030.912	3.5	6S (5D)6D	98505.100	2.5	4SP(5D)4D	3052.2871	-4.777	104705.420	3.5	5D (5D)6D	46967.444	2.5	4P (5D)4P
2836.7077	-4.734	84685.198	3.5	4D (5D)4D	88209.450	3.5	4SP(5P)6D	3053.7731	-3.384	87985.628	2.5	4D (5D)4P	91208.887	1.5	5P (5D)4F
2837.8673	-4.257	98568.912	3.5	5S (3H)4H	95046.100	2.5	4P (3F)2F	3054.7198	-4.259	105211.140	4.5	5D (5D)4G	108373.800	3.5	260DD
2839.7608	-1.255	105288.847	6.5	4D (3F)4H	108809.310	5.5	4SP(3G)4H	3056.2457	-3.268	84266.556	3.5	4D (5D)6P	87602.250	1.5	4SP(3G)4G
2849.4923	-3.105	105763.270	5.5	4D (3F)2H	109271.710	5.5	4SP(3I)2I	3063.6757	-4.747	99688.337	3.5	5S (3F)4F	102951.500	4.5	4SP(3I)4I
2850.5542	-3.668	105063.550	5.5	4D (3F)4G	108570.560	4.5	4SP(3G)4G	3065.5828	-3.371	77230.900	4.5	D5S2(7S)2H	73969.767	5.5	4P (1I)2I
2852.8123	-2.485	84131.563	0.5	4D (5D)6D	87635.500	0.5	4SP(5P)6D	3067.3256	-4.572	104705.420	3.5	5D (5D)6D	107964.700	4.5	210DD
2857.3719	-2.190	84710.685	3.5	4D (5D)6G	88209.450	3.5	4SP(5P)6D	3080.4611	-3.820	50212.826	2.5	D6S (3P)4P	46967.444	2.5	4P (5D)4P
2862.5304	-2.062	105414.180	2.5	4D (3F)4G	108906.640	3.5	4SP(3G)4G	3101.6040	-3.384	87985.628	2.5	4D (5D)4P	91208.887	1.5	5P (5D)4F
2873.0949	-3.446	77230.900	4.5	D5S2(7S)2H	73751.282	4.5	4P (1I)2H	3105.9875	-4.316	105155.090	4.5	4D (3F)4G	108373.800	3.5	260DD
2876.0854	-2.624	105155.090	4.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G	3107.7255	-1.725	105414.180	2.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G
2877.9483	-2.914	84424.370	1.5	4D (5D)6P	87898.120	0.5	4SP(5G)6F	3109.5040	-1.199	105414.180	2.5	4D (3F)4G	108629.250	2.5	4SP(3G)4G
2880.2973	-3.510	99688.337	3.5	5S (3F)4F	96217.420	3.5	4SP(5P)6D	3109.5621	-4.471	103950.590	4.5	5D (5D)6F	107165.600	3.5	170DD
2880.4882	-2.518	84131.563	0.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F	3110.0109	-2.053	84844.834	2.5	4D (5D)6G	88059.380	2.5	4SP(5P)6D
2880.9522	-1.262	105398.852	5.5	4D (3F)4H	108868.980	4.5	4SP(3G)4H	3111.8076	-4.774	103983.510	3.5	5S (3G)2G	107196.200	2.5	180DD
2883.4808	-4.284	99824.045	2.5	5S (3F)4F	96356.960	3.5	4SP(3G)2F	3112.9122	-3.212	84424.370	1.5	4D (5D)6P	87635.500	0.5	4SP(5P)6D
2892.0575	-4.683	57578.484	0.5	D5S2(7S)4P	61035.287	0.5	4P (3P)4P	3113.6975	-4.518	84326.912	2.5	4D (5D)6P	87537.652	3.5	4SP(5G)6F
2896.4363	-4.489	58631.531	4.5	D6S (1G)2G	62083.108	4.5	4P (3H)2G	3117.7185	-4.516	102842.119	4.5	5S (3G)4G	99635.520	3.5	4SP(3G)2G
2905.9196	-1.781	105288.847	6.5	4D (3F)4H	108729.160	6.5	4SP(3G)4G	3119.0706	-4.482	84266.556	3.5	4D (5D)6P	87471.765	4.5	4SP(5G)6F
2906.3876	-4.144	85679.698	2.5	4D (5D)4D	89119.457	2.5	5P (5D)6D	3128.6551	-4.429	104000.810	3.5	5D (5D)6P	107196.200	2.5	180DD
2911.0397	-3.710	102030.912	3.5	6S (5D)6D	98596.650	4.5	4SP(5D)4F	3129.0145	-1.199	105288.847	6.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G
2914.8387	-3.852	85184.734	4.5	4D (5D)4G	88614.520	4.5	4SP(5P)6D	3135.3991	-3.308	84870.863	2.5	4D (5D)4D	88059.380	2.5	4SP(5P)6D
2922.9057	-1.269	105063.550	5.5	4D (3F)4G	108483.870	5.5	4SP(3G)4G	3141.5155	-4.539	87985.628	2.5	4D (5D)4P	91167.937	3.5	5P (5D)6P
2923.2220	-4.868	105211.140	4.5	5D (5D)4G	108631.090	3.5	4SP(3G)4G	3142.2650	-4.301	105449.540	3.5	5D (5D)4G	108631.090	3.5	4SP(3G)4G
2923.6580	-4.447	105449.540	3.5	5D (5D)4G	108868.980	4.5	4SP(3G)4H	3145.8939	-3.779	84424.370	1.5	4D (5D)6P	87602.250	1.5	4SP(5G)6F
2924.8700	-3.241	88157.116	1.5	4D (5D)4P	91575.139	2.5	5P (5D)6P	3146.1602	-4.152	73492.215	3.5	D5S2(7S)4F	70314.604	4.5	4P (3G)2G
2927.0563	-1.112	105155.090	4.5	4D (3F)4G	108570.560										

