

THE FOURTH POSITIVE SYSTEM OF CARBON MONOXIDE

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1. INTRODUCTION

Lines of the Fourth Positive system of CO are prominent features in the solar ultraviolet spectrum as has been shown by Goldberg, Parkinson, and Reeves (1965), Rich (1966), and Porter, Tilford, and Widing (1967). We are analyzing solar rocket and satellite spectra through theoretical spectrum synthesis and require data for many more lines than have been published. In this report we present predicted wavelengths and gf values for the lines of the Fourth Positive system.

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2. ENERGY LEVELS OF THE $X^1 \Sigma^+$ STATE

The infrared bands of CO are well observed for vibration levels up to X37, for moderate values of J, because of the interest in CO as a lasing medium. It has also been observed in the sun to J's greater than 100 by Hall (1970, 1973, 1974). As the observed bands are not perturbed, the observed lines and energy levels can be well fitted with a simple Dunham expression. The analysis by Todd, Clayton, Telfair, McCubbin, and Pliva (1976) makes an extremely accurate fit to the most recent laboratory measurements. An earlier fit by Mantz, Maillard, Roh, and Rao (1975) went to higher J by use of Hall's measurements. Both fits produced identical results for analyzing the less accurate ultraviolet observations, but since we wish to extrapolate to high J, the Mantz *et al.* constants have been adopted. The Todd *et al.* constants would produce differences of, for example -0.0006, -0.0023, and 0.0853 cm^{-1} for X0(30), X0(60), and X0(100), and 0.0061, 0.0472, 0.1577, and 0.2236 cm^{-1} for X34(0), X34(30), X34(60), and X34(100), respectively. Extrapolation to J's beyond the range of observation might not be reliable.

The subroutine used to compute the X levels follows:

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FUNCTION COX(V,J)
C   CO X GROUND STATE ENERGY LEVELS 12C16O
C   MANTZ,MAILLARD,ROH,AND RAO JMS,57,155,1975
  INTEGER V
  REAL JJ1
  V5=FLOAT(V)+.5
  JJ1=J*(J+1)
  T=(2169.813580+(-13.2883076+(10.51127E-3+(5.7440E-5+( 9.8310E-7-
1  3.16600E-8*V5)*V5)*V5)*V5)*V5+
2  ((1.931280872+(-1.75044121E-2+(5.4870E-7+2.5410E-8*V5)*V5)*V5)+
3  ((-6.121468E-6+(11.5260E-10-1.80500E-10*V5)*V5)+
4  (5.8272E-12-1.73750E-13*V5)*JJ1)*JJ1)*JJ1
  COX=T-1081.58603062897
  IF(J.GT.100)COX=-COX
  RETURN
END

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Table 1 lists the predicted energy levels for X0 to X37 for J up to 131. To emphasize the uncertainty, levels for J greater than 100 have been prefixed with a minus sign.

3. ENERGY LEVELS OF THE $A^1 \Pi$ STATE

Observations of the Fourth Positive system require considerable improvement. The X0-Av bands and X1-A0 have been accurately observed by Simmons, Bass, and Tilford (1969) in absorption for low J. The X13-A6 band has been observed in emission for low J by Onaka (1957). Gero (1936) has observed X11-A4, X13-A5, X15-A6, X16-A7, X17-A8, X19-A9, X20-A10, and A21-A10 in emission to moderate values of J. However, as Onaka's measurements are systematically displaced by 0.1 cm^{-1} from Simmons et al. and do not add any additional levels, they were not used in this work. Gero's measurements suffer from systematic wavenumber shifts of up to 1.5 cm^{-1} relative to Simmons et al. and are internally inconsistent, but since they are the only ones available for moderate J, we have attempted to correct them. Below we describe our reduction of the Simmons et al. and the Gero measurements and extrapolations to high J. We strongly urge that new measurements be made to high J that include several bands from each level to allow intercomparison.

We used the wavenumbers published by Simmons et al. listed in Table 2 and the energy levels for the X state given in Table 1 to determine the energy levels for the A state. Tilford and Simmons (1972) have also published a wavelength listing but it was used only to correct a number of typographical errors, which are the following:

- X0-A1 Q(22) and Q(23) are blends
- X0-A10 R(9) 78958.71 should be 79985.71
- X0-A12 R(23) 79777.62 should be 79977.62
R(27) 79623.28 should be 79863.28
- X0-A16 P(7) 84285.02 should be 84258.02

Typographical errors affecting the least significant digits might not have been detected. Also, in the X0-A23 band, P(14), P(15), P(16), and R(8) were not used because they were inconsistent with other lines.

As the $A^1 \Pi$ state is Λ -doubled, the branches are of the form,

$$P(J) = A_c(J-1) - X(J) \quad ,$$

$$Q(J) = A_d(J) - X(J) \quad ,$$

$$R(J) = A_c(J+1) - X(J) \quad ,$$

but the Λ -doubling is too small to be resolved except where perturbations affect the c state differently than the d state. There are numerous such perturbations described by Simmons *et al.* and by Field, Wicke, Simmons, and Tilford (1972). We assumed $A_c(J) = A_d(J)$ except where they were clearly different. Thus, splitting was ignored if it was not much larger than the measuring errors, if it was confused by blends, or if only one component was observed. The observed levels treated separately are A0(1-27), A1(21-26), A2(21-30), A3(28-29), A6(9-17), A7(26), A8(15-19), A10(13-24), A12(24-27), A15(4-14), and A17(12-14).

The energy levels were determined by averaging energies derived from all the unblended lines connecting to a level. If there were no unblended lines, the blended lines were averaged. Table 2 lists the observed bands and the wavelengths derived from our fitted energy levels. Observed lines preceded by a minus sign are blends. The derived energy levels are listed in Table 4, where a suffix B indicates that the level was derived from blended lines and the suffix digit indicates the number of lines used in the average.

Wavenumber corrections for the Gero measurements were determined by plotting differences from wavenumbers predicted from the Simmons *et al.* levels. For J's not observed by Simmons *et al.*, internal discrepancies between energy levels derived from the Gero P and R branches were used to estimate corrections. The P and R branches differ by about 300 cm^{-1} and should predict the same energies unless there is a slope in the wavenumber error. The adopted corrections are linear interpolations from the values listed below.

ν	$\Delta\nu$	ν	$\Delta\nu$	ν	$\Delta\nu$
38000	-0.40	42860	-0.10	45600	-0.45
38500	-0.40	43500	-0.60	47980	-0.45
40450	-0.50	44000	-0.60	48400	-0.65
40650	-1.00	45000	-1.95		
42400	+1.40	45250	-1.95		

The corrected wavenumbers are given in Table 3. Several misassignments in the overlapping bandhead regions have been corrected also. Energies were determined as described above, for A_c and A_d separately, owing to the numerous perturbations, but only for those levels not already determined. Thus the calculated columns in Table 3 list wavenumbers predicted by Simmons et al. for low J . The derived Gero wavenumbers are prefixed by minus signs. The energy levels are given in Table 4 suffixed by G and also prefixed by minus signs to indicate uncertainty.

Also listed in Table 4 are levels extrapolated up to $90,000 \text{ cm}^{-1}$ by use of the expression

$$A(J) = \nu_v + B_v J(J+1) - D_v J^2(J+1)^2 ;$$

the rotational constants are given in Table 5. The constants were taken from Field et al., except for ν_{19} , B_{19} , ν_{22} , and B_{22} , which are from Simmons et al., and D_{22} , which is a guess. Deperturbed constants were used since they should be more reliable for extrapolation than the observed constants. The predicted levels generally differ by only a few tenths from the Gero levels, except for strongly perturbed levels, but they can be far off for the highest J 's. These levels are prefixed by a minus sign in the table to indicate this uncertainty.

4. gf VALUES

Assuming that we can factor the wavefunctions into electronic, vibrational, and rotational parts, and that we can ignore the effects of perturbations, the gf value for a transition from state $p\Lambda vJ$ to a state $p'\Lambda'v'J'$ is

$$gf = \frac{\delta(p,p')}{2 - \delta[0, \min(\Lambda, \Lambda')]} f_{vJ, v'J'}^{el} q_{vv'} S_{JJ'}$$

where p is parity, Λ is orbital angular momentum, $f_{vJ, v'J'}^{el}$ is the electronic f value, $q_{vv'}$ is the Frank-Condon factor, and $S_{JJ'}$ is the Honl-London factor.

The Honl-London factor satisfies the sum rule

$$\sum_{J'} S_{JJ'} = 2J+1 = g \quad .$$

For our ${}^1\Pi - {}^1\Sigma^+$ transition the Honl-London factors are, from Kovacs (1969),

$$S_{J, J-1} = (J-1)/2 \quad \text{for P(J) ,}$$

$$S_{J, J} = (2J+1)/2 \quad \text{for Q(J) ,}$$

$$S_{J, J+1} = (J+2)/2 \quad \text{for R(J) .}$$

The Frank-Condon factors have been calculated by Albritton (personal communication) using RKR potentials. These are listed in Table 6 for bands with $q_{vv'}$ greater than $1.E-6$. Albritton has also produced values for the weaker bands X0-A19, X0-A20, X0-A21, X0-A22, and X0-A23, but he assigns errors of a factor of 10. The accuracy of the Frank-Condon factors generally deteriorates as the values become small. All bands not listed in Table 6 were considered too weak to be significant and were ignored. Similar Franck-Condon factors have recently been computed by Shimauchi (1976).

The electronic f value is defined to be

$$f_{vJ, v'J'}^{el} = \frac{8\pi m c \Delta E}{3h e^2} \frac{R_e^2}{2S + 1} = 3.0376E-6 \Delta E \frac{R_e^2}{2S + 1},$$

where S is the spin, ΔE is the energy level difference in cm^{-1} , and R_e is the electronic transition moment in a_0 . For our singlet transition, S is 0. In this work we make the approximation that R_e and ΔE are independent of J (rotationless). Values of ΔE labeled as FREQVV are given for each band in Table 6.

The first factor in the expression for the f value accounts for the Λ -doubling of the energy levels of states for which Λ is greater than 0. As the c and d levels are of opposite parity, transitions are possible from a given level to only one of the states. The denominator reduces to unity for the Fourth Positive system because $\Lambda = 0$ for the $X^1\Sigma^+$ state. The parity factor results in a selection rule that limits the Q branch to $X-A_d$ transitions and the P and R branches to $X-A_c$ transitions (cf. Herzberg, 1950, fig. 119a).

Ideally, laboratory measurements or theoretical calculations should be available for each line. Such measurements have been made for a few lines by Rich (1966, 1968) using a shock tube, and by Pilling, Bass, and Braun (1971) using an absorption cell. Assuming that the electronic f value is independent of rotation and that perturbations are negligible, the band f value, $f_{VV'} = f_{VV'}^{el} q_{VV'}$, can be derived by dividing out the Honl-London factor from gf for an individual line, $f_{JJ'} = gf/S_{JJ'}$. Alternatively, $f_{VV'}$ can be measured directly for a whole band, as has been done for a number of bands by Meyer and Lassetre (1971) using electron impact and by Lassetre and Skerbele (1971) using inelastic to elastic scattering. Mumma, Stoner, and Zipf (1971) have determined relative values for $f_{VV'}$ using the branching ratio method.

At a still higher level of integration, the lifetime of a vibrational level can be measured. Three sets of lifetime measurements, by Imhof and Read (1971) using inelastic electron-photon coincidence, by Wells and Isler (1970) using level crossing, and by Hesser (1968) using phase shift, agree within 10%, while a fourth, by Chervenak and Anderson (1971) using delayed coincidence, is 50% longer and probably suffers from cascades.

We have adopted the procedure used by Mumma et al. to estimate f values for all the bands. They found that if the relative transition moments for the measured bands were plotted against r -centroid, they could be fitted by a line of slope -0.60 . Using that slope they summed the relative f values for all the bands from the A2 level and determined a normalization constant to bring agreement with the accurate measured lifetimes for that level. Their final expression is

$$R_e = 1.9 (1.00 - 0.60 \bar{r}) \quad .$$

Here we assume that R_e is constant outside their range of measurement, $1.07 \leq \bar{r} \leq 1.36$, as their expression goes negative for large \bar{r} . The values of R_e , f^{el} , and Albritton's r -centroids are listed in Table 6.

Considering all the factors, it is difficult to estimate errors for the final gf values. We guess 50% for strong bands with r -centroids in the Mumma et al. range of measurement. The weakest bands may be off by orders of magnitude.

5. LINE LIST

We have computed the wavelengths and gf values for 160,359 lines of the Fourth Positive system that have Frank-Condon factors listed in Table 6. In Table 7 we list only the 57,570 lines between observed energy levels that can be used for line identification, with the less accurate Gero data indicated by negative wavelengths. For each line we list the wavelength in nm, $\log gf$, v , v' , the branch, and J . Wavelengths greater than 200 nm are given for air (Edlén, 1953). There was not space to list the energy levels for each line, but they can be found in Tables 1 and 4. Data for all the lines, including lower and upper energy level, are available on magnetic tape from the author.

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MAGNETIC TAPE LISTING

Data for 160,359 lines of the Fourth Positive system are available on magnetic tape, including the wavelength, log gf, lower and upper energy, lower and upper J, and lower and upper v for each line. The tape format is currently CDC 60-bit binary words at 800-bpi 7-track. We are willing to discuss other formats. To obtain a copy, send a 2400-ft tape to

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Table 1. Energy levels of the $X^1\Sigma^+$ state computed from the constants of Mantz, Maillard, Roh, and Rao (1975). Levels preceded by a minus sign are uncertain.