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
3152.0156	-1.116	105398.852	5.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3380.2888	-2.782	105414.180	2.5	4D (3F)4G	108371.700	1.5	250DD
3158.9057	-4.303	104000.810	3.5	5D (5D)6P	107165.160	3.5	170DD	3390.9894	-4.018	105291.010	3.5	4D (3F)4G	108239.100	3.5	240DD
3171.6161	-4.941	81639.260	2.5	D5S2(7S)2F	78487.153	1.5	4F (1D)2D	3395.8280	-1.613	84527.778	4.5	4D (5D)6G	87471.765	4.5	4SP(5G)6F
3174.4934	-4.054	105630.750	2.5	5D (5D)4G	108780.000	1.5	270DD	3410.0102	-4.018	102584.963	5.5	5S (3G)4G	99653.220	4.5	4SP(3I)2G
3175.6693	-4.469	84424.370	1.5	4D (5D)6P	87572.431	2.5	4SP(5G)6F	3419.0869	-4.488	103600.440	6.5	4D (3H)4H	106524.400	7.5	4SP(3I)2G
3203.0223	-3.246	84938.180	1.5	4D (5D)6P	88059.380	2.5	4SP(5P)6D	3429.0129	-4.582	87985.628	2.5	4D (3H)4H	90901.124	2.5	5P (5D)4P
3203.2070	-4.899	105449.540	3.5	5D (5D)4G	108570.560	4.5	4SP(3G)4G	3429.4752	-5.000	86710.837	1.5	4D (5D)4F	89625.940	1.5	4SP(5P)6P
3204.4432	-1.535	84844.834	2.5	4D (3H)2H	87964.460	1.5	4SP(5P)6D	3431.4434	-1.259	88157.116	1.5	4D (5D)4P	91070.547	2.5	5P (3D)4F
3209.7252	-3.048	99332.102	4.5	5S (5D)6G	96217.420	3.5	4SP(5P)4D	3431.6624	-0.789	87985.628	2.5	4D (5D)4P	90898.873	1.5	4F (3P)4P
3213.0799	-4.398	105127.770	2.5	5D (5D)4D	108239.200	3.5	240DD	3432.4106	-3.864	103950.590	4.5	5D (5D)6F	106863.200	3.5	160DD
3218.0454	-1.036	105524.461	4.5	4D (3F)4H	108631.090	3.5	4SP(3G)4G	3435.0524	-4.741	105414.180	2.5	4D (3F)4G	102503.810	1.5	4SP(3P)2D
3218.9977	-2.794	105763.270	5.5	4D (3F)2H	108868.980	4.5	4SP(3G)4H	3436.6453	-3.685	57493.321	1.5	D5S2(7S)4D	60402.342	2.5	4F (3P)4P
3223.0149	-4.615	101698.489	4.5	6S (5D)6D	98596.650	4.5	4SP(5D)4F	3445.9692	-2.635	105063.550	5.5	4D (3F)4G	107964.700	4.5	210DD
3223.6062	-3.080	104863.430	5.5	5D (5D)4G	107964.700	4.5	210DD	3457.9002	-2.311	88157.116	1.5	4D (5D)4P	91048.256	1.5	5P (5D)4D
3232.3279	-2.608	99332.102	4.5	5S (3H)2H	96239.200	4.5	4SP(3G)2H	3462.5794	-3.549	846685.198	3.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F
3233.8251	-4.592	104873.230	3.5	5D (5D)4D	107964.700	4.5	210DD	3492.6315	-3.665	104000.810	3.5	5D (5D)6P	106863.200	3.5	160DD
3235.6462	-4.465	103600.440	6.5	4D (3H)4H	106690.170	5.5	4SP(3I)2H	3493.4175	-1.176	84710.685	3.5	4D (5D)6G	87572.431	2.5	4SP(5G)6F
3240.5883	-2.503	105398.852	5.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G	3496.4964	-1.227	88189.030	0.5	4D (5D)4P	91048.256	1.5	5P (5D)4D
3240.6923	-1.180	87985.628	2.5	4D (5D)4P	91070.547	2.5	5P (5D)4F	3502.5896	-4.272	99093.452	5.5	5S (3H)2H	96239.200	4.5	4SP(3G)2H
3241.5424	-3.590	105155.090	4.5	4D (3F)4G	108239.200	3.5	240DD	3504.7974	-3.715	84685.198	3.5	4D (5D)4D	87537.652	3.5	4SP(5G)6F
3242.9304	-3.810	105291.010	3.5	4D (3F)4G	108373.800	3.5	260DD	3508.3260	-3.154	105524.461	4.5	4D (3F)4H	108373.800	3.5	260DD
3244.5396	-3.339	103608.909	4.5	5S (3G)2F	106690.170	5.5	4SP(3I)2H	3514.3260	-4.227	86599.738	2.5	4D (5D)4F	89444.458	2.5	4SP(5P)6P
3246.7735	-4.731	73393.745	4.5	D5S2(7S)4D	70314.604	4.5	4F (3G)2G	3517.5905	-4.602	100492.020	3.5	5S (3F)2F	103334.100	2.5	4SP(3D)2F
3250.1628	-3.940	104120.270	2.5	5D (5D)6P	107196.200	2.5	180DD	3520.6750	-2.757	105291.010	3.5	4D (3F)4G	108130.600	2.5	220DD
3261.7850	-4.775	105065.630	3.5	5D (5D)6G	108130.600	2.5	220DD	3530.0110	-3.809	104174.270	5.5	4D (3H)4I	107006.350	4.5	4SP(3I)2H
3262.9987	-4.550	105127.770	2.5	5D (5D)4D	108191.600	1.5	230DD	3539.3465	-3.890	105711.730	2.5	5D (5D)6S	102887.120	3.5	4F(5D)4[4]
3264.2793	-2.167	87985.628	2.5	4D (5D)4P	91048.256	1.5	5P (5D)4D	3550.1818	-4.747	60441.033	1.5	D5S2(7S)4D	63272.976	2.5	4P (3F)4D
3275.8924	-2.379	88157.116	1.5	4D (5D)4P	91208.887	1.5	5P (5D)4F	3555.3001	-3.843	102584.963	5.5	5S (3G)4G	99757.120	4.5	4P (1G)2G
3281.9923	-2.518	105524.461	4.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3535.4260	-4.769	60445.275	2.5	D5S2(7S)4D	63272.976	2.5	4P (3F)4D
3282.0058	-4.238	105763.270	5.5	4D (3F)2H	108809.310	5.5	4SP(3G)4H	3536.5956	-1.632	84710.685	3.5	4D (5D)6G	87537.652	3.5	4SP(5G)6F
3282.8210	-4.575	104120.270	2.5	5D (5D)6P	107165.600	3.5	170DD	3538.8328	-4.801	105414.180	2.5	4D (3F)4G	108239.200	3.5	240DD
3284.0903	-1.772	84296.830	5.5	4D (5D)6G	87340.943	5.5	4SP(5G)6F	3559.3465	-3.890	105711.730	2.5	5D (5D)6S	102887.120	3.5	4F(5D)4[4]
3285.7342	-3.704	88157.116	1.5	4D (5D)4P	91199.746	0.5	5P (5D)4D	3541.3061	-4.226	50212.826	2.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P
3286.7712	-2.765	105589.420	3.5	4D (3F)4H	108631.090	3.5	4SP(3G)4G	3551.1013	-3.946	104380.940	3.5	5D (5D)6F	107196.200	2.5	180DD
3288.7607	-1.001	105589.420	3.5	4D (3F)4H	108629.250	2.5	4SP(3G)4G	3553.6954	-4.721	105763.270	5.5	4D (3F)2H	102951.900	4.5	4SP(5G)6F
3297.1931	-2.402	99093.452	5.5	5S (3H)2H	96062.060	5.5	4SP(3G)2H	3555.5090	-4.217	105763.270	5.5	4D (3F)2H	102951.900	4.5	4SP(5G)6F
3297.4731	-4.705	86416.333	3.5	4D (5D)4F	89444.458	2.5	4SP(5P)6P	3558.2424	-2.924	105155.090	4.5	4D (3F)4G	107964.700	4.5	210DD
3301.5440	-3.833	105211.140	4.5	5D (5D)4G	108239.200	3.5	240DD	3561.1830	-2.631	105763.270	5.5	4D (3F)2H	102489.900	6.5	4SP(3I)4K
3303.2785	-2.104	84938.180	1.5	4D (5D)6G	87964.650	1.5	4SP(5P)6D	3571.7981	-4.972	105288.847	6.5	4D (3F)4H	102489.900	6.5	4SP(3I)4K
3305.1941	-3.461	85184.734	4.5	4D (5D)4G	88209.450	3.5	4SP(5P)6D	3576.8510	-1.462	87985.628	2.5	4D (5D)4F	90780.621	3.5	5P (5D)4F
3307.2453	-3.519	103983.510	3.5	5S (3G)2G	107006.350	4.5	4SP(3I)2H	3583.6889	-4.533	105449.540	3.5	5D (5D)4G	108239.200	3.5	240DD
3310.5122	-1.766	88189.030	0.5	4D (5D)4P	91208.887	1.5	5P (5D)4F	3587.6667	-4.897	84685.198	3.5	4D (5D)4D	87471.765	4.5	4SP(5G)6F
3312.4394	-4.049	104868.500	4.5	5D (5D)6G	107886.600	3.5	200DD	3590.4846	-3.051	105589.420	3.5	4D (3F)4H	108373.800	3.5	260DD
3320.5634	-1.384	88189.030	0.5	4D (5D)4P	91199.746	0.5	5P (5D)4D	3599.4821	-4.767	105414.180	2.5	4D (3F)4G	108191.600	1.5	230DD
3321.4923	-0.926	84527.778	4.5	4D (5D)6G	87537.652	3.5	4SP(5G)6F	3609.4628	-4.368	104426.460	2.5	5D (5D)6F	107196.200	2.5	180DD
3327.6991	-4.061	86124.301	4.5	4D (5D)4F	89128.561	3.5	4SP(5P)6P	3609.7365	-2.004	105711.730	2.5	5D (5D)6S	102942.200	3.5	4F(5D)4[3]
3334.0915	-4.622	105630.750	2.5	5D (5D)4G	108629.250	2.5	4SP(3G)4G	3621.1995	-4.160	99688.337	3.5	5S (3F)4F	102449.100	2.5	4SP(3D)2D
3342.1423	-3.352	57411.065	2.5	D5S2(7S)4P	60402.342	3.5	4F (3P)4P	3621.5078	-4.531	86710.837	1.5	4D (5D)4F	89471.365	0.5	5P (5D)6D
3353.5068	-3.706	105589.420	3.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3622.7125	-4.293	105711.730	2.5	5D (5D)6S	102952.120	2.5	4F(5D)4[3]
3358.9050	-3.554	78577.280	4.5	D5S2(7S)2G	75600.931	3.5	4P (3D)2F	3623.7367	-4.649	105127.770	2.5	5D (5D)4D	107886.600	3.5	200DD
3360.2676	-3.933	99332.102	4.5	5S (3H)2H	96356.960	3.5	4SP(3G)2F	3625.5950	-1.440	84844.834	2.5	4D (5D)6G	87602.500	1.5	4SP(5G)6F
3367.7760	-4.555	73492.215	3.5	D5S2(7S)4F	70523.706	3.5	4P (3G)2H	3630.2107	-4.319	104411.640	4.5	5D (5D)6D	107165.600	3.5	170DD
3370.7499	-3.707	105763.270	5.5	4D (3F)2H	108729.160	6.5	4SP(3G)4G	3630.6721	-3.957	105211.140	4.5	5D (5D)4G	107964.700	4.5	210DD
3375.9631	-4.828	105230.290	0.5	5D (5D)4D	108191.600	1.5	230DD	3639.8883	-4.553	85462.862	3.5	4D (5D)4G	88209.450	3.5	4SP(5P)6D
3377.5257	-1.659	84938.180	1.5	4D (5D)6G	87898.180	1.5	4D (5D)4G	3643.3107	-2.618	88157.116	1.5	4D (5D)4F	90901.124	2.5	5P (5D)4P
3378.8909	-3.816	105414.180	2.5	4D (3F)4G	108373.800	3.5	260DD	3643.8126	-3.729	105630.750	2.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]
3378.1317	-3.862	105524.461	4.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G	3644.7425	-3.919	104120.270	2.5	5D (5D)6P	106863.200	3.5	160DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
3646.3018	-1.104	88157.116	1.5	4D (5D)4P	90898.873	1.5	4P (3P)4P	3934.1069	-3.423	105589.420	3.5	4D (3P)4H	108130.600	2.5	220DD
3647.3754	-3.604	105630.750	2.5	5D (5D)4G	108371.700	1.5	250DD	3936.7250	-4.263	49506.934	1.5	D6S (3P)4P	46967.444	2.5	4P (5D)4P
3649.7856	-4.993	104426.460	2.5	5D (5D)6F	107165.600	3.5	170DD	3961.1534	-4.618	85048.602	1.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F
3659.9806	-2.461	105155.090	4.5	4D (3F)4G	107886.600	3.5	200DD	3967.2351	-4.221	105630.750	2.5	5D (5D)4G	103110.790	1.5	4F(5D)4[1]
3660.0516	-3.872	86599.738	2.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	3967.6146	-3.707	86599.738	2.5	4D (5D)4F	89119.457	2.5	5P (5D)6D
3663.0355	-3.232	86124.301	4.5	4D (5D)4F	88553.533	3.5	5P (5D)6D	3968.2981	-4.552	73395.930	2.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F
3665.2312	-1.746	84844.834	2.5	4D (5D)6G	87572.431	2.5	4SP(5G)6F	3972.0111	-4.144	60445.275	2.5	D5S2(7S)4D	62962.200	1.5	4P (3P)4D
3674.6577	-3.203	105763.270	5.5	4D (3F)2H	108483.870	5.5	4SP(3G)4G	3987.2031	-1.750	105449.540	3.5	5D (5D)4G	102942.200	3.5	4F(5D)4[3]
3678.1187	-4.691	103118.400	1.5	6S (5D)4D	100400.360	2.5	4SP(3P)2D	3999.1495	-4.418	105630.750	2.5	5D (5D)4G	90487.810	2.5	5P (5D)6F
3680.3122	-3.860	105414.180	2.5	4D (3F)4G	108130.600	2.5	220DD	3999.2886	-4.656	60445.275	2.5	D5S2(7S)4D	108130.600	2.5	220DD
3683.3957	-2.412	85495.304	2.5	4D (5D)6S	88209.450	3.5	4SP(5P)6D	4035.0116	-3.666	84863.351	5.5	4D (5D)4G	90629.902	1.5	4P (3P)4S
3686.0004	-3.848	86416.333	3.5	4D (5D)4F	89128.561	3.5	4SP(5P)6P	4042.9512	-4.705	88157.116	1.5	4D (5D)4P	87964.650	1.5	4F(5P)6D
3689.2446	-1.210	88189.030	0.5	4D (5D)4P	90898.873	1.5	4P (3P)4P	4048.5121	-3.702	85495.304	2.5	4D (5D)6S	107165.600	3.5	170DD
3698.4147	-3.423	86416.333	3.5	4D (5D)4F	89119.457	2.5	5P (5D)6D	4063.6351	-4.987	104705.420	3.5	5D (5D)6D	107165.600	3.5	170DD
3700.5449	-4.123	84870.863	2.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F	4064.7917	-4.866	100492.020	3.5	5S (3F)2F	102951.500	4.5	4SP(3I)4I
3705.7958	-1.731	84938.180	1.5	4D (5D)6G	87635.920	0.5	4SP(5P)6D	4078.0065	-3.678	104411.690	4.5	5D (5D)6D	106863.200	3.5	160DD
3712.5694	-2.801	84844.834	2.5	4D (5D)6G	87537.652	3.5	4SP(5G)6F	4084.9734	-2.421	108630.429	5.5	5S (11)2I	106183.100	6.5	4SP(3I)2K
3714.1390	-3.405	100492.020	3.5	5S (3F)2F	103183.700	3.5	4SP(3D)2F	4095.7796	-4.547	88189.030	0.5	4D (5D)4P	90629.902	1.5	4P (3P)4S
3719.9988	-1.584	105711.730	2.5	5D (5D)6S	103024.290	2.5	4F(5D)4[2]	4101.9505	-3.625	86416.333	3.5	4D (5D)4F	88853.932	3.5	5P (5D)6D
3727.0384	-1.009	88157.116	1.5	4D (5D)4P	90839.480	0.5	4P (3P)4P	4102.1862	-3.851	105449.540	3.5	5D (5D)4G	107886.600	3.5	200DD
3728.8511	-3.751	105449.540	3.5	5D (5D)4G	108130.600	2.5	220DD	4103.3294	-4.029	88157.116	1.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3730.6531	-4.963	99824.045	2.5	5S (3F)4F	102503.810	1.5	4SP(3D)2D	4107.7249	-4.425	104426.460	2.5	5D (5D)6F	106863.200	3.5	160DD
3732.2339	-2.830	105630.750	2.5	5D (5D)4G	102952.120	2.5	4F(5D)4[3]	4107.7249	-4.425	104426.460	2.5	5D (5D)6F	106863.200	3.5	160DD
3734.5483	-2.674	105711.730	2.5	5D (5D)6S	103034.760	1.5	4F(5D)4[2]	4108.9734	-2.421	108630.429	5.5	5S (11)2I	106183.100	6.5	4SP(3I)2K
3736.6560	-3.205	105211.140	4.5	5D (5D)4G	107886.600	3.5	200DD	4095.7796	-4.547	88189.030	0.5	4D (5D)4P	90629.902	1.5	4P (3P)4S
3737.7191	-4.116	60270.339	3.5	D5S2(7S)4D	62945.038	3.5	4P (3F)4D	4102.1862	-3.851	105449.540	3.5	5D (5D)4G	107886.600	3.5	200DD
3739.1297	-4.245	105291.010	3.5	4D (3F)4G	107964.700	4.5	210DD	4103.3294	-4.029	88157.116	1.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3752.6317	-1.996	84938.180	1.5	4D (5D)6G	87602.250	1.5	4SP(5G)6F	4103.3294	-4.029	88157.116	1.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3768.0146	-2.119	87985.628	2.5	4D (5D)4P	90638.822	1.5	5P (5D)4D	4107.7249	-4.425	104426.460	2.5	5D (5D)6F	106863.200	3.5	160DD
3771.9156	-2.058	88189.030	0.5	4D (5D)4P	90839.480	0.5	4P (3P)4P	4115.0511	-4.800	85172.809	0.5	4D (5D)4D	87602.250	1.5	4SP(5G)6F
3778.1735	-4.117	103878.340	7.5	4D (3H)4I	106524.900	7.5	4SP(3I)2K	4122.1622	-2.227	105449.540	3.5	5D (5D)4G	103024.290	2.5	4F(5D)4[2]
3780.7253	-3.482	87985.628	2.5	4D (5D)4P	90629.902	1.5	4P (3P)4P	4125.9900	-4.698	73492.215	3.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F
3789.8320	-4.663	105589.420	3.5	4D (3F)4H	102951.500	4.5	4SP(3I)4I	4131.8886	-3.983	60270.339	3.5	D5S2(7S)4D	62962.200	1.5	4P (3P)4D
3795.1105	-2.947	84938.180	1.5	4D (5D)6G	87572.431	2.5	4SP(5G)6F	4133.5782	-4.334	105398.852	5.5	4D (3F)4H	102980.300	5.5	4SP(3I)4I
3807.7599	-3.008	104064.670	6.5	4D (3H)4I	106690.170	5.5	4SP(3I)2H	4144.3944	-1.282	87985.628	2.5	4D (5D)4P	90397.868	3.5	5P (5D)4D
3815.2320	-4.132	86710.837	1.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	4150.6231	-4.908	86710.837	1.5	4D (5D)4F	89119.457	2.5	4P (3P)4D
3832.7021	-2.788	84863.351	5.5	4D (5D)4G	87471.765	4.5	4SP(5G)6F	4157.7921	-4.174	88189.030	0.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3834.0602	-4.462	104588.710	1.5	5D (5D)6D	107196.200	2.5	180DD	4173.0771	-4.816	81639.260	2.5	D5S2(7S)2F	79243.600	1.5	4P (1D)2P
3835.5753	-3.592	105630.750	2.5	5D (5D)4G	103024.290	2.5	4F(5D)4[2]	4186.3895	-4.453	60441.033	1.5	D5S2(7S)4D	62962.200	1.5	4P (3P)4D
3843.7156	-1.419	105711.730	2.5	5D (5D)6S	103110.790	1.5	4F(5D)4[1]	4194.6486	-4.945	98445.400	4.5	5S (3H)4H	96062.060	5.5	4SP(3G)2H
3846.4382	-3.649	86124.301	4.5	4D (5D)4F	88723.400	4.5	5P (5D)6D	4201.0966	-4.923	85679.698	2.5	4D (5D)4G	88059.380	2.5	4SP(5P)6D
3847.7987	-2.373	105449.540	3.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]	4209.7330	-3.219	104315.370	6.5	4D (3H)2K	106690.170	5.5	4SP(3I)2H
3850.2617	-3.894	85462.862	3.5	4D (5D)4G	88059.380	2.5	4SP(5P)6D	4216.3199	-2.342	105711.730	2.5	5D (5D)6S	103340.640	3.5	4F(5D)3[4]
3851.6382	-3.028	105630.750	2.5	5D (5D)4G	103034.760	1.5	4F(5D)4[2]	4221.7504	-4.956	104828.160	4.5	5D (5D)6D	107196.200	2.5	180DD
3851.6382	-3.083	105291.010	3.5	4D (3F)4G	107886.600	3.5	200DD	4232.2970	-3.732	10524.461	4.5	4D (3F)4H	107886.600	3.5	200DD
3863.9524	-4.956	85048.602	1.5	4D (5D)4D	87635.920	0.5	4SP(5P)6D	4236.5279	-1.519	105211.140	4.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]
3868.4798	-3.852	100749.810	2.5	5S (3F)2F	103334.100	2.5	4SP(3D)2F	4248.8833	-3.110	85184.734	4.5	4D (3H)2K	106690.170	5.5	4SP(3I)2H
3885.1190	-4.757	98568.912	3.5	5S (3H)4H	95995.690	2.5	4SP(5P)4D	4249.0295	-4.681	102584.963	5.5	5S (3G)4G	104937.800	4.5	4SP(3I)4H
3885.5131	-4.533	105524.461	4.5	4D (3F)4H	102951.500	4.5	4SP(3I)4I	4259.7965	-2.042	105711.730	2.5	5D (5D)6S	103364.840	2.5	4F(5D)3[3]
3894.2780	-1.859	105449.540	3.5	5D (5D)4G	102882.370	4.5	4SP(5P)4D	4289.3979	-3.280	88157.116	1.5	4D (5D)4P	90487.810	2.5	5P (5D)6F
3896.2845	-3.635	105398.852	5.5	4D (3F)4H	107964.700	4.5	210DD	4289.6187	-4.766	85728.806	1.5	4D (5D)4S	88059.380	2.5	4SP(5P)6D
3898.9772	-3.032	85495.304	2.5	4D (5D)6S	88059.380	2.5	4SP(5P)6D	4291.2059	-4.848	98568.912	3.5	5S (3H)4H	96239.200	4.5	4SP(3G)2H
3901.4969	-1.888	105449.540	3.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]	4292.9417	-0.953	105211.140	4.5	5D (5D)4G	102882.370	4.5	4F(5D)4[4]
3914.6506	-3.706	100749.810	2.5	5S (3F)2F	98196.000	1.5	4SP(5D)4F	4298.0541	-1.730	105711.730	2.5	5D (5D)6S	103385.730	3.5	4F(5D)3[3]
3914.8989	-4.733	85048.602	1.5	4D (5D)4D	87602.250	1.5	4SP(5G)6F	4301.7160	-1.980	105211.140	4.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]
3929.4973	-4.723	105524.461	4.5	4D (3F)4H	102980.200	5.5	4SP(3I)4I	4303.6604	-4.921	104873.230	3.5	5D (5D)4G	107196.200	2.5	180DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
4308.3527	-2.189	105711.1730	2.5	5D (5D)6S	103391.280	1.5	4F(5D)3[12]	4740.5159	-3.812	105449.540	3.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]
4313.3344	-0.608	105211.1440	4.5	5D (5D)4P	102893.390	5.5	4F(5D)4[6]	4740.9296	-3.859	73492.215	3.5	D5S2(7S)4F	7500.931	3.5	4P (3D)2F
4318.4825	-2.265	87985.628	2.5	4D (5D)4P	90300.625	3.5	5P (5D)4[6]	4744.9123	-4.215	85495.304	2.5	4D (5D)6S	87602.020	1.5	4SP(5G)6F
4336.3091	-1.550	105711.730	2.5	5D (5D)6S	103406.250	2.5	4F(5D)3[12]	4750.1112	-2.984	105230.290	0.5	5D (5D)4D	103125.650	0.5	4F(5D)4[1]
4337.6638	-3.702	103878.340	7.5	4D (3H)4I	106183.100	6.5	4SP(3I)2K	4752.7307	-1.191	105127.770	2.5	5D (5D)4D	103024.290	2.5	4F(5D)4[2]
4351.9767	-4.701	105589.420	3.5	4D (3F)4H	107886.600	3.5	200DD	4759.0430	-4.797	100492.020	3.5	5S (3F)2F	98391.330	3.5	4SP(5D)4D
4358.3515	-1.657	105711.730	2.5	5D (5D)6S	103417.910	1.5	4F(5D)3[11]	4767.7356	-0.699	105449.540	3.5	5D (5D)4G	103352.680	4.5	4F(5D)3[5]
4365.4121	-2.860	105630.750	2.5	5D (5D)4G	103340.640	3.5	4SP(3I)4	4770.4417	-3.212	102842.119	4.5	5S (3G)4G	104937.800	4.5	4SP(5D)4[1]
4366.7240	-4.831	98568.912	3.5	5S (3H)4H	96279.490	2.5	4SP(3G)2F	4771.9685	-3.742	102505.790	2.5	5D (5D)6G	103110.790	1.5	4F(5D)4[1]
4371.2892	-3.816	85184.734	4.5	4D (5D)4G	87471.765	4.5	4SP(5G)6F	4776.5056	-1.344	105127.770	2.5	5D (5D)4D	103034.760	1.5	4F(5D)4[2]
4375.2665	-4.433	85679.698	2.5	4D (5D)4G	87964.650	1.5	4SP(5P)6D	4794.5130	-4.618	86124.301	4.5	4D (5D)4F	88209.450	3.5	4SP(5P)6D
4388.7114	-4.760	105398.852	5.5	4D (3F)4H	103120.900	6.5	4SP(3I)4I	4795.9201	-3.608	57578.484	0.5	D5S2(7S)4F	59663.456	1.5	4P (3P)4S
4388.8598	-4.696	73637.340	1.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F	4795.5447	-3.653	105449.540	3.5	5D (5D)4G	103364.840	2.5	4F(5D)3[3]
4404.4444	-3.568	78185.030	3.5	D5S2(7S)2G	75915.215	2.5	4P (3D)2F	4798.8835	-4.688	105063.550	5.5	4D (3F)4G	102980.300	5.5	4SP(3I)4I
4406.1429	-1.763	105211.1440	4.5	5D (5D)4G	102942.200	3.5	4F(5D)4[3]	4813.0298	-3.949	85495.304	2.5	4D (5D)6S	87537.652	3.5	4SP(5G)6F
4412.0349	-3.227	105630.750	2.5	5D (5D)4G	103364.840	2.5	4F(5D)3[14]	4818.4511	-4.135	85462.862	3.5	5D (5D)4G	104659.260	6.5	4SP(3I)4H
4415.2890	-4.388	105288.530	1.5	5D (5D)6G	103024.290	2.5	4F(5D)4[2]	4819.5963	-2.151	102584.963	5.5	5S (3G)4G	104659.260	6.5	4SP(3I)4H
4416.5569	-3.721	105205.790	2.5	5D (5D)6G	102942.200	3.5	4F(5D)4[3]	4834.1058	-4.149	98130.131	6.5	5S (3H)4H	96062.060	5.5	4SP(3G)2H
4420.2280	-4.665	105155.090	4.5	4D (3F)4G	102893.390	5.5	4F(5D)4[6]	4837.7574	-2.161	105711.730	2.5	5D (5D)6S	103385.730	3.5	4F(5D)3[3]
4435.7512	-4.906	86599.738	2.5	4D (5D)4F	88853.533	3.5	5P (5D)6D	4844.0865	-0.973	105449.540	3.5	5D (5D)4G	103385.730	3.5	4F(5D)3[3]
4435.8004	-3.579	105288.530	1.5	5D (5D)6G	103034.760	1.5	4F(5D)4[2]	4845.0725	-3.531	104119.710	7.5	4D (3H)2K	106183.100	6.5	4SP(3I)2K
4435.9973	-2.881	105205.790	2.5	5D (5D)6G	102952.120	2.5	4F(5D)4[3]	4860.7214	-4.596	105288.847	6.5	4D (3F)4H	102332.100	7.5	4SP(3I)4I
4438.5162	-3.798	57411.065	2.5	D5S2(7S)4P	59663.456	1.5	4P (3P)4S	4864.3778	-4.763	98294.401	5.5	5S (3H)4H	96239.200	4.5	4SP(3G)2H
4453.0890	-1.330	105630.750	2.5	5D (5D)4G	103385.730	3.5	4F(5D)3[13]	4874.9356	-1.430	105711.730	2.5	5D (5D)6S	103660.980	2.5	4F(5D)2[2]
4453.9124	-4.530	60445.275	2.5	D5S2(7S)4D	62689.880	2.5	4P (3P)4D	4874.9356	-1.430	105711.730	2.5	5D (5D)6S	103660.980	2.5	4F(5D)2[2]
4461.7740	-1.036	105127.770	2.5	5D (5D)4D	102887.120	3.5	4F(5D)4[4]	4892.7338	-1.970	105449.540	3.5	5D (5D)4G	103406.250	2.5	4F(5D)3[2]
4464.1449	-4.909	105630.750	2.5	5D (5D)4G	103391.280	1.5	4F(5D)3[11]	4893.3325	-1.770	105711.730	2.5	5D (5D)6S	103668.690	1.5	4F(5D)2[1]
4479.3925	-3.233	102584.963	5.5	5S (3G)4G	104816.800	5.5	4SP(3I)4H	4894.4076	-4.938	105065.630	3.5	5D (5D)6G	103024.290	2.5	4F(5D)4[2]
4484.7115	-4.656	81639.260	2.5	D5S2(7S)2F	83868.450	2.5	4P (1F)2D	4907.4083	-3.104	104868.500	4.5	5D (5D)6G	102831.320	5.5	4F(5D)4[5]
4487.1471	-4.624	98445.440	4.5	5S (3H)4H	96217.420	3.5	4SP(5P)4D	4912.7861	-1.281	105711.730	2.5	5D (5D)6S	103676.780	3.5	4F(5D)2[3]
4494.1668	-1.328	105630.750	2.5	5D (5D)4G	103406.250	2.5	4F(5D)3[12]	4919.6520	-2.314	104863.430	5.5	5D (5D)4G	102831.320	5.5	4F(5D)4[5]
4517.8477	-2.049	105630.750	2.5	5D (5D)4G	103417.910	1.5	4F(5D)3[11]	4941.3666	-1.629	104873.230	3.5	5D (5D)4D	102840.250	6.5	4F(5D)4[6]
4519.6614	-4.899	98568.912	3.5	5S (3H)4H	96356.960	3.5	4SP(3G)2F	4944.5682	-1.298	104873.230	3.5	5D (5D)4D	102851.360	4.5	4F(5D)4[5]
4541.2636	-4.798	105763.270	5.5	4D (3F)2H	107964.700	4.5	210DD	4956.1627	-1.438	104868.500	4.5	5D (5D)6G	102851.360	4.5	4F(5D)4[5]
4553.4673	-2.874	105230.290	0.5	5D (5D)4D	103034.760	1.5	4F(5D)4[12]	4956.5559	-1.898	105127.770	2.5	5D (5D)4D	103110.790	1.5	4F(5D)4[1]
4572.3123	-4.786	102842.119	4.5	5S (3G)4G	105028.600	3.5	4SP(3I)4H	4965.6404	-1.468	105711.730	2.5	5D (5D)6S	103698.440	2.5	4F(5D)2[3]
4574.2182	-1.131	105127.770	2.5	5D (5D)4D	102942.200	3.5	4F(5D)4[3]	4968.6513	-2.774	104863.430	5.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]
4579.0579	-3.889	105065.630	3.5	5D (5D)6G	102882.370	4.5	4F(5D)4[4]	4972.5065	-4.476	105155.090	4.5	4D (3F)4G	107165.600	3.5	170DD
4582.7522	-3.382	105205.790	2.5	5D (5D)6G	103024.290	2.5	4F(5D)4[2]	4998.2372	-1.331	105711.730	2.5	5D (5D)6S	103711.570	3.5	4F(5D)2[4]
4589.0421	-2.322	105065.630	3.5	5D (5D)6G	102887.120	3.5	4F(5D)4[1]	5021.5857	-1.026	104873.230	3.5	5D (5D)4D	102882.370	4.5	4F(5D)4[4]
4590.6646	-3.764	105288.530	1.5	5D (5D)6G	103110.790	1.5	4F(5D)4[1]	5023.8316	-4.591	104873.230	3.5	5D (5D)4D	106863.200	3.5	160DD
4595.0746	-0.992	105127.770	2.5	5D (5D)4D	102952.120	2.5	4F(5D)4[3]	5031.5434	-4.809	100492.020	3.5	5S (3F)2F	98505.100	2.5	4SP(5D)4D
4604.8530	-3.043	105205.790	2.5	5D (5D)6G	103034.760	1.5	4F(5D)4[12]	5033.5447	-2.089	104868.500	4.5	5D (5D)6G	102882.370	4.5	4F(5D)4[4]
4606.7521	-3.498	57493.321	1.5	D5S2(7S)4P	59663.456	1.5	4P (3P)4S	5033.5954	-1.212	104873.230	3.5	5D (5D)4D	102887.120	3.5	4F(5D)4[4]
4611.4015	-4.322	105288.847	6.5	4D (3F)4H	103120.900	6.5	4SP(3I)4I	5035.0658	-2.846	105630.750	2.5	5D (5D)4G	103645.220	1.5	4F(5D)2[2]
4622.2047	-3.776	105288.530	1.5	5D (5D)6G	103125.650	0.5	4F(5D)4[1]	5045.6117	-1.876	104868.500	4.5	5D (5D)6G	102887.120	3.5	4F(5D)4[4]
4633.1294	-4.719	104705.420	3.5	5D (5D)6D	106863.200	3.5	160DD	5046.4267	-1.801	104863.430	5.5	5D (5D)4G	102882.370	4.5	4F(5D)4[4]
4677.3936	-3.746	100492.020	3.5	5S (3F)2F	98354.660	2.5	4SP(5D)4F	5049.9700	-4.900	100749.810	2.5	5S (3F)2F	98770.140	1.5	4F(5D)4D
4679.4210	-3.700	81734.750	3.5	D5S2(7S)2F	83871.184	4.5	4P (1F)2D	5061.6034	-1.367	104868.500	4.5	5D (5D)6G	102893.380	5.5	4F(5D)4[6]
4685.4169	-3.632	81734.750	3.5	D5S2(7S)2F	83868.450	2.5	4P (1F)2D	5061.7316	-4.397	104315.370	6.5	4D (3H)2K	102340.300	5.5	4SP(3I)4H
4706.1609	-2.396	108648.695	6.5	5S (1I)2I	106524.400	7.5	4SP(3I)2K	5062.7287	-2.289	102842.119	4.5	5S (3G)4G	104816.800	5.5	4SP(3I)4H
4708.0780	-4.418	105065.630	3.5	5D (5D)6G	102942.200	3.5	4F(5D)4[3]	5074.6297	-0.818	104863.430	5.5	5D (5D)4G	102893.380	5.5	4F(5D)4[6]
4708.7433	-2.461	105449.540	3.5	5D (5D)4G	103326.410	4.5	4F(5D)4[1]	5075.3510	-1.915	105630.750	2.5	5D (5D)4G	103660.980	2.5	4F(5D)2[2]
4716.8078	-2.766	105230.290	0.5	5D (5D)4D	103110.790	1.5	4F(5D)4[1]	5095.2948	-4.034	105630.750	2.5	5D (5D)4G	103668.690	1.5	4F(5D)2[1]
4719.1902	-4.669	104064.670	6.5	4D (3H)4I	106183.100	6.5	4SP(3I)2K	5104.4915	-2.833	108648.695	6.5	5S (1I)2I	106690.170	5.5	4SP(3I)2H
4722.0322	-4.844	49506.934	1.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P	5108.2603	-2.615	100492.020	3.5	5S (3F)2F	102449.100	2.5	4SP(3D)2D
4730.1759	-2.512	105065.630	3.5	5D (5D)6G	102952.120	2.5	4F(5D)4[3]	5115.1							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
5145.8072	-3.177	105063.550	5.5	4D (3F)4G	107006.350	4.5	4SP(3I)2H	5651.6899	-0.686	105449.540	3.5	5D (5D)4G	103680.640	4.5	4F(5D)2[4]
5150.4730	-1.893	104828.160	2.5	5D (5D)6D	102887.120	3.5	4F(5D)4[4]	5669.8961	-1.157	104705.420	3.5	5D (5D)6D	102942.200	3.5	4F(5D)4[3]
5152.5462	-3.985	108630.429	5.5	5S (1I)2I	106690.170	5.5	4SP(3I)2H	5670.8288	-1.275	105127.770	2.5	5D (5D)4D	103364.840	2.5	4F(5D)3[3]
5173.7424	-1.526	103630.750	2.5	5D (5D)4G	103698.440	2.5	4F(5D)2[3]	5673.9830	-1.349	104593.270	5.5	5D (5D)6G	102831.320	5.5	4F(5D)4[5]
5177.1719	-1.466	104873.230	3.5	5D (5D)4D	102942.200	3.5	4F(5D)4[3]	5674.6915	-2.967	105630.750	2.5	5D (5D)4G	103869.020	1.5	4F(5D)1[2]
5200.0020	-4.297	85679.698	2.5	4D (5D)4G	87602.250	1.5	4SP(5G)6F	5699.7003	-3.031	100749.810	2.5	5S (3F)2F	102503.810	1.5	48F(3D)2D
5203.9051	-1.747	104873.230	3.5	5D (5D)4D	102952.120	2.5	4F(5D)4[3]	5701.9759	-1.940	104705.420	3.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]
5209.1384	-1.182	105630.750	2.5	5D (5D)4G	103711.570	3.5	4F(5D)2[4]	5702.8866	-2.616	104593.270	5.5	5D (5D)6G	102840.250	6.5	4F(5D)4[6]
5247.3896	-3.914	105291.010	3.5	4D (3F)4G	107196.200	2.5	180DD	5709.1396	-3.746	105449.540	3.5	5D (5D)4G	103698.440	2.5	4F(5D)2[3]
5269.3777	-2.384	105288.530	1.5	5D (5D)6G	103391.290	1.5	4F(5D)3[2]	5719.0354	-1.355	105630.750	2.5	5D (5D)4G	103882.680	3.5	4F(5D)1[4]
5274.5766	-4.737	100492.020	3.5	5S (3F)2F	98596.650	4.5	4SP(5G)2F	5719.8535	-1.613	105449.540	3.5	5D (5D)4G	103701.720	4.5	4F(5D)2[5]
5281.9252	-4.675	85679.698	2.5	4D (5D)4G	87572.431	2.5	4SP(5G)6F	5723.6522	-4.559	105449.540	3.5	5D (5D)4G	107196.200	2.5	180DD
5295.8088	-4.508	60270.339	3.5	D5S2(7S)4D	62158.110	4.5	4P (3F)4F	5738.8316	-1.262	105127.770	2.5	5D (5D)4D	103385.730	3.5	4F(5D)3[3]
5300.8941	-1.376	104828.160	2.5	5D (5D)6D	102942.200	3.5	4F(5D)4[3]	5739.0623	-1.511	105711.730	2.5	5D (5D)6S	103969.760	3.5	4F(5D)1[3]
5303.0592	-0.895	105211.140	4.5	5D (5D)4G	103325.950	5.5	4F(5D)3[5]	5739.2599	-1.688	104593.270	5.5	5D (5D)6G	102851.360	4.5	4F(5D)4[5]
5304.3535	-1.776	105211.140	4.5	5D (5D)4G	103326.410	4.5	4F(5D)3[4]	5748.1367	-1.736	105065.630	3.5	5D (5D)6G	103326.410	4.5	4F(5D)3[4]
5311.2577	-2.765	105288.530	1.5	5D (5D)6G	103406.250	2.5	4F(5D)3[2]	5752.2709	-2.085	105449.540	3.5	5D (5D)4G	103711.570	3.5	4F(5D)2[4]
5315.2732	-4.395	49506.934	1.5	D6S (3P)4P	47626.076	0.5	4P (5D)4P	5757.2067	-1.538	105127.770	2.5	5D (5D)4D	103391.290	1.5	4F(5D)3[2]
5328.9238	-2.168	104828.160	2.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]	5762.3502	-4.482	105155.090	4.5	4D (3F)4G	103420.160	5.5	4F(5D)3[6]
5333.0457	-4.351	105291.010	3.5	4D (3F)4G	107165.600	3.5	170DD	5795.5549	-1.277	105065.630	3.5	5D (5D)6G	103340.640	3.5	4F(5D)3[4]
5344.3640	-2.524	105288.530	1.5	5D (5D)6G	103417.910	1.5	4F(5D)3[1]	5797.6387	-3.487	104064.670	6.5	4D (3H)4I	102340.300	5.5	48F(3I)4K
5344.7069	-2.295	105211.140	4.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]	5799.5558	-4.439	105711.730	2.5	5D (5D)6S	103987.930	2.5	4F(5D)1[3]
5344.8498	-3.312	105288.530	1.5	5D (5D)6G	103418.080	0.5	4F(5D)3[0]	5803.7003	-4.453	99918.569	1.5	5S (3F)4F	98196.000	1.5	48F(5D)4F
5352.6335	-4.439	104315.370	6.5	4D (3H)2K	106183.100	6.5	4SP(3I)2K	5804.4383	-3.212	104757.110	0.5	5D (5D)6D	103034.760	1.5	4F(5D)4[2]
5360.0376	-2.809	105205.790	2.5	5D (5D)6G	103340.640	3.5	4F(5D)3[4]	5806.0395	-4.913	99573.225	2.5	5S (3F)4F	97851.350	4.5	4P (1G)2H
5374.4452	-4.887	60384.370	0.5	D5S2(7S)4D	62244.520	1.5	4P (3F)4F	5807.2368	-1.522	105127.770	2.5	5D (5D)4D	103406.250	2.5	4F(5D)3[2]
5379.3325	-1.087	105211.140	4.5	5D (5D)4G	103352.680	4.5	4F(5D)3[5]	5821.2699	-1.250	104828.160	2.5	5D (5D)6D	103110.790	1.5	4F(5D)4[1]
5392.0985	-1.234	104705.420	3.5	5D (5D)6D	102887.120	3.5	4F(5D)4[5]	5836.2908	-1.460	105065.630	3.5	5D (5D)6G	103352.680	4.5	4F(5D)3[5]
5400.2540	-3.415	105155.090	4.5	4D (3F)4G	107006.350	2.5	4F(5D)1[2]	5842.2697	-4.427	49100.976	0.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P
5400.2832	-3.401	105288.530	1.5	5D (5D)6G	103437.280	0.5	4F(5D)3[1]	5844.5546	-4.640	60441.033	1.5	D5S2(7S)4D	62151.561	2.5	4P (3F)4F
5407.0301	-2.284	104873.230	3.5	5D (5D)4D	103024.290	2.5	4F(5D)4[2]	5846.8379	-1.882	105127.770	2.5	5D (5D)4D	103417.910	1.5	4F(5D)3[1]
5422.2210	-0.138	104863.430	5.5	5D (5D)4G	103019.670	6.5	4F(5D)4[7]	5852.8282	-4.332	105155.090	4.5	4D (3F)4G	103417.910	1.5	4F(5D)3[1]
5425.3107	-2.560	105711.730	2.5	5D (5D)6S	103869.020	1.5	4F(5D)1[2]	5878.0180	-1.843	105065.630	3.5	5D (5D)6G	103364.840	2.5	4F(5D)3[3]
5430.4974	-1.725	105205.790	2.5	5D (5D)6G	103364.840	2.5	4F(5D)3[3]	5881.1301	-1.116	104593.270	5.5	5D (5D)6F	102893.380	5.5	4F(5D)4[6]
5436.2547	-2.114	105230.290	0.5	5D (5D)4D	103391.290	1.5	4F(5D)3[2]	5883.2067	-3.947	100749.810	2.5	5S (3F)2F	104422.890	2.5	48F(3D)2D
5451.1656	-3.521	104174.270	5.5	4D (3H)4I	102340.300	5.5	4SP(3I)4K	5919.6101	-0.495	105711.730	2.5	5D (5D)6S	104022.890	2.5	4F(5D)0[3]
5465.8288	-3.678	105711.730	2.5	5D (5D)6S	103882.680	3.5	4F(5D)1[4]	5946.7586	-1.705	104705.420	3.5	5D (5D)6D	103024.290	2.5	4F(5D)4[2]
5476.7281	-2.223	105211.140	4.5	5D (5D)4G	103385.730	3.5	4F(5D)3[3]	5949.6076	-4.293	60445.275	2.5	D5S2(7S)4D	62125.600	1.5	4P (3P)2D
5483.8179	-0.803	104705.420	3.5	5D (5D)6D	102882.370	4.5	4F(5D)4[4]	5951.1128	-1.986	105065.630	3.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]
5492.8267	-2.117	105205.790	2.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]	5956.7507	-3.556	104630.430	1.5	5D (5D)6P	102952.120	2.5	4F(5D)4[3]
5498.1435	-1.266	104705.420	3.5	5D (5D)6D	102887.120	3.5	4F(5D)4[4]	6000.7973	-3.909	81639.260	2.5	D5S2(7S)2F	83305.251	3.5	4P (1F)2G
5509.6579	-2.178	105205.790	2.5	5D (5D)6G	103391.290	1.5	4F(5D)3[2]	6002.9989	-2.122	105711.730	2.5	5D (5D)6S	104046.350	2.5	4F(5D)0[3]
5514.9190	-4.836	60270.339	3.5	D5S2(7S)4D	62083.108	4.5	4P (3H)2G	6018.8649	-0.387	105630.750	2.5	5D (5D)4G	103969.760	3.5	4F(5D)1[3]
5516.1027	-1.282	105230.290	0.5	5D (5D)4D	103417.910	1.5	4F(5D)3[1]	6024.7046	-3.703	105065.630	3.5	5D (5D)6G	103406.250	2.5	4F(5D)3[2]
5516.6202	-3.412	105230.290	0.5	5D (5D)4D	103418.080	0.5	4F(5D)3[0]	6051.3991	-4.580	105211.140	4.5	5D (5D)4G	103110.790	1.5	4F(5D)4[1]
5542.1257	-1.204	104828.160	2.5	5D (5D)6D	103024.290	2.5	4F(5D)4[2]	6072.4977	-3.304	104757.110	0.5	5D (5D)6D	106863.200	3.5	160DD
5553.3934	-4.798	88189.030	0.5	4D (5D)4P	86388.820	0.5	4P (3P)4D	6077.1635	-4.838	88189.030	0.5	4D (5D)4P	86543.974	1.5	4P (3P)4D
5555.4610	-2.333	105205.790	2.5	5D (5D)6G	103406.250	2.5	4F(5D)3[2]	6083.6205	-1.795	105288.530	1.5	5D (5D)6G	103645.220	1.5	4F(5D)2[2]
5568.9475	-4.980	60270.339	3.5	D5S2(7S)4D	62065.521	3.5	4P (3F)4F	6085.4350	-2.109	105630.750	2.5	5D (5D)4G	103987.930	2.5	4F(5D)1[3]
5574.4810	-1.740	104828.160	2.5	5D (5D)6D	103034.760	1.5	4F(5D)4[2]	6091.6682	-4.359	10524.461	4.5	4D (3F)4H	107165.600	3.5	170DD
5575.6935	-1.740	105230.290	0.5	5D (5D)4D	103437.280	0.5	4F(5D)3[1]	6099.3689	-3.682	108804.667	3.5	5S (3D)4D	107165.600	3.5	170DD
5582.0133	-0.652	105211.140	4.5	5D (5D)4G	103420.160	5.5	4F(5D)3[6]	6108.6004	-2.034	104588.710	1.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]
5589.5661	-2.276	105449.540	3.5	5D (5D)4G	103660.980	2.5	4F(5D)2[2]	6127.8084	-3.104	104757.110	0.5	5D (5D)6D	103125.650	0.5	4F(5D)4[1]
5591.6920	-3.833	105205.790	2.5	5D (5D)6G	103417.910	1.5	4F(5D)3[1]	6133.4138	-4.333	77230.900	4.5	D5S2(7S)2H	75600.931	3.5	4P (3D)2F
5594.0386	-1.434	105127.770	2.5	5D (5D)4D	103340.640	3.5	4F(5D)3[4]	6134.0122	-3.644	104119.710	7.5	4D (3H)2K	102489.900	6.5	48F(3I)4K
5638.5888	-1.710	105630.750	2.5	5D (5D)4G	103857.740	2.5	4F(5D)1[2]	6140.6622	-4.899	99822.045	2.5	5S (3F)4F	98196.000	1.5	48F(5D)4F
5639.3839	-1.317	105449.540	3.5	5D (5D)4G	103676.780	3.5	4F(5D)2[3]	6142.5298	-3.206	105288.530	1.5	5D (5D)6G	103660.980	2.5	4F(5D)2[2]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
6146.0417	-3.099	105063.550	5.5	4D (3F)4G	106690.170	5.5	4SP(3I)2H	6720.7664	-2.073	104828.160	2.5	5D (5D)6D	103340.640	3.5	4F(5D)3[4]
6155.6577	-2.947	108630.429	5.5	5S (1I)2I	107006.350	4.5	4SP(3I)2H	6720.8567	-2.274	104873.230	3.5	5D (5D)4D	103385.730	3.5	4F(5D)3[3]
6170.2200	-4.947	60445.275	2.5	D5S2(7S)4D	62065.521	3.5	4P (3F)4F	6735.5527	-1.376	104426.460	2.5	5D (5D)6F	102942.200	3.5	4F(5D)4[3]
6171.7666	-2.307	105288.530	1.5	5D (5D)6G	103668.690	1.5	4F(5D)2[1]	6742.2961	-3.727	104868.500	4.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]
6197.3926	-4.709	88157.116	1.5	4D (5D)4P	86543.974	1.5	4P (3P)4D	6743.2966	-2.854	105127.770	2.5	5D (5D)4D	103645.220	1.5	4F(5D)2[2]
6200.5907	-3.442	105288.530	1.5	5D (5D)6G	103676.220	0.5	4F(5D)2[1]	6746.3045	-4.555	105524.461	4.5	4D (3F)4H	107006.350	4.5	4SP(3I)2H
6217.7518	-1.665	105630.750	2.5	5D (5D)4G	104022.890	3.5	4F(5D)0[3]	6751.4847	-4.614	99332.102	4.5	5S (3H)2H	97851.350	4.5	4P (1G)2H
6219.1520	-2.515	105398.852	5.5	4D (3F)4H	107006.350	4.5	4SP(3I)2H	6755.9194	-1.873	105449.540	3.5	5D (5D)4G	103969.760	3.5	4F(5D)1[3]
6221.9310	-4.512	105589.420	3.5	4D (3F)4H	107196.200	2.5	180DD	6764.4219	-3.526	104588.710	1.5	5D (5D)6D	103110.790	1.5	4F(5D)4[1]
6224.4103	-3.335	104630.430	1.5	5D (5D)6P	103024.290	2.5	4F(5D)4[2]	6780.8473	-1.745	104426.460	2.5	5D (5D)6F	102952.120	2.5	4F(5D)4[3]
6265.2518	-2.758	104630.430	1.5	5D (5D)6P	103034.760	1.5	4F(5D)4[2]	6784.9892	-4.453	104366.820	6.5	5D (5D)6G	102893.380	5.5	4F(5D)4[6]
6287.2381	-1.736	105288.530	1.5	5D (5D)6G	103698.440	2.5	4F(5D)2[3]	6801.4453	-1.940	77861.625	4.5	5S (5D)6D	79331.500	3.5	4SP(5S)8P
6290.4029	-4.790	105291.010	3.5	4D (3F)4H	103701.720	4.5	4F(5D)2[15]	6803.2273	-1.961	104411.690	4.5	5D (5D)6D	102942.200	3.5	4F(5D)4[3]
6307.1501	-1.594	105230.290	0.5	5D (5D)4D	103645.220	1.5	4F(5D)2[2]	6806.3120	-4.622	88157.116	1.5	4D (5D)4P	89625.940	1.5	4SP(5P)6P
6309.8172	-4.645	105630.750	2.5	5D (5D)4G	104046.350	2.5	4F(5D)0[3]	6814.8676	-2.716	104873.230	3.5	5D (5D)4D	103406.250	2.5	4F(5D)3[2]
6325.9075	-1.269	104411.690	4.5	5D (5D)6D	102831.320	5.5	4F(5D)4[5]	6815.7503	-2.344	105127.770	2.5	5D (5D)4D	103660.980	2.5	4F(5D)4[2]
6345.2600	-0.503	105449.540	3.5	5D (5D)4G	103873.990	4.5	4F(5D)1[4]	6831.9127	-2.253	104828.160	2.5	5D (5D)6D	103364.840	2.5	4F(5D)3[3]
6348.4029	-3.330	104064.670	6.5	4D (3H)4I	102489.900	6.5	4SP(3I)4K	6833.1268	-1.643	104588.710	1.5	5D (5D)6D	103125.620	0.5	4F(5D)4[1]
6353.1230	-0.340	104593.270	5.5	5D (5D)6G	103019.670	6.5	4F(5D)4[7]	6834.7197	-4.183	98294.401	5.5	5S (3H)4H	9757.120	4.5	4P (1G)2G
6380.4516	-2.565	105449.540	3.5	5D (5D)4G	103882.680	3.5	4F(5D)1[4]	6839.9056	-3.617	105449.540	3.5	5D (5D)4G	103987.930	2.5	4F(5D)1[3]
6401.9431	-1.410	105230.290	0.5	5D (5D)4D	103668.690	1.5	4F(5D)2[1]	6851.7658	-2.765	105127.770	2.5	5D (5D)4D	103668.690	1.5	4F(5D)2[1]
6406.1685	-2.444	105205.790	2.5	5D (5D)6G	103645.220	1.5	4F(5D)2[2]	6852.9400	-4.116	87985.628	2.5	4D (5D)4P	89444.458	2.5	4SP(3P)6P
6407.1539	-3.037	104411.690	4.5	5D (5D)6D	102851.360	4.5	4F(5D)4[5]	6867.4957	-4.216	60270.339	3.5	D5S2(7S)4D	61726.077	3.5	4P (3P)4D
6432.9627	-1.573	105230.290	0.5	5D (5D)4D	103676.220	0.5	4F(5D)2[1]	6889.9678	-2.147	105127.770	2.5	5D (5D)4D	103676.780	3.5	4F(5D)2[3]
6433.4595	-1.702	104588.710	1.5	5D (5D)6D	103034.760	1.5	4F(5D)4[2]	6902.5743	-0.384	104868.500	4.5	5D (5D)6G	103420.160	5.5	4F(5D)3[6]
6463.1143	-1.082	104873.230	3.5	5D (5D)4D	103326.410	4.5	4F(5D)3[1]	6921.3071	-4.928	105414.180	2.5	4D (3F)4G	103969.760	3.5	4F(5D)1[3]
6471.5236	-1.733	105205.790	2.5	5D (5D)6G	103660.980	2.5	4F(5D)2[2]	6926.8220	-2.855	104863.430	5.5	5D (5D)4G	103420.160	5.5	4F(5D)3[6]
6481.0051	-3.386	104868.500	4.5	5D (5D)6G	103325.950	5.5	4F(5D)3[5]	6930.8559	-1.595	104828.160	2.5	5D (5D)6D	103385.730	3.5	4F(5D)3[3]
6482.9383	-1.195	104868.500	4.5	5D (5D)6G	103326.410	4.5	4F(5D)3[4]	6931.7209	-0.385	104863.430	5.5	5D (5D)4G	103421.180	6.5	4F(5D)3[6]
6494.5200	-2.082	104426.460	2.5	5D (5D)6F	102887.120	3.5	4F(5D)4[4]	6948.4637	-0.968	104380.940	3.5	5D (5D)6F	102942.200	3.5	4F(5D)4[3]
6502.3769	-1.181	104863.430	5.5	5D (5D)4G	103325.950	5.5	4F(5D)3[5]	6957.6750	-2.576	104828.160	2.5	5D (5D)6D	103391.290	1.5	4F(5D)3[2]
6503.9844	-3.597	105205.790	2.5	5D (5D)6G	103668.690	1.5	4F(5D)2[1]	6987.2409	-2.152	105288.530	1.5	5D (5D)6G	103857.740	2.5	4F(5D)1[2]
6504.3229	-2.258	104863.430	5.5	5D (5D)4G	103326.410	4.5	4F(5D)3[4]	6994.3781	-2.152	105127.770	2.5	5D (5D)4D	103698.440	2.5	4F(5D)2[3]
6510.7616	-1.555	104366.820	6.5	5D (5D)6G	102831.320	5.5	4F(5D)4[5]	6996.8747	-2.648	104380.940	3.5	5D (5D)6F	102952.120	2.5	4F(5D)4[3]
6512.5429	-4.777	105155.090	4.5	4D (3F)4G	106690.170	5.5	4SP(3I)2H	7000.5172	-3.117	105449.540	3.5	5D (5D)4G	104022.890	3.5	4F(5D)0[3]
6515.5989	-2.926	105211.140	4.5	5D (5D)4G	103676.780	3.5	4F(5D)2[3]	7030.8771	-1.552	104828.160	2.5	5D (5D)6D	103406.250	2.5	4F(5D)3[2]
6523.1239	-1.369	104873.230	3.5	5D (5D)4D	103340.640	3.5	4F(5D)3[4]	7042.7644	-2.553	105288.530	1.5	5D (5D)6G	103869.020	1.5	4F(5D)1[2]
6532.0316	-1.729	105211.140	4.5	5D (5D)4G	103680.640	4.5	4F(5D)2[4]	7055.1400	-4.874	105291.010	3.5	4D (3F)4G	103873.990	4.5	4F(5D)1[4]
6535.9605	-2.123	104380.940	3.5	5D (5D)6F	102851.360	4.5	4F(5D)4[5]	7059.2250	-1.228	105127.770	2.5	5D (5D)4D	103711.570	3.5	4F(5D)2[4]
6538.3970	-3.362	105205.790	2.5	5D (5D)6G	103676.780	3.5	4F(5D)2[3]	7089.0086	-1.847	104828.160	2.5	5D (5D)6D	103417.910	1.5	4F(5D)3[1]
6543.3184	-1.978	104868.500	4.5	5D (5D)6G	103340.640	3.5	4F(5D)3[4]	7117.2708	-2.784	105065.630	3.5	5D (5D)6G	103660.980	2.5	4F(5D)2[2]
6548.8477	-0.648	104366.820	6.5	5D (5D)6G	102840.250	6.5	4F(5D)4[6]	7129.8590	-1.094	104426.460	2.5	5D (5D)6F	103024.290	2.5	4F(5D)4[2]
6574.7752	-1.951	104873.230	3.5	5D (5D)4D	103352.680	4.5	4F(5D)3[5]	7134.1685	-2.493	105288.530	1.5	4D (3F)4H	106690.170	5.5	4SP(3I)2H
6576.7648	-0.442	105211.140	4.5	5D (5D)4G	103691.050	5.5	4F(5D)2[5]	7183.4982	-1.573	104426.460	2.5	5D (5D)6F	103034.760	1.5	4F(5D)4[2]
6578.7123	-4.246	104630.430	1.5	5D (5D)6P	102310.790	1.5	4F(5D)4[1]	7194.6699	-4.534	88157.116	1.5	4D (5D)4D	103676.777	2.5	4P (3P)4D
6584.4751	-1.063	104411.690	4.5	5D (5D)6D	102893.380	5.5	4F(5D)4[6]	7198.2392	-1.916	105065.630	3.5	5D (5D)6G	103676.570	2.5	4F(5D)2[3]
6595.2913	-1.779	104868.500	4.5	5D (5D)6G	103352.680	4.5	4F(5D)3[5]	7200.3648	-3.568	103878.340	7.5	4D (3H)4I	102489.900	6.5	4SP(3I)4K
6617.4247	-3.203	104863.430	5.5	5D (5D)4G	103352.680	4.5	4F(5D)3[5]	7218.3008	-1.127	105065.630	3.5	5D (5D)6G	103680.640	4.5	4F(5D)2[4]
6623.2556	-1.996	105211.140	4.5	5D (5D)4D	103701.720	4.5	4F(5D)2[5]	7249.6026	-1.436	104705.420	3.5	5D (5D)6D	103326.410	4.5	4F(5D)3[4]
6627.7782	-1.891	104873.230	3.5	5D (5D)4D	103364.840	2.5	4F(5D)3[3]	7312.2788	-3.355	105065.630	3.5	5D (5D)6G	103698.440	2.5	4F(5D)2[3]
6632.3511	-1.848	105205.790	2.5	5D (5D)6G	103698.440	2.5	4F(5D)2[3]	7319.6135	-2.009	104757.110	0.5	5D (5D)6D	103391.290	1.5	4F(5D)3[2]
6643.6784	-2.419	104630.430	1.5	5D (5D)6P	103125.650	0.5	4F(5D)4[1]	7325.1912	-1.640	104705.420	3.5	5D (5D)6D	103340.640	3.5	4F(5D)3[4]
6652.0865	-4.863	87985.628	2.5	4D (5D)4P	86482.750	3.5	4P (1F)2F	7329.8637	-0.564	105065.630	3.5	5D (5D)6G	103701.720	4.5	4F(5D)2[5]
6666.7607	-4.129	105211.140	4.5	5D (5D)4G	103711.570	3.5	4F(5D)2[4]	7334.7575	-4.959	98445.400	4.5	5S (3H)4H	99808.400	3.5	4P (1G)2G
6671.2095	-0.952	104380.940	3.5	5D (5D)6F	102882.370	4.5	4F(5D)4[4]	7344.0790	-1.320	105230.290	0.5	5D (5D)4D	103869.020	1.5	4F(5D)1[2]
6690.6308	-1.177	105205.790	2.5	5D (5D)6G	103711.570	3.5	4F(5D)2[4]	7357.3261	-4.621	98294.401	5.5	5S (3H)4H	99653.220	4.5	4SP(3G)2G
6692.4224	-2.977	104380.940	3.5	5D (5D)6F											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
7383.1843	-1.740	105065.630	3.5	5D (5D)6G	103711.570	3.5	4F(5D)2[4]	8382.8261	-0.819	104873.230	3.5	5D (5D)4D	103680.640	4.5	4F(5D)2[4]
7390.3887	-0.844	104705.420	3.5	5D (5D)6D	103352.680	4.5	4F(5D)3[5]	8388.9458	-2.777	104868.500	4.5	5D (5D)6G	103676.780	3.5	4F(5D)2[3]
7416.1006	-2.739	105205.790	2.5	5D (5D)6G	103857.740	2.5	4F(5D)1[2]	8389.5090	-0.714	105065.630	3.5	5D (5D)6G	103873.990	4.5	4F(5D)1[4]
7419.3258	-4.828	86124.301	4.5	4D (5D)4F	87471.765	4.5	48F(5G)6F	8413.4437	-4.210	105211.140	4.5	5D (5D)4G	104022.890	3.5	4F(5D)3[1]
7421.0552	-2.009	104366.820	6.5	5D (5D)6G	103019.670	6.5	4F(5D)4[7]	8413.7411	-4.980	105211.140	4.5	5S (3H)4H	99757.120	4.5	4F(5D)2[2]
7429.7857	-4.383	87985.628	2.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	8416.2061	-1.990	104868.500	4.5	5D (5D)6G	103680.640	4.5	4F(5D)2[4]
7457.4248	-2.245	104705.420	3.5	5D (5D)6D	103364.840	2.5	4F(5D)3[1]	8451.1387	-1.600	105065.630	3.5	5D (5D)6G	103882.680	3.5	4F(5D)1[4]
7465.1094	-3.571	104757.110	0.5	5D (5D)6D	103417.910	1.5	4F(5D)3[1]	8451.2102	-2.287	104828.160	2.5	5D (5D)6D	103645.220	1.5	4F(5D)2[1]
7466.0571	-2.010	104757.110	0.5	5D (5D)6D	103418.080	0.5	4F(5D)3[0]	8451.9459	-1.612	105205.790	2.5	5D (5D)6G	104022.890	3.5	4F(5D)0[1]
7467.6800	-4.302	105524.461	4.5	4D (3F)4H	106863.200	3.5	160DD	8452.2819	-4.981	104863.430	5.5	5D (5D)4G	103680.640	4.5	4F(5D)2[4]
7476.5542	-2.173	105211.140	4.5	5D (5D)4G	103873.990	4.5	4F(5D)1[4]	8454.6408	-1.420	104588.710	1.5	5D (5D)6D	103406.250	2.5	4F(5D)3[2]
7478.6796	-3.942	105205.790	2.5	5D (5D)6G	103869.020	1.5	4F(5D)4[7]	8458.6825	-4.117	99573.225	4.5	5S (3F)4F	98391.330	3.5	4SP(5D)4D
7488.2025	-3.510	104315.370	6.5	4D (3H)2K	102980.300	5.5	48F(3I)4I	8486.1464	-2.726	104120.270	2.5	5D (5D)6F	102942.200	3.5	4F(5D)4[3]
7496.0238	-4.163	99688.337	3.5	5S (3F)4F	98354.660	2.5	48F(5D)4F	8490.6149	-0.535	104868.500	4.5	5D (5D)6G	103691.050	5.5	4F(5D)2[1]
7525.4614	-4.123	105211.140	4.5	5D (5D)4G	103882.680	3.5	4F(5D)1[4]	8514.9931	-4.443	88157.116	1.5	4D (5D)4P	98331.195	1.5	5P (5D)6D
7536.5808	-0.022	104366.820	6.5	5D (5D)6G	103040.320	7.5	4F(5D)4[7]	8522.0265	-1.780	104593.270	5.5	4D (5D)6G	103420.160	5.5	4F(5D)3[16]
7555.8907	-0.524	105205.790	2.5	5D (5D)6G	103882.680	3.5	4F(5D)1[4]	8527.3329	-2.379	104863.430	5.5	5D (5D)4G	103691.050	5.5	4F(5D)2[1]
7574.6683	-1.650	104757.110	0.5	5D (5D)6D	103437.280	0.5	4F(5D)3[1]	8529.4427	-0.351	104593.270	5.5	5D (5D)6G	103421.180	6.5	4F(5D)3[16]
7575.4719	-1.330	104705.420	3.5	5D (5D)6D	103385.730	3.5	4F(5D)3[3]	8533.6656	-1.020	104873.230	3.5	5D (5D)4D	103701.720	4.5	4F(5D)2[1]
7579.7509	-4.146	99824.045	2.5	5S (3F)4F	98505.100	2.5	48F(5D)4D	8538.8406	-1.318	104588.710	1.5	5D (5D)6D	103417.910	1.5	4F(5D)3[1]
7598.6186	-1.071	104426.460	2.5	5D (5D)6F	103110.790	1.5	4F(5D)4[1]	8540.0806	-1.713	104588.710	1.5	5D (5D)6D	103418.080	0.5	4F(5D)3[10]
7606.8344	-4.277	88157.116	1.5	4D (5D)4P	89471.365	0.5	5P (5D)6D	8558.2113	-1.000	104120.270	2.5	5D (5D)6F	102952.120	2.5	4F(5D)4[3]
7686.6635	-0.531	105288.530	1.5	5D (5D)6G	103987.930	2.5	4F(5D)1[3]	8565.3237	-1.405	104828.160	2.5	5D (5D)6D	103660.980	2.5	4F(5D)2[1]
7695.1242	-2.099	104705.420	3.5	5D (5D)6D	103406.250	2.5	4F(5D)3[2]	8568.2601	-1.403	104868.500	4.5	5D (5D)6G	103701.720	4.5	4F(5D)2[1]
7707.9572	-4.309	99688.337	3.5	5S (3F)4F	98391.330	3.5	48F(3D)4H	8603.6542	-4.833	104863.430	5.5	5D (5D)4G	103701.720	4.5	4F(5D)2[1]
7741.9152	-4.164	105398.852	5.5	4D (3F)4H	106690.170	5.5	48F(3I)2H	8606.0246	-2.361	104873.230	3.5	5D (5D)4D	103711.570	3.5	4F(5D)2[1]
7760.6841	-4.741	99824.045	2.5	5S (3F)4F	98335.850	3.5	48F(5D)4F	8622.2796	-2.982	104828.160	2.5	5D (5D)6D	103668.690	1.5	4F(5D)2[1]
7805.4801	-4.721	60445.275	2.5	D5S2 (7S)4D	61726.077	3.5	4P (3P)4D	8622.5027	-3.363	105205.790	2.5	5D (5D)6G	104046.350	2.5	4F(5D)0[3]
7871.6837	-3.530	105127.770	2.5	5D (5D)4D	103857.740	2.5	4F(5D)1[2]	8633.1504	-2.407	105127.770	2.5	5D (5D)4D	103969.760	3.5	4F(5D)1[4]
7881.1160	-4.730	104119.710	7.5	4D (3H)2K	102851.720	7.5	48F(3I)4K	8641.2095	-3.776	104868.500	4.5	5D (5D)6G	103711.570	3.5	4F(5D)2[1]
7888.5163	-1.182	104593.270	5.5	5D (5D)6G	103325.950	5.5	4F(5D)3[5]	8674.5226	-4.176	99688.337	3.5	5S (3F)4F	98535.850	3.5	4SP(5D)4F
7891.3807	-2.195	104593.270	5.5	5D (5D)6G	103326.410	4.5	4F(5D)3[4]	8682.4857	-1.705	104588.710	1.5	5D (5D)6D	103437.280	0.5	4F(5D)3[1]
7899.2995	-2.273	104630.430	1.5	5D (5D)6P	103364.840	2.5	4F(5D)3[3]	8682.8628	-1.051	104828.160	2.5	5D (5D)6D	103676.780	3.5	4F(5D)2[1]
7933.4634	-4.396	103600.440	6.5	4D (3H)4H	102340.300	5.5	48F(3I)4K	8697.4419	-0.803	104000.810	3.5	5D (5D)6F	102851.360	4.5	4F(5D)4[5]
7942.2240	-3.374	105127.770	2.5	5D (5D)4D	103869.020	1.5	4F(5D)1[2]	8705.1742	-4.884	99918.569	1.5	5S (3F)4F	98770.140	1.5	4SP(5D)4D
8029.3589	-1.888	105127.770	2.5	5D (5D)4D	103882.680	3.5	4F(5D)1[4]	8747.0346	-4.052	87985.628	2.5	4D (5D)4P	89128.561	3.5	4SP(5P)6P
8042.3420	-4.906	105763.270	5.5	4D (3F)2H	107006.350	4.5	48F(3I)2H	8770.7701	-2.767	105127.770	2.5	5D (5D)4D	103987.930	2.5	4F(5D)1[3]
8048.1690	-1.747	105288.530	1.5	5D (5D)6G	104046.350	2.5	4F(5D)0[3]	8817.2683	-4.394	87985.628	2.5	4D (5D)4P	89119.457	2.5	5P (5D)6D
8053.3556	-4.138	105211.140	4.5	5D (5D)4G	103969.760	3.5	4F(5D)1[3]	8849.3384	-2.625	104828.160	2.5	5D (5D)6D	103698.440	2.5	4F(5D)2[1]
8058.4839	-3.407	104593.270	5.5	5D (5D)6G	103352.680	4.5	4F(5D)3[5]	8931.9597	-0.482	103950.590	4.5	5D (5D)6F	102831.320	5.5	4F(5D)4[5]
8067.9136	-2.485	104630.430	1.5	5D (5D)6P	103391.290	1.5	4F(5D)3[2]	8938.5882	-2.011	104000.810	3.5	5D (5D)6F	102882.370	4.5	4F(5D)4[4]
8088.2135	-1.247	105205.790	2.5	5D (5D)6G	103969.760	3.5	4F(5D)1[3]	8953.3979	-1.307	104828.160	2.5	5D (5D)6D	103711.570	3.5	4F(5D)2[1]
8107.1034	-1.231	104120.270	2.5	5D (5D)6P	102887.120	3.5	4F(5D)4[4]	8969.1740	-4.643	73492.215	3.5	D5S2 (7S)4F	74606.841	2.5	4P (3D)2D
8166.5070	-2.190	104630.430	1.5	5D (5D)6P	103406.250	2.5	4F(5D)3[2]	8971.8786	-3.390	100749.810	2.5	5S (3F)2F	99635.520	3.5	4SP(3G)2G
8168.5755	-2.722	104588.710	1.5	5D (5D)6D	103364.840	2.5	4F(5D)3[3]	8976.7122	-0.829	104000.810	3.5	5D (5D)6P	102887.120	3.5	4F(5D)4[4]
8175.9239	-4.891	104174.270	5.5	4D (3H)4I	102951.500	4.5	48F(3I)4I	8991.2442	-2.888	104757.110	0.5	5D (5D)6D	103645.220	1.5	4F(5D)2[1]
8208.8865	-1.439	105205.790	2.5	5D (5D)6G	103987.930	2.5	4F(5D)1[3]	9002.1742	-4.378	103600.440	6.5	4D (3H)4D	102489.900	6.5	4SP(3I)4K
8219.0096	-3.566	103600.440	6.5	4D (3H)4H	104816.800	5.5	48F(3I)4H	9045.0153	-0.617	103936.600	5.5	5D (5D)6F	102831.320	5.5	4F(5D)4[5]
8245.0389	-1.830	104630.430	1.5	5D (5D)6P	103417.910	1.5	4F(5D)3[1]	9048.9822	-1.472	105127.770	2.5	5D (5D)4D	104022.890	3.5	4F(5D)0[3]
8246.1950	-3.426	104630.430	1.5	5D (5D)6P	103418.080	0.5	4F(5D)3[0]	9094.7978	-0.685	103950.590	4.5	5D (5D)6F	102851.360	4.5	4F(5D)4[1]
8246.8753	-1.881	104873.230	3.5	5D (5D)4D	103660.980	2.5	4F(5D)2[2]	9118.6889	-0.234	103936.600	5.5	5D (5D)6F	102840.250	6.5	4F(5D)4[6]
8276.6363	-3.939	103608.909	4.5	5S (3G)2G	104816.800	5.5	48F(3I)4H	9121.7673	-1.861	104120.270	2.5	5D (5D)6P	103024.290	2.5	4F(5D)4[2]
8276.6432	-3.708	105065.630	3.5	5D (5D)6G	103857.740	2.5	4F(5D)1[4]	9122.6830	-1.874	105065.630	3.5	5D (5D)6G	103969.760	3.5	4F(5D)1[3]
8349.0125	-2.325	104888.710	1.5	5D (5D)6D	103391.290	1.5	4F(5D)3[2]	9139.8222	-2.643	78237.685	3.5	5S (5D)6D	79331.500	3.5	4SP(5S)6P
8355.7813	-1.119	104873.230	3.5	5D (5D)4D	103676.780	3.5	4F(5D)2[3]	9157.6382	-4.709	99688.337	3.5	5S (3F)4F	98596.650	4.5	4SP(5D)4F
8373.1371	-2.855	104174.270	5.5	4D (3H)4I	102980.300	5.5	48F(3I)4I	9185.1258	-1.169	104757.110	0.5	5D (5D)6D	103668.690	1.5	4F(5D)2[1]
8378.8916	-1.918	104630.430	1.5	5D (5D)6P											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
9209.7489	-1.154	104120.270	2.5	5D (5D)6P	103034.760	1.5	4F(5D)4I2]
9211.7007	-0.966	104411.690	4.5	5D (5D)6D	103326.410	4.5	4F(5D)3I4]
9212.0403	-1.558	103936.600	5.5	5D (5D)6F	102851.360	4.5	4F(5D)4I5]
9219.4312	-2.781	104064.670	6.5	4D (3H)4I	102980.300	5.5	4SP(3I)4I
9244.5808	-2.048	105127.770	2.5	5D (5D)4D	104046.350	2.5	4F(5D)0I3]
9249.1138	-1.703	104757.110	0.5	5D (5D)6D	103676.220	0.5	4F(5D)2I1]
9276.4912	-3.002	105065.630	3.5	5D (5D)6G	103987.930	2.5	4F(5D)1I3]
9334.0876	-1.794	104411.690	4.5	5D (5D)6D	103340.640	3.5	4F(5D)3I4]
9358.8161	-1.173	103950.590	4.5	5D (5D)6F	102882.370	4.5	4F(5D)4I4]
9385.8785	-4.374	103751.660	5.5	4D (3H)4H	104816.800	5.5	4SP(3I)4H
9400.6174	-1.379	103950.590	4.5	5D (5D)6F	102887.120	3.5	4F(5D)4I4]
9440.2079	-1.556	104411.690	4.5	5D (5D)6D	103352.680	4.5	4F(5D)3I5]
9441.9019	-2.074	103600.440	6.5	4D (3H)4H	104659.260	6.5	4SP(3I)4H
9443.7749	-1.161	104000.810	3.5	5D (5D)6P	102942.200	3.5	4F(5D)4I3]
9456.2808	-2.048	103950.590	4.5	5D (5D)6F	102893.380	5.5	4F(5D)4I6]
9467.3044	-4.257	87985.628	2.5	4D (5D)4P	86929.649	3.5	4P (3P)4D
9480.3131	-0.799	104380.940	3.5	5D (5D)6F	103326.410	4.5	4F(5D)3I4]
9483.0109	-1.764	103936.600	5.5	5D (5D)6F	102882.370	4.5	4F(5D)4I4]
9485.9352	-4.792	99824.045	2.5	5S (3F)4F	98770.140	1.5	4SP(5D)4D
9490.7531	-4.967	104174.270	5.5	4D (3H)4I	103120.900	6.5	4SP(3I)4I
9533.1076	-1.191	104000.810	3.5	5D (5D)6P	102952.120	2.5	4F(5D)4I3]
9544.6209	-2.389	78237.685	3.5	5S (5D)6D	79285.110	2.5	4SP(5S)6P
9571.8994	-3.310	104705.420	3.5	5D (5D)6D	103660.980	2.5	4F(5D)2I2]
9583.0933	-2.879	103936.600	5.5	5D (5D)6F	102893.380	5.5	4F(5D)4I6]
9587.5046	-3.109	105065.630	3.5	5D (5D)6G	104022.890	3.5	4F(5D)0I3]
9596.8830	-4.875	73393.745	4.5	D5S2(7S)4F	72352.024	3.5	4P (3D)4F
9606.0213	-1.977	104426.460	2.5	5D (5D)6F	103385.730	3.5	4F(5D)3I3]
9609.9919	-0.997	104380.940	3.5	5D (5D)6F	103340.640	3.5	4F(5D)3I4]
9637.0884	-4.126	99573.225	4.5	5S (3F)4F	98535.850	3.5	4SP(5D)4F
9657.6162	-1.864	104426.460	2.5	5D (5D)6F	103391.290	1.5	4F(5D)3I2]
9718.9246	-1.828	104705.420	3.5	5D (5D)6D	103676.780	3.5	4F(5D)2I3]
9722.5163	-2.301	104380.940	3.5	5D (5D)6F	103352.680	4.5	4F(5D)3I5]
9733.1178	-3.285	103878.340	7.5	4D (3H)4I	102851.200	7.5	4SP(3I)4K
9744.3122	-2.183	104411.690	4.5	5D (5D)6D	103385.730	3.5	4F(5D)3I3]
9755.5325	-0.952	104705.420	3.5	5D (5D)6D	103680.640	4.5	4F(5D)2I4]
9799.2321	-3.538	104426.460	2.5	5D (5D)6F	103406.250	2.5	4F(5D)3I2]
9838.8688	-1.607	104380.940	3.5	5D (5D)6F	103364.840	2.5	4F(5D)3I3]
9844.7790	-2.416	104873.230	3.5	5D (5D)4D	103857.740	2.5	4F(5D)1I2]
9903.3905	-1.636	104120.270	2.5	5D (5D)6P	103110.790	1.5	4F(5D)4I1]
9912.5225	-2.927	104426.460	2.5	5D (5D)6F	103417.910	1.5	4F(5D)3I1]
9914.0953	-1.361	103950.590	4.5	5D (5D)6F	102942.200	3.5	4F(5D)4I3]
9927.9773	-2.755	104705.420	3.5	5D (5D)6D	103698.440	2.5	4F(5D)2I3]
9960.4210	-2.475	104705.420	3.5	5D (5D)6D	103701.720	4.5	4F(5D)2I5]