J	X 0	X 1	X 2	X 3	X 4	X 5	X 6	X 7	X 8	X 9
0	.000	-2143.271	4260.063	6350.439	8414.470	10452.223	12463.769	14449.182	16408.536	18341.906
1	3.845	2147.081	4263.838	6354.180	8418.175	10455.893	12467.404	14452.782	16412.101	18345.436
2	11.535	2154.701	4271.387	6361.659	8425.585	10463.233	12474.674	14459.982	16419.231	18352.496
3	23.069	2166.131	4282.712	6372.879	8436.699	10474.242	12485.579	14470.782	16429.926	18363.086
4	38.448	2181.369	4297.811	6387.837	8451.518	10488.921	12500.118	14485.181	16444.184	18377.205
5	57.670	2200.417	4316.683	6406.535	8470.040	10507.268	12518.290	14503.178	16462.007	18394.852
6	80.735	2223.272	4339.328	6428.970	8492.265	10529.283	12540.095	14524.773	16483.392	18416.028
7	107.642	2249.934	4365.745	6455.142	8518.192	10554.965	12565.532	14549.965	16508.339	18440.730
8	138.390	2280.402	4395.933	6485.049	8547.820	10584.313	12594.600	14578.753	16536.848	18468.959
9	172.978	2314.674	4429.890	6518.692	8581.147	10617.326	12627.298	14611.136	16568.916	18500.712
10	211.404	2352.750	4467.616	6556.068	8618.173	10654.002	12663.624	14647.113	16604.542	18535.988
11	253.667	2394.628	4509.109	6597.176	8658.896	10694.340	12703.577	14686.681	16643.726	18574.787
12	299.766	2440.306	4554.367	6642.014	8703.315	10738.338	12747.156	14729.840	16686.464	18617.106
13	349.698	2489.783	4603.389	6690.581	8751.427	10785.995	12794.358	14776.587	16732.757	18662.944
14	403.461	2543.057	4656.173	6742.875	8803.230	10837.309	12845.181	14826.921	16782.601	18712.298
15	461.054	2600.125	4712.716	6798.893	8858.723	10892.277	12899.625	14880.839	16835.995	18765.168
16	522.475	2660.986	4773.016	6858.633	8917.904	10950.898	12957.685	14938.340	16892.936	18821.549
17	587.721	2725.636	4837.072	6922.094	8980.769	11013.168	13019.361	14999.421	16953.422	18881.441
18	656.789	2794.075	4904.880	6989.272	9047.318	11079.086	13084.650	15064.080	17017.451	18944.840
19	729.677	2866.298	4976.438	7060.165	9117.546	11148.650	13153.548	15132.313	17085.020	19011.744
20	806.383	2942.303	5051.743	7134.770	9191.451	11221.855	13226.054	15204.119	17156.126	19082.151
21	886.902	3022.087	5130.793	7213.085	9269.030	11298.700	13302.163	15279.494	17230.767	19156.056
22	971.233	3105.648	5213.583	7295.105	9350.281	11379.180	13381.874	15358.435	17308.938	19233.458
23	1059.372	3192.987	5300.112	7380.829	9435.199	11463.294	13465.183	15440.939	17390.637	19314.353
24	1151.315	3284.085	5390.375	7470.251	9523.782	11551.037	13552.086	15527.003	17475.851	19398.737
25	1247.059	3378.954	5484.369	7563.370	9616.026	11642.406	13642.580	15616.622	17564.606	19486.608
26	1346.601	3477.585	5582.090	7660.182	9711.928	11737.397	13736.662	15709.794	17656.868	19577.960
27	1449.936	3579.975	5683.535	7760.682	9811.483	11836.008	13834.327	15806.515	17752.644	19672.792
28	1557.061	3686.120	5788.700	7864.866	9914.687	11938.232	13935.572	15906.780	17851.929	19771.097
29	1667.971	3796.015	5897.580	7972.731	10021.537	12044.067	14040.392	16010.585	17954.720	19872.874
30	1782.662	3909.656	6010.171	8084.272	10132.028	12153.509	14148.784	16117.927	18061.012	19978.116
31	1901.131	4027.040	6126.469	8199.486	10246.157	12266.552	14260.747	16228.800	18170.801	20086.821
32	2023.372	4148.160	6246.470	8318.366	10363.917	12383.192	14376.263	16343.201	18284.083	20198.982
33	2149.380	4273.013	6370.168	8440.909	10485.305	12503.425	14495.341	16461.125	18400.851	20314.597
34	2279.151	4401.594	6497.559	8567.110	10610.316	12627.246	14617.972	16582.566	18521.103	20433.659
35	2412.680	4533.898	6628.638	8696.964	10738.945	12754.650	14744.151	16707.520	18644.832	20556.163
36	2549.962	4669.920	6763.399	8830.465	10871.186	12885.632	14873.873	16835.982	18772.034	20682.106
37	2690.991	4809.654	6901.838	8967.609	11007.035	13020.186	15007.132	16967.946	18902.704	20811.481
38	2835.763	4953.096	7043.949	9108.390	11146.486	13158.307	15143.923	17103.407	19036.835	20944.282
39	2984.271	5100.238	7189.727	9252.803	11289.534	13299.989	15284.240	17242.360	19174.423	21080.506
40	3136.510	5251.077	7339.166	9400.841	11436.172	13445.227	15428.079	17384.799	19315.462	21220.145
41	3292.474	5405.606	7492.259	9552.500	11586.395	13594.016	15575.432	17530.717	19459.945	21363.193
42	3452.157	5563.819	7649.002	9707.772	11740.198	13746.348	15726.294	17680.109	19607.868	21509.646
43	3615.552	5725.709	7809.387	9866.653	11897.573	13902.218	15880.659	17832.969	19759.223	21659.496
44	3782.655	5891.272	7973.410	10029.135	12058.515	14061.620	16038.521	17989.291	19914.005	21812.738
45	3953.458	6060.500	8141.062	10195.212	12223.017	14224.547	16199.873	18149.068	20072.206	21969.365
46	4127.955	6233.386	8312.338	10364.878	12391.073	14390.992	16364.708	18312.293	20233.822	22129.370
47	4306.138	6409.924	8487.231	10538.126	12562.675	14560.950	16533.020	18478.960	20398.844	22292.747
48	4488.002	6590.108	8665.735	10714.949	12737.818	14734.412	16704.803	18649.062	20567.266	22459.489
49	4673.539	6773.930	8847.841	10895.340	12916.494	14911.373	16880.048	18822.592	20739.080	22629.589
50	4862.742	6961.383	9033.544	11079.292	13098.696	15091.824	17058.749	18999.543	20914.281	22803.039
51	5055.604	7152.459	9222.835	11266.798	13284.417	15275.760	17240.899	19179.908	21092.860	22979.833
52	5252.118	7347.153	9415.708	11457.851	13473.649	15463.171	17426.490	19363.678	21274.811	23159.963
53	5452.275	7545.455	9612.155	11652.442	13666.384	15654.051	17615.515	19550.848	21460.124	23343.421
54	5656.069	7747.358	9812.168	11850.564	13862.616	15848.393	17807.966	19741.408	21648.794	23530.200
55	5863.491	7952.855	10015.739	12052.210	14062.336	16046.187	18003.834	19935.351	21840.811	23720.292
56	6074.533	8161.937	10222.861	12257.371	14265.537	16247.427	18203.113	20132.669	22036.169	23913.689
57	6289.188	8374.596	10433.524	12466.039	14472.209	16452.104	18405.794	20333.354	22234.858	24110.382
58	6507.447	8590.825	10647.722	12678.207	14682.346	16660.209	18611.869	20537.398	22436.871	24310.364
59	6729.301	8810.614	10865.446	12893.864	14895.938	16871.735	18821.329	20744.792	22642.199	24513.626
60	6954.743	9033.955	11086.686	13113.004	15112.976	17086.673	19034.166	20955.527	22850.833	24720.159
61	7183.764	9260.840	11311.435	13335.617	15333.454	17305.014	19250.370	21169.596	23062.765	24929.955
62	7416.353	9491.259	11539.684	13561.695	15557.360	17526.749	19469.935	21386.989	23277.986	25143.005
63	7652.504	9725.204	11771.423	13791.228	15784.687	17751.870	19692.849	21607.696	23496.488	25359.299
64	7892.207	9962.666	12006.644	14024.208	16015.426	17980.367	19919.104	21831.710	23718.260	25578.829
65	8135.451	10203.635	12245.337	14260.625	16249.566	18212.231	20148.692	22059.021	23943.293	25801.586

Table 1. (Cont.)

J	X 0	X 1	X 2	X 3	X 4	X 5	X 6	X 7	X 8	X 9
66	8382.229	10448.102	12487.493	14500.469	16487.099	18447.453	20381.601	22289.618	24171.579	26027.559
67	8632.531	10696.058	12733.103	14743.733	16728.016	18686.023	20617.824	22523.494	24403.107	26256.741
68	8886.347	10947.492	12982.156	14990.404	16972.306	18927.931	20857.350	22760.638	24637.869	26489.119
69	9143.666	11202.396	13234.643	15240.475	17219.960	19173.168	21100.170	23001.040	24875.853	26724.686
70	9404.480	11460.759	13490.555	15493.935	17470.968	19421.723	21346.273	23244.690	25117.051	26963.431
71	9668.778	11722.571	13749.880	15750.774	17725.319	19673.587	21595.649	23491.579	25361.451	27205.343
72	9936.551	11987.822	14012.610	16010.981	17983.004	19928.750	21848.289	23741.696	25609.045	27450.413
73	10207.787	12256.501	14278.732	16274.547	18244.013	20187.200	22104.182	23995.030	25859.820	27698.630
74	10482.476	12528.599	14548.238	16541.460	18508.334	20448.928	22363.316	24251.571	26113.768	27949.983
75	10760.608	12804.105	14821.117	16811.711	18775.957	20713.923	22625.683	24511.309	26370.877	28204.463
76	11042.172	13083.007	15097.357	17085.289	19046.871	20982.175	22891.270	24774.233	26631.136	28462.058
77	11327.157	13365.295	15376.948	17362.182	19321.066	21253.671	23160.068	25040.331	26894.535	28722.756
78	11615.552	13650.958	15659.878	17642.379	19598.530	21528.401	23432.064	25309.593	27161.062	28986.548
79	11907.346	13939.985	15946.137	17925.871	19879.253	21806.355	23707.248	25582.007	27430.706	29253.422
80	12202.528	14232.364	16235.714	18212.644	20163.222	22087.520	23985.609	25857.562	27703.456	29523.366
81	12501.086	14528.085	16528.597	18502.688	20450.427	22371.886	24267.134	26136.247	27979.300	29796.369
82	12803.009	14827.135	16824.774	18795.991	20740.856	22659.440	24551.813	26418.050	28258.227	30072.419
83	13108.285	15129.503	17124.233	19092.542	21034.497	22950.171	24839.633	26702.960	28540.224	30351.505
84	13416.902	15435.178	17426.964	19392.328	21331.339	23244.067	25130.584	26990.963	28825.281	30633.614
85	13728.849	15744.146	17732.953	19695.338	21631.369	23541.116	25424.651	27282.049	29113.385	30918.735
86	14044.113	16056.397	18042.190	20001.560	21934.575	23841.306	25721.825	27576.206	29404.523	31206.855
87	14362.682	16371.917	18354.661	20310.981	22240.945	24144.625	26022.092	27873.420	29698.684	31497.963
88	14684.544	16690.695	18670.354	20623.588	22550.467	24451.060	26325.439	28173.679	29995.855	31792.045
89	15009.686	17012.718	18989.257	20939.371	22863.128	24760.599	26631.855	28476.972	30296.024	32089.088
90	15338.096	17337.973	19311.357	21258.315	23178.915	25073.228	26941.327	28783.285	30599.177	32389.082
91	15669.761	17666.449	19636.642	21580.408	23497.816	25388.937	27253.842	29092.605	30905.302	32692.011
92	16004.668	17998.131	19965.098	21905.638	23819.818	25707.710	27569.386	29404.919	31214.386	32997.864
93	16342.804	18333.007	20296.713	22233.990	24144.908	26029.536	27887.947	29720.215	31526.416	33306.627
94	16684.157	18671.064	20631.473	22565.453	24473.072	26354.401	28209.512	30038.479	31841.378	33618.287
95	17028.712	19012.288	20969.366	22900.013	24804.298	26682.292	28534.067	30359.698	32159.260	33932.830
96	17376.457	19356.666	21310.377	23237.655	25138.571	27013.195	28861.600	30683.858	32480.047	34250.244
97	17727.377	19704.185	21654.493	23578.368	25475.879	27347.097	29192.095	31010.946	32803.726	34570.513
98	18081.460	20054.831	22001.701	23922.136	25816.207	27683.984	29525.539	31340.947	33130.284	34893.626
99	18438.692	20408.590	22351.986	24268.947	26159.542	28023.842	29861.920	31673.849	33459.705	35219.567
100	18799.058	20765.449	22705.336	24618.786	26505.870	28366.658	30201.222	32009.636	33791.977	35548.322
101	-19162.546	-21125.393	-23061.735	-24971.640	-26855.177	-28712.416	-30543.431	-32348.296	-34127.085	-35879.878
102	-19529.139	-21488.408	-23421.170	-25327.494	-27207.448	-29061.104	-30888.534	-32689.812	-34465.015	-36214.219
103	-19898.826	-21854.480	-23783.626	-25686.333	-27562.669	-29412.706	-31236.515	-33034.172	-34805.752	-36551.333
104	-20271.590	-22223.594	-24149.089	-26048.144	-27920.826	-29767.208	-31587.361	-33381.360	-35149.282	-36891.203
105	-20647.417	-22595.736	-24517.545	-26412.911	-28281.904	-30124.595	-31941.057	-33731.363	-35495.590	-37233.815
106	-21026.294	-22970.892	-24888.978	-26780.621	-28645.889	-30484.853	-32297.587	-34084.164	-35844.661	-37579.155
107	-21408.205	-23349.046	-25263.375	-27151.258	-29012.765	-30847.967	-32656.937	-34439.750	-36196.480	-37927.207
108	-21793.134	-23730.184	-25640.719	-27524.807	-29382.518	-31213.922	-33019.093	-34798.104	-36551.033	-38277.956
109	-22181.068	-24114.290	-26020.996	-27901.253	-29755.132	-31582.702	-33384.038	-35159.213	-36908.303	-38631.387
110	-22571.992	-24501.350	-26404.191	-28280.582	-30130.592	-31954.293	-33751.757	-35523.060	-37268.276	-38987.485
111	-22965.889	-24891.348	-26790.289	-28662.777	-30508.883	-32328.679	-34122.236	-35889.630	-37630.937	-39346.234
112	-23362.744	-25284.269	-27179.273	-29047.823	-30889.990	-32705.844	-34495.459	-36258.908	-37996.268	-39707.618
113	-23762.543	-25680.097	-27571.129	-29435.706	-31273.897	-33085.773	-34871.409	-36630.878	-38364.256	-40071.622
114	-24165.269	-26078.817	-27965.841	-29826.408	-31660.587	-33468.451	-35250.071	-37005.523	-38734.884	-40438.229
115	-24570.906	-26480.413	-28363.393	-30219.914	-32050.046	-33853.860	-35631.430	-37382.829	-39108.135	-40807.425
116	-24979.440	-26884.869	-28763.769	-30616.209	-32442.257	-34241.986	-36015.469	-37762.779	-39483.994	-41179.192
117	-25390.853	-27292.169	-29166.953	-31015.276	-32837.205	-34632.812	-36402.172	-38145.357	-39862.445	-41553.514
118	-25805.131	-27702.297	-29572.930	-31417.098	-33234.872	-35026.322	-36791.522	-38530.546	-40243.472	-41930.376
119	-26222.255	-28115.236	-29981.682	-31821.661	-33635.243	-35422.500	-37183.504	-38918.331	-40627.057	-42309.760
120	-26642.211	-28530.971	-30393.193	-32228.947	-34038.301	-35821.328	-37578.101	-39308.694	-41013.184	-42691.649
121	-27064.982	-28949.484	-30807.447	-32638.939	-34444.030	-36222.791	-37975.295	-39701.618	-41401.836	-43076.028
122	-27490.551	-29370.760	-31224.428	-33051.622	-34852.413	-36626.871	-38375.072	-40097.088	-41792.998	-43462.878
123	-27918.907	-29794.782	-31644.118	-33466.978	-35263.432	-37033.553	-38777.412	-40495.086	-42186.650	-43852.184
124	-28350.018	-30221.532	-32066.500	-33884.990	-35677.072	-37442.818	-39182.300	-40895.595	-42582.778	-44243.927
125	-28783.881	-30650.994	-32491.558	-34305.642	-36093.315	-37854.649	-39589.718	-41298.597	-42981.362	-44638.092
126	-29220.476	-31083.151	-32919.275	-34728.916	-36512.144	-38269.031	-39999.650	-41704.076	-43382.386	-45034.659
127	-29659.784	-31517.985	-33349.633	-35154.795	-36933.541	-38685.944	-40412.077	-42112.014	-43785.833	-45433.612
128	-30101.788	-31955.480	-33782.615	-35583.262	-37357.490	-39105.372	-40826.982	-42522.394	-44191.684	-45834.933
129	-30546.472	-32395.618	-34218.203	-36014.298	-37783.972	-39527.298	-41244.347	-42935.197	-44599.923	-46238.604
130	-30993.818	-32838.381	-34656.381	-36447.888	-38212.971	-39951.702	-41664.156	-43350.406	-45010.531	-46644.608
131	-31443.607	-33283.751	-35097.130	-36884.012	-38644.467	-40378.569	-42086.389	-43768.004	-45423.490	-47052.926

Table 1. (Cont.)