Table 8. Comparison with other lifetimes.

	E	J	AS	BELS	LIFETIMES (NS) SW	A	DMS	K	RATIO K/OTHER
4P (5D)6D	38858.958 38660.043 38458.981	2.5 3.5 4.5	{ 3.9 +/- 0.4 } { 3.9 +/- 0.4 } { 3.9 +/- 0.4 }	4.0 +/- 0.4				2.91 2.92 2.94	.75 .73 .75
4P (5D)6F	42439.822 42401.302 42237.033 42114.818	0.5 1.5 3.5 4.5	{ 3.2 +/- 0.3 } { 3.2 +/- 0.3 } { 3.2 +/- 0.3 } { 3.2 +/- 0.3 }	3.5 +/- 0.3				2.72 2.72 2.70 2.67	.85 .85 .84 .83,.76
4P (5D)6P	43620.957 42658.224	1.5 3.5	{ 3.8 +/- 0.3 } { 3.8 +/- 0.3 }	4.0 +/- 0.4				2.95 2.99	.78,.74 .79
4P (3H)2I	62662.244 62293.164	5.5 6.5			4.83 +/- 0.4 4.6 +/- 1.0	4.8 +/- 0.3 4.8 +/- 0.3		3.68 3.68	.76,.77 .80,.77
4P (3F)2G	65109.679 64831.943	3.5 4.5			3.81 +/- 0.4 4.24 +/- 0.4	{ 4.3 +/- 0.3 } { 4.3 +/- 0.3 }		3.13 3.02	.82,.73 .71,.70
4P (3H)2H	65556.280 65363.595	4.5 5.5			{ 3.6 +/- 1.0 } { 3.6 +/- 1.0 }	{ 3.8 +/- 0.6 } { 3.8 +/- 0.6 }		2.80 2.95	.78,.78 .82,.78
4P (1I)2K	70986.677 71432.680	6.5 7.5			4.68 +/- 0.4 4.44 +/- 0.4	4.5 +/- 0.3 4.5 +/- 0.3		3.39 3.28	.72,.75 .74,.73
4P (1G)2G	73143.289 73091.594	3.5 4.5					{ 1.39 +/- 0.30 } { 1.39 +/- 0.30 }	1.88 1.97	1.35 1.42
4SP (5S)6P	79246.170 79285.110 79331.500	1.5 2.5 3.5					{ 0.88 +/- 0.04 } { 0.88 +/- 0.04 } { 0.88 +/- 0.04 }	0.59 0.59 0.60	.67 .67 .68
5P (5D)6F	87635.922 87602.250 87572.430 87537.648 87411.766 87340.984	0.5 1.5 2.5 3.5 4.5 5.5					{ 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 }	4.33 3.44 2.87 2.48 2.24 2.10	1.87 1.82 1.52 1.31 1.19 1.11

^ Levels in brackets were not resolved

	WL(NM)	JLO	ELO	JUP	EUP	K	KP	NBS	MOSM	MS	AS	SW	DMFY	NS	CB
V	105.5262	4.5	0.000	3.5	94763.219	-0.839							-1.000		
A	106.3972	4.5	0.000	3.5	93987.457	-1.621							-1.420		
C	109.6877	4.5	0.000	3.5	91167.937	-0.189							-0.432		
	110.6360	4.5	0.000	4.5	90386.528	-1.775							-1.252		
	112.1975	4.5	0.000	3.5	89128.561	-0.544							-0.699		
	113.3665	4.5	0.000	3.5	88209.450	-1.210							-1.201		
	114.2366	4.5	0.000	3.5	87537.652	-1.405	-2.981						-1.161		
	114.4938	4.5	0.000	4.5	87471.765	-0.693	-1.884						-0.824		
	114.4938	4.5	0.000	5.5	87340.983	0.046	-1.073						0.176		
	126.0533	4.5	0.000	3.5	79331.500	-0.501	-1.096						-0.699		
A	202.9184	4.5	15844.650	3.5	65109.679	-1.638	-1.446	-1.430				-1.430			
I	204.0690	4.5	15844.650	4.5	64831.943	-0.498	-0.450	-0.540				-0.540			
R	205.1032	3.5	16369.360	3.5	65109.679	-0.690	-0.634	-0.670				-0.670			
	229.6662	4.5	21581.638	3.5	65109.679	-1.450	-0.994	-1.630				-1.640			
	230.3354	5.5	21430.359	4.5	64831.943	-1.160	-0.795	-1.370				-1.370			
	232.7397	2.5	667.683	1.5	43620.957	-0.581	-0.470	-0.732						-0.416	
	233.2800	3.5	384.790	2.5	43238.586	-0.142	-0.037	-0.276						0.027	0.090
	233.8008	1.5	862.613	1.5	43620.957	-0.342	-0.240	-0.486						-0.110	-0.110
	234.3496	4.5	0.000	3.5	42658.224	0.160	0.258	0.033			0.079			0.326	0.220
	234.4283	0.5	977.053	1.5	43620.957	-0.411	-0.326	-0.586						-0.279	0.000
	234.8115	4.5	1872.567	3.5	44446.878	-0.284	-0.280	-0.326						-0.052	-0.150
	234.8303	2.5	667.683	2.5	43238.586	-0.207	-0.104	-0.766						-0.416	-0.140
	235.9106	1.5	862.613	2.5	43238.586	-0.511	-0.463	-0.390						-0.010	0.090
	235.9999	4.5	1872.567	4.5	44232.512	-0.574	-0.560	-0.430						-2.000	0.090
	236.0293	3.5	2430.097	2.5	44784.761	-0.460	-0.170	-0.390						-0.143	0.090
	236.4829	3.5	384.790	3.5	42658.224	-0.302	-0.170	-0.390						-0.292	0.170
	236.6867	4.5	0.000	3.5	42237.033	-2.933	-2.006	-1.623						-2.000	-0.020
	236.8596	2.5	2837.930	1.5	45044.168	-0.626	-0.610	-0.403						0.090	0.090
	236.9240	4.5	22637.205	4.5	64831.943	-1.459	-1.375	-0.403						-0.292	0.170
	237.3736	4.5	0.000	4.5	42114.818	-0.420	-0.401	-0.403						-0.292	-0.020
	237.5193	1.5	3117.461	0.5	45206.450	-0.783	-0.770	-1.270						0.260	0.260
	237.9003	3.5	22810.357	4.5	64831.943	-1.041	-0.707	-1.270						0.040	0.040
	237.9276	3.5	2430.097	3.5	44446.878	-0.910	-0.713	-1.097						0.663	0.890
	238.0762	2.5	667.683	3.5	42658.224	-0.619	-0.613	-1.097						-1.143	0.060
	238.2039	4.5	0.000	5.5	41968.046	0.591	0.613	0.516						-0.018	0.350
	238.3062	3.5	384.790	2.5	42334.822	-1.282	-1.226	0.516						-0.842	0.920
	238.3245	2.5	2837.930	2.5	44784.761	-0.894	-0.890	-1.086						0.006	0.470
	238.4388	1.5	3117.461	1.5	45044.168	-1.053	-1.050	-0.188						-0.818	0.210
	238.8389	4.5	20805.770	5.5	62662.244	-0.649	-0.687	-0.188						-0.311	0.940
	238.8630	3.5	384.790	3.5	42237.033	-0.096	-0.117	-0.188						-0.066	0.460
	239.5420	2.5	667.683	1.5	42401.302	-0.950	-0.928	-0.968						-0.842	0.350
	239.5626	3.5	384.790	4.5	42114.818	0.446	0.470	-0.968						0.514	0.920
	239.9242	2.5	667.683	2.5	42334.822	-0.071	-0.062	0.344						0.006	0.470
	240.4432	1.5	862.613	0.5	42439.822	-0.898	-0.878	-0.134						-0.818	-0.210
	240.4887	2.5	667.683	3.5	42237.033	0.236	0.278	-0.956						-0.311	0.940
	240.6662	1.5	862.613	1.5	42401.302	-0.140	-0.121	0.168						-0.066	0.460
	241.0520	1.5	862.613	2.5	42334.822	-0.001	0.032	-0.212						-0.069	0.450
	241.1069	0.5	977.053	0.5	42439.822	-0.294	-0.270	-0.372						-0.222	0.330
	241.3311	0.5	977.053	1.5	42401.302	-0.365	-0.335	-0.440						-0.296	0.360
	241.4105	6.5	21251.608	5.5	62662.244	-1.835	-1.687	-0.440						0.360	0.360
	242.4146	4.5	22637.205	5.5	63876.317	0.398	0.410	-0.440						1.180	1.180
	243.0079	3.5	22810.357	4.5	63948.790	0.259	0.230	-0.440						1.060	1.060
	243.3500	4.5	21581.638	5.5	62662.244	-0.826	-0.916	-0.440						1.150	1.150
	244.4516	2.5	20830.582	3.5	61726.077	0.276	0.400	-0.440						1.050	1.050
	244.5573	1.5	21812.055	2.5	62689.880	0.457	0.470	-0.440						1.480	1.480
	245.8784	4.5	25805.328	5.5	66463.528	0.428	0.280	-0.440						1.830	1.830
	249.3184	5.5	21430.359	6.5	61527.616	0.428	0.280	-0.440						1.830	1.830

Table 9. Comparison with other gf values.

Here we tabulate log gf values from the following sources:

- AS: Assousa and Smith (1972).
- BGHR: Baschek, Garz, Holweger, and Richter (1970).
- BR: Bridges (1973).
- BSS: Blackwell, Shallis, and Simmons (1980).
- CB: Corliss and Bozman (1962).
- DMPY: deBoer, Morton, Pottasch, and York (1974).
- G: Groth (1961).
- GHP: Grasdalen, Huber, and Parkinson (1969).
- HU: Huber (1974).
- K: This work.
- KP: Kurucz and Peytremann (1975).
- KU: Kuzmickyte and Uspalis (1969, 1970, 1973).
- MOI: Moity (1979).
- MOSM: Morton and Smith (1973).
- MS: Morozova and Startsev (1964).
- NBS: Martin and Fuhr (1979).
- NS: Nussbaumer and Storey (1980).
- P: Phillips (1979).
- R: Roder (1962).
- SW: Smith and Whaling (1973).
- WA: Warner (1967).
- WAR: Warner (1967) corrected by Smith (1976).
- WBW: Wolnick, Berthel, and Wares (1971).

WI(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	CB	KU
250.0924	2.5	38164.194	3.5	78137.364	0.326	0.345	0.550	0.775		
250.1350	0.5	45206.450	0.5	85172.809	-0.585	-0.532	-0.520	-0.126		
250.2393	3.5	25981.629	3.5	65931.334	0.051	0.103	0.350	0.282		
250.3327	5.5	25428.784	5.5	65363.595	-0.223	0.182	0.240	0.159		
250.3571	1.5	23031.300	1.5	62962.205	-2.839	-2.678	-0.400	-0.539		
250.3875	4.5	30388.542	4.5	70314.604	0.358	0.406	0.650	0.688		
250.5214	3.5	2430.097	2.5	42334.822	-2.443	0.053	-2.060	-2.811		
250.6094	4.5	25805.328	4.5	65696.038	-0.085	0.053	0.260	0.187		
250.6797	3.5	50187.813	4.5	90067.347	-3.064	-1.620	-1.620	-1.765		
250.7024	2.5	26055.423	3.5	65931.334	-1.079	-0.953	-0.850	-0.918		
250.9123	5.5	26170.181	4.5	66012.750	-1.001	-0.895	-0.430	-0.496		
251.0123	1.5	45044.168	2.5	84870.863	-0.825	-0.881	-0.190	0.197		
251.1369	3.5	2430.097	3.5	42237.033	-2.742	0.197	-2.130	-2.878		
251.1761	3.5	21711.917	4.5	61512.634	0.329	0.144	0.560	0.386	1.430	
251.2512	1.5	36126.387	2.5	75915.215	-0.018	-0.043	0.130	0.302		
251.4383	3.5	30764.485	3.5	70523.706	0.225	0.269	0.510	0.553		
251.4933	2.5	22939.358	2.5	62689.880	-1.678	-1.543	-0.720	-0.865		
251.7135	0.5	22409.852	1.5	62125.600	-0.499	-0.326	-0.190	-0.349		
251.9048	3.5	27314.922	2.5	67000.517	0.139	0.197	0.390	0.348		
251.9409	0.5	26932.748	1.5	66612.656	-1.387	-1.341	-1.070	-1.121		
252.0675	4.5	26352.766	4.5	66012.750	-1.343	-1.824	-0.880	-0.946		
252.1092	2.5	27620.412	1.5	67273.826	-0.049	0.005	0.110	0.075		
252.1816	3.5	33501.253	3.5	73143.288	0.264	0.271	0.560	0.665		
252.2201	6.5	21251.608	5.5	60887.598	-0.693	-0.293	-1.020	-1.209		
252.3443	0.5	39109.307	1.5	78725.790	-0.612	-0.629	-0.910	-0.671		
252.5109	3.5	33501.253	4.5	73091.590	-0.548	-0.477	0.050	0.154		
252.5389	6.5	21251.608	6.5	60837.569	0.408	0.288	0.590	0.400	1.420	
252.5860	4.5	26352.766	3.5	65931.334	-1.505	-1.526	-0.960	-1.028		
252.5919	3.5	38660.043	3.5	78237.685	-0.257	-0.266	-0.360	-0.542		
252.6076	4.5	21581.638	3.5	61156.835	-0.306	-0.264	-0.360	-0.542		
252.6295	2.5	20830.582	2.5	60402.342	0.195	0.249	0.400	0.200	1.260	0.255
252.6832	2.5	2837.950	1.5	42401.302	-2.654	-2.838	-2.370	-3.122		
252.7157	4.5	25805.328	5.5	65363.595	-1.951	-1.468	0.000	-0.081		
252.7705	4.5	33466.463	3.5	73016.147	-0.152	-0.046	0.140	0.242		
252.9546	4.5	22637.205	4.5	62158.110	0.308	0.387	0.540	0.382		
252.9931	3.5	33501.253	3.5	73016.147	-0.837	-0.416	-1.330	-1.228	1.380	0.021
253.0111	3.5	22810.357	3.5	62322.431	-0.419	-0.542	-0.220	-0.374		
253.1085	2.5	2837.950	2.5	42334.822	-3.618	-3.613	-2.650	-3.401		
253.3628	5.5	21430.359	5.5	60887.598	0.331	0.145	0.550	0.361	1.430	
253.4419	3.5	21711.917	3.5	61156.835	0.093	0.134	0.400	0.218	1.370	
253.5362	2.5	44929.550	1.5	84359.800	-0.010	0.040	0.100	0.475		
253.5486	4.5	22637.205	3.5	62065.521	-0.360	-0.178	0.070	-0.090		
253.6806	4.5	21581.638	4.5	60989.444	0.129	-0.192	0.550	0.364	1.660	
253.7139	4.5	38458.981	4.5	77861.625	0.125	0.109	0.100	0.319		
253.8205	6.5	28275.646	5.5	72261.729	-0.090	-0.148	0.460	0.544		
253.8501	3.5	21711.917	2.5	61093.413	-1.102	-1.879	-0.310	-0.494		
253.8799	5.5	21430.359	4.5	60807.230	0.035	-0.117	0.450	0.259	1.430	
253.8911	4.5	21581.638	3.5	60956.781	-0.098	-0.133	0.640	0.453		
253.8995	6.5	21251.608	5.5	60625.449	0.331	0.240			1.420	
253.9806	3.5	22810.357	3.5	62171.615	-2.201	-5.654	-1.550	-1.708		
254.0678	3.5	22810.357	4.5	62158.110	-0.593	-0.452	-0.090	-0.248		
254.1101	2.5	54870.528	2.5	94211.739	-4.874	0.110	-0.048			
254.1836	3.5	21711.917	2.5	61041.748	-0.128	-0.114	0.010	-0.175		
254.2736	0.5	26932.748	0.5	66248.660	-0.471	-0.329	-0.340	-0.400		
254.3380	4.5	21581.638	5.5	60887.598	0.036	0.221	0.320	0.131	1.130	
254.3431	2.5	22939.357	1.5	62244.520	-0.501	-0.498	0.390	0.234		
254.4973	1.5	21812.055	2.5	61093.413	-0.451	-0.291	-0.370	-0.554		
254.5221	3.5	21711.917	4.5	60989.444	-0.136	-0.152	-0.100	-0.286		

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MS	SW	CB	KU
265.0482	2.5	46967.444	3.5	84685.198	0.037	0.030	0.020	0.402					
265.2566	4.5	26352.766	3.5	64040.886	-1.276	-1.075	-1.150	-1.263					
265.4630	1.5	47389.779	1.5	85048.602	-0.563	-2.023	-0.100	0.291					
265.7918	4.5	30388.542	4.5	68000.788	-1.437	-1.706	-1.150	-1.168					
265.8233	3.5	31999.048	3.5	69606.552	-0.710	-0.764	-0.450	-0.429					
266.2256	0.5	47626.076	0.5	85172.809	-0.645	-0.586	-0.280	0.114	0.203		0.200	1.560	
266.4664	3.5	27314.922	4.5	64831.943	0.350	0.362	0.480	0.386					
266.5541	5.5	60625.449	6.5	98130.131	0.026	-0.123	0.390	1.095					
266.6637	2.5	27620.412	3.5	65109.679	0.245	0.267	0.400	0.313	0.140		0.140	1.420	
266.7219	1.5	47389.779	2.5	84870.863	-0.287	-0.223	-0.310	0.077					
266.8946	6.5	60837.569	5.5	98294.401	-0.182	0.012	0.360	1.069					
266.9933	0.5	49100.976	1.5	86543.974	-0.619	-0.559	-0.110	0.317					
267.0379	2.5	38164.194	3.5	75600.931	-1.720	-1.051	-0.610	-0.446					
267.1393	0.5	47626.076	1.5	85048.602	-0.653	-0.342	-0.330	0.061					
267.2139	3.5	61156.835	3.5	98568.912	-0.210	-0.220	0.340	1.056					
267.2516	5.5	60887.598	5.5	98294.401	0.010	-0.550	0.180	0.743					
267.6882	2.5	54870.528	1.5	92216.320	-0.225	-0.235	0.180	0.743					
268.0233	2.5	46967.444	3.5	84266.556	-0.930	-2.381	-1.380	-1.511	-2.250		-2.250		
268.0791	3.5	25981.629	2.5	63272.976	-2.278	-0.676	-1.380	-1.511					
268.0991	3.5	61156.835	4.5	98445.400	-0.664	0.590	0.590	1.303					
268.2507	3.5	54904.222	4.5	92171.716	0.302	0.310	0.310	0.872					
268.4754	3.5	30764.485	4.5	68000.788	0.257	0.253	0.400	0.382					
268.4959	5.5	25428.784	5.5	62662.244	-2.197	-2.521	-0.710	-0.443					
268.5405	3.5	42658.224	2.5	79885.493	-2.406	-2.194	-1.600	-1.731					
268.6107	2.5	26055.423	2.5	63272.976	-1.875	-2.039	-1.600	-1.731					
268.6388	2.5	27620.412	1.5	64834.073	-2.038	-1.886	-1.190	-1.284					
269.1737	4.5	25805.328	3.5	62945.038	-1.534	-1.595	-1.050	-1.189					
269.2601	4.5	30388.542	5.5	67516.332	0.285	0.266	0.350	0.320					
269.2834	3.5	7955.299	2.5	45079.879	-4.297	-4.056	-1.810	-2.632					
269.3857	3.5	27314.922	2.5	64425.408	-1.707	-1.706	-1.120	-1.224					
269.4281	2.5	42334.822	3.5	79439.467	-2.799	-2.891	-1.310	-1.053					
269.7328	1.5	36126.387	1.5	73189.110	-1.033	-0.978	-0.800	-0.693					
269.7462	1.5	36126.387	0.5	73187.280	-0.495	-0.452	-0.210	-0.104					
269.7727	4.5	33466.463	3.5	70523.706	-1.216	-1.179	-2.170	-2.127					
270.3990	3.5	27314.922	3.5	64286.345	-0.029	0.061	0.310	0.203				1.330	
270.4576	3.5	25981.629	3.5	62945.038	-1.816	-2.036	-1.600	-1.739					
270.6569	2.5	36252.918	1.5	73189.110	-0.208	-0.178	0.130	0.237					
270.7133	1.5	36126.387	2.5	73054.881	-0.405	-0.278	-0.080	0.023					
270.8726	2.5	26055.423	1.5	62962.205	-2.630	-2.407	-1.690	-1.829					
270.9056	1.5	25787.598	2.5	62689.880	-0.574	-0.446	-0.420	-0.565					
270.9381	2.5	8391.938	1.5	45289.801	-2.589	-2.536	-2.150	-2.978					
271.1842	5.5	25428.784	6.5	62293.164	-0.997	-1.011	0.040	-0.115					-2.301
271.2391	4.5	25805.328	5.5	62662.244	-0.997	-1.011	-0.470	-0.616			-0.860		
271.3037	4.5	33466.463	4.5	70314.604	-1.911	-2.023	-1.250	-1.212					
271.4413	3.5	7955.299	2.5	44784.761	-0.416	-0.374	-0.170	-0.984			0.910	-0.453	
271.5601	3.5	33501.253	4.5	70314.604	-1.719	-2.100	-1.760	-1.722					
271.6218	2.5	27620.412	2.5	64425.408	-0.259	-0.247	0.110	0.006					
271.6697	3.5	7955.299	3.5	44753.799	-1.317	-1.291	0.110	0.006					
271.8640	4.5	50157.452	3.5	86929.649	0.044	0.086	0.230	0.666					
271.9304	2.5	36252.918	3.5	73016.147	-0.851	-0.560	-0.430	-0.328					
272.1814	5.5	25428.784	4.5	62158.110	-0.928	-1.429	-1.170	-1.328					
272.2063	3.5	27314.922	3.5	64040.886	-0.534	-0.585	-0.780	-0.893					
272.2741	2.5	50212.826	3.5	86929.649	-0.102	-0.013	0.140	0.576					
272.3377	3.5	25981.629	2.5	62689.880	-2.976	-2.870	-1.980	-2.125					
272.4884	2.5	8391.938	2.5	45079.879	-0.749	-0.707	-0.740	-1.562					-0.699
272.6520	2.5	27620.412	3.5	64286.345	-1.444	-0.964	-1.710	-1.817					
272.7383	5.5	25428.784	4.5	62083.108	-0.832	-0.626	-0.240	-0.400					
272.7539	2.5	8391.938	1.5	45044.168	-0.366	-0.329	-0.110	-0.931			0.920	-0.367	

WL(NM)	J10	ELO	JUP	EUP	K	KP	WAR	WA
279.3245	2.5	36252.918	1.5	72043.026	-1.296	-1.409	-1.080	-1.001
279.3886	4.5	25805.328	5.5	61587.214	-0.640	-0.521	-0.440	-0.612
279.6628	4.5	42114.818	4.5	77861.625	-0.790	-0.813	-0.540	-0.321
279.7196	4.5	63948.790	3.5	99688.337	-0.082	-0.147	-0.100	0.643
279.7917	4.5	26352.766	4.5	62083.108	-1.375	-1.266	-1.020	-1.180
279.9295	4.5	6352.766	3.5	62065.521	-0.895	-1.277	-0.590	-0.750
279.9722	4.5	25805.328	4.5	61512.634	-2.174	-2.016	-1.520	-1.694
280.0538	5.5	63876.317	4.5	99573.225	-0.062	-0.082	0.160	0.900
280.3430	4.5	64831.943	3.5	100492.020	0.071	0.041	0.460	1.222
280.4021	2.5	27620.412	2.5	63272.976	-1.459	-1.643	-1.180	-1.311
280.4999	3.5	65109.679	2.5	100749.810	-0.021	-0.042	0.400	1.168
280.5318	1.5	31364.440	2.5	67000.517	-1.945	-1.819	-1.090	-1.132
280.5788	3.5	27314.922	3.5	62945.038	-1.313	-1.625	-1.340	-1.479
280.9783	3.5	42658.224	3.5	78237.685	-0.662	-0.618	-0.530	-0.302
281.1268	5.5	25428.784	4.5	60989.444	-2.412	-3.272	-1.300	-1.486
281.2494	1.5	25787.598	1.5	61332.764	-1.920	-1.605	-1.310	-1.488
281.2682	4.5	30388.542	3.5	65931.334	-3.141	-2.850	-1.540	-1.608
281.3615	3.5	25981.629	4.5	61512.634	-1.058	-0.756	-0.980	-1.154
281.7088	2.5	43238.586	1.5	78725.790	-0.860	-0.888	-0.470	-0.231
281.9343	5.5	25428.784	5.5	60887.598	-2.359	-2.593	-1.250	-1.439
282.5748	5.5	25428.784	4.5	60807.230	-1.482	-1.477	-1.410	-1.601
282.6027	3.5	27314.922	2.5	62689.880	-1.456	-1.304	-1.040	-1.185
282.7427	5.5	26170.181	6.5	61527.616	-1.458	-2.061	-0.950	-1.123
282.8626	5.5	26170.181	4.5	61512.634	-0.823	-0.799	-0.580	-0.754
283.0054	2.5	27620.412	3.5	62945.038	-3.469	-2.655	-1.510	-1.649
283.0923	3.5	30764.485	2.5	66078.269	-2.241	-1.926	-1.340	-1.404
283.1562	1.5	25787.598	2.5	61093.413	-0.048	-0.011	0.110	-0.074
283.3086	2.5	43238.586	2.5	78525.407	-0.557	-0.541	-0.470	-0.235
283.3711	1.5	25787.598	2.5	61041.748	-0.975	-1.636	-0.190	-0.375
283.6512	0.5	31368.450	1.5	66612.656	-1.202	-1.084	-1.050	-1.101
283.7297	4.5	26352.766	5.5	61587.214	-1.580	-2.016	-1.180	-1.352
283.8217	1.5	43620.957	0.5	78843.992	-0.755	-0.752	-0.110	0.132
283.9513	4.5	44232.512	3.5	79439.467	0.117	0.110	-0.020	0.237
283.9800	3.5	42658.224	4.5	77861.625	-0.179	-0.166	-0.130	0.089
284.0343	5.5	25428.784	1.5	60625.449	-0.790	-0.738	-0.690	-0.885
284.0651	0.5	26932.748	1.5	62125.600	-0.404	-0.468	-0.090	-0.249
284.0760	4.5	30388.542	5.5	65580.041	-0.695	-0.221	-0.390	-0.466
284.1356	4.5	25805.328	4.5	60989.444	-3.745	-2.407	-1.620	-1.806
284.2076	3.5	25981.629	3.5	61156.835	-2.136	-2.082	-1.370	-1.552
284.2680	4.5	30388.542	4.5	65556.280	-2.233	-2.179	-1.450	-1.527
284.3316	4.5	26352.766	4.5	61512.634	-1.572	-1.648	-1.260	-1.434
284.3478	1.5	31364.440	2.5	66522.304	-1.048	-0.938	-0.880	-0.933
284.4959	0.5	45206.450	0.5	80346.016	-0.912	-0.923	-0.790	-0.512
284.7210	3.5	25981.629	2.5	61093.413	-1.909	-2.069	-1.520	-1.704
284.7774	1.5	43620.957	1.5	78725.790	-0.688	-0.671	-0.770	-0.531
284.8051	2.5	26055.423	3.5	61156.835	-0.824	-0.762	-0.530	-0.712
284.8106	2.5	44784.761	2.5	79885.493	-0.288	-0.307	-0.320	-0.053
284.8320	2.5	45079.879	1.5	80177.975	-0.157	-0.165	-0.310	-0.036
284.8906	5.5	32909.905	4.5	68000.788	-1.283	-1.416	-0.840	-0.858
284.9605	4.5	25805.328	5.5	60887.598	-1.039	-1.146	-0.870	-1.059
285.1723	1.5	45289.801	0.5	80346.016	-0.374	-0.382	0.470	0.748
285.3207	2.5	26055.423	2.5	61093.413	-2.677	-4.233	-1.510	-1.694
285.5666	3.5	25981.629	4.5	60989.444	-0.905	-1.130	-0.450	-0.636
285.6149	4.5	25805.328	4.5	60807.230	-1.090	-1.085	-0.990	-1.181
285.6377	2.5	43238.586	3.5	78237.685	-0.486	-0.465	-0.630	-0.402
285.6909	3.5	44446.878	3.5	79439.467	-0.010	-0.028	-0.180	0.077
285.7174	2.5	31387.948	3.5	66377.283	-0.860	-0.862	-0.540	-0.597