J	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19
0	20249.370	22131.007	23986.897	25817.122	27621.764	29400.907	31154.635	32883.033	34586.185	36264.176
1	20252.865	22134.467	23990.322	25820.512	27625.119	29404.228	31157.921	32886.283	34589.400	36267.357
2	20259.855	22141.387	23997.173	25827.293	27631.830	29410.868	31164.491	32892.784	34595.831	36273.718
3	20270.340	22151.767	24007.448	25837.463	27641.895	29420.829	31174.347	32902.535	34605.477	36283.259
4	20284.319	22165.606	24021.147	25851.022	27655.315	29434.108	31187.487	32915.535	34618.338	36295.980
5	20301.792	22182.904	24038.270	25867.970	27672.088	29450.707	31203.911	32931.785	34634.413	36311.881
6	20322.757	22203.660	24058.816	25888.307	27692.215	29470.624	31223.619	32951.283	34653.701	36330.959
7	20347.215	22227.873	24082.784	25912.030	27715.694	29493.858	31246.608	32974.028	34676.202	36353.216
8	20375.164	22255.542	24110.173	25939.140	27742.524	29520.409	31272.879	33000.019	34701.914	36378.649
9	20406.602	22286.665	24140.982	25969.634	27772.704	29550.274	31302.430	33029.256	34730.837	36407.257
10	20441.529	22321.243	24175.210	26003.512	27806.232	29583.454	31335.260	33061.737	34762.968	36439.039
11	20479.943	22359.272	24212.855	26040.773	27843.108	29619.945	31371.367	33097.459	34798.307	36473.994
12	20521.842	22400.752	24253.915	26081.413	27883.330	29659.747	31410.750	33136.423	34836.851	36512.119
13	20567.226	22445.680	24298.389	26125.433	27926.895	29702.858	31453.407	33178.626	34878.600	36553.414
14	20616.090	22494.056	24346.275	26172.829	27973.802	29749.276	31499.335	33224.065	34923.551	36597.876
15	20668.435	22545.876	24397.570	26223.601	28024.049	29798.998	31548.534	33272.740	34971.701	36645.503
16	20724.257	22601.138	24452.273	26277.744	28077.633	29852.024	31601.000	33324.647	35023.050	36696.293
17	20783.554	22659.841	24510.382	26335.258	28134.553	29908.349	31656.732	33379.785	35077.594	36750.243
18	20846.324	22721.981	24571.893	26396.140	28194.805	29967.973	31715.727	33438.151	35135.331	36807.352
19	20912.563	22787.556	24636.804	26460.387	28258.388	30030.892	31777.981	33499.742	35196.258	36867.615
20	20982.270	22856.564	24705.112	26527.996	28325.298	30097.102	31843.493	33564.555	35260.373	36931.032
21	21055.442	22929.001	24776.814	26598.964	28395.532	30166.603	31912.260	33632.588	35327.672	36997.598
22	21132.074	23004.864	24851.908	26673.288	28469.088	30239.389	31984.278	33703.837	35399.153	37067.310
23	21212.164	23084.150	24930.390	26750.966	28545.961	30315.459	32059.544	33778.300	35471.812	37140.166
24	21295.709	23166.855	25012.256	26831.993	28626.149	30394.808	32138.054	33855.972	35548.646	37216.161
25	21382.705	23252.977	25097.503	26916.366	28709.649	30477.434	32219.806	33936.850	35628.651	37295.293
26	21473.148	23342.510	25186.128	27004.082	28796.455	30563.332	32304.795	34020.931	35711.823	37377.557
27	21567.035	23435.453	25278.126	27095.136	28886.566	30652.498	32393.018	34108.210	35798.159	37462.951
28	21664.361	23531.800	25373.494	27189.525	28979.975	30744.929	32484.471	34198.684	35887.655	37551.468
29	21765.123	23631.548	25472.227	27287.244	29076.681	30840.621	32579.149	34292.349	35980.307	37643.107
30	21869.316	23734.691	25574.322	27388.290	29176.678	30939.569	32677.048	34389.200	36076.109	37737.862
31	21976.936	23841.227	25679.773	27492.657	29279.961	31041.769	32778.164	34489.233	36175.059	37835.728
32	22087.978	23951.150	25788.577	27600.342	29386.527	31147.216	32882.493	34592.443	36277.151	37936.702
33	22202.438	24064.455	25900.728	27711.339	29496.370	31255.905	32990.029	34698.826	36382.381	38040.779
34	22320.311	24181.138	26016.222	27825.644	29609.486	31367.833	33100.768	34808.376	36490.743	38147.953
35	22441.591	24301.194	26135.054	27943.252	29725.870	31482.993	33214.704	34921.089	36602.233	38258.220
36	22566.274	24424.618	26257.218	28064.157	29845.516	31601.380	33331.833	35036.960	36716.845	38371.574
37	22694.354	24551.404	26382.710	28188.354	29968.420	31722.990	33452.149	35155.982	36834.575	38488.011
38	22825.827	24681.547	26511.524	28315.839	30094.575	31847.817	33575.647	35278.152	36955.416	38607.352
39	22960.685	24815.041	26643.653	28446.605	30223.977	31975.855	33702.322	35403.463	37079.364	38730.109
40	23098.924	24951.881	26779.094	28580.646	30356.619	32107.098	33832.166	35531.909	37206.412	38855.759
41	23240.539	25092.060	26917.839	28717.957	30492.496	32241.541	33965.176	35663.485	37336.554	38984.468
42	23385.522	25235.574	27059.883	28858.532	30631.602	32379.178	34101.344	35798.184	37469.785	39116.231
43	23533.867	25382.415	27205.220	29002.364	30773.930	32520.002	34240.664	35936.001	37606.098	39251.041
44	23685.569	25532.577	27353.843	29149.447	30919.474	32664.007	34383.130	36076.929	37745.488	39388.892
45	23840.621	25686.055	27505.745	29299.776	31068.228	32811.187	34528.736	36220.961	37887.946	39529.778
46	23999.017	25842.840	27660.921	29453.342	31220.185	32961.535	34677.475	36368.091	38033.468	39673.691
47	24160.749	26002.927	27819.364	29610.140	31375.339	33115.044	34829.340	36518.312	38182.046	39820.625
48	24325.811	26166.309	27981.066	29770.163	31533.682	33271.708	34984.325	36671.618	38333.672	39970.573
49	24494.195	26332.979	28146.021	29933.403	31695.208	33431.519	35142.422	36828.001	38488.341	40123.528
50	24665.896	26502.929	28314.221	30099.853	31859.908	33594.470	35303.624	36987.453	38646.045	40279.483
51	24840.904	26676.153	28485.660	30269.507	32027.777	33760.554	35467.923	37149.969	38806.776	40438.431
52	25019.214	26852.642	28660.329	30442.356	32198.806	33929.764	35635.313	37315.539	38970.527	40600.363
53	25200.817	27032.390	28838.221	30618.393	32372.989	34102.091	35805.786	37484.157	39137.291	40765.272
54	25385.705	27215.388	29019.329	30797.611	32550.316	34277.529	35979.333	37655.815	39307.059	40933.151
55	25573.872	27401.629	29203.644	30980.001	32730.781	34456.068	36155.948	37830.505	39479.824	41103.992
56	25765.308	27591.104	29391.159	31165.555	32914.374	34637.702	36335.621	38008.218	39655.578	41277.786
57	25960.005	27783.806	29581.865	31354.265	33101.089	34822.421	36518.345	38188.947	39834.312	41454.525
58	26157.956	27979.726	29775.754	31546.124	33290.917	35010.218	36704.111	38372.683	40016.017	41634.200
59	26359.152	28178.855	29972.818	31741.121	33483.848	35201.084	36892.912	38559.417	40200.687	41816.804
60	26563.584	28381.186	30173.047	31939.249	33679.876	35395.010	37084.737	38749.142	40388.311	42002.328
61	26771.243	28586.709	30376.434	32140.500	33878.990	35591.988	37279.579	38941.848	40578.881	42190.762
62	26982.121	28795.416	30582.969	32344.863	34081.182	35792.009	37477.428	39137.526	40772.388	42382.098
63	27196.209	29007.297	30792.643	32552.331	34286.443	35995.063	37678.276	39336.168	40968.823	42576.327
64	27413.497	29222.343	31005.448	32762.894	34494.764	36201.142	37882.113	39537.763	41168.176	42773.439
65	27633.977	29440.546	31221.373	32976.542	34706.135	36410.236	38088.930	39742.303	41370.440	42973.426

Table 1. (Cont.)

J	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19
66	27857.638	29661.895	31440.410	33193.266	34920.547	36622.335	38298.717	39949.778	41575.602	43176.276
67	28084.472	29886.381	31662.548	33413.057	35137.990	36837.431	38511.465	40160.178	41783.655	43381.982
68	28314.468	30113.994	31887.779	33635.905	35358.454	37055.513	38727.164	40373.494	41994.589	43590.533
69	28547.617	30344.725	32116.092	33861.799	35581.931	37276.571	38945.804	40589.716	42208.392	43801.918
70	28783.908	30578.563	32347.476	34090.731	35808.409	37500.595	39167.375	40808.834	42425.056	44016.129
71	29023.337	30815.498	32581.923	34322.689	36037.878	37727.576	39391.867	41030.836	42644.570	44233.154
72	29265.878	31055.521	32819.422	34557.663	36270.328	37957.502	39619.269	41255.714	42866.924	44452.983
73	29511.536	31298.620	33059.962	34795.644	36505.749	38190.363	39849.571	41483.456	43092.106	44675.606
74	29760.296	31544.785	33303.532	35036.619	36744.130	38426.150	40082.762	41714.052	43320.107	44901.012
75	30012.146	31794.005	33550.122	35280.580	36985.461	38664.850	40318.831	41947.492	43550.916	45129.190
76	30267.076	32046.270	33799.722	35527.514	37229.729	38906.452	40557.768	42183.763	43784.521	45360.130
77	30525.074	32301.568	34052.320	35777.411	37476.925	39150.947	40799.562	42422.855	44020.912	45593.819
78	30786.131	32559.889	34307.904	36030.259	37727.037	39398.323	41044.201	42664.757	44260.077	45830.247
79	31050.233	32821.221	34566.465	36286.048	37980.054	39648.568	41291.674	42909.458	44502.005	46069.403
80	31317.371	33085.552	34827.989	36544.766	38235.965	39901.671	41541.969	43156.945	44746.685	46311.274
81	31587.533	33352.872	35092.467	36806.401	38494.757	40157.620	41795.075	43407.208	44994.104	46555.849
82	31860.706	33623.168	35359.885	37070.941	38756.419	40416.403	42050.980	43660.234	45244.251	46803.117
83	32136.879	33896.428	35630.233	37338.375	39020.939	40678.010	42309.672	43916.011	45497.114	47053.065
84	32416.041	34172.642	35903.497	37608.691	39288.306	40942.427	42571.139	44174.529	45752.681	47305.682
85	32698.179	34451.796	36179.667	37881.876	39558.507	41209.643	42835.369	44435.773	46010.939	47560.954
86	32983.260	34733.878	36458.730	38157.919	39831.529	41479.644	43102.350	44699.732	46271.877	47818.870
87	33271.333	35018.877	36740.673	38436.807	40107.361	41752.420	43372.069	44966.394	46535.481	48079.417
88	33562.326	35306.778	37025.485	38718.527	40385.989	42027.956	43644.513	45235.745	46801.740	48342.582
89	33856.244	35597.571	37313.151	39003.067	40667.402	42306.241	43919.670	45507.774	47070.639	48608.352
90	34153.076	35891.242	37603.660	39290.414	40951.586	42587.262	44197.527	45782.466	47342.167	48876.716
91	34452.810	36187.778	37896.999	39580.554	41238.528	42871.005	44478.070	46059.810	47616.311	49147.658
92	34755.430	36487.167	38193.154	39873.476	41528.215	43157.457	44761.287	46339.792	47893.056	49421.167
93	35060.926	36789.394	38492.113	40169.165	41820.634	43446.606	45047.165	46622.397	48172.390	49697.228
94	35369.283	37094.447	38793.861	40467.608	42115.772	43738.437	45335.689	46907.614	48454.299	49975.829
95	35680.487	37402.312	39098.386	40768.792	42413.614	44032.937	45626.847	47195.429	48738.770	50256.955
96	35994.526	37712.976	39405.674	41072.703	42714.148	44330.093	45920.624	47485.827	49025.788	50540.594
97	36311.386	38026.425	39715.711	41379.328	43017.359	44629.891	46217.007	47778.795	49315.340	50826.729
98	36631.052	38342.644	40028.483	41688.652	43323.234	44932.316	46515.982	48074.318	49607.412	51115.349
99	36953.512	38661.621	40343.976	42000.661	43631.758	45237.354	46817.534	48372.384	49901.990	51406.438
100	37278.750	38983.341	40662.177	42315.341	43942.918	45544.992	47121.650	48672.976	50199.058	51699.982
101	-37606.752	-39307.789	-40983.070	-42632.679	-44256.699	-45855.215	-47428.314	-48976.081	-50496.604	-51995.967
102	-37937.505	-39634.952	-41306.642	-42952.658	-44573.086	-46168.008	-47737.513	-49281.685	-50800.611	-52294.378
103	-38270.993	-39964.814	-41632.877	-43275.266	-44892.064	-46483.358	-48049.231	-49589.772	-51105.066	-52595.200
104	-38607.203	-40297.362	-41961.762	-43600.487	-45213.620	-46801.248	-48363.455	-49900.328	-51411.954	-52898.418
105	-38946.118	-40632.579	-42293.281	-43928.306	-45537.738	-47121.664	-48680.168	-50213.337	-51721.258	-53204.018
106	-39287.725	-40970.453	-42627.419	-44258.708	-45864.403	-47444.591	-48999.356	-50528.786	-52032.966	-53511.983
107	-39632.008	-41310.966	-42964.162	-44591.678	-46193.601	-47770.014	-49321.004	-50846.657	-52347.060	-53822.299
108	-39978.953	-41654.105	-43303.493	-44927.202	-46525.315	-48097.917	-49645.096	-51166.936	-52663.525	-54134.950
109	-40328.543	-41999.853	-43645.398	-45265.263	-46859.530	-48428.286	-49971.616	-51489.608	-52982.347	-54449.921
110	-40680.764	-42348.196	-43989.862	-45609.845	-47196.231	-48761.104	-50300.550	-51814.656	-53303.509	-54767.195
111	-41035.600	-42699.118	-44336.868	-45948.935	-47535.402	-49096.356	-50631.881	-52142.066	-53626.996	-55086.758
112	-41393.036	-43052.603	-44686.401	-46294.515	-47877.027	-49434.025	-50965.594	-52471.820	-53952.790	-55408.592
113	-41753.054	-43408.635	-45038.445	-46642.569	-48221.091	-49774.097	-51301.672	-52803.903	-54280.877	-55732.682
114	-42115.641	-43767.198	-45392.984	-46993.082	-48567.577	-50116.554	-51640.099	-53138.299	-54611.241	-56059.011
115	-42480.778	-44128.277	-45750.002	-47346.038	-48916.469	-50461.380	-51980.859	-53474.991	-54943.863	-56387.563
116	-42848.452	-44491.854	-46109.482	-47701.419	-49267.750	-50808.560	-52323.935	-53813.963	-55278.729	-56718.322
117	-43218.644	-44857.914	-46471.409	-48059.211	-49621.405	-51158.076	-52669.312	-54155.198	-55615.822	-57051.270
118	-43591.338	-45226.441	-46835.765	-48419.395	-49977.416	-51509.912	-53016.971	-54498.679	-55955.124	-57386.391
119	-43966.519	-45597.417	-47202.534	-48781.956	-50335.767	-51864.052	-53366.897	-54844.391	-56296.618	-57723.668
120	-44344.169	-45970.825	-47571.700	-49146.877	-50696.440	-52220.477	-53719.073	-55192.314	-56640.289	-58063.084
121	-44724.272	-46346.650	-47943.245	-49514.140	-51059.420	-52579.172	-54073.480	-55542.433	-56986.118	-58404.621
122	-45106.810	-46724.873	-48317.152	-49883.728	-51424.689	-52940.118	-54430.103	-55894.731	-57334.088	-58748.262
123	-45491.766	-47105.479	-48693.404	-50255.626	-51792.229	-53303.299	-54788.923	-56249.188	-57684.181	-59093.989
124	-45879.124	-47488.449	-49071.984	-50629.814	-52162.023	-53668.698	-55149.924	-56605.789	-58036.381	-59441.786
125	-46268.866	-47873.766	-49452.874	-51006.275	-52534.054	-54036.295	-55513.087	-56964.516	-58390.669	-59791.633
126	-46660.974	-48261.412	-49836.057	-51384.993	-52908.303	-54406.075	-55878.395	-57325.350	-58747.027	-60143.514
127	-47055.431	-48651.371	-50221.516	-51765.948	-53284.754	-54778.019	-56245.830	-57688.274	-59105.438	-60497.409
128	-47452.219	-49043.624	-50609.231	-52149.124	-53663.388	-55152.109	-56615.374	-58053.269	-59465.883	-60853.302
129	-47851.321	-49438.154	-50999.186	-52534.503	-54044.188	-55528.327	-56987.008	-58420.318	-59828.344	-61211.173
130	-48252.718	-49834.942	-51391.363	-52922.065	-54427.134	-55906.655	-57360.715	-58789.402	-60192.802	-61571.004
131	-48656.392	-50233.970	-51785.743	-53311.794	-54812.209	-56287.074	-57736.476	-59160.502	-60559.240	-61932.777

Table 1. (Cont.)

J	X20	X21	X22	X23	X24	X25	X26	X27	X28	X29
0	37917.091	39545.013	41148.026	42726.211	44279.647	45808.412	47312.581	48792.226	50247.415	51678.213
1	37920.237	39548.124	41151.102	42729.252	44282.653	45811.383	47315.517	48795.127	50250.282	51681.045
2	37926.528	39554.346	41157.254	42735.334	44288.665	45817.326	47321.390	48800.931	50256.015	51686.709
3	37935.965	39563.678	41166.481	42744.457	44297.683	45826.239	47330.199	48809.635	50264.615	51695.205
4	37948.546	39576.120	41178.784	42756.620	44309.707	45838.123	47341.944	48821.240	50276.081	51706.531
5	37964.272	39591.671	41194.161	42771.822	44324.735	45852.977	47356.623	48835.746	50290.413	51720.688
6	37983.141	39610.331	41212.611	42790.063	44342.767	45870.800	47374.237	48853.151	50307.608	51737.675
7	38005.153	39632.099	41234.135	42811.343	44363.802	45891.591	47394.785	48873.454	50327.668	51757.491
8	38030.307	39656.973	41258.730	42835.659	44387.840	45915.350	47418.264	48896.655	50350.590	51780.135
9	38058.601	39684.953	41286.396	42863.011	44414.878	45942.074	47444.675	48922.752	50376.374	51805.605
10	38090.034	39716.037	41317.131	42893.397	44444.916	45971.763	47474.015	48951.744	50405.018	51833.901
11	38124.605	39750.224	41350.934	42926.817	44477.951	46004.416	47506.284	48983.630	50436.520	51865.020
12	38162.312	39787.512	41387.804	42963.267	44513.983	46040.029	47541.480	49018.407	50470.880	51898.962
13	38203.152	39827.899	41427.737	43002.748	44553.010	46078.603	47579.600	49056.075	50508.094	51935.724
14	38247.126	39871.384	41470.733	43045.255	44595.030	46120.134	47620.644	49096.630	50548.162	51975.304
15	38294.229	39917.964	41516.790	43090.788	44640.040	46164.621	47664.608	49140.072	50591.081	52017.701
16	38344.460	39967.437	41565.904	43139.345	44688.038	46212.062	47711.491	49186.397	50636.849	52062.911
17	38397.817	40020.400	41618.075	43190.922	44739.023	46262.454	47761.290	49235.604	50685.464	52110.934
18	38454.297	40076.252	41673.298	43245.518	44792.991	46315.794	47814.003	49287.689	50736.922	52161.765
19	38513.898	40135.189	41731.573	43303.129	44849.939	46372.080	47869.626	49342.651	50791.221	52215.403
20	38576.616	40197.209	41792.895	43363.753	44909.866	46431.309	47928.158	49400.486	50848.360	52271.844
21	38642.449	40262.309	41857.261	43427.388	44972.767	46493.478	47989.595	49461.191	50908.333	52331.086
22	38711.393	40330.485	41924.670	43494.028	45038.641	46558.585	48053.935	49524.763	50971.139	52393.126
23	38783.445	40401.735	41995.117	43563.673	45107.483	46626.624	48121.173	49591.200	51036.774	52457.959
24	38858.603	40476.054	42068.599	43636.317	45179.290	46697.595	48191.306	49660.496	51105.234	52525.584
25	38936.862	40553.440	42145.112	43711.958	45254.059	46771.491	48264.331	49732.650	51176.516	52595.995
26	39018.218	40633.889	42224.653	43790.592	45331.785	46848.311	48340.244	49807.656	51250.617	52669.189
27	39102.668	40717.396	42307.218	43872.215	45412.466	46928.050	48419.041	49885.512	51327.532	52745.164
28	39190.208	40803.959	42392.803	43956.822	45496.097	47010.704	48500.719	49966.214	51407.257	52823.913
29	39280.834	40893.572	42481.404	44044.411	45582.673	47096.269	48585.272	50049.756	51489.788	52905.434
30	39374.541	40986.731	42573.016	44134.976	45672.191	47184.740	48672.697	50136.135	51575.121	52989.721
31	39471.325	41081.933	42667.635	44228.513	45764.646	47276.114	48762.989	50225.346	51663.251	53076.771
32	39571.181	41180.671	42765.256	44325.017	45860.034	47370.385	48856.144	50317.384	51754.174	53166.579
33	39674.105	41282.442	42865.875	44424.484	45958.349	47467.548	48952.157	50412.246	51847.885	53259.139
34	39780.091	41387.242	42969.487	44526.909	46059.587	47567.600	49051.022	50509.925	51944.379	53354.448
35	39889.135	41495.063	43076.086	44632.286	46163.743	47670.534	49152.735	50610.418	52043.651	53452.499
36	40001.232	41605.902	43185.668	44740.611	46270.811	47776.346	49257.291	50713.717	52145.695	53553.288
37	40116.376	41719.754	43298.227	44851.878	46380.787	47885.030	49364.683	50819.820	52250.507	53656.810
38	40234.562	41836.612	43413.758	44966.082	46493.664	47996.581	49474.908	50928.718	52358.080	53763.058
39	40355.784	41956.471	43532.255	45083.217	46609.437	48110.992	49587.959	51040.408	52468.409	53872.027
40	40480.036	42079.326	43653.712	45203.277	46728.100	48228.259	49703.829	51154.883	52581.489	53983.711
41	40607.312	42205.170	43778.124	45326.257	46849.648	48348.375	49822.514	51272.137	52697.312	54098.104
42	40737.607	42333.997	43905.484	45452.150	46974.074	48471.335	49944.008	51392.164	52815.874	54215.201
43	40870.914	42465.801	44035.786	45580.949	47101.372	48597.131	50068.303	51514.959	52937.168	54334.994
44	41007.227	42600.577	44169.024	45712.650	47231.535	48725.758	50195.393	51640.513	53061.186	54457.478
45	41146.540	42738.316	44305.191	45847.244	47364.558	48857.209	50325.273	51768.822	53187.924	54582.645
46	41288.845	42879.013	44444.280	45984.727	47500.433	48991.477	50457.935	51899.877	53317.374	54710.490
47	41434.135	43022.661	44586.285	46125.089	47639.154	49128.556	50593.372	52033.673	53449.529	54841.004
48	41582.405	43169.253	44731.199	46268.326	47780.713	49268.438	50731.577	52170.202	53584.382	54974.182
49	41733.647	43318.781	44879.015	46414.429	47925.103	49411.117	50872.544	52309.458	53721.927	55110.015
50	41887.853	43471.239	45029.725	46563.391	48072.318	49556.584	51016.265	52451.432	53862.154	55248.498
51	42045.017	43626.620	45183.322	46719.205	48222.349	49704.833	51162.732	52596.117	54005.059	55389.621
52	42205.131	43784.915	45339.798	46869.863	48375.190	49855.856	51311.938	52743.506	54150.631	55533.377
53	42368.186	43946.116	45499.147	47027.358	48530.832	50009.646	51463.875	52893.592	54298.865	55679.760
54	42534.176	44110.217	45661.359	47187.682	48689.268	50166.194	51618.536	53046.365	54449.751	55828.760
55	42703.092	44277.209	45826.427	47350.827	48850.490	50325.492	51775.911	53201.818	54603.283	55980.369
56	42874.926	44447.085	45994.343	47516.784	49014.488	50487.533	51935.994	53359.944	54759.451	56134.581
57	43049.671	44619.834	46165.099	47685.546	49181.257	50652.308	52098.776	53520.733	54918.247	56291.365
58	43227.317	44795.451	46338.686	47857.104	49350.785	50819.808	52264.247	53684.176	55079.663	56450.774
59	43407.856	44973.925	46515.095	48031.449	49523.066	50990.025	52432.401	53850.266	55243.691	56612.738
60	43591.279	45155.248	46694.319	48208.573	49698.090	51162.950	52603.227	54018.994	55410.320	56777.270
61	43777.578	45339.411	46876.347	48388.466	49875.849	51338.574	52776.717	54190.351	55579.543	56944.360
62	43966.743	45526.406	47061.171	48571.120	50056.333	51516.889	52952.863	54364.327	55751.350	57113.998
63	44158.766	45716.223	47248.782	48756.526	50239.534	51697.884	53131.653	54540.913	55925.732	57286.177
64	44353.637	45908.853	47439.171	48944.674	50425.441	51881.552	53313.080	54720.100	56102.680	57460.885
65	44551.346	46104.286	47632.328	49135.555	50614.046	52067.881	53497.134	54901.879	56282.184	57638.114

Table 1. (Cont.)

J	X20	X21	X22	X23	X24	X25	X26	X27	X28	X29
66	44751.885	46302.513	47828.243	49329.159	50805.339	52256.862	53683.805	55086.239	56464.234	57817.855
67	44955.243	46503.524	48026.908	49525.476	50999.310	52448.487	53873.083	55273.171	56648.820	58000.096
68	45161.411	46707.310	48228.311	49724.497	51195.948	52642.744	54064.959	55462.665	56835.934	58184.828
69	45370.379	46913.859	48432.443	49926.211	51395.246	52839.624	54259.421	55654.711	57025.563	58372.041
70	45582.136	47123.163	48639.293	50130.609	51597.190	53039.116	54456.461	55849.299	57217.699	58561.725
71	45796.673	47335.211	48848.853	50337.680	51801.773	53241.210	54656.068	56046.418	57412.330	58753.869
72	46013.978	47549.992	49061.110	50547.413	52008.982	53445.896	54858.230	56246.057	57609.446	58948.463
73	46234.041	47767.496	49276.054	50759.798	52218.808	53653.163	55062.938	56448.206	57809.037	59145.495
74	46456.852	47987.712	49493.675	50974.824	52431.240	53863.000	55270.180	56652.854	58011.091	59344.955
75	46682.400	48210.629	49713.962	51192.481	52646.266	54075.395	55479.946	56859.990	58215.597	59546.832
76	46910.673	48436.236	49936.903	51412.756	52863.875	54290.339	55692.274	57069.603	58422.545	59751.114
77	47141.661	48664.523	50162.488	51635.639	53084.057	54507.820	55907.004	57281.681	58631.922	59957.791
78	47375.352	48895.477	50390.705	51861.119	53306.800	54727.826	56124.273	57496.214	58843.718	60166.851
79	47611.735	49129.087	50621.543	52089.184	53532.093	54950.346	56344.020	57713.189	59057.921	60378.281
80	47850.798	49365.342	50854.989	52319.823	53759.923	55175.368	56566.234	57932.594	59274.518	60592.071
81	48092.530	49604.230	51091.033	52553.023	53990.279	55402.880	56790.902	58154.419	59493.499	60808.208
82	48336.918	49845.739	51329.663	52788.773	54223.149	55632.871	57018.013	58378.650	59714.851	61026.681
83	48583.951	50089.857	51570.866	53027.060	54458.521	55865.327	57247.555	58605.276	59938.562	61247.476
84	48833.617	50336.572	51814.630	53267.873	54696.383	56100.238	57479.514	58834.285	60164.619	61470.582
85	49085.903	50585.871	52060.942	53511.199	54936.722	56337.590	57713.879	59065.663	60393.010	61695.986
86	49340.797	50837.743	52309.791	53757.025	55179.526	56577.371	57950.637	59299.398	60623.722	61923.676
87	49598.286	51092.174	52561.164	54005.340	55424.782	56819.568	58189.776	59535.478	60856.743	62153.638
88	49858.357	51349.151	52815.048	54256.129	55672.477	57064.169	58431.282	59773.889	61092.060	62385.860
89	50120.999	51608.663	53071.429	54509.381	55922.598	57311.160	58675.142	60014.618	61329.658	62620.328
90	50386.197	51870.695	53330.296	54765.082	56175.132	57560.528	58921.344	60257.653	61569.527	62857.029
91	50653.938	52135.236	53591.635	55023.218	56430.067	57812.260	59169.873	60502.980	61811.650	63095.950
92	50924.210	52402.270	53855.432	55283.777	56687.388	58066.342	59420.717	60750.585	62056.017	63337.077
93	51196.999	52671.786	54121.673	55546.745	56947.082	58322.762	59673.862	61000.455	62302.611	63580.397
94	51472.291	52943.768	54390.347	55812.108	57209.135	58581.504	59929.294	61252.576	62551.421	63825.895
95	51750.072	53218.205	54661.437	56079.853	57473.533	58842.556	60186.998	61506.934	62802.431	64073.558
96	52030.329	53495.081	54934.932	56349.966	57740.263	59105.903	60446.963	61763.514	63055.628	64323.371
97	52313.049	53774.383	55210.816	56622.432	58009.310	59371.532	60709.172	62022.304	63310.998	64575.320
98	52598.215	54056.096	55489.076	56897.237	58280.661	59639.427	60973.611	62283.287	63568.525	64829.391
99	52885.815	54340.207	55769.696	57174.367	58554.300	59909.574	61240.267	62546.451	63828.196	65085.568
100	53175.835	54626.700	56052.663	57453.807	58830.213	60181.960	61509.124	62811.779	64089.995	65343.838
101	-53468.258	-54915.562	-56337.962	-57735.543	-59108.385	-60456.568	-61780.168	-63079.258	-64353.908	-65604.186
102	-53763.071	-55206.777	-56625.579	-58019.560	-59388.802	-60733.384	-62053.383	-63348.872	-64619.920	-65866.595
103	-54060.260	-55500.331	-56915.498	-58305.843	-59671.449	-61012.394	-62328.755	-63620.606	-64888.016	-66131.052
104	-54359.808	-55796.208	-57207.704	-58594.377	-59956.310	-61293.582	-62606.269	-63894.445	-65158.180	-66397.541
105	-54661.701	-56094.394	-57502.182	-58885.147	-60243.370	-61576.932	-62885.909	-64170.374	-65430.397	-66666.045
106	-54965.924	-56394.873	-57798.917	-59178.136	-60532.614	-61862.430	-63167.659	-64448.376	-65704.652	-66936.551
107	-55272.461	-56697.630	-58097.893	-59473.331	-60824.027	-62150.059	-63451.505	-64728.437	-65980.927	-67209.041
108	-55581.296	-57002.650	-58399.095	-59770.715	-61117.592	-62439.804	-63737.429	-65010.541	-66259.209	-67483.500
109	-55892.415	-57309.915	-58702.507	-60070.272	-61413.293	-62731.649	-64025.417	-65294.671	-66539.480	-67759.912
110	-56205.801	-57619.412	-59008.113	-60371.987	-61711.115	-63025.578	-64315.452	-65580.811	-66821.725	-68038.261
111	-56521.438	-57931.123	-59315.897	-60675.842	-62011.042	-63321.575	-64607.518	-65868.946	-67105.927	-68318.529
112	-56839.311	-58245.033	-59625.842	-60981.823	-62313.057	-63619.624	-64901.599	-66159.058	-67392.070	-68600.702
113	-57159.402	-58561.125	-59937.934	-61289.913	-62617.144	-63919.707	-65197.678	-66451.131	-67680.137	-68884.761
114	-57481.696	-58879.383	-60252.154	-61600.095	-62923.287	-64221.809	-65495.738	-66745.149	-67970.111	-69170.691
115	-57806.177	-59199.790	-60568.487	-61912.353	-63231.468	-64525.912	-65795.763	-67041.094	-68261.975	-69458.474
116	-58132.827	-59522.330	-60886.916	-62226.670	-63541.671	-64832.001	-66097.736	-67338.950	-68555.713	-69748.093
117	-58461.629	-59846.986	-61207.424	-62543.028	-63853.879	-65140.057	-66401.639	-67638.699	-68851.308	-70039.531
118	-58792.568	-60173.741	-61529.994	-62861.411	-64168.075	-65450.064	-66707.456	-67940.324	-69148.741	-70332.771
119	-59125.626	-60502.578	-61854.609	-63181.802	-64484.241	-65762.004	-67015.168	-68243.809	-69447.995	-70627.794
120	-59460.785	-60833.479	-62181.251	-63504.184	-64802.360	-66075.860	-67324.760	-68549.134	-69749.053	-70924.584
121	-59798.028	-61166.428	-62509.903	-63828.538	-65122.415	-66391.614	-67636.212	-68856.283	-70051.897	-71223.122
122	-60137.339	-61501.406	-62840.548	-64154.848	-65444.388	-66709.249	-67949.507	-69165.237	-70356.509	-71523.391
123	-60478.699	-61838.397	-63173.167	-64483.095	-65768.261	-67028.746	-68264.628	-69475.979	-70662.872	-71825.372
124	-60822.090	-62177.381	-63507.744	-64813.261	-66094.016	-67350.088	-68581.555	-69788.490	-70970.966	-72129.047
125	-61167.496	-62518.343	-63844.259	-65145.330	-66421.636	-67673.257	-68900.271	-70102.753	-71280.773	-72434.398
126	-61514.897	-62861.262	-64182.696	-65479.281	-66751.101	-67998.234	-69220.758	-70418.748	-71592.275	-72741.405
127	-61864.276	-63206.122	-64523.035	-65815.098	-67082.393	-68325.000	-69542.997	-70736.458	-71905.453	-73050.051
128	-62215.614	-63552.904	-64865.259	-66152.761	-67415.494	-68653.538	-69866.969	-71055.863	-72220.289	-73360.317
129	-62568.893	-63901.589	-65209.348	-66492.253	-67750.386	-68983.828	-70192.656	-71376.944	-72536.764	-73672.182
130	-62924.094	-64252.159	-65555.284	-66833.554	-68087.049	-69315.851	-70520.038	-71699.683	-72854.858	-73985.630
131	-63281.200	-64604.595	-65903.049	-67176.645	-68425.465	-69649.590	-70849.097	-72024.060	-73174.552	-74300.639

Table 1. (Cont.)