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MS	SW	CB	KU
272.9438	0.5	26932.748	0.5	63559.488	-2.532	-2.418	-1.110	-1.235					
272.9583	2.5	50142.786	2.5	86767.577	-0.925	-0.883	-0.310	0.122					
273.0734	1.5	8680.454	1.5	45289.801	-0.687	-0.647	-0.470	-1.298		-0.850		0.650	-0.620
273.2009	4.5	26352.766	3.5	62945.038	-1.114	-0.950	-1.060	-1.199					
273.2446	4.5	1872.567	4.5	38458.981	-3.353	-3.695	-2.960	-3.610					
273.2943	3.5	50187.813	2.5	86767.577	-0.181	-0.131	0.070	0.502					
273.4813	2.5	50212.826	2.5	63465.109	-2.623	-2.555	-1.740	-1.867		-0.450		0.690	-0.538
273.6489	0.5	26932.748	1.5	45206.450	-0.559	-0.525	-0.180	-1.005					
273.6966	1.5	8680.454	3.5	62322.431	-2.022	-1.877	-1.460	-1.614		0.430		1.470	0.362
273.7633	4.5	25805.328	3.5	44446.878	0.317	0.342	-0.660	-0.233					
273.9548	3.5	7955.299	3.5	86547.490	-3.442	-3.039	-0.720	-0.832					
274.1050	1.5	50075.910	2.5	64087.418	-0.425	-0.325	-0.210	0.506		0.030		1.150	-0.018
274.1394	2.5	27620.412	2.5	45289.801	-0.058	-0.025	0.200	-0.614				1.300	0.201
274.3197	0.5	8846.768	1.5	44784.761	0.039	0.061	0.200	0.097		0.250		0.760	0.097
274.5626	4.5	62158.110	3.5	45044.168	-0.300	-0.276	0.200	-0.244		0.200		1.420	0.391
274.6484	1.5	8680.454	1.5	44753.799	0.319	0.353	-0.080	-0.905		0.400		1.460	0.471
274.9321	2.5	8391.938	3.5	62322.431	-1.098	-0.986	-1.040	-1.194		-0.570			
274.9486	3.5	50187.813	2.5	86547.490	-1.028	-2.039	-0.590	-0.849					
275.1127	1.5	25787.598	1.5	62125.600	-0.859	-0.907	-0.730	-0.491					
275.2150	1.5	42401.302	1.5	78725.790	-0.502	-0.522	-0.730	-0.491		0.370		1.630	
275.3288	4.5	26352.766	5.5	62662.244	0.473	0.498	0.580	0.434					
275.4889	3.5	42237.033	2.5	78525.407	-0.117	-0.115	-0.280	-0.045		0.368			
275.5737	3.5	7955.299	4.5	44232.512	0.425	0.460	-1.040	-1.194		0.510		1.460	0.471
275.6512	2.5	26055.423	3.5	62322.431	-1.098	-0.986	-1.100	-1.260					
275.7030	4.5	25805.328	3.5	62065.521	-1.601	-1.586	-3.260	-3.915					
275.9332	3.5	2430.097	3.5	38660.043	-3.533	-0.838	-1.680	-2.501					-0.770
276.1813	0.5	8846.768	1.5	45044.168	-0.873	-1.779	-1.270	-1.426					
276.2447	2.5	26055.423	1.5	62244.520	-2.189	-1.426	0.190	1.002					
276.3655	6.5	66411.686	5.5	102584.963	0.243	0.222	0.220	1.002					
276.3911	3.5	25981.629	2.5	62151.561	-1.843	-1.861	-2.270	-2.428					
276.4790	5.5	25428.784	5.5	61587.214	-1.727	-1.670	-1.540	-1.712					
276.5494	3.5	33501.253	3.5	69650.484	-1.488	-1.450	-1.300	-1.278					
276.6193	4.5	33466.463	3.5	69606.552	-1.489	-1.529	-1.700	-1.679					
276.7503	5.5	26170.181	6.5	62293.164	0.488	0.522	0.550	0.395			1.980		
276.8335	1.5	36126.387	2.5	72238.513	-2.004	-2.357	-1.380	-1.296		-1.460			-0.854
276.8935	1.5	8680.454	2.5	44784.761	-0.922	-0.896	-1.080	-1.894					
276.9152	3.5	25981.629	4.5	62083.108	-1.099	-1.015	-1.150	-1.310					
276.9355	5.5	25428.784	6.5	61527.616	-0.398	-0.328	-0.160	-0.333					
277.0505	5.5	25428.784	4.5	61512.634	-1.358	-1.419	-0.960	-1.134					
277.1186	4.5	30388.542	5.5	66463.528	-1.646	-1.587	-0.910	-0.965					
277.1555	2.5	26055.423	1.5	62125.600	-1.854	-2.510	-1.570	-1.729					
277.2726	2.5	8391.938	3.5	44446.878	-1.406	-1.409	-0.640	-0.779					
277.4688	0.5	26932.748	1.5	62962.205	-0.944	-0.734	-0.640	-0.779					
277.5338	2.5	2837.950	2.5	38858.958	-3.918	-4.013	-3.220	-3.880					
277.6179	2.5	26055.423	3.5	62065.521	-1.508	-1.634	-1.230	-1.390					
277.6908	3.5	42237.033	3.5	78237.685	-0.466	-0.529	-0.390	-0.162					
277.7890	5.5	26170.181	4.5	62158.110	-1.154	-2.046	-0.900	-1.058					
277.9300	4.5	26352.766	3.5	62322.431	-0.053	0.034	0.270	0.116					
277.9909	0.5	37227.326	1.5	73189.110	-0.777	-0.800	-0.650	-0.543					
278.0051	0.5	26170.181	4.5	73187.280	-1.025	-1.049	-0.720	-0.614					
278.3691	5.5	41968.046	4.5	62083.108	0.105	0.197	0.330	0.170					
278.5192	5.5	41968.046	4.5	77861.625	0.222	0.204	0.100	0.319					
278.7242	3.5	42658.224	2.5	78525.407	-0.974	-1.139	-0.830	-0.595					
279.0184	2.5	48039.090	2.5	83868.450	-1.973	-1.891	-0.280	0.083					
279.0561	3.5	30764.485	4.5	66589.008	-1.807	-3.453	-1.080	-1.132					
279.1003	4.5	26352.766	3.5	62171.615	-5.451	-8.941	-1.690	-1.848					

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	G	KU
297.8846	4.5	30388.542	4.5	63948.790	-2.388	-1.959	-1.400	-1.515				
297.9114	3.5	31999.048	4.5	65556.280	-2.045	-2.027	-1.150	-1.227				
297.9354	0.5	8846.768	1.5	42401.302	-2.018	-2.105	-1.590	-2.342				-2.149
298.0963	2.5	27620.412	3.5	61156.835	-1.961	-2.086	-1.470	-1.652				
298.2059	1.5	36126.387	2.5	69650.484	-0.612	-0.524	-0.310	-0.288				
298.4825	2.5	13474.411	2.5	46967.444	-0.611	-0.599	0.070	-0.801				-1.301
298.5545	0.5	13904.824	1.5	47389.779	-1.043	-1.030						-0.706
299.3357	2.5	36252.918	2.5	6650.484	-2.284	-2.186	-1.400	-1.378				
299.7300	2.5	36252.918	3.5	69606.552	-0.776	-0.701	-0.550	-0.529	-2.190	-2.190		
299.7738	3.5	31483.176	4.5	64831.943	-4.182	-3.802	-1.660	-1.847				
299.8852	2.5	27620.412	3.5	60956.781	-2.543	-2.522	-1.080	-1.192				
300.0062	3.5	30764.485	2.5	64087.418	-1.106	-0.953	-1.040	-1.191				
300.2321	2.5	31811.822	2.5	65109.679	-1.548	-1.790	-0.940	-1.027	-1.710	-1.710		
300.2646	1.5	13673.185	2.5	46967.444	-1.038	-1.033	-0.320	-0.191				
300.4257	3.5	30764.485	3.5	64040.886	-1.748	-1.629	-1.450	-1.563				-0.703
303.6963	2.5	67000.517	1.5	99918.569	-2.988	-3.115	-0.410	-0.143				
303.8777	2.5	31387.948	3.5	64286.345	-2.162	-2.241	-1.480	-1.587				
304.4840	3.5	31999.048	4.5	64831.943	-1.660	-2.060	-1.170	-1.264	-1.820	-1.810		
304.8991	1.5	47389.779	1.5	80177.975	-0.789	-0.780	-0.450	-0.176				
305.5352	0.5	47626.076	0.5	80346.016	-0.913	-0.905	-0.630	-0.352				
305.6804	6.5	32875.646	5.5	65580.041	-1.111	-0.895	-0.980	-1.056				
306.2237	5.5	32909.905	4.5	65556.280	-0.735	-0.728	-0.240	-0.317				
306.5316	2.5	31811.822	2.5	64425.408	-1.653	-1.786	-0.970	-1.074				
306.8757	3.5	33501.253	2.5	66078.269	-2.433	-2.403	-1.350	-1.414				
307.0691	4.5	30388.542	3.5	62945.038	-1.707	-1.827	-1.440	-1.579				
307.1125	0.5	47626.076	1.5	80177.975	-0.951	-0.945	-0.760	-0.486				
307.5226	3.5	30764.485	2.5	63272.976	-2.161	-2.339	-1.570	-1.701				
307.6435	1.5	47389.779	2.5	79885.493	-0.561	-0.555	-0.380	-0.113				
307.7170	6.5	32875.646	5.5	65363.595	-0.755	-0.940	-0.150	-0.231				
307.8680	2.5	46967.444	3.5	79439.467	-0.279	-0.274	-0.120	-0.137				
308.0419	5.5	32909.905	5.5	65363.595	-2.470	-2.687	-1.540	-1.621				
308.3015	3.5	31999.048	2.5	64425.408	-2.250	-2.449	-1.810	-1.914				
308.9384	2.5	38164.194	3.5	70523.706	-1.655	-1.561	-0.970	-0.927				
309.6295	3.5	31999.048	3.5	64286.345	-1.731	-1.827	-0.950	-1.057				
309.7417	2.5	31811.822	2.5	64087.418	-1.982	-2.046	-1.710	-1.822				
310.5167	1.5	31364.440	0.5	63559.488	-1.684	-1.623	-1.060	-1.185				
310.5554	0.5	31368.450	0.5	63559.488	-1.722	-1.659	-1.060	-1.185				
311.4297	1.5	31364.440	1.5	63465.109	-1.460	-1.411	-0.850	-0.977				
311.4686	0.5	31368.450	1.5	63465.109	-1.831	-1.731	-1.150	-1.277				
311.6579	2.5	31387.948	1.5	63465.109	-1.507	-1.454	-0.790	-0.917				
312.9009	3.5	31999.048	4.5	63948.790	-2.610	-2.578	-1.690	-1.805				
313.0562	4.5	30388.542	3.5	62322.431	-3.282	-4.370	-1.650	-1.804				
313.1724	5.5	32909.905	4.5	64831.943	-2.072	-1.855	-1.330	-1.424	-1.750	-1.760		
313.3050	1.5	31364.440	2.5	63272.976	-1.889	-1.736	-1.230	-1.361				
313.5360	2.5	31387.948	2.5	63272.976	-1.135	-1.085	-0.580	-0.711				
314.6094	5.5	66463.528	5.5	98294.401	-0.880	-0.906	0.300	1.009				
314.4752	3.5	31483.176	2.5	63272.976	-1.633	-1.576	-0.970	-1.101				
314.6755	4.5	30388.542	4.5	62158.110	-1.540	-3.592	-1.680	-1.838				
315.4202	4.5	30388.542	4.5	62083.108	-0.527	-0.447	-0.040	-0.200				
315.5953	4.5	30388.542	3.5	62065.521	-2.433	-2.339	-1.670	-1.830				
316.2798	3.5	33501.254	3.5	65109.680	-1.145	-1.199	-0.680	-0.767	-1.300	-1.300		-3.000
316.3094	2.5	13474.411	2.5	45079.879	-3.167	-3.223	-1.980	-2.802				-3.360
316.6672	2.5	13474.411	1.5	45044.168	-2.932	-2.952	-2.110	-2.931				-2.699
316.7857	3.5	30764.485	3.5	62322.431	-0.729	-0.663	-0.110	-0.264				
317.0337	1.5	13673.185	0.5	45206.450	-2.530	-2.538	-1.760	-2.585				-2.870
317.5067	2.5	38164.194	2.5	69650.484	-2.132	-2.100	-1.560	-1.538				
317.7532	3.5	31483.176	3.5	62945.038	-0.931	-0.877	-0.300	-0.439				
317.9503	2.5	38164.194	3.5	69606.552	-0.902	-0.896	-0.290	-0.269				

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	CB	KU
285.7420	2.5	26055.423	2.5	61041.748	-1.383	-1.360	-0.380	-0.565				
285.8333	3.5	25981.629	3.5	60956.781	-1.232	-1.210	0.020	-0.167				
286.1168	1.5	8680.454	1.5	43620.957	-2.927	-2.532	-2.170	-2.934				-3.046
286.4123	1.5	43620.957	2.5	78525.407	-0.927	-0.901	-0.720	-0.485				
286.4377	2.5	26055.423	3.5	60956.781	-3.194	-3.536	-1.420	-1.607				
286.4492	3.5	31483.176	3.5	66377.283	-1.292	-1.288	-0.920	-0.977				
286.5459	1.5	45289.801	1.5	80177.975	-1.003	-1.005	-0.770	-0.496				
286.8437	2.5	38164.195	3.5	73016.148	-1.835	-1.918	-0.670	-0.568				-1.854
286.8874	2.5	8391.938	2.5	43238.586	-2.103	-1.815	-1.840	-2.614				
286.9159	3.5	27314.922	4.5	62158.110	-3.397	-1.815	-1.300	-1.458				
287.0608	3.5	25981.629	4.5	60807.230	-2.488	-4.439	-1.450	-1.641				
287.1060	4.5	25805.328	5.5	60625.449	-1.570	-2.029	-0.930	-1.125				
287.2384	4.5	26352.766	3.5	61156.835	-0.632	-0.641	-0.410	-0.592				
287.3398	3.5	30764.485	4.5	65556.280	-0.189	-0.049	0.100	0.023				
287.5349	3.5	27314.922	4.5	62083.108	-0.816	-0.792	-0.520	-0.680				
287.9245	4.5	30388.542	3.5	65109.679	-1.618	-1.293	-1.140	-1.227	-1.540	-1.540		
288.0129	2.5	31811.822	2.5	66522.304	-3.028	-2.960	-1.520	-1.573				
288.0756	3.5	7955.299	3.5	42658.224	-1.535	-1.202	-2.180	-2.939				
288.0832	2.5	27620.412	3.5	62322.431	-1.228	-1.156	-0.230	-0.384				
288.1803	2.5	31387.948	2.5	66078.269	-3.036	-2.879	-1.410	-1.474				
288.3710	5.5	26170.181	6.5	60837.569	-0.625	-0.683	-0.270	-0.460				
288.4765	2.5	44784.761	3.5	79439.467	-0.733	-0.729	-0.710	-0.453				
288.5933	6.5	2875.646	5.5	67516.332	-1.420	-1.671	-0.840	-0.870				
288.8095	1.5	25787.598	2.5	60402.342	-1.357	-1.155	-1.090	-1.290				
288.8991	4.5	26352.766	3.5	60956.781	-2.820	-2.594	-1.720	-1.907				
289.2827	1.5	8680.454	2.5	43238.586	-2.690	-2.289	-2.270	-3.044				-2.481
289.4062	2.5	31387.948	3.5	65931.334	-2.002	-1.948	-1.650	-1.718				
289.4779	4.5	26352.766	5.5	60887.598	-1.098	-1.109	-0.810	-0.999				
289.5220	3.5	31483.176	4.5	66012.750	-0.814	-0.686	-0.540	-0.606				
289.7266	2.5	27620.412	1.5	62125.600	-1.094	-0.972	-2.720	-2.879				
290.2319	2.5	27620.412	3.5	62065.521	-2.281	-2.762	-1.950	-2.110				
290.2463	4.5	30388.542	4.5	64831.943	-1.514	-1.295	-1.010	-1.104				
290.6124	0.5	26932.748	1.5	61332.764	-1.669	-1.433	-1.230	-1.408				
290.7856	3.5	7955.299	2.5	42334.822	-2.910	-3.030	-2.440	-3.191				
291.0763	3.5	30764.485	3.5	65109.679	-2.166	-1.721	-1.900	-2.095				
291.6922	4.5	26352.766	5.5	60625.449	-3.601	-3.095	-1.900	-2.095				
291.7083	2.5	36252.918	3.5	70523.706	-1.334	-1.169	-1.170	-1.127				
291.7466	2.5	8391.938	3.5	42658.224	-2.597	-2.154	-2.300	-3.059				
292.2022	3.5	31483.176	4.5	65696.038	-1.197	-1.173	-1.000	-1.073				
292.6585	3.5	7955.299	4.5	42114.818	-1.333	-1.414	-0.900	-1.645				
293.4494	3.5	30764.485	4.5	64831.943	-2.312	-1.781	-1.630	-1.660				
293.6010	4.5	33466.463	5.5	67516.332	-1.716	-2.064	-1.630	-1.660				
293.9507	2.5	8391.938	1.5	42401.302	-2.598	-2.710	-2.240	-2.992				
294.0113	3.5	69606.552	4.5	103608.909	-0.206	-0.226	0.170	1.007				
294.4396	1.5	13673.185	0.5	47626.076	-1.011	-1.001	-0.360	-1.248				
294.7654	2.5	13474.411	1.5	47389.779	-0.974	-0.963	-0.270	-1.152				
294.9182	4.5	30388.542	3.5	64286.345	-0.625	-0.590	-0.250	-0.357				
295.1092	1.5	25787.598	1.5	59663.456	-2.414	-2.397	-1.820	-2.055				
295.3775	2.5	8391.938	3.5	42237.033	-1.417	-1.508	-1.060	-1.808				
295.9599	3.5	27314.922	2.5	61093.413	-1.008	-0.926	-0.780	-0.964				
296.1276	1.5	8680.454	0.5	42439.822	-2.536	-2.662	-2.120	-2.873				
296.4133	3.5	27314.922	2.5	61041.748	-1.722	-2.174	-0.910	-1.095				
296.4623	0.5	13904.824	0.5	47626.076	-1.739	-1.730	-1.000	-1.888				
296.5033	1.5	13673.185	1.5	47389.779	-1.481	-1.469	-0.790	-1.672				
296.9937	3.5	30764.485	2.5	64425.408	-0.825	-0.842	-0.380	-0.484				
297.0515	1.5	8680.454	2.5	42334.822	-1.651	-1.736	-1.280	-2.031				
297.0694	4.5	30388.542	3.5	64040.886	-1.041	-1.007	-0.800	-0.913				
297.5937	0.5	8846.768	0.5	42439.822	-2.545	-2.650	-2.070	-2.823				