J	X30	X31	X32	X33	X34	X35	X36	X37
0	53084.680	54466.871	55824.834	57158.613	58468.244	59753.756	61015.170	62252.496
1	53087.477	54469.633	55827.562	57161.306	58470.903	59756.380	61017.759	62255.050
2	53093.072	54475.158	55833.017	57166.692	58476.219	59761.626	61022.936	62260.158
3	53101.463	54483.444	55841.199	57174.770	58484.192	59769.496	61030.701	62267.819
4	53112.650	54494.493	55852.108	57185.540	58494.823	59779.988	61041.054	62278.033
5	53126.633	54508.302	55865.743	57199.001	58508.111	59793.102	61053.994	62290.800
6	53143.411	54524.871	55882.104	57215.153	58524.054	59808.837	61069.521	62306.118
7	53162.984	54544.200	55901.189	57233.995	58542.653	59827.192	61087.633	62323.987
8	53185.349	54566.287	55922.998	57255.525	58563.905	59848.166	61108.329	62344.406
9	53210.506	54591.131	55947.529	57279.743	58587.810	59871.759	61131.609	62367.373
10	53238.453	54618.730	55974.780	57306.647	58614.366	59897.967	61157.470	62392.887
11	53269.190	54649.084	56004.751	57336.236	58643.573	59926.791	61185.912	62420.947
12	53302.714	54682.190	56037.440	57368.507	58675.427	59958.229	61216.933	62451.551
13	53339.023	54718.047	56072.845	57403.460	58709.927	59992.277	61250.530	62484.697
14	53378.116	54756.653	56110.963	57441.091	58747.072	60028.936	61286.702	62520.382
15	53419.990	54798.005	56151.794	57481.400	58786.860	60068.202	61325.447	62558.606
16	53464.644	54842.102	56195.334	57524.384	58829.287	60110.073	61366.762	62599.366
17	53512.074	54888.941	56241.581	57570.040	58874.352	60154.547	61410.645	62642.658
18	53562.279	54938.519	56290.533	57618.365	58922.052	60201.621	61457.094	62688.482
19	53615.255	54990.834	56342.187	57669.358	58972.384	60251.293	61506.105	62736.833
20	53671.000	55045.882	56396.540	57723.015	59025.345	60303.559	61557.676	62787.710
21	53729.511	55103.662	56453.588	57779.333	59080.933	60358.417	61611.804	62841.108
22	53790.784	55164.169	56513.330	57838.310	59139.144	60415.863	61668.486	62897.025
23	53854.617	55227.401	56575.761	57899.941	59199.975	60475.894	61727.718	62955.458
24	53921.605	55293.354	56640.879	57964.223	59263.423	60538.507	61789.496	63016.403
25	53991.146	55362.024	56708.678	58031.153	59329.483	60603.698	61853.818	63079.856
26	54063.435	55433.407	56779.157	58100.726	59398.152	60671.463	61920.679	63145.814
27	54138.468	55507.501	56852.310	58172.940	59469.426	60741.798	61990.076	63214.272
28	54216.242	55584.800	56928.134	58247.790	59543.302	60814.700	62062.004	63285.226
29	54296.753	55663.800	57006.625	58325.271	59619.774	60890.163	62136.459	63358.673
30	54379.995	55745.997	57087.778	58405.379	59698.838	60968.184	62213.436	63434.608
31	54465.965	55830.887	57171.588	58488.110	59780.491	61048.758	62292.932	63513.026
32	54554.657	55918.465	57258.051	58573.460	59864.726	61131.880	62374.941	63593.922
33	54646.068	56008.726	57347.163	58661.422	59951.540	61217.545	62459.459	63677.292
34	54740.191	56101.665	57438.917	58751.993	60040.927	61305.749	62546.480	63763.131
35	54837.023	56197.277	57533.310	58845.167	60132.882	61396.486	62635.999	63851.433
36	54936.557	56295.556	57630.336	58940.938	60227.401	61489.752	62728.012	63942.194
37	55038.788	56396.498	57729.988	59039.302	60324.476	61585.539	62822.512	64035.407
38	55143.712	56500.097	57832.263	59140.253	60424.104	61683.844	62919.494	64131.067
39	55251.321	56606.347	57937.154	59243.785	60526.278	61784.660	63018.953	64229.168
40	55361.610	56715.742	58044.655	59349.893	60630.992	61887.981	63120.881	64329.705
41	55474.574	56826.776	58154.760	59458.569	60738.240	61993.801	63225.274	64432.671
42	55590.206	56940.943	58267.463	59569.809	60848.016	62102.115	63332.125	64538.060
43	55708.499	57057.737	58382.758	59683.605	60960.314	62212.915	63441.428	64645.866
44	55829.448	57177.151	58500.638	59799.951	61075.127	62326.195	63553.176	64756.081
45	55953.045	57299.179	58621.097	59918.841	61192.448	62441.948	63667.362	64868.700
46	56079.285	57423.814	58744.127	60040.267	61312.272	62560.169	63783.979	64983.716
47	56208.159	57551.049	58869.722	60164.224	61434.590	62680.849	63903.022	65101.121
48	56339.661	57680.876	58997.875	60290.703	61559.395	62803.981	64024.482	65220.909
49	56473.785	57813.789	59128.579	60419.698	61686.681	62929.559	64148.352	65343.072
50	56610.521	57948.781	59261.826	60551.200	61816.440	63057.574	64274.624	65467.602
51	56749.864	58085.843	59397.609	60685.204	61948.664	63188.020	64403.292	65594.493
52	56891.805	58225.969	59535.919	60821.700	62083.346	63320.889	64534.348	65723.735
53	57036.336	58368.650	59676.750	60960.681	62220.478	63456.172	64667.782	65855.322
54	57183.450	58513.878	59820.093	61102.139	62360.052	63593.862	64803.589	65989.246
55	57333.139	58661.646	59965.940	61246.066	62502.059	63733.950	64941.758	66125.497
56	57485.393	58811.944	60114.283	61392.454	62646.492	63876.428	65082.283	66264.068
57	57640.206	58964.765	60265.113	61541.293	62793.342	64021.288	65225.154	66404.950
58	57797.568	59120.101	60418.422	61692.577	62942.600	64168.521	65370.362	66548.135
59	57957.470	59277.941	60574.202	61846.295	63094.257	64318.119	65517.900	66693.614
60	58119.904	59438.278	60732.442	62002.439	63248.305	64470.071	65667.758	66841.377
61	58284.861	59601.103	60893.134	62160.999	63404.735	64624.370	65819.926	66991.415
62	58452.332	59766.405	61056.270	62321.968	63563.537	64781.006	65974.396	67143.720
63	58622.306	59934.177	61221.839	62485.334	63724.701	64939.969	66131.158	67298.282
64	58794.776	60104.408	61389.832	62651.090	63888.220	65101.250	66290.203	67455.091
65	58969.731	60277.089	61560.239	62819.224	64054.081	65264.840	66451.521	67614.137

Table 1. (Cont.)

J	X30	X31	X32	X33	X34	X35	X36	X37
66	59147.162	60452.211	61733.052	62989.728	64222.277	65430.728	66615.102	67775.411
67	59327.058	60629.767	61908.259	63162.591	64392.797	65598.904	66780.936	67938.903
68	59509.410	60809.734	62085.851	63337.804	64565.630	65769.359	66949.012	68104.602
69	59694.207	60992.116	62265.817	63515.355	64740.767	65942.082	67119.321	68272.498
70	59881.439	61176.897	62448.148	63695.235	64918.197	66117.062	67291.852	68442.580
71	60071.096	61364.067	62632.832	63877.433	65097.910	66294.290	67466.595	68614.838
72	60263.167	61553.616	62819.859	64061.939	65279.894	66473.753	67643.538	68789.261
73	60457.642	61745.533	63009.218	64248.741	65464.139	66655.442	67822.670	68965.838
74	60654.508	61939.806	63200.898	64437.828	65650.634	66839.344	68003.981	69144.557
75	60853.756	62136.424	63394.888	64629.190	65839.367	67025.450	68187.460	69325.409
76	61055.373	62335.377	63591.176	64822.814	66030.328	67213.747	68373.094	69508.380
77	61259.350	62536.653	63789.752	65018.690	66223.505	67404.225	68560.873	69693.460
78	61465.673	62740.240	63990.604	65216.806	66418.885	67596.871	68750.784	69880.637
79	61674.331	62946.127	64193.719	65417.150	66616.458	67791.673	68942.816	70069.899
80	61885.314	63154.302	64399.086	65619.710	66816.212	67988.620	69136.956	70261.234
81	62098.607	63364.752	64606.693	65824.475	67018.133	68187.699	69333.193	70454.629
82	62314.201	63577.466	64816.529	66031.431	67222.211	68388.898	69531.515	70650.073
83	62532.081	63792.432	65028.579	66240.567	67428.433	68592.206	69731.908	70847.552
84	62752.236	64009.636	65242.833	66451.870	67636.785	68797.608	69934.360	71047.055
85	62974.653	64229.066	65459.276	66665.327	67847.256	69005.093	70138.859	71248.568
86	63199.320	64450.710	65677.898	66880.926	68059.832	69214.647	70345.391	71452.079
87	63426.223	64674.555	65898.684	67098.653	68274.501	69426.257	70553.944	71657.573
88	63655.350	64900.687	66121.621	67318.496	68491.249	69639.911	70764.503	71865.039
89	63886.687	65128.793	66346.697	67540.441	68710.064	69855.595	70977.057	72074.462
90	64120.222	65359.161	66573.897	67764.475	68930.931	70073.295	71191.590	72285.829
91	64355.940	65591.676	66803.209	67990.583	69153.836	70292.998	71408.091	72499.127
92	64593.828	65826.325	67034.619	68218.768	69378.768	70514.690	71626.543	72714.340
93	64833.872	66063.094	67268.112	68448.972	69605.710	70738.357	71846.935	72931.456
94	65076.059	66301.969	67503.675	68681.223	69834.649	70963.985	72069.251	73150.460
95	65320.374	66542.935	67741.294	68915.494	70065.572	71191.559	72293.477	73371.338
96	65566.802	66785.980	67980.954	69151.769	70298.463	71421.065	72519.598	73594.075
97	65815.331	67031.088	68222.642	69390.036	70533.308	71652.489	72747.601	73818.657
98	66065.945	67278.245	68466.341	69630.278	70770.093	71885.816	72977.470	74045.068
99	66318.630	67527.436	68712.039	69872.481	71008.802	72121.031	73209.191	74273.294
100	66573.370	67778.646	68959.719	70116.631	71249.421	72358.119	73442.748	74503.320
101	-66830.151	-68031.861	-69209.366	-70362.711	-71491.934	-72597.065	-73678.126	-74735.130
102	-67088.958	-68287.065	-69460.967	-70610.708	-71736.327	-72837.853	-73915.310	-74968.709
103	-67349.775	-68544.242	-69714.504	-70860.605	-71982.583	-73080.468	-74154.284	-75204.042
104	-67612.588	-68803.378	-69969.963	-71112.387	-72230.687	-73324.895	-74395.032	-75441.112
105	-67877.380	-69064.457	-70227.329	-71366.038	-72480.624	-73571.117	-74637.539	-75679.904
106	-68144.136	-69327.463	-70486.584	-71621.543	-72732.378	-73819.119	-74881.789	-75920.401
107	-68412.840	-69592.380	-70747.714	-71878.885	-72985.932	-74068.884	-75127.765	-76162.588
108	-68683.476	-69859.193	-71010.702	-72138.048	-73241.270	-74320.397	-75375.457	-76406.448
109	-68956.028	-70127.884	-71275.532	-72399.017	-73498.376	-74573.640	-75624.832	-76651.965
110	-69230.479	-70398.438	-71542.188	-72661.774	-73757.233	-74828.598	-75875.889	-76899.121
111	-69506.814	-70670.838	-71810.653	-72926.303	-74017.826	-75085.253	-76128.607	-77147.901
112	-69785.016	-70945.068	-72080.910	-73192.587	-74280.136	-75343.589	-76382.968	-77398.286
113	-70065.067	-71221.111	-72352.943	-73460.609	-74544.148	-75603.589	-76638.955	-77650.261
114	-70346.952	-71498.949	-72626.734	-73730.353	-74809.843	-75865.235	-76896.552	-77903.807
115	-70630.652	-71778.566	-72902.267	-74001.801	-75077.205	-76128.511	-77155.740	-78158.908
116	-70916.151	-72059.945	-73179.524	-74274.936	-75346.217	-76393.398	-77416.503	-78415.545
117	-71203.432	-72343.068	-73458.488	-74549.739	-75616.860	-76659.880	-77678.822	-78673.701
118	-71492.477	-72627.917	-73739.141	-74826.195	-75889.117	-76927.937	-77942.680	-78933.357
119	-71783.269	-72914.475	-74021.466	-75104.284	-76162.970	-77197.554	-78208.058	-79194.497
120	-72075.789	-73202.725	-74305.443	-75383.989	-76438.401	-77468.710	-78474.939	-79457.102
121	-72370.020	-73492.648	-74591.057	-75665.292	-76715.393	-77741.389	-78743.304	-79721.152
122	-72665.944	-73784.226	-74878.288	-75948.175	-76993.926	-78015.572	-79013.135	-79986.631
123	-72963.543	-74077.440	-75167.117	-76232.618	-77273.982	-78291.239	-79284.413	-80253.518
124	-73262.797	-74372.274	-75457.527	-76518.604	-77555.542	-78568.373	-79557.120	-80521.796
125	-73563.690	-74668.706	-75749.499	-76806.114	-77838.589	-78846.955	-79831.236	-80791.445
126	-73866.201	-74966.721	-76043.015	-77095.129	-78123.102	-79126.965	-80106.742	-81062.446
127	-74170.313	-75266.297	-76338.054	-77385.630	-78409.063	-79408.385	-80383.619	-81334.779
128	-74476.006	-75567.416	-76634.598	-77677.597	-78696.453	-79691.195	-80661.848	-81608.426
129	-74783.262	-75870.060	-76932.628	-77971.013	-78985.251	-79975.376	-80941.410	-81883.367
130	-75092.061	-76174.209	-77232.125	-78265.856	-79275.440	-80260.908	-81222.283	-82159.581
131	-75402.383	-76479.842	-77533.069	-78562.108	-79566.998	-80547.771	-81504.450	-82437.049

Table 2. Bands observed by Simmons, Bass, and Tilford (1969). The columns list the observed and calculated wavenumbers and their difference. Blends are indicated by a prefixed minus sign.

X 0 - A 0									
J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	64747.90	64747.94	-.04
1	0.00	0.00	0.00	-64744.24	64744.14	.10	-64750.33	64750.52	-.19
2	64736.39	64736.41	-.02	64742.79	64742.79	.00	-64752.47	64752.36	.11
3	-64731.10	64731.30	-.20	64740.81	64740.84	-.03	-64753.57	64753.55	.02
4	-64725.51	64725.44	.07	64738.16	64738.18	-.02	64754.05	64754.00	.05
5	-64718.80	64718.95	-.15	64734.88	64734.89	-.01	64753.83	64753.83	.00
6	64711.66	64711.71	-.05	-64731.10	64731.00	.10	-64752.47	64752.62	-.15
7	-64703.76	64703.86	-.10	64726.16	64726.21	-.05	-64750.33	64750.28	.05
8	64694.90	64694.97	-.07	64720.78	64720.78	.00	64745.82	64745.84	-.02
9	64684.99	64684.94	.05	64714.53	64714.57	-.04	64752.10	64752.08	.02
10	64672.78	64672.83	-.05	64707.33	64707.36	-.03	64747.27	64747.26	.01
11	64671.35	64671.39	-.04	64698.80	64698.83	-.03	64742.62	64742.61	.01
12	64658.85	64658.89	-.04	64688.15	64688.20	-.05	-64737.53	64737.56	-.03
13	-64646.51	64646.58	-.07	64693.65	64693.66	-.01	-64731.75	64731.85	-.10
14	-64633.85	64633.87	-.02	64682.61	64682.68	-.07	64725.02	64725.02	.00
15	-64620.42	64620.50	-.08	64671.92	64671.94	-.02	64716.21	64716.30	-.09
16	64605.94	64606.00	-.06	64661.03	64661.06	-.03	64717.60	64717.65	-.05
17	64589.58	64589.63	-.05	64649.75	64649.80	-.05	64708.22	64708.28	-.06
18	64583.31	64583.34	-.03	64637.94	64637.97	-.03	64699.00	64699.14	-.14
19	64566.29	64566.32	-.03	64625.59	64625.59	-.00	64689.69	64689.71	-.02
20	64549.55	64549.55	.00	64612.62	64612.56	.06	64679.80	64679.83	-.03
21	64532.50	64532.49	.01	64599.02	64599.02	.00	64669.36	64669.35	.01
22	64515.01	64514.98	.03	64584.79	64584.84	-.05	-64658.07	64658.24	-.17
23	64496.87	64496.88	-.01	64569.93	64569.98	-.05	-64646.51	64646.43	.08
24	64478.15	64478.15	-.00	64554.40	64554.46	-.06	-64633.85	64633.94	-.09
25	64458.74	64458.74	-.00	64538.17	64538.20	-.03	-64620.42	64620.63	-.21
26	64438.66	64438.66	.00	64521.10	64521.10	.00	64605.45	64605.45	.00
27	64417.75	64417.75	-.00	64501.04	64501.04	-.00	0.00	64593.25	0.00
28	0.00	64394.99	0.00	64486.13	64486.13	.00	-0.00	64577.45	0.00
29	0.00	64375.22	0.00	64466.54	64466.54	.00	-0.00	0.00	0.00

X 1 - A 0									
J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	62604.70	62604.67	.03
1	0.00	0.00	0.00	62600.91	62600.91	.00	62607.29	62607.29	.00
2	62593.26	62593.24	.02	-62599.66	62599.62	.04	62609.18	62609.19	-.01
3	-62588.37	62588.24	.13	62597.82	62597.78	.04	-62610.44	62610.49	-.05
4	62582.52	62582.52	-.00	62595.28	62595.26	.02	-62611.03	62611.08	-.05
5	62576.20	62576.20	-.00	62592.16	62592.14	.02	-62611.03	62611.08	-.05
6	62569.18	62569.18	.00	-62588.37	62588.47	-.10	62610.12	62610.09	.03
7	-62561.51	62561.57	-.06	62583.96	62583.92	.04	62608.03	62607.99	.04
8	62552.98	62552.96	.02	-62578.80	62578.77	.03	62603.88	62603.83	.05
9	62543.16	62543.25	-.09	62572.92	62572.88	.04	-62610.44	62610.39	.05
10	62531.50	62531.48	.02	62566.04	62566.01	.03	62605.95	62605.91	.04
11	62530.44	62530.43	.01	62557.91	62557.87	.04	62601.67	62601.65	.02
12	-62518.40	62518.35	.05	62547.72	62547.66	.06	62597.04	62597.02	.02
13	62506.48	62506.50	-.02	62553.60	62553.58	.02	62591.74	62591.77	-.03
14	62494.26	62494.27	-.01	62543.16	62543.08	.08	62585.44	62585.42	.02
15	62481.46	62481.42	.04	62532.88	62532.86	.02	62577.29	62577.22	.07
16	62467.56	62467.49	.07	62522.57	62522.55	.02	-62579.15	62579.14	.01
17	62451.81	62451.71	.10	62511.93	62511.88	.05	62570.39	62570.36	.03
18	62446.13	62446.06	.07	62500.72	62500.69	.03	-62561.85	62561.86	-.01
19	62429.77	62429.70	.07	62488.98	62488.97	.01	0.00	62553.09	0.00
20	62413.76	62413.63	.13	62476.58	62476.64	-.06	-0.00	62543.91	0.00
21	0.00	62397.30	0.00	-62464.05	62463.83	.22	-0.00	62534.16	0.00
22	0.00	62380.56	0.00	62450.48	62450.42	.06	-0.00	62523.82	0.00
23	0.00	62363.27	0.00	62436.41	62436.37	.04	-0.00	62512.82	0.00
24	0.00	62345.38	0.00	62421.75	62421.69	.06	-0.00	62501.17	0.00
25	0.00	62326.85	0.00	62406.34	62406.31	.03	-0.00	62488.74	0.00

Table 2. (Cont.)