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	BSS	G	P	KU
341.6021	1.5	18360.646	0.5	47626.076	-3.058	-2.956	-1.920	-2.808		-2.850		
342.5575	2.5	13474.411	3.5	42658.224	-3.296	-2.840	-2.790	-3.549		-3.500		-3.000
343.6107	3.5	31999.048	2.5	61093.413	-2.080	-2.124	-1.460	-1.644				
344.2219	3.5	31999.048	2.5	61041.748	-2.881	-3.536	-1.800	-1.985				
344.8430	3.5	31999.048	4.5	60989.444	-3.368	-4.376	-2.220	-2.406				
345.6924	3.5	31483.176	2.5	60402.342	-2.013	-2.009	-1.480	-1.680				
346.3962	2.5	13474.411	2.5	42334.822	-3.995	-4.136	-2.870	-3.621				
346.4495	4.5	33466.463	3.5	62322.431	-2.381	-2.225	-1.680	-1.834				
346.8677	3.5	33501.253	3.5	62322.431	-1.525	-1.498	-0.930	-1.084				
347.9914	1.5	13673.185	1.5	42401.302	-3.848	-3.983	-2.900	-3.652		-3.800		
348.2391	1.5	36126.387	1.5	64834.073	-4.678	-4.410	-1.720	-1.814				
348.7986	1.5	13673.185	2.5	42334.822	-3.642	-3.778	-2.830	-3.581				
349.3470	4.5	33466.463	4.5	62083.108	-1.203	-1.149	-0.650	-0.810				
349.4673	1.5	18360.646	2.5	46967.444	-3.153	-3.021	-2.070	-2.941				
349.5618	4.5	33466.463	3.5	62065.521	-2.426	-2.541	-1.820	-1.980				
349.9876	3.5	33501.253	3.5	62065.521	-2.497	-2.952	-1.740	-1.900				
350.3466	0.5	13904.824	0.5	42439.822	-3.931	-4.060	-2.270	-3.152		-3.940		
350.7399	0.5	18886.780	1.5	47389.779	-3.551	-3.413	-2.270	-3.152		-3.350		
353.5619	2.5	31387.948	1.5	59663.456	-2.985	-2.862	-1.780	-2.015				
355.7563	3.5	44915.046	3.5	73016.147	-3.296	-3.566	-1.100	-0.998				
356.6059	1.5	38214.507	0.5	66248.660	-2.657	-2.328	-1.810	-1.870				
356.6152	2.5	36252.918	3.5	64286.345	-2.385	-2.318	-1.790	-1.897				
361.4876	3.5	33501.253	3.5	61156.835	-2.074	-2.048	-1.530	-1.712				
362.1270	0.5	37227.326	1.5	64834.073	-1.557	-1.640	-1.190	-1.284				
362.4893	0.5	37227.326	0.5	64806.487	-1.837	-1.941	-1.350	-1.445				
363.2292	4.5	33466.463	4.5	60989.444	-2.585	-3.188	-1.900	-2.086				
371.1982	1.5	47674.721	2.5	74606.841	-2.777	-2.730	-1.720	-1.579				
374.6566	1.5	18360.646	1.5	45044.168	-3.830	-3.670	-0.950	-1.044		-3.950		
374.8483	2.5	38164.194	1.5	64834.073	-1.637	-1.594	-0.950	-1.044				
375.5568	1.5	38214.507	1.5	64834.073	-2.530	-2.521	-1.890	-1.984				
375.9464	1.5	38214.507	0.5	64806.487	-1.969	-1.998	-1.390	-1.485				
376.2893	2.5	48039.090	2.5	74606.841	-1.841	-1.876	-1.150	-1.009				
378.3347	1.5	18360.646	2.5	44784.761	-3.349	-3.234	-2.650	-3.464		-3.440		
381.4124	1.5	38214.507	2.5	64425.408	-2.316	-2.476	-1.820	-1.924				
382.4929	2.5	20830.582	2.5	46967.444	-3.273	-4.920	-1.800	-1.907				-2.000
382.7083	2.5	38164.194	3.5	64286.345	-2.426	-2.570	-2.600	-3.482				
383.3013	1.5	21308.040	1.5	47389.779	-4.686	-4.580	-1.390	-1.347				
390.6035	2.5	44929.550	3.5	70523.706	-1.703	-1.670	-3.400	-4.060		-2.600		
393.8290	2.5	13474.411	2.5	38858.958	-4.032	-4.186	-1.390	-1.287				
393.8970	1.5	47674.721	2.5	73054.881	-1.790	-1.893	-1.390	-1.287				
397.4167	1.5	21812.055	2.5	46967.444	-3.476	-4.130	-1.700	-1.593				-2.699
397.5016	2.5	48039.090	1.5	73189.110	-2.492	-2.413	-1.470	-1.368				
400.2543	2.5	48039.090	3.5	73016.147	-2.001	-2.032	-3.150	-3.964				
402.4547	2.5	36252.918	2.5	61093.413	-2.130	-2.193	-1.950	-2.134				
404.8832	3.5	44915.046	3.5	69606.552	-2.238	-2.297	-1.750	-1.729				
408.7284	2.5	20830.582	1.5	45289.801	-4.932	-4.999	-4.410	-4.440				
411.9524	2.5	20516.960	2.5	44784.761	-4.771	-5.010	-3.510	-3.300				
412.2668	2.5	20830.582	2.5	45079.879	-3.656	-3.730	-2.760	-3.581				
412.4787	2.5	20516.960	3.5	44753.799	-5.070	-5.151	-3.150	-3.964				
412.8748	2.5	20830.582	1.5	45044.168	-3.555	-3.534	-2.010	-2.824				
413.8405	3.5	22810.357	2.5	46967.444	-4.560	-4.620	-2.760	-3.581				
416.0623	2.5	22939.358	2.5	46967.444	-5.135	-5.200	-2.010	-2.824				
417.3461	2.5	20830.582	2.5	44784.761	-2.586	-2.596	-2.010	-2.824				
417.7692	2.5	20516.960	3.5	44446.878	-3.855	-4.020	-2.000	-2.814				
417.8862	2.5	20830.582	3.5	44753.799	-2.898	-2.947	-2.000	-2.814				
421.1801	1.5	21308.040	1.5	45044.168	-5.136	-5.040	-1.430	-2.236				
422.1773	2.5	23317.633	2.5	46967.444	-5.075	-5.020	-1.430	-2.236				
423.3172	2.5	20830.582	3.5	44446.878	-1.904	-1.917	-1.430	-2.236				

WL(NM)	J10	ELO	JUP	EUP	K	KP	BSS	G	P	NBS	WBW
523.4625	3.5	25981.629	2.5	45079.879	-2.311	-2.310	-2.500	-2.500	-2.290		
526.4812	2.5	26055.423	1.5	45044.168	-3.488	-3.508	-3.190	-3.010	-3.140		
527.6002	4.5	25805.328	3.5	44753.799	-2.230	-2.225	-2.390	-2.390	-1.850	-1.960	-1.959
528.4109	2.5	23317.633	3.5	42237.033	-3.503	-7.799	-3.190	-3.230	-3.000		
531.6615	5.5	25428.784	4.5	44232.512	-2.090	-2.076			-1.950	-1.720	-1.721
532.5553	3.5	25981.629	3.5	44753.799	-3.426	-3.379	-3.320	-3.500	-3.150		
533.7732	2.5	26055.423	2.5	44784.761	-4.085	-4.070			-3.500		
536.2867	4.5	25805.328	3.5	44446.878	-2.918	-2.920	-2.730	-2.730	-2.520		
541.4073	3.5	25981.629	3.5	44446.878	-3.958	-3.920	-3.790	-3.530	-3.290		
542.5257	4.5	25805.328	4.5	44232.512	-3.600	-3.540	-3.360	-3.530	-3.100		
553.4847	5.5	26170.181	4.5	44232.512	-3.273	-3.386	-2.930	-2.940	-2.760		
562.7497	3.5	27314.922	2.5	45079.879	-4.395	-4.602	-4.360				
581.3677	2.5	44929.550	1.5	62125.600	-2.901	-2.889					
599.1376	5.5	25428.784	4.5	42114.818	-3.781	-3.878	-3.740	-3.710			
608.4111	4.5	25805.328	3.5	42237.033	-4.037	-4.114	-3.980	-4.110			
611.3322	3.5	25981.629	2.5	42334.822	-4.398	-4.469	-4.310				
614.7741	1.5	31364.440	0.5	47626.076	-2.891	-2.890	-2.330	-2.800	-2.800		
614.9258	0.5	31368.450	0.5	47626.076	-2.893	-2.892	-2.920	-2.750	-2.750		
623.8392	1.5	31364.440	1.5	47389.779	-2.799	-2.800			-2.360		
623.9953	0.5	31368.450	1.5	47389.779	-3.607	-3.614			-3.550		
624.7557	2.5	31387.948	1.5	47389.779	-2.501	-2.496	-2.510	-2.470	-2.410		
636.9462	2.5	23317.633	1.5	39013.206	-4.432	-9.671	-4.360		-4.140		
638.3722	2.5	44784.761	2.5	60445.275	-2.760	-4.568	-2.270				
641.6919	2.5	31387.948	2.5	46967.444	-2.910	-2.918	-2.850	-2.920	-2.540		
643.2680	2.5	23317.633	2.5	38858.958	-3.888	-8.740	-3.740	-3.800	-3.640		
644.6410	3.5	50187.813	4.5	65696.038	-2.206	-2.149	-2.160				
645.6383	3.5	31483.176	2.5	46967.444	-2.251	-2.247	-2.300	-2.220	-2.280		
651.6081	2.5	23317.633	3.5	38660.043	-3.633	-8.206	-3.450	-3.490	-3.180		
722.4487	0.5	31368.450	0.5	45206.450	-3.481	-3.484	-3.400				
730.1560	2.5	31387.948	2.5	45079.879	-5.300		-3.880				
730.8073	1.5	31364.440	1.5	45044.168	-3.248	-3.250	-3.240	-3.240			
746.2407	2.5	31387.948	2.5	44784.761	-2.964	-2.980	-3.050				
747.9694	2.5	31387.948	3.5	44753.799	-3.688	-3.675	-3.880				
751.5832	3.5	31483.176	2.5	44784.761	-3.634	-3.701	-3.680				
771.1724	3.5	31483.176	3.5	44446.878	-2.773	-2.812	-2.740	-2.780			

Table 10. Notorious KP multiplets.

MULT	WL	ELO	JLO	LABEL	EUP	JUP	LABEL	K	KP
40	651.6081	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D	-3.633	-8.210
40	643.2680	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	4P (5D)6D	-3.888	-8.740
40	636.9462	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	-4.432	-9.670
41	528.4109	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	-3.503	-7.800
41	525.6938	23317.633	2.5	D5S2(7S)6S	42334.822	2.5	4P (5D)6F	-4.428	-8.170
41	523.8624	23317.633	2.5	D5S2(7S)6S	42401.302	1.5	4P (5D)6F	-5.469	-8.960
42	516.9033	23317.633	2.5	D5S2(7S)6S	42658.224	3.5	4P (5D)6P	-1.428	-7.090
42	501.8440	23317.633	2.5	D5S2(7S)6S	43238.586	2.5	4P (5D)6P	-1.524	-7.760
42	492.3927	23317.633	2.5	D5S2(7S)6S	43620.957	1.5	4P (5D)6P	-1.682	-
43	473.1453	23317.633	2.5	D5S2(7S)6S	44446.878	3.5	4P (5D)4D	-3.143	-5.340
43	465.6981	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D	-3.657	-6.090
43	460.1378	23317.633	2.5	D5S2(7S)6S	45044.168	1.5	4P (5D)4D	-4.536	-7.020
44	466.3708	23317.633	2.5	D5S2(7S)6S	44753.799	3.5	4P (5D)4F	-4.427	-6.560
44	459.3827	23317.633	2.5	D5S2(7S)6S	45079.879	2.5	4P (5D)4F	-5.103	-7.530
44	454.9937	23317.633	2.5	D5S2(7S)6S	45289.801	1.5	4P (5D)4F	-6.308	-8.780

Table 11. Comparison of K, KP, and BSS.

WL	EVEN E	J	LABEL	ODD E	J	LABEL	BSS	BSS-KP	BSS-K	K-KP
412.4787	20516.960	2.5	D7 (5D)2D	44753.799	3.5	4P (5D)4F	-4.20	0.95	0.87	0.08
417.8862	20830.582	2.5	D6S (3P)4P	44753.799	3.5	4P (5D)4F	-2.71	0.24	0.19	0.05
441.3601	21581.638	4.5	D6S (3H)4H	44232.512	4.5	4P (5D)4F	-3.87	0.21	0.15	0.06
441.6830	22409.852	0.5	D6S (3P)4P	45044.168	1.5	4P (5D)4D	-2.61	0.01	-0.01	0.02
449.1405	23031.300	1.5	D6S (3F)4F	45289.801	1.5	4P (5D)4F	-2.70	0.19	0.08	0.11
450.8288	23031.300	1.5	D6S (3F)4F	45206.450	0.5	4P (5D)4D	-2.43	-0.02	-0.01	-0.01
454.1524	23031.300	1.5	D6S (3F)4F	45044.168	1.5	4P (5D)4D	-2.99	-0.07	-0.06	-0.01
455.5893	22810.357	3.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	-2.36	0.15	0.06	0.09
457.6340	22939.358	2.5	D6S (3F)4F	44784.761	2.5	4P (5D)4D	-3.08	-0.18	-0.19	0.01
458.2835	22939.358	2.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	-3.30	0.00	-0.13	0.14
462.0521	22810.357	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	-3.40	-0.25	-0.27	0.02
465.6981	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D	-3.81	2.28	-0.15	2.43
467.0182	20830.582	2.5	D6S (3P)4P	42237.033	3.5	4P (5D)6F	-4.22	-0.16	-0.08	-0.08
499.3358	22637.205	4.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	-3.82	-0.55	-0.11	-0.44
500.0743	22409.852	0.5	D6S (3P)4P	42401.302	1.5	4P (5D)6F	-4.74	-0.27	-0.06	-0.21
510.0664	22637.205	4.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	-4.37	0.16	-0.07	0.23
513.2669	22637.205	4.5	D6S (3F)4F	42114.818	4.5	4P (5D)6F	-4.18	-0.04	-0.07	0.03
513.6802	22939.358	2.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	-4.49	0.15	-0.04	0.19
526.4812	26055.423	2.5	D6S (3G)4G	45044.168	1.5	4P (5D)4D	-3.19	0.32	0.30	0.02
528.4109	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	-3.19	4.61	0.31	4.30
532.5553	25981.629	3.5	D6S (3G)4G	44753.799	3.5	4P (5D)4F	-3.32	0.06	0.11	-0.05
541.4073	25981.629	3.5	D6S (3G)4G	44446.878	3.5	4P (5D)4D	-3.79	0.13	0.17	-0.04
542.5257	25805.328	4.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F	-3.36	0.18	0.24	-0.06
553.4847	26170.181	5.5	D6S (3H)2H	44232.512	4.5	4P (5D)4F	-2.93	0.46	0.34	0.12
562.7497	27314.922	3.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	-4.36	0.24	0.03	0.21
599.1376	25428.784	5.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	-3.74	0.14	0.04	0.10
608.4111	25805.328	4.5	D6S (3G)4G	42237.033	3.5	4P (5D)6F	-3.98	0.13	0.06	0.07
611.3322	25981.629	3.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F	-4.31	0.16	0.09	0.07
614.9258	31368.450	0.5	D6S (3D)4D	47626.076	0.5	4P (5D)4P	-2.92	-0.03	-0.03	0.00
624.7557	31387.948	2.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P	-2.51	-0.01	-0.01	0.00
636.9462	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	-4.36	5.31	0.07	5.24
638.3722	60445.275	2.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	-2.27	2.30	0.49	1.81
641.6919	31387.948	2.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	-2.85	0.07	0.06	0.01
643.2680	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	4P (5D)6D	-3.74	5.00	0.15	4.85
644.6410	50187.813	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	-2.16	-0.01	0.05	-0.06
645.6383	31483.176	3.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	-2.30	-0.05	-0.05	0.00
651.6081	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D	-3.45	4.76	0.18	4.58
722.4487	31368.450	0.5	D6S (3D)4D	45206.450	0.5	4P (5D)4D	-3.40	-0.02	0.08	-0.10
730.1560	31387.948	2.5	D6S (3D)4D	45079.879	2.5	4P (5D)4F	-3.88	6.11	1.42	4.69
747.9694	31387.948	2.5	D6S (3D)4D	44753.799	3.5	4P (5D)4F	-3.88	-0.21	-0.19	-0.02
751.5832	31483.176	3.5	D6S (3D)4D	44784.761	2.5	4P (5D)4D	-3.68	0.02	-0.05	0.07
771.1724	31483.176	3.5	D6S (3D)4D	44446.878	3.5	4P (5D)4D	-2.74	0.07	0.03	0.04

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APPENDIX
FORBIDDEN TRANSITIONS

WL(NM)	LOGGF	E LOWER	J LABEL	E UPPER	J LABEL	WL(NM)	LOGGF	E LOWER	J LABEL	E UPPER	J LABEL
317.5381	-8.575	0.000	4.5 D6S (5D)6D	31483.176	3.5 D6S (3D)4D	428.7394	-7.732	0.000	4.5 D6S (5D)6D	2317.633	2.5 D5S2(7S)6S
321.4672	-9.068	384.790	3.5 D6S (5D)6D	31483.176	3.5 D6S (3D)4D	430.5890	-8.287	2837.950	2.5 D7 (5D)4F	26055.423	2.5 D6S (3C)4G
322.4547	-9.366	384.790	3.5 D6S (5D)6D	31387.948	2.5 D6S (3D)4D	431.5890	-9.146	2837.950	2.5 D7 (5D)4F	25981.629	3.5 D6S (3C)4G
324.4185	-9.436	667.683	2.5 D6S (5D)6D	31483.176	3.5 D6S (3D)4D	434.6852	-8.146	2430.097	3.5 D7 (5D)4F	25428.784	5.5 D6S (3C)4G
325.4242	-8.942	667.683	2.5 D6S (5D)6D	31387.948	2.5 D6S (3D)4D	435.2778	-8.055	2837.950	2.5 D7 (5D)4F	25805.328	4.5 D6S (3C)4G
327.5023	-9.267	862.613	1.5 D6S (5D)6D	31387.948	2.5 D6S (3D)4D	435.8360	-7.904	3117.461	1.5 D7 (5D)4F	26055.461	2.5 D6S (3C)4G
327.7117	-9.879	862.613	1.5 D6S (5D)6D	31368.450	0.5 D6S (3D)4D	435.9333	-7.853	384.790	3.5 D6S (5D)6D	23317.633	2.5 D5S2(7S)6S
327.7548	-8.987	862.613	1.5 D6S (5D)6D	31368.450	0.5 D6S (3D)4D	435.9333	-7.853	3117.461	1.5 D7 (5D)4F	25981.629	3.5 D6S (3C)4G
328.9457	-9.146	977.053	0.5 D6S (5D)6D	31368.450	0.5 D6S (3D)4D	438.2742	-8.897	0.000	4.5 D6S (5D)6D	22810.357	3.5 D6S (3F)4F
328.9891	-9.402	977.053	0.5 D6S (5D)6D	31364.440	1.5 D6S (3D)4D	438.2967	-9.939	7955.299	3.5 D6S (5D)4D	30764.485	3.5 D6S (3C)2G
331.8384	-9.256	1872.567	4.5 D7 (5D)4F	31999.048	3.5 D7 (5D)2F	441.3781	-7.993	667.683	2.5 D6S (5D)6D	23317.633	2.5 D5S2(7S)6S
337.6198	-8.001	1872.567	4.5 D7 (5D)4F	31483.176	3.5 D6S (3D)4D	441.6266	-7.871	0.000	4.5 D6S (5D)6D	22637.205	4.5 D6S (3F)4F
338.0955	-10.064	2430.097	3.5 D7 (5D)4F	31999.048	3.5 D7 (5D)2F	443.2447	-9.020	384.790	3.5 D6S (5D)6D	22939.358	2.5 D6S (3F)4F
338.7092	-8.685	1872.567	4.5 D7 (5D)4F	31387.948	2.5 D6S (3D)4D	443.2447	-9.020	862.613	1.5 D6S (5D)6D	23317.633	2.5 D5S2(7S)6S
340.2500	-9.903	2430.097	3.5 D7 (5D)4F	31811.822	2.5 D7 (5D)2F	445.2097	-8.181	384.790	3.5 D6S (5D)6D	22810.357	3.5 D6S (3F)4F
342.8243	-9.596	2430.097	3.5 D7 (5D)4F	31999.048	3.5 D7 (5D)2F	445.7945	-8.160	8391.938	2.5 D6S (5D)4D	30764.485	3.5 D6S (3C)2G
344.0990	-8.467	2430.097	3.5 D7 (5D)4F	31483.176	3.5 D6S (3D)4D	447.0294	-9.459	667.683	2.5 D6S (5D)6D	23031.300	1.5 D6S (3F)4F
345.0397	-10.026	2837.950	2.5 D7 (5D)4F	31811.822	2.5 D7 (5D)2F	447.4904	-8.489	977.053	0.5 D6S (5D)6D	23317.633	2.5 D5S2(7S)6S
345.2306	-8.402	2430.097	3.5 D7 (5D)4F	31387.948	2.5 D6S (3D)4D	447.9121	-8.363	15844.650	4.5 D7 (5D)2G	38164.194	2.5 D6S (1D)2D
345.5111	-8.589	2430.097	3.5 D7 (5D)4F	31364.440	1.5 D6S (3D)4D	448.8749	-8.566	667.683	2.5 D6S (5D)6D	22939.358	2.5 D6S (3F)4F
348.4008	-9.281	3117.461	1.5 D7 (5D)4F	31811.822	2.5 D7 (5D)2F	449.2634	-8.741	384.790	3.5 D6S (5D)6D	22637.205	4.5 D6S (3F)4F
348.9984	-9.291	2837.950	2.5 D7 (5D)4F	31483.176	3.5 D6S (3D)4D	450.9602	-9.150	862.613	1.5 D6S (5D)6D	23031.300	1.5 D6S (3F)4F
350.1625	-8.426	2837.950	2.5 D7 (5D)4F	31387.948	2.5 D6S (3D)4D	451.4900	-8.792	667.683	2.5 D6S (5D)6D	22810.357	3.5 D6S (3F)4F
350.4019	-8.718	2837.950	2.5 D7 (5D)4F	31368.450	0.5 D6S (3D)4D	452.8383	-9.071	862.613	1.5 D6S (5D)6D	22939.358	2.5 D6S (3F)4F
350.4511	-8.811	2837.950	2.5 D7 (5D)4F	31368.450	0.5 D6S (3D)4D	453.3003	-9.705	977.053	0.5 D6S (5D)6D	23031.300	1.5 D6S (3F)4F
350.5803	-10.155	1872.567	4.5 D7 (5D)4F	31364.440	1.5 D6S (3D)4D	457.6393	-8.220	16369.360	3.5 D7 (5D)2G	38214.507	1.5 D6S (1D)2D
352.8272	-10.484	2430.097	3.5 D7 (5D)4F	30764.485	3.5 D6S (3C)2G	458.6958	-9.519	16369.360	3.5 D7 (5D)2G	38164.194	2.5 D6S (1D)2D
353.6247	-9.150	3117.461	1.5 D7 (5D)4F	31387.948	2.5 D6S (3D)4D	463.2271	-10.150	0.000	4.5 D6S (5D)6D	21581.638	4.5 D6S (3H)4H
353.8688	-8.823	3117.461	1.5 D7 (5D)4F	31368.450	0.5 D6S (3D)4D	463.2271	-10.150	862.613	1.5 D6S (5D)6D	22409.852	0.5 D6S (3F)4F
353.9190	-8.544	3117.461	1.5 D7 (5D)4F	31368.450	0.5 D6S (3D)4D	466.4440	-9.009	977.053	0.5 D6S (5D)6D	22409.852	0.5 D6S (3F)4F
357.5716	-10.240	2430.097	3.5 D7 (5D)4F	31364.440	1.5 D6S (3D)4D	472.8068	-8.191	667.683	2.5 D6S (5D)6D	21812.055	1.5 D6S (3F)4F
357.9802	-10.609	2837.950	2.5 D7 (5D)4F	30388.542	4.5 D6S (3G)2G	474.5480	-9.579	1872.567	4.5 D7 (5D)4F	22939.358	2.5 D6S (3F)4F
358.8225	-9.356	8391.938	2.5 D6S (5D)4D	30764.485	3.5 D6S (3C)2G	477.2063	-9.450	862.613	1.5 D6S (5D)6D	21812.055	1.5 D6S (3F)4F
362.5773	-9.164	8680.454	1.5 D6S (5D)4D	36252.918	2.5 D6S (3D)2D	477.4718	-8.449	1872.567	4.5 D7 (5D)4F	22810.357	3.5 D6S (3F)4F
364.2489	-9.248	8680.454	1.5 D6S (5D)4D	36252.918	2.5 D6S (3D)2D	479.8274	-8.946	977.053	0.5 D6S (5D)6D	21812.055	1.5 D6S (3F)4F
366.4697	-8.948	8846.768	0.5 D6S (5D)4D	36126.387	1.5 D6S (3D)2D	481.4534	-7.857	1872.567	4.5 D7 (5D)4F	22637.205	4.5 D6S (3F)4F
387.4071	-9.502	0.000	4.5 D6S (5D)6D	25805.328	4.5 D6S (3G)4G	485.2730	-9.508	2430.097	3.5 D7 (5D)4F	23031.300	1.5 D6S (3F)4F
390.5626	-9.835	384.790	3.5 D6S (5D)6D	25981.629	3.5 D6S (3G)4G	487.4485	-8.440	488.9616	-8.111	20830.582	2.5 D6S (3F)4F
392.9341	-10.141	1872.567	4.5 D7 (5D)4F	27314.922	3.5 D6S (3G)2F	489.8607	-7.752	15844.650	4.5 D7 (5D)2G	36252.918	2.5 D6S (3D)2D
396.8657	-10.735	2430.097	3.5 D7 (5D)4F	27620.412	2.5 D6S (3F)2F	490.5339	-8.197	2430.097	3.5 D7 (5D)4F	22810.357	3.5 D6S (3F)4F
404.9115	-9.752	13474.411	2.5 D7 (5D)4F	38164.194	2.5 D6S (1D)2D	494.7373	-8.736	2430.097	3.5 D7 (5D)4F	22637.205	4.5 D6S (3F)4F
408.1979	-9.280	13673.185	1.5 D7 (5D)4F	38164.194	2.5 D6S (1D)2D	495.0744	-8.602	2837.950	2.5 D7 (5D)4F	23031.300	1.5 D6S (3F)4F
408.3781	-10.125	1872.567	4.5 D7 (5D)4F	26352.766	4.5 D6S (3H)2H	497.3388	-8.507	2837.950	2.5 D7 (5D)4F	22939.358	2.5 D6S (3F)4F
408.4320	-9.703	2837.950	2.5 D7 (5D)4F	27314.922	3.5 D6S (3F)2F	500.5512	-8.671	2837.950	2.5 D7 (5D)4F	22810.357	3.5 D6S (3F)4F
411.4470	-8.863	1872.567	4.5 D7 (5D)4F	26170.181	5.5 D6S (3H)2H	500.5512	-8.671	862.613	1.5 D6S (5D)6D	20830.582	2.5 D6S (3F)4F
414.6649	-9.746	1872.567	4.5 D7 (5D)4F	25981.629	3.5 D6S (3G)4G	502.0233	-9.216	3117.461	1.5 D7 (5D)4F	23031.300	1.5 D6S (3F)4F
415.7913	-9.428	7955.299	3.5 D6S (5D)4D	31999.048	3.5 D7 (5D)2F	502.0233	-9.216	16369.360	3.5 D7 (5D)2G	36252.918	2.5 D6S (3D)2D
417.7196	-8.436	1872.567	4.5 D7 (5D)4F	25805.328	4.5 D6S (3G)4G	502.0233	-9.216	18360.646	1.5 D7 (5D)2P	38214.507	1.5 D6S (1D)2D
417.8958	-9.874	2430.097	3.5 D7 (5D)4F	26352.766	4.5 D6S (3H)2H	503.5399	-8.777	3117.461	1.5 D7 (5D)4F	22939.358	2.5 D6S (3F)4F
421.1099	-9.116	2430.097	3.5 D7 (5D)4F	26170.181	5.5 D6S (3H)2H	504.3519	-8.828	18360.646	1.5 D7 (5D)2P	38164.194	2.5 D6S (1D)2D
423.1554	-9.413	2430.097	3.5 D7 (5D)4F	26055.423	2.5 D6S (3G)4G	506.0080	-8.016	16369.360	3.5 D7 (5D)2G	36126.387	1.5 D6S (3D)2D
423.4819	-9.754	8391.938	2.5 D6S (5D)4D	31999.048	3.5 D7 (5D)2F	507.2392	-9.071	1872.567	4.5 D7 (5D)4F	21581.638	4.5 D6S (3H)4H
424.3969	-7.535	1872.567	4.5 D7 (5D)4F	25428.784	5.5 D6S (3G)4G	508.3730	-9.634	7955.299	3.5 D6S (5D)4D	27620.412	2.5 D6S (3F)2F
424.4813	-8.267	2430.097	3.5 D7 (5D)4F	25981.629	3.5 D6S (3G)4G	510.7942	-8.726	2837.950	2.5 D7 (5D)4F	22409.852	0.5 D6S (3F)4F
425.1441	-9.628	2837.950	2.5 D7 (5D)4F	26352.766	4.5 D6S (3H)2H	511.1627	-8.328	1872.567	4.5 D7 (5D)4F	21430.359	5.5 D6S (3H)4H
426.6349	-9.406	7955.299	3.5 D6S (5D)4D	31387.948	2.5 D6S (3D)4D	515.8001	-8.320	2430.097	3.5 D7 (5D)4F	21812.055	1.5 D6S (3F)4F
427.6829	-7.749	2430.097	3.5 D7 (5D)4F	25805.328	4.5 D6S (3G)4G	515.8777	-7.609	1872.567	4.5 D7 (5D)4F	21251.608	6.5 D6S (3H)4H