X 0 - A 1

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	66236.16	66236.14	0.02
1	0.00	0.00	0.00	66232.28	66232.29	-.01	66238.46	66238.47	-.01
2	66224.59	66224.61	-.02	66230.89	66230.79	.10	-66240.11	66239.86	.25
3	66219.17	66219.25	-.08	66228.37	66228.32	.05	-66240.66	66240.61	.05
4	66212.89	66217.94	-.05	66225.32	66225.23	.09	-66240.60	66240.76	-.16
5	66205.92	66206.01	-.09	66221.54	66221.54	.00	-66240.11	66240.16	-.05
6	66198.47	66198.47	-.00	66217.14	66217.09	.05	66238.83	66239.00	-.17
7	66190.15	66190.19	-.04	66212.27	66212.10	.17	66236.93	66236.93	.00
8	-66181.26	66181.35	-.09	66206.13	66206.18	-.05	66234.37	66234.41	-.04
9	66171.64	66171.59	.05	66199.85	66199.82	.03	66231.10	66231.10	-.00
10	66161.40	66161.40	.00	66192.61	66192.68	-.07	66227.26	66227.28	-.02
11	66150.49	66150.41	.08	66185.06	66185.01	.05	66222.69	66222.69	-.00
12	66138.89	66138.91	-.02	66176.60	66176.59	.01	66217.40	66217.46	-.06
13	66126.65	66126.66	-.01	66167.55	66167.53	.02	66211.65	66211.63	.02
14	66113.82	66113.77	.05	66157.86	66157.87	-.01	66205.07	66205.09	-.02
15	66100.28	66100.28	.00	66147.55	66147.50	.05	66197.81	66197.84	-.03
16	66086.04	66086.07	-.03	66136.44	66136.41	.03	66189.92	66189.95	-.03
17	-66071.15	66071.17	-.02	66124.75	66124.71	.04	-66181.26	66181.41	-.15
18	-66055.75	66055.64	.11	66112.34	66112.34	-.00	66172.10	66172.14	-.04
19	-66039.59	66039.45	.14	66099.27	66099.25	.02	66162.18	66162.21	-.03
20	66022.58	66022.55	.03	66085.55	66085.51	.04	66151.54	66151.56	-.02
21	66004.98	66004.99	-.01	-66071.15	66071.15	.00	66140.34	66140.29	.05
22	65986.72	65986.71	.01	-66055.75	66055.75	.00	66128.15	66128.17	-.02
23	65967.77	65967.82	-.05	-66039.59	66039.59	.00	66115.31	66115.34	-.03
24	65948.10	65948.08	.02	66023.89	66023.89	-.00	66101.58	66101.57	.01
25	65927.68	65927.65	.03	66006.26	66006.26	-.00	66085.55	66085.63	-.08
26	65906.29	65906.29	.00	65989.12	65989.12	.00	-0.00	66073.54	0.00
27	65882.84	65882.75	.09	65970.20	65970.20	-.00	-0.00	66057.89	0.00
28	0.00	65863.08	0.00	65950.77	65950.77	.00	-0.00	66044.38	0.00
29	0.00	65839.86	0.00	65933.47	65933.47	.00	-0.00	66025.08	0.00
30	0.00	65818.78	0.00	65910.39	65910.39	.00	-0.00	0.00	0.00

X 0 - A 2

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	67678.75	67678.77	-.02
1	0.00	0.00	0.00	67674.98	67674.92	.06	67681.16	67681.19	-.03
2	67667.19	67667.24	-.05	67673.57	67673.51	.06	67682.86	67682.83	.03
3	67661.93	67661.97	-.04	67671.26	67671.29	-.03	-67683.85	67683.93	-.08
4	67655.90	67655.91	-.01	67668.36	67668.55	-.19	-67683.85	67683.93	-.08
5	67649.52	67649.33	.19	-67664.73	67664.71	.02	67683.59	67683.44	.15
6	67641.64	67641.64	-.00	67660.27	67660.37	-.10	67682.18	67682.05	.13
7	67633.41	67633.47	-.06	67654.95	67655.15	-.20	67680.14	67680.10	.04
8	67624.46	67624.40	.06	67649.29	67649.35	-.06	67677.37	67677.41	-.04
9	67614.78	67614.76	.02	67642.86	67642.82	.04	67673.84	67673.93	-.09
10	67604.39	67604.40	-.01	67635.57	67635.51	.06	67669.74	67669.74	.00
11	67593.26	67593.24	.02	-67627.46	67627.47	-.01	-67664.73	67664.86	-.13
12	-67581.37	67581.37	-.00	67618.77	67618.76	.01	67659.17	67659.15	.02
13	67568.82	67568.83	-.01	-67609.43	67609.22	.21	67652.75	67652.75	-.00
14	67555.45	67555.46	-.01	-67598.96	67598.99	-.03	67645.58	67645.59	-.01
15	-67541.35	67541.40	-.05	-67588.19	67588.00	.19	67637.74	67637.76	-.02
16	67526.58	67526.57	.01	67576.37	67576.33	.04	67629.09	67629.12	-.03
17	67511.07	67511.09	-.02	67563.92	67563.88	.04	67619.75	67619.78	-.03
18	67494.80	67494.81	-.01	67550.73	67550.71	.02	-67609.43	67609.68	-.25
19	-67477.78	67477.82	-.04	67536.81	67536.79	.02	-67598.96	67596.84	.12
20	67460.06	67460.09	-.03	67522.17	67522.14	.03	-67587.20	67587.20	.00
21	67441.58	67441.62	-.04	67506.76	67506.78	.00	67574.78	67574.80	-.02
22	67422.35	67422.35	.00	67490.61	67490.61	.00	67561.57	67561.59	-.02
23	67402.34	67402.33	.01	-67473.67	67473.67	.00	67547.29	67547.31	-.02
24	67381.52	67381.50	.02	67456.04	67456.04	-.00	67530.45	67530.42	.03
25	67359.63	67359.62	.01	67437.53	67437.53	-.00	67520.16	67520.15	.01
26	67335.11	67335.14	-.03	67418.17	67418.17	.00	67503.31	67503.29	.02
27	67317.27	67317.27	-.00	67397.64	67397.64	-.00	67486.19	67486.17	.02
28	67292.80	67292.83	-.03	67374.50	67374.50	.00	67468.49	67468.52	-.03
29	67268.12	67268.14	-.02	67361.16	67361.16	.00	67449.85	67449.85	.00
30	67242.95	67242.92	.03	67337.33	67337.33	.00	-0.00	67432.33	0.00
31	0.00	67216.69	0.00	67313.86	67313.86	.00	-0.00	67412.38	0.00
32	0.00	67191.62	0.00	67290.14	67290.14	.00	-0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A 3

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-69091.34	69091.56	-.22
1	0.00	0.00	0.00	69087.79	69087.71	.08	-69093.73	69093.76	-.03
2	69079.96	69080.03	-.07	69086.12	69086.08	.04	-69095.23	69095.36	-.13
3	69074.50	69074.54	-.04	69083.89	69083.82	.07	-69095.92	69096.00	-.08
4	69068.38	69068.44	-.06	69080.62	69080.62	-.00	-69095.92	69095.99	-.07
5	69061.41	69061.40	.01	69076.77	69076.77	.00	-69095.23	69095.21	.02
6	-69053.55	69053.70	-.15	69072.09	69072.14	-.05	-69093.52	69093.59	-.07
7	69045.29	69045.24	.05	69066.69	69066.69	.00	-69091.22	69091.23	-.01
8	69035.94	69035.94	.00	-69060.56	69060.48	.08	69087.99	69088.05	-.06
9	69025.89	69025.89	-.00	-69053.55	69053.46	.09	69084.08	69084.02	.06
10	69015.09	69015.04	.05	69045.53	69045.60	-.07	69079.47	69079.46	.01
11	-69003.39	69003.33	.06	69037.18	69037.19	-.01	69073.99	69073.98	.01
12	68991.09	68991.09	-.00	69027.88	69027.88	-.00	69067.71	69067.70	.01
13	-68977.91	68977.95	-.04	69017.75	69017.77	-.02	-69060.56	69060.61	-.05
14	68964.02	68964.01	.01	69006.84	69006.85	-.01	69052.86	69052.84	.02
15	68949.27	68949.26	.01	-68995.14	68995.25	-.11	69044.21	69044.19	.02
16	68933.80	68933.82	-.02	-68982.75	68982.76	-.01	69034.82	69034.80	.02
17	68917.49	68917.52	-.03	-68969.91	68969.56	.35	69024.69	69024.68	.01
18	68900.48	68900.49	-.01	68955.59	68955.61	-.02	69013.64	69013.66	-.02
19	68882.72	68882.72	-.00	68940.79	68940.77	.02	69001.96	69001.93	.03
20	68864.08	68864.07	.01	-68925.33	68925.23	.10	68989.46	68989.39	.07
21	68844.68	68844.71	-.03	68908.85	68908.87	-.02	68976.11	68976.08	.03
22	68824.48	68824.54	-.06	68891.71	68891.75	-.04	68962.00	68961.95	.05
23	68803.60	68803.61	-.01	68873.78	68873.81	-.03	68947.02	68947.03	-.01
24	68781.83	68781.86	-.03	68855.06	68855.08	-.02	68931.31	68931.31	-.00
25	68759.37	68759.34	.03	68835.56	68835.57	-.01	68914.96	68914.90	.06
26	68736.05	68736.03	.02	68815.34	68815.36	-.02	-68897.64	68897.44	.20
27	68711.99	68712.02	-.03	68794.03	68794.10	-.07	68879.29	68879.41	-.12
28	68687.06	68686.98	.08	68770.80	68770.80	.00	68860.45	68860.35	.10
29	68661.50	68661.38	.12	68750.21	68750.21	.00	0.00	68841.24	0.00
30	68634.64	68634.75	-.11	68726.55	68726.55	.00	0.00	0.00	0.00

X 0 - A 4

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	70469.97	70469.89	.08
1	0.00	0.00	0.00	70465.97	70466.04	-.07	-70472.11	70471.94	.17
2	-70458.39	70458.36	.03	-70464.07	70464.26	-.19	-70473.39	70473.29	.10
3	70452.72	70452.72	-.00	70461.79	70461.75	.04	70473.70	70473.74	-.04
4	70446.33	70446.37	-.04	-70458.39	70458.36	.03	-70473.39	70473.38	.01
5	70439.18	70439.14	.04	-70454.19	70454.16	.03	-70472.11	70472.24	-.13
6	70431.09	70431.09	-.00	70449.23	70449.17	.06	70470.29	70470.31	-.02
7	70422.21	70422.27	-.06	70443.58	70443.41	.17	70467.42	70467.46	-.04
8	70412.52	70412.66	-.14	70436.75	70436.71	.04	-70464.07	70463.95	.12
9	-70402.06	70402.12	-.06	70429.31	70429.36	-.05	70459.38	70459.42	-.04
10	70390.99	70390.94	.05	70421.00	70421.00	.00	-70454.19	70454.17	.02
11	70378.76	70378.73	.03	70411.93	70411.90	.03	70448.29	70448.29	-.00
12	70365.78	70365.80	-.02	-70402.06	70402.19	-.13	70441.13	70441.16	-.03
13	-70352.02	70352.76	-.24	70391.29	70391.23	.06	70433.61	70433.53	.08
14	70337.46	70337.47	-.01	70379.69	70379.77	-.08	70424.86	70424.86	.00
15	-70322.12	70322.18	-.06	70367.30	70367.27	.03	70415.52	70415.53	-.01
16	70305.80	70305.84	-.04	-70354.21	70354.10	.11	70405.38	70405.32	.06
17	70288.86	70288.86	.00	70340.01	70340.08	-.07	70394.31	70394.31	.00
18	70271.03	70271.01	.02	-70325.17	70325.24	-.07	70382.41	70382.45	-.04
19	70252.35	70252.35	-.00	70309.59	70309.56	.03	70369.75	70369.73	.02
20	70232.88	70232.86	.02	70292.99	70293.03	-.04	-70356.20	70356.27	-.07
21	70212.54	70212.51	.03	70275.81	70275.75	.06	-70341.66	70341.88	-.22
22	70191.36	70191.42	-.06	-70257.53	70257.55	-.02	70326.76	70326.47	.29
23	70169.41	70169.41	.00	70237.86	70238.33	-.47	70310.62	70310.65	-.03
24	70146.57	70146.38	.19	70218.76	70218.70	.06	70293.74	70293.79	-.05
25	70122.92	70122.96	-.04	70198.09	70198.05	.04	70276.03	70276.08	-.05
26	70098.51	70098.51	.00	70176.59	70176.54	.05	-70257.53	70257.53	.00
27	70073.20	70073.20	-.00	70154.21	70154.19	.02	0.00	70238.23	0.00
28	70047.05	70047.07	-.02	70131.11	70131.11	.00	0.00	70217.95	0.00
29	0.00	70020.20	0.00	70107.04	70107.04	.00	0.00	70196.86	0.00
30	0.00	69992.35	0.00	70082.17	70082.17	.00	0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A 5

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-71811.81	71811.99	-.18
1	0.00	0.00	0.00	-71808.36	71808.14	.22	-71814.15	71814.16	-.01
2	-71800.41	71800.46	-.05	71806.47	71806.48	-.01	-71815.50	71815.43	.07
3	71794.94	71794.94	-.00	71803.90	71803.89	.01	-71815.50	71815.75	-.25
4	71788.51	71788.51	-.00	-71800.41	71800.37	.04	-71815.50	71815.24	.26
5	71781.15	71781.15	.00	71796.04	71796.02	.02	-71814.15	71813.87	.28
6	71772.93	71772.95	-.02	71790.82	71790.80	.02	-71811.81	71811.64	.17
7	71763.89	71763.90	-.01	71784.74	71784.74	.00	-71808.36	71808.53	-.17
8	71753.98	71753.99	-.01	71777.76	71777.78	-.02	71804.45	71804.49	-.04
9	71743.22	71743.19	.03	71769.93	71769.90	.03	71799.66	71799.65	.01
10	71731.50	71731.48	.02	71761.22	71761.23	-.01	71793.88	71793.88	.00
11	71718.96	71718.96	-.00	-71751.66	71751.61	.25	71787.30	71787.26	.04
12	71705.52	71705.51	.01	-71741.17	71741.16	.01	71779.83	71779.79	.04
13	71691.20	71691.23	-.03	71729.83	71729.86	-.03	71771.45	71771.43	.02
14	-71676.01	71676.10	-.09	71717.65	71717.67	-.02	71762.25	71762.23	.02
15	-71660.12	71660.08	.04	71704.62	71704.64	-.02	-71751.86	71752.10	-.24
16	-71643.42	71643.21	.21	71690.69	71690.67	.02	-71741.17	71741.11	.06
17	71625.42	71625.43	-.01	-71676.01	71675.87	.14	71729.22	71729.22	.00
18	71606.80	71606.80	-.00	-71660.12	71660.15	-.03	71716.41	71716.43	-.02
19	71587.26	71587.26	-.00	-71643.42	71643.54	-.12	71702.77	71702.78	-.01
20	71566.85	71566.84	.01	71626.06	71626.08	-.02	71688.32	71688.31	.01
21	71545.60	71545.56	.04	71607.82	71607.79	.03	-71672.81	71672.91	-.10
22	71523.40	71523.46	-.06	71588.58	71588.58	.00	-71656.56	71656.65	-.09
23	71500.43	71500.44	-.01	71568.49	71568.51	-.02	71639.42	71639.45	-.03
24	71476.59	71476.56	.03	71547.51	71547.50	.01	71621.38	71621.41	-.03
25	71451.78	71451.76	.02	71525.68	71525.67	.01	71602.39	71602.45	-.06
26	71426.16	71426.13	.03	71502.94	71502.91	.03	-0.00	71582.62	0.00
27	71399.60	71399.57	.03	71479.28	71479.28	-.00	-0.00	71561.70	0.00
28	0.00	71372.16	0.00	71454.58	71454.58	.00	-0.00	71540.33	0.00
29	0.00	71343.67	0.00	71429.42	71429.42	.00	-0.00	71517.27	0.00
30	0.00	71314.73	0.00	71402.58	71402.58	.00	-0.00	0.00	0.00

X 0 - A 6

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-73119.90	73119.61	.29
1	0.00	0.00	0.00	73115.76	73115.76	-.00	-73121.75	73121.57	.18
2	0.00	73108.08	0.00	73113.89	73113.89	.00	-73122.76	73122.68	.08
3	-73102.69	73102.35	.34	73111.15	73111.14	.01	-73122.76	73122.81	-.05
4	73095.75	73095.76	-.01	73107.44	73107.43	.01	-73121.75	73121.71	.04
5	73088.21	73088.21	.00	-73102.69	73102.49	.20	-73119.90	73120.05	-.15
6	73079.42	73079.42	-.00	-73097.10	73096.98	.12	73120.86	73120.84	.02
7	73070.08	73070.08	.00	-73094.02	73093.94	.08	73114.67	73114.77	-.10
8	73063.18	73063.19	-.01	73084.05	73084.02	.03	73109.89	73109.86	.03
9	73049.50	73049.43	.07	73075.12	73075.12	-.00	73103.99	73104.06	-.07
10	73036.81	73036.85	-.04	73065.22	73065.22	.00	-73097.10	73097.25	-.15
11	73023.44	73023.37	.07	73058.51	73058.51	-.00	73089.13	73089.13	-.00
12	-73009.03	73008.88	.15	73044.55	73044.55	-.00	-73094.02	73094.07	-.05
13	72993.11	72993.10	.01	-73030.72	73030.72	-.00	73080.05	73080.14	-.09
14	72990.38	72990.38	.00	73025.60	73025.60	.00	73067.63	73067.61	.02
15	72968.88	72968.79	.09	-73009.03	73009.03	.00	73055.90	73055.87	.03
16	72948.58	72948.59	-.01	72996.39	72996.39	-.00	73043.54	73043.56	-.02
17	72929.16	72929.20	-.04	72978.66	72978.66	.00	-73030.72	73030.57	.15
18	72909.28	72909.25	.03	72961.57	72961.50	.07	73016.69	73016.71	-.02
19	72888.55	72888.61	-.06	72943.87	72943.82	.05	73001.96	73001.96	-.00
20	72867.08	72867.12	-.04	72925.28	72925.26	.02	72986.30	72986.34	-.04
21	72844.73	72844.74	-.01	72905.84	72905.82	.02	72969.83	72969.86	-.03
22	72821.51	72821.49	.02	72885.54	72885.53	.01	72952.37	72952.36	.01
23	72797.39	72797.39	.00	72864.24	72864.22	.02	72934.01	72934.03	-.02
24	72772.24	72772.27	-.03	0.00	72842.08	0.00	0.00	0.00	0.00
25	72746.36	72746.34	.02	0.00	0.00	0.00	0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A 7

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-74394.55	74394.65	-.10
1	0.00	0.00	0.00	74390.80	74390.80	-.00	-74396.51	74396.50	.01
2	-74382.90	74383.12	-.22	74388.82	74388.82	.00	-74397.37	74397.48	-.11
3	-74377.16	74377.28	-.12	74385.95	74385.94	.01	-74397.37	74397.44	-.07
4	74370.56	74370.56	-.00	74382.11	74382.06	.05	-74396.51	74396.38	.13
5	74362.80	74362.84	-.04	-74377.16	74377.16	.00	-74394.55	74394.46	.09
6	-74353.96	74354.09	-.13	74371.44	74371.39	.05	74391.53	74391.55	-.02
7	74344.44	74344.49	-.05	74364.70	74364.65	.05	74387.71	74387.67	.04
8	74333.87	74333.90	-.03	74356.91	74356.92	-.01	-74382.90	74382.87	.03
9	74322.30	74322.33	-.03	74348.29	74348.28	.01	-74377.16	74377.00	.16
10	74309.84	74309.86	-.02	74338.57	74338.58	-.01	74370.24	74370.23	.01
11	74296.31	74296.31	-.00	74327.94	74327.96	-.02	74362.49	74362.48	.01
12	74281.87	74281.86	.01	74316.39	74316.38	.01	-74353.96	74353.71	.25
13	74266.43	74266.45	-.02	74303.81	74303.78	.03	74344.17	74344.06	.11
14	74250.00	74250.02	-.02	74290.26	74290.30	-.04	74333.34	74333.35	-.01
15	74232.63	74232.71	-.08	74275.76	74275.76	.00	74321.66	74321.68	-.02
16	74214.33	74214.33	-.00	74260.26	74260.25	.01	74309.04	74309.06	-.02
17	74195.01	74195.01	.00	74243.84	74243.82	.02	74295.46	74295.49	-.03
18	74174.75	74174.75	-.00	74226.35	74226.42	-.07	74280.88	74280.87	.01
19	74153.64	74153.53	.11	-74207.88	74207.98	-.10	74265.28	74265.29	-.01
20	74131.26	74131.28	-.02	74188.62	74188.59	.03	74248.77	74248.77	.00
21	74108.04	74108.07	-.03	74168.25	74168.25	.00	74231.21	74231.22	-.01
22	74083.92	74083.92	.00	74146.90	74146.89	.01	74212.67	74212.69	-.02
23	74058.73	74058.75	-.02	74124.56	74124.55	.01	74193.22	74193.23	-.01
24	74032.60	74032.60	-.00	74101.29	74101.28	.01	74172.62	74172.68	-.06
25	74005.54	74005.54	-.00	74077.03	74076.94	.09	-74150.06	74150.14	-.08
26	73977.38	73977.40	-.02	74051.76	74051.76	.00	0.00	74128.91	0.00
27	73947.26	73947.26	-.00	74025.48	74025.57	-.09	0.00	74105.11	0.00
28	73918.55	73918.45	.10	-73997.99	73997.99	.00	0.00	0.00	0.00

X 0 - A 8

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	75634.56	75634.55	.01
1	0.00	0.00	0.00	75630.66	75630.70	-.04	75636.46	75636.39	.07
2	75623.05	75623.02	.03	75628.69	75628.71	-.02	-75637.12	75637.21	-.09
3	75617.12	75617.17	-.05	-75625.74	75625.67	.07	-75637.12	75636.94	.18
4	-75610.32	75610.29	.03	75621.54	75621.56	-.02	75635.76	75635.72	.04
5	75602.36	75602.34	.02	75616.51	75616.50	.01	75633.47	75633.45	.02
6	75593.38	75593.43	-.05	-75610.32	75610.38	-.06	75630.17	75630.14	.03
7	75583.45	75583.48	-.03	75603.22	75603.24	-.02	-75625.74	75625.87	-.13
8	-75573.03	75572.49	.54	75595.12	75595.12	.00	75620.51	75620.51	.00
9	75560.54	75560.53	.01	75585.97	75585.92	.05	75614.18	75614.19	-.01
10	75547.46	75547.50	-.04	-75575.72	75575.77	-.05	75606.84	75606.84	.00
11	75533.52	75533.50	.02	75564.55	75564.57	-.02	75598.42	75598.45	-.03
12	75518.49	75518.47	.02	75552.36	75552.35	.01	75589.08	75589.03	.05
13	75502.44	75502.42	.02	75539.05	75539.10	-.05	-75578.58	75578.61	-.03
14	75485.34	75485.34	.00	75524.83	75524.85	-.02	75567.11	75567.13	-.02
15	75467.27	75467.26	.01	75509.37	75509.37	.00	75554.53	75554.55	-.02
16	75448.13	75448.11	.02	75495.60	75495.60	-.00	75540.84	75540.82	.02
17	75427.89	75427.88	.01	75478.69	75478.69	.00	75524.83	75524.81	.02
18	75406.50	75406.51	-.01	75457.87	75457.87	-.00	75512.00	75512.05	-.05
19	75382.84	75382.85	-.01	-75438.44	75438.44	-.00	75494.92	75494.97	-.05
20	75362.51	75362.46	.05	75418.34	75418.27	.07	75477.32	75477.26	.06
21	75337.73	75337.75	-.02	75396.68	75396.74	-.06	75458.58	75458.53	.05
22	75312.41	75312.41	.00	75374.13	75374.20	-.07	-75438.44	75438.56	-.12
23	75286.06	75286.06	.00	75350.46	75350.42	.04	75421.09	75421.11	-.02
24	75258.43	75258.47	-.04	75329.16	75329.16	-.00	75397.18	75397.17	.01
25	75233.43	75233.42	.01	75301.41	75301.43	-.02	0.00	0.00	0.00
26	75201.91	75201.89	.02	0.00	0.00	0.00	-0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A 9

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	76840.25	76840.16	0.09
1	0.00	0.00	0.00	76836.27	76836.31	-.04	-76842.15	76841.83	.32
2	76828.59	76828.63	-.04	-76834.27	76834.15	.12	-76842.15	76842.45	-.30
3	76822.61	76822.61	-.00	76830.93	76830.91	.02	-76842.15	76842.08	.07
4	76815.52	76815.53	-.01	76826.68	76826.70	-.02	76840.46	76840.56	-.10
5	76807.51	76807.48	.03	76821.35	76821.34	.01	76838.04	76838.06	-.02
6	76798.37	76798.27	.10	76815.04	76814.99	.05	-76834.27	76834.41	-.14
7	76788.07	76788.09	-.02	76807.51	76807.51	.00	76829.75	76829.73	.02
8	76776.75	76776.76	-.01	76798.96	76798.98	-.02	76823.98	76823.98	.00
9	76764.40	76764.39	.01	76789.41	76789.39	.02	76817.18	76817.22	-.04
10	76750.95	76750.97	-.02	76778.89	76778.80	.09	76809.31	76809.30	.01
11	76736.49	76736.53	-.04	-76767.02	76767.03	-.01	76800.35	76800.35	-.00
12	76720.93	76720.93	-.00	-76754.20	76754.25	-.05	76790.32	76790.34	-.02
13	76704.32	76704.32	-.00	76740.44	76740.41	.03	76779.13	76779.23	-.10
14	76686.65	76686.65	.00	76725.52	76725.47	.05	-76767.02	76767.08	-.06
15	76667.92	76667.88	.04	76709.50	76709.49	.01	-76753.98	76753.88	.10
16	76648.06	76648.06	-.00	76692.47	76692.45	.02	76739.58	76739.59	-.01
17	76627.19	76627.21	-.02	76674.36	76674.35	.01	76724.19	76724.20	-.01
18	-76605.30	76605.28	.02	76655.13	76655.13	-.00	76707.77	76707.78	-.01
19	-76582.26	76587.24	.02	76634.93	76634.89	.04	76690.25	76690.25	-.00
20	76558.15	76558.19	-.04	-76613.50	76613.55	-.05	76671.63	76671.65	-.02
21	76533.02	76533.03	-.01	76591.12	76591.13	-.01	76651.93	76651.96	-.03
22	76506.81	76506.80	.01	76567.71	76567.63	.08	76631.21	76631.19	.02
23	76479.44	76479.49	-.05	76543.08	76543.05	.03	-76609.36	76609.37	-.01
24	76451.04	76451.10	-.06	76517.44	76517.42	.02	76586.42	76586.44	-.02
25	76421.66	76421.68	-.02	76490.70	76490.70	-.00	76562.49	76562.48	.01
26	76391.19	76391.16	.03	76462.93	76462.94	-.01	76537.32	76537.36	-.04
27	0.00	76359.60	0.00	76434.06	76434.02	.04	76511.06	76511.10	-.04
28	0.00	76326.90	0.00	76404.03	76403.98	.05	76484.20	76484.20	.00

X 0 - A10

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-78011.25	78011.30	-.05
1	0.00	0.00	0.00	78007.53	78007.45	.08	-78012.97	78012.97	-.00
2	77999.70	77999.77	-.07	78005.29	78005.29	.00	78013.32	78013.42	-.10
3	77993.75	77993.75	-.00	78001.95	78001.86	.07	-78012.97	78012.86	.11
4	77986.52	77986.50	.02	77997.50	77997.48	.02	-78011.25	78011.15	.10
5	77978.24	77978.26	-.02	77991.93	77991.93	.00	78008.31	78008.33	-.02
6	-77968.65	77968.86	-.21	77985.29	77985.26	.03	78004.38	78004.40	-.02
7	-77958.44	77958.36	.08	-77977.42	77977.50	-.08	77999.31	77999.31	.00
8	77946.77	77946.75	.02	-77968.65	77968.56	.09	77993.12	77993.12	.00
9	77933.96	77933.97	-.01	-77958.44	77958.53	-.09	77985.71	77985.76	-.05
10	-77919.98	77920.11	-.13	77947.34	77947.34	.00	-77977.42	77977.34	.08
11	77905.11	77905.07	.04	77935.10	77935.07	.03	77967.75	77967.76	-.01
12	77888.95	77888.97	-.02	77921.67	77921.66	.01	77957.02	77957.01	.01
13	77871.73	77871.73	-.00	77907.17	77907.17	-.00	77945.07	77945.07	-.00
14	77853.31	77853.32	-.01	77891.48	77891.48	.00	77931.49	77931.49	.00
15	77833.72	77833.72	.00	77874.70	77874.70	.00	-77919.98	77919.86	.12
16	-77812.49	77812.47	.02	77856.63	77856.63	-.00	77903.90	77903.89	.01
17	77793.19	77793.19	.00	77837.19	77837.19	.00	77887.35	77887.37	-.02
18	77769.58	77769.58	-.00	77824.55	77824.55	-.00	77869.73	77869.71	.02
19	77745.44	77745.41	.03	77798.81	77798.81	-.00	77850.33	77850.33	-.00
20	77720.10	77720.12	-.02	77775.63	77775.63	.00	77830.92	77830.80	.12
21	77693.10	77693.11	-.01	77751.87	77751.87	.00	-77812.49	77812.46	.03
22	77665.82	77665.95	-.13	77727.04	77727.04	.00	77789.87	77789.81	.06
23	77639.99	77639.99	.00	77701.86	77701.86	.00	0.00	77766.65	0.00
24	77609.66	77609.72	-.06	77674.59	77674.59	-.00	-0.00	77742.29	0.00
25	77578.96	77578.96	-.00	77646.55	77646.55	-.00	-0.00	77716.89	0.00
26	0.00	77547.01	0.00	77617.35	77617.35	.00	-0.00	77690.20	0.00
27	0.00	77514.01	0.00	77586.86	77586.86	-.00	-0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A11