WL(NM)	LOGGF	E LOWER	J	LABEL	E UPPER	J	LABEL	WL(NM)	LOGGF	E LOWER	J	LABEL	E UPPER	J	LABEL
516.3951	-7.990	7955.299	3.5	D6S (5D)4D	27314.922	3.5	D6S (3F)2F	635.3116	-8.210	20516.960	2.5	D7 (5D)2D	36252.918	2.5	D6S (3D)2D
517.2473	-8.472	18886.780	0.5	D7 (5D)2P	38214.507	1.5	D7 (1D)2D	639.6312	-8.656	16369.360	3.5	D7 (5D)2G	31999.048	3.5	D7 (5D)2F
518.1947	-8.563	3117.461	1.5	D7 (5D)4F	22409.852	0.5	D6S (3P)4P	640.4615	-8.796	20516.960	2.5	D7 (5D)2D	36126.387	1.5	D6S (3D)2D
518.4788	-9.169	2430.097	3.5	D7 (5D)4F	21711.917	3.5	D6S (3H)4H	644.0400	-9.243	2837.950	2.5	D7 (5D)4F	18360.646	1.5	D7 (5D)2F
518.5973	-8.575	18886.780	0.5	D7 (5D)2D	38164.194	2.5	D6S (1D)2D	647.3862	-8.624	16369.360	3.5	D7 (5D)2G	31811.822	2.5	D7 (5D)2F
519.9173	-9.335	8391.938	2.5	D6S (5D)4D	27620.412	2.5	D6S (3F)2F	648.2311	-8.799	20830.582	2.5	D6S (3P)4P	36252.918	2.5	D6S (3D)2D
522.0059	-8.347	2430.097	3.5	D7 (5D)4F	21581.638	4.5	D6S (3H)4H	648.5282	-8.036	21812.055	1.5	D6S (3P)4P	37227.326	0.5	D6S (1S)2S
526.1621	-7.811	2430.097	3.5	D7 (5D)4F	21430.359	5.5	D6S (3H)4H	651.1231	-8.215	22810.357	3.5	D6S (3F)4F	38164.194	2.5	D6S (1D)2D
527.3346	-8.034	1872.567	4.5	D7 (5D)4F	20830.582	2.5	D6S (3P)4P	655.8497	-9.384	3117.461	1.5	D7 (5D)4F	18360.646	1.5	D7 (5D)2P
528.3109	-8.329	8391.938	2.5	D6S (5D)4D	27620.412	2.5	D6S (3F)2F	656.6401	-9.069	22939.358	2.5	D6S (3F)4F	38164.194	2.5	D6S (1D)2D
529.6829	-8.514	2837.950	2.5	D7 (5D)4F	27314.922	3.5	D6S (3F)2F	658.4405	-8.544	23031.300	1.5	D6S (3F)4F	38214.507	1.5	D6S (1D)2D
533.3646	-7.955	2837.950	2.5	D7 (5D)4F	21711.917	3.5	D6S (3H)4H	668.9409	-8.752	21308.040	1.5	D7 (5D)2D	36252.918	2.5	D6S (3D)2D
534.7653	-9.010	3117.461	1.5	D7 (5D)4F	21581.638	4.5	D6S (3H)4H	670.0637	-9.190	15844.650	4.5	D7 (5D)2G	30764.485	3.5	D6S (3G)2G
537.6452	-8.045	3117.461	1.5	D7 (5D)4F	21812.055	1.5	D6S (3P)4P	672.9856	-9.035	7955.299	3.5	D6S (5D)4D	22810.357	3.5	D6S (3F)4F
541.2654	-8.324	2837.950	2.5	D7 (5D)4F	21711.917	3.5	D6S (3H)4H	674.6529	-8.816	21308.040	1.5	D7 (5D)2D	36126.387	1.5	D6S (3D)2D
543.3129	-8.534	2430.097	3.5	D7 (5D)4F	21308.040	1.5	D7 (5D)2D	674.6926	-8.564	22409.852	0.5	D6S (3P)4P	37227.326	0.5	D6S (1S)2S
547.7241	-8.403	8680.454	1.5	D6S (5D)4D	20830.582	2.5	D6S (3P)4P	680.9226	-8.760	7955.299	3.5	D6S (5D)4D	22637.205	4.5	D6S (3F)4F
549.5824	-8.596	3117.461	1.5	D7 (5D)4F	26932.748	0.5	D6S (3P)2P	687.2175	-9.029	8391.938	2.5	D6S (5D)4D	22939.358	2.5	D6S (3F)4F
552.7339	-8.130	2430.097	3.5	D7 (5D)4F	21308.040	1.5	D7 (5D)2D	687.3842	-8.159	15844.650	4.5	D7 (5D)2G	30388.542	4.5	D6S (3G)2G
552.7609	-8.959	8846.768	0.5	D6S (5D)4D	20516.960	2.5	D7 (5D)2P	689.6175	-9.528	1872.567	4.5	D7 (5D)4F	16369.360	3.5	D7 (5D)2G
555.6287	-9.214	2837.950	2.5	D7 (5D)4F	26932.748	0.5	D6S (3P)2P	694.4881	-8.298	16369.360	3.5	D7 (5D)2G	30764.485	3.5	D6S (3G)2G
558.7454	-8.995	13474.411	2.5	D7 (5D)4F	20932.748	0.5	D6S (3D)4D	696.6309	-9.121	8680.454	1.5	D6S (5D)4D	23031.300	1.5	D6S (3F)4F
558.8154	-8.870	2837.950	2.5	D7 (5D)4F	20830.582	2.5	D6S (3P)4P	704.7990	-9.322	8846.768	0.5	D6S (5D)4D	20331.300	1.5	D6S (3F)4F
561.7249	-8.545	18360.646	1.5	D7 (5D)2P	31387.948	2.5	D6S (3D)2D	713.1118	-9.076	16369.360	3.5	D7 (5D)2G	30388.542	4.5	D6S (3G)2G
562.8933	-9.287	20516.960	2.5	D7 (5D)2D	36252.918	2.5	D6S (3D)4D	715.1517	-9.739	1872.567	4.5	D7 (5D)4F	15844.650	4.5	D7 (5D)2F
564.9661	-8.815	13673.185	1.5	D7 (5D)4P	31364.440	1.5	D6S (3D)4D	717.2004	-8.462	2430.097	3.5	D7 (5D)4F	16369.360	3.5	D7 (5D)2G
565.0942	-8.837	13673.185	1.5	D7 (5D)4P	31483.176	3.5	D6S (3D)4D	738.8178	-8.551	8391.938	2.5	D6S (5D)4D	22939.358	2.5	D6S (3F)4F
565.4856	-9.064	2837.950	2.5	D7 (5D)4F	31364.440	1.5	D6S (3D)4D	743.2247	-9.504	18360.646	1.5	D7 (5D)2P	16369.360	3.5	D7 (5D)2F
566.2032	-9.609	15844.650	4.5	D7 (5D)2G	36126.387	1.5	D6S (3D)2D	745.2538	-8.398	2430.097	3.5	D7 (5D)4F	15844.650	4.5	D7 (5D)2F
566.5038	-9.108	20516.960	2.5	D7 (5D)2D	38214.507	1.5	D6S (1D)2D	763.7538	-9.689	384.790	3.5	D6S (5D)6D	13474.411	2.5	D7 (5D)4P
567.3211	-7.839	15844.650	4.5	D7 (5D)2G	31368.450	0.5	D6S (3D)4D	766.5302	-10.198	862.613	1.5	D6S (5D)6D	13904.824	0.5	D7 (5D)4P
571.8215	-8.712	13904.824	0.5	D7 (5D)4P	20516.960	2.5	D7 (5D)2D	768.6938	-9.849	667.683	2.5	D6S (5D)6D	13673.185	1.5	D7 (5D)4P
572.5914	-9.115	13904.824	0.5	D7 (5D)4P	33501.253	3.5	D6S (1G)2G	772.0179	-8.586	20516.960	2.5	D7 (5D)2D	33466.463	4.5	D6S (1G)2G
574.5698	-9.413	3117.461	1.5	D7 (5D)4F	38164.194	2.5	D6S (1D)2D	773.3157	-10.632	977.053	0.5	D6S (5D)6D	13904.824	0.5	D7 (5D)4P
574.6966	-8.135	8391.938	2.5	D6S (5D)4D	33466.463	4.5	D6S (1G)2G	773.4790	-9.626	18886.780	0.5	D7 (5D)2P	31811.822	2.5	D7 (5D)2F
575.6736	-9.270	18886.780	0.5	D7 (5D)2P	33466.463	4.5	D6S (1G)2G	776.4683	-8.803	7955.299	3.5	D6S (5D)4D	20830.582	2.5	D6S (3P)4P
576.7538	-8.610	20830.582	2.5	D6S (3P)4P	31364.440	1.5	D6S (3D)4D	797.5249	-8.036	20340.300	5.5	D7 (5D)2H	32875.646	6.5	D6S (1I)2I
579.8988	-8.787	18886.780	0.5	D7 (5D)2P	31364.440	1.5	D6S (3D)4D	803.7251	-9.236	8391.938	2.5	D6S (5D)4D	20830.582	2.5	D6S (3P)4P
583.5449	-7.884	16369.360	3.5	D7 (5D)2G	20516.960	2.5	D7 (5D)2D	804.4841	-8.934	25787.598	1.5	D6S (3P)2P	38214.507	1.5	D6S (1D)2D
584.3991	-9.513	8680.454	1.5	D6S (5D)4D	25787.598	1.5	D6S (3P)2P	807.7545	-8.870	21308.040	1.5	D7 (5D)2D	38164.194	2.5	D6S (1D)2D
584.7323	-8.772	16369.360	3.5	D7 (5D)2G	36252.918	2.5	D6S (3D)2D	819.9030	-8.815	25787.598	1.5	D6S (3P)2P	38164.194	2.5	D6S (1D)2D
585.8236	-10.063	15844.650	4.5	D7 (5D)2G	36126.387	1.5	D6S (3D)2D	822.8104	-9.312	8680.454	1.5	D6S (5D)4D	20830.582	2.5	D6S (3P)4P
587.0020	-7.995	15844.650	4.5	D7 (5D)2G	33501.253	3.5	D6S (1G)2G	825.9369	-8.133	20805.770	4.5	D7 (5D)2H	32909.905	5.5	D6S (1I)2I
590.1258	-9.078	8846.768	0.5	D6S (5D)4D	25787.598	1.5	D6S (3P)2P	830.6053	-7.809	21430.359	5.5	D6S (3H)4H	33466.463	4.5	D6S (1G)2G
591.3528	-8.724	21308.040	1.5	D7 (5D)2D	32875.646	6.5	D6S (1I)2I	838.7228	-7.898	21581.638	4.5	D6S (3H)4H	33466.463	4.5	D6S (1G)2G
593.0908	-8.655	21308.040	1.5	D7 (5D)2D	32875.646	6.5	D6S (1I)2I	847.9912	-8.064	21711.917	3.5	D6S (3H)4H	33501.253	3.5	D6S (1G)2G
598.2652	-8.571	20516.960	2.5	D7 (5D)2D	25787.598	1.5	D6S (3P)2P	848.9687	-9.498	15844.650	4.5	D7 (5D)2G	27620.412	2.5	D6S (3F)2F
604.4076	-8.141	16369.360	3.5	D7 (5D)2G	38214.507	1.5	D6S (1D)2D	857.5226	-9.732	21251.608	6.5	D6S (3H)4H	32909.905	5.5	D6S (1I)2I
609.4962	-8.980	21812.055	1.5	D6S (3P)4P	38164.194	2.5	D6S (1D)2D	860.0500	-7.822	21251.608	6.5	D6S (3H)4H	32875.646	6.5	D6S (1I)2I
611.3716	-9.359	21812.055	1.5	D6S (3P)4P	32909.905	5.5	D6S (1I)2I	861.6952	-8.945	1872.567	4.5	D7 (5D)4F	13474.411	2.5	D7 (5D)4P
618.8552	-8.224	15844.650	4.5	D7 (5D)2G	38214.507	1.5	D6S (1D)2D	870.6826	-9.228	20516.960	2.5	D7 (5D)2D	31999.048	3.5	D7 (5D)2F
626.1118	-9.307	15844.650	4.5	D7 (5D)2G	38164.194	2.5	D6S (1D)2D	871.5795	-8.324	15844.650	4.5	D7 (5D)2G	27314.922	3.5	D6S (3F)2F
627.9952	-8.697	21308.040	1.5	D7 (5D)2D	31999.048	3.5	D7 (5D)2F	873.4822	-8.204	21430.359	5.5	D6S (3H)4H	32875.646	6.5	D6S (1I)2I
		37227.326	0.5	D6S (1S)2S	37227.326	0.5	D6S (1S)2S	873.9067	-8.278	25787.598	1.5	D6S (3P)2P	37227.326	0.5	D6S (1S)2S

WL(NM)	LOGGF	E LOWER	J LABEL	E UPPER	J LABEL
882.5052	-8.274	21581.638	4.5 D6S (3H)4H	32909.905	5.5 D6S (1I)2I
885.1153	-9.238	20516.960	2.5 D7 (5D)2D	31811.822	2.5 D7 (5D)2F
888.5618	-9.069	16369.360	3.5 D7 (5D)2G	27620.412	2.5 D6S (3F)2F
889.1912	-9.324	2430.097	3.5 D7 (5D)4F	13673.185	1.5 D7 (5D)4F
893.1481	-9.488	20805.770	4.5 D7 (5D)2H	31999.048	3.5 D7 (5D)2F
903.3496	-9.736	2837.950	2.5 D7 (5D)4F	13904.824	0.5 D7 (5D)4P
905.1948	-9.509	2430.097	3.5 D7 (5D)4F	13474.411	2.5 D7 (5D)4P
908.3417	-8.652	20805.770	4.5 D7 (5D)2H	31811.822	2.5 D7 (5D)2F
913.3616	-9.161	16369.360	3.5 D7 (5D)2G	27314.922	3.5 D6S (3F)2F
920.2147	-8.879	22637.205	4.5 D6S (3F)4F	33501.253	3.5 D6S (1G)2G
922.6617	-9.514	2837.950	2.5 D7 (5D)4F	13673.185	1.5 D7 (5D)4P
923.1710	-7.571	22637.205	4.5 D6S (3F)4F	33466.463	4.5 D6S (1G)2G
926.7563	-9.594	3117.461	1.5 D7 (5D)4F	13904.824	0.5 D7 (5D)4P
935.1187	-7.979	22810.357	3.5 D6S (3F)4F	33501.253	3.5 D6S (1G)2G
938.1717	-8.034	22810.357	3.5 D6S (3F)4F	33466.463	4.5 D6S (1G)2G
938.4810	-8.236	20830.582	2.5 D6S (3P)4P	31483.176	3.5 D6S (3D)4D
943.6632	-8.619	27620.412	2.5 D6S (3F)2F	38214.507	1.5 D6S (1D)2D
946.5401	-8.156	22939.358	2.5 D6S (3F)4F	33501.253	3.5 D6S (1G)2G
946.9462	-8.616	20830.582	2.5 D6S (3P)4P	31387.948	2.5 D6S (3D)4D
947.0935	-10.039	3117.461	1.5 D7 (5D)4F	13673.185	1.5 D7 (5D)4P
948.1662	-8.360	27620.412	2.5 D6S (3F)2F	38164.194	2.5 D6S (1D)2D
949.0595	-8.945	20830.582	2.5 D6S (3P)4P	31364.440	1.5 D6S (3D)4D
951.3844	-8.908	15844.650	4.5 D7 (5D)2G	26352.766	4.5 D6S (3H)2H
951.7770	-9.381	21308.040	1.5 D7 (5D)2D	31811.822	2.5 D7 (5D)2F
955.2749	-8.724	25787.598	1.5 D6S (3P)2P	36252.918	2.5 D6S (3D)2D
959.0446	-9.753	20340.300	5.5 D7 (5D)2H	30764.485	3.5 D6S (3G)2G
966.9661	-8.376	25787.598	1.5 D6S (3P)2P	36126.387	1.5 D6S (3D)2D
968.2077	-8.659	15844.650	4.5 D7 (5D)2G	26170.181	5.5 D6S (3H)2H
971.1188	-8.187	26932.748	0.5 D6S (3P)2P	37227.326	0.5 D6S (1S)2S
979.5159	-10.010	8680.454	1.5 D6S (5D)4D	18886.780	0.5 D7 (5D)2P
994.9262	-8.506	20340.300	5.5 D7 (5D)2H	30388.542	4.5 D6S (3G)2G
1001.3876	-8.823	16369.360	3.5 D7 (5D)2G	26352.766	4.5 D6S (3H)2H
1002.8641	-9.688	8391.938	2.5 D6S (5D)4D	18360.646	1.5 D7 (5D)2P
1003.8704	-8.639	20805.770	4.5 D7 (5D)2H	30764.485	3.5 D6S (3G)2G
1012.7313	-8.932	20516.960	2.5 D7 (5D)2D	30388.542	4.5 D6S (3G)2G
1043.2535	-9.583	20805.770	4.5 D7 (5D)2H	30388.542	4.5 D6S (3G)2G
1046.1330	-8.916	21812.055	1.5 D6S (3P)4P	31368.450	0.5 D6S (3D)4D
1046.5722	-8.549	21812.055	1.5 D6S (3P)4P	31364.440	1.5 D6S (3D)4D
1057.1902	-9.047	21308.040	1.5 D7 (5D)2D	30764.485	3.5 D6S (3G)2G
1079.6452	-9.657	18360.646	1.5 D7 (5D)2P	27620.412	2.5 D6S (3F)2F
1088.6887	-8.546	21581.638	4.5 D6S (3H)4H	30764.485	3.5 D6S (3G)2G
1104.3565	-8.689	21711.917	3.5 D6S (3H)4H	31368.450	0.5 D6S (3D)4D
1115.9405	-8.672	22409.852	0.5 D6S (3P)4P	30388.542	4.5 D6S (3G)2G
1115.9922	-8.428	21430.359	5.5 D6S (3H)4H	31368.450	0.5 D6S (3D)4D
1116.4791	-8.980	18360.646	1.5 D7 (5D)2P	27314.922	3.5 D6S (3F)2F
1135.1620	-9.061	21581.638	4.5 D6S (3H)4H	30388.542	4.5 D6S (3G)2G
1144.6856	-9.514	18886.780	0.5 D7 (5D)2P	27620.412	2.5 D6S (3F)2F
1158.0951	-8.471	27620.412	2.5 D6S (3F)2F	36252.918	2.5 D6S (3D)2D
1165.5095	-8.232	22810.357	3.5 D6S (3F)4F	31387.948	2.5 D6S (3D)4D