J	P (OBS)	P (CALC)	O-C	Q (OBS)	Q (CALC)	O-C	R (OBS)	R (CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	79149.44	79149.44	.00
1	0.00	0.00	0.00	-79145.47	79145.59	-.12	-79150.89	79150.94	-.05
2	79137.91	79137.91	.00	79143.23	79143.26	-.03	-79150.89	79151.31	-.42
3	79131.75	79131.72	.03	79139.80	79139.77	.03	-79150.89	79150.50	.39
4	79124.37	79124.39	-.02	-79135.35	79135.12	.23	79148.58	79148.54	.04
5	79115.90	79115.90	.00	-79129.09	79129.32	-.23	-79145.47	79145.36	.11
6	79106.22	79106.25	-.03	79122.29	79122.29	-.00	79141.08	79141.03	.05
7	79095.39	79095.39	.00	79114.14	79114.13	.01	-79135.35	79135.57	-.22
8	79083.32	79083.38	-.06	79104.82	79104.82	.00	-79129.09	79128.97	.12
9	-79070.48	79070.23	.25	79094.38	79094.38	-.00	79121.05	79121.15	-.10
10	-79056.01	79055.96	.05	79082.70	79082.73	-.03	79113.05	79113.05	.00
11	79040.59	79040.46	.13	-79070.48	79070.78	-.30	79102.20	79102.20	-.00
12	-79024.53	79024.68	-.15	-79056.01	79056.10	-.09	79090.73	79090.62	.11
13	-79006.39	79006.17	.22	79040.59	79040.69	-.10	79078.18	79078.17	.01
14	-78986.98	-78986.93	.05	-79024.53	79024.41	.12	79064.26	79064.26	.00
15	78966.81	78966.82	-.01	-79006.39	79006.67	-.28	-79048.34	79048.32	.02
16	78945.24	78945.24	-.00	-78986.98	78986.89	.09	79035.38	79035.40	-.02
17	78921.65	78921.65	.00	78970.21	78970.16	.05	79017.52	79017.52	.00
18	78901.05	78901.09	-.04	78948.48	78948.45	.03	78998.98	78998.96	.02
19	78875.53	78875.56	-.03	78926.08	78926.07	.01	78979.34	78979.34	-.00
20	78849.34	78849.37	-.03	78902.67	78902.64	.03	78958.65	78958.68	-.03
21	78822.10	78822.12	-.02	78878.17	78878.16	.01	78936.74	78936.74	.00
22	78793.84	78793.83	.01	78852.43	78852.41	.02	78913.62	78913.61	.01
23	78764.25	78764.27	-.02	78825.51	78825.47	.04	78889.41	78889.41	.00
24	78733.46	78733.52	-.06	78797.41	78797.46	-.05	78863.92	78863.89	.03
25	78701.77	78701.72	.05	78768.13	78768.15	-.02	78837.36	78837.35	.01
26	0.00	78668.61	0.00	78737.80	78737.81	-.01	0.00	78809.45	0.00
27	0.00	78634.47	0.00	78706.11	78706.11	-.00	0.00	0.00	0.00

X 0 - A12

J	P (OBS)	P (CALC)	O-C	Q (OBS)	Q (CALC)	O-C	R (OBS)	R (CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	80253.12	80253.03	.09
1	0.00	0.00	0.00	80249.14	80249.18	-.04	-80254.52	80254.49	.03
2	80241.44	80241.50	-.06	80246.83	80246.81	.02	-80254.52	80254.70	-.18
3	80235.25	80235.27	-.02	-80243.19	80243.16	.03	80253.73	80253.67	.06
4	80227.78	80227.78	-.00	80238.27	80238.29	-.02	80251.43	80251.40	.03
5	80219.02	80219.07	-.05	80232.13	80232.18	-.05	80248.00	80248.01	-.01
6	80209.15	80209.11	.04	80224.95	80224.94	.01	-80243.19	80243.34	-.15
7	80198.05	80198.04	.01	80216.45	80216.44	.01	-80237.50	80237.44	.06
8	80185.68	80185.69	-.01	80206.68	80206.69	-.01	80230.35	80230.39	-.04
9	80172.12	80172.10	.02	80195.81	80195.80	.01	80222.02	80222.08	-.06
10	80157.42	80157.38	.04	80183.68	80183.66	.02	80212.59	80212.57	.02
11	80141.42	80141.39	.03	80170.32	80170.30	.02	80201.84	80201.84	-.00
12	80124.15	80124.20	-.05	80155.74	80155.74	-.00	80189.87	80189.86	.01
13	80105.83	80105.81	.02	80139.95	80139.93	.02	80176.70	80176.67	.03
14	80086.14	80086.17	-.03	80122.91	80122.91	.00	80162.32	80162.27	.05
15	80065.29	80065.32	-.03	80104.69	80104.68	.01	80146.69	80146.68	.01
16	80043.20	80043.25	-.05	80085.25	80085.25	-.00	80129.79	80129.77	.02
17	-80019.73	80020.01	-.28	80064.51	80064.53	-.02	80111.74	80111.82	-.08
18	-79995.34	79995.46	-.12	80042.83	80042.75	.08	80092.39	80092.39	-.00
19	-79969.62	79969.86	-.24	-80019.73	80019.50	.23	80072.09	80072.09	-.00
20	-79942.68	79942.80	-.12	-79995.34	79995.39	-.05	80050.03	80050.03	.00
21	-79914.71	79914.87	-.16	-79969.62	79969.51	.11	80027.01	80027.01	.00
22	-79885.33	79885.18	.15	-79942.68	79942.68	.00	80002.73	80002.73	.00
23	-79854.59	79854.54	.05	-79914.71	79914.59	.12	79977.62	79977.62	.00
24	-79822.24	79822.64	-.40	-79885.33	79885.33	-.00	79951.32	79951.32	-.00
25	0.00	79789.93	0.00	-79854.59	79854.59	-.00	79923.00	79923.00	-.00
26	0.00	79756.04	0.00	-79822.24	79822.24	.00	79894.34	79894.34	.00
27	0.00	79720.12	0.00	79791.80	79791.80	-.00	79863.28	79863.22	.06
28	0.00	79683.88	0.00	79756.04	79756.10	-.06	79831.16	79831.16	.00

Table 2. (Cont.)

X 0 - A13

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-81322.76	81322.76	.00
1	0.00	0.00	0.00	81318.86	81318.91	-.05	-81323.99	81324.13	-.14
2	81311.29	81311.23	.06	-81316.43	81316.45	-.02	-81323.99	81324.09	-.10
3	-81305.06	81304.91	.15	81312.48	81312.55	-.07	-81322.76	81322.86	-.10
4	81297.25	81297.17	.08	81307.42	81307.48	-.06	81320.32	81320.35	-.03
5	81288.33	81288.26	.07	81301.11	81301.13	-.02	-81316.43	81316.61	-.18
6	81278.11	81278.06	.05	81293.52	81293.54	-.02	81311.56	81311.54	.02
7	81266.67	81266.64	.03	81284.61	81284.64	-.03	-81305.06	81305.28	-.22
8	81253.90	81253.89	.01	81274.50	81274.53	-.03	81297.58	81297.66	-.08
9	81239.97	81239.94	.03	81263.11	81263.07	.04	81288.79	81288.86	-.07
10	81224.69	81224.65	.04	81250.45	81250.44	.01	81278.72	81278.76	-.04
11	81208.23	81208.17	.06	81236.52	81236.49	.03	81267.40	81267.44	-.04
12	81190.40	81190.39	.01	81221.34	81221.34	-.00	81254.75	81254.77	-.02
13	81171.47	81171.41	.06	81204.87	81204.84	.03	81240.88	81240.98	-.10
14	81151.07	81151.08	-.01	81187.42	81187.22	.20	81225.68	81225.71	-.03
15	81129.54	81129.63	-.09	81168.13	81168.12	.01	81209.26	81209.25	.01
16	81106.72	81106.69	.03	81147.86	81147.82	.04	81191.54	81191.51	.03
17	81082.52	81082.58	-.06	81126.28	81126.27	.01	81172.48	81172.49	-.01
18	81057.17	81057.20	-.03	81103.44	81103.42	.02	81152.25	81152.24	.01
19	81030.52	81030.53	-.01	81079.38	81079.35	.03	81130.64	81130.64	-.00
20	81002.62	81002.65	-.03	81053.96	81053.94	.02	81107.78	81107.77	.01
21	80973.41	80973.42	-.01	81027.26	81027.25	.01	81083.98	81084.03	-.05
22	80942.88	80942.92	-.04	80999.64	80999.70	-.06	81058.28	81058.37	-.09
23	80911.66	80911.56	.10	80970.20	80970.23	-.03	81031.52	81031.53	-.01
24	80878.40	80878.28	.12	80939.62	80939.58	.04	81003.27	81003.32	-.05
25	80843.82	80843.84	-.02	80907.63	80907.58	.05	-80974.85	80974.81	.04
26	0.00	80808.04	0.00	80875.27	80875.27	.00	80943.90	80943.88	.02
27	0.00	80771.93	0.00	80840.52	80840.54	-.02	0.00	0.00	0.00

X 0 - A14

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-82356.80	82356.95	-.15
1	0.00	0.00	0.00	-82353.44	82353.10	.34	-82357.87	82357.98	-.11
2	82345.42	82345.42	.00	-82350.05	82350.30	-.25	-82357.87	82357.87	.00
3	82338.76	82338.76	-.00	82346.26	82346.33	-.07	-82356.80	82356.56	.24
4	82331.03	82330.95	.08	82341.18	82341.18	-.00	-82353.44	82353.83	-.39
5	82321.97	82321.96	.01	82334.61	82334.61	.00	-82350.05	82349.78	.27
6	82311.55	82311.54	.01	82326.73	82326.71	.02	82344.74	82344.48	.26
7	82299.79	82299.81	-.02	82317.43	82317.58	-.15	82337.81	82337.78	.03
8	82286.71	82286.83	-.12	82306.96	82307.03	-.07	82329.74	82329.71	.03
9	82272.49	82272.44	.05	82295.09	82295.12	-.03	82320.31	82320.33	-.02
10	0.00	82256.70	0.00	82281.93	82281.91	.02	82309.69	82309.74	-.05
11	82239.63	82239.64	-.01	82267.59	82267.47	.12	82297.69	82297.62	.07
12	82221.31	82221.37	-.06	82251.37	82251.52	-.15	82284.32	82284.34	-.02
13	82201.68	82201.59	.09	82234.41	82234.41	-.00	82269.68	82269.71	-.03
14	82180.68	82180.65	.03	82216.01	82215.95	.06	0.00	82253.75	0.00
15	82158.33	82158.36	-.03	82196.19	82196.16	.03	82236.42	82236.46	-.04
16	82134.70	82134.73	-.03	82175.09	82175.03	.06	82217.78	82217.83	-.05
17	82109.78	82109.79	-.01	82152.66	82152.59	.07	82197.90	82197.97	-.07
18	82083.50	82083.52	-.02	82129.08	82128.90	.18	82176.61	82176.71	-.10
19	82055.89	82056.01	-.12	82104.06	82103.82	.24	82153.84	82153.60	.04
20	82026.98	82027.12	-.14	-82077.58	82077.10	.48	82129.54	82129.92	-.38
21	81996.54	81996.58	-.04	-82049.80	82049.40	.40	82104.06	82104.32	-.26
22	81965.45	81965.07	.38	-82020.53	82019.99	.54	-82077.58	82078.20	-.62
23	81932.11	81931.85	.26	-81990.00	81990.06	-.06	-82049.80	82050.08	-.28
24	81898.11	81898.11	-.00	-81958.00	81958.13	-.13	-82020.53	82020.70	-.17
25	81862.39	81862.39	-.00	-81925.11	81924.96	.15	-81990.00	81989.99	.01
26	81825.42	81825.42	.00	-81890.43	81890.45	-.02	-81958.00	81957.99	.01
27	0.00	81787.11	0.00	-81854.65	81854.65	-.00	-81925.11	81925.11	-.00
28	0.00	81747.53	0.00	0.00	81817.99	0.00	81890.43	81890.43	.00
29	0.00	81707.08	0.00	0.00	81779.52	0.00	81854.65	81854.65	.00

Table 2. (Cont.)

X 0 - A15

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	83355.75	83355.68	.07
1	0.00	0.00	0.00	-83351.50	83351.83	-.33	-83356.22	83356.63	-.41
2	83344.08	83344.15	-.07	83348.96	83348.95	.01	-83356.22	83356.16	.06
3	83337.40	83337.41	-.01	83344.55	83344.62	-.07	83354.70	83354.62	.08
4	83329.31	83329.24	.07	83339.24	83339.24	-.00	-83351.50	83351.26	.24
5	83319.95	83320.02	-.07	83332.33	83332.33	.00	83346.18	83346.25	-.07
6	83308.97	83308.97	-.00	83323.84	83323.84	-.00	83341.96	83341.96	-.00
7	83296.34	83296.28	.06	83314.19	83314.19	.00	83334.54	83334.56	-.02
8	83284.31	83284.31	.00	83302.51	83302.51	.00	83325.86	83325.91	-.05
9	83269.24	83269.22	.02	-83292.53	83292.53	-.00	83315.90	83315.91	-.01
10	83252.95	83252.90	.05	-83278.25	83278.25	.00	83304.20	83304.19	.01
11	83235.23	83235.22	.01	-83262.86	83262.86	-.00	-83292.53	83292.77	-.24
12	83215.82	83215.82	-.00	-83246.19	83246.19	-.00	-83278.25	83278.36	-.11
13	83196.74	83196.74	-.00	-83228.13	83228.13	-.00	-83262.86	83262.89	-.03
14	83174.67	83174.67	.00	83208.86	83208.86	.00	-83246.19	83246.06	.13
15	83151.54	83151.54	.00	83188.46	83188.47	-.01	-83228.13	83227.84	.29
16	83127.06	83127.04	.02	83166.49	83166.41	.08	83208.61	83208.42	.19
17	83101.09	83101.17	-.08	83143.07	83143.18	-.11	83187.42	83187.42	.00
18	83074.02	83074.11	-.09	83118.35	83118.35	-.00	83165.04	83165.07	-.03
19	83045.45	83045.46	-.01	83092.18	83092.18	-.00	83141.28	83141.31	-.03
20	83015.50	83015.48	.02	83064.60	83064.61	-.01	83116.27	83116.12	.15
21	82984.13	82984.09	.04	83035.62	83035.60	.02	83089.64	83089.64	.00
22	82951.09	82951.27	-.18	83005.30	83005.31	-.01	83061.79	83061.72	.07
23	0.00	82917.17	0.00	82973.51	82973.58	-.07	83032.35	83032.43	-.08
24	0.00	82881.63	0.00	82940.56	82940.48	.08	83001.76	83001.76	-.00

X 0 - A16

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-84317.93	84317.42	.51
1	0.00	0.00	0.00	84313.44	84313.57	-.13	-84317.93	84318.44	-.51
2	84306.02	84305.89	.13	84310.76	84310.76	.00	-84317.93	84317.86	.07
3	84299.21	84299.22	-.01	84306.26	84306.32	-.06	84316.07	84316.06	.01
4	84291.01	84290.94	.07	84300.66	84300.68	-.02	84312.83	84312.78	.05
5	84281.46	84281.46	.00	-84293.81	84293.56	.25	84307.98	84307.99	-.01
6	84270.44	84270.49	-.05	-84284.91	84284.92	-.01	84301.81	84301.80	.01
7	84258.02	84258.02	.00	-84274.81	84274.90	-.09	-84293.81	84294.18	-.37
8	84244.14	84244.15	-.01	-84263.16	84263.43	-.27	84284.91	84285.11	-.20
9	84228.84	84228.84	-.00	84250.61	84250.52	.09	-84274.81	84274.73	.08
10	84212.22	84212.10	.12	84236.29	84236.31	-.02	84263.16	84262.95	.21
11	84194.06	84194.04	.02	84220.56	84220.68	-.12	84249.61	84249.55	.06
12	84174.48	84174.58	-.10	84203.43	84203.45	-.02	84234.77	84234.75	.02
13	84153.49	84153.52	-.03	84184.83	84184.82	.01	84218.51	84218.53	-.02
14	84131.04	84131.06	-.02	84164.76	84164.77	-.01	84200.95	84200.93	.02
15	84107.21	84107.18	.03	84143.30	84143.34	-.04	84181.81	84181.83	-.02
16	84081.92	84081.91	.01	84120.43	84120.40	.03	84161.26	84161.28	-.02
17	84055.15	84055.16	-.01	84096.07	84096.04	.03	84139.28	84139.31	-.03
18	84026.96	84026.97	-.01	84070.31	84070.24	.07	84115.91	84115.98	-.07
19	83997.30	83997.35	-.05	84043.01	84043.09	-.08	84091.12	84091.07	.05
20	83966.55	83966.39	.16	84014.32	84014.37	-.05	84064.68	84064.76	-.08
21	83933.85	83933.85	.00	83984.28	83984.24	.04	84036.89	84036.84	.05
22	83899.94	83899.91	.03	83952.45	83952.51	-.06	-0.00	84007.60	0.00
23	0.00	83864.37	0.00	83919.46	83919.46	.00	-0.00	83976.75	0.00
24	0.00	83827.51	0.00	83884.80	83884.80	-.00	-0.00	0.00	0.00

Table 2. (Cont.)

X 0 - A17

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-85240.32	85239.96	.36
1	0.00	0.00	0.00	85236.11	85236.11	-0.00	-85240.32	85240.67	-.35
2	-85228.76	85228.43	.33	85233.23	85232.99	.24	-85240.32	85240.37	-.05
3	85221.20	85221.45	-.25	-85228.76	85228.83	-.07	85238.14	85238.10	.04
4	-85213.58	85213.45	.13	-85222.78	85222.72	.06	85234.51	85234.51	-0.00
5	85203.46	85203.50	-.04	-85214.96	85215.29	-.33	-85228.76	85229.32	-.56
6	-85192.40	85192.22	.18	85206.19	85206.25	-.06	-85222.78	85222.87	-.09
7	85179.41	85179.35	.06	85195.80	85195.97	-.17	-85214.96	85214.70	.26
8	85165.39	85165.22	.17	85183.98	85183.95	.03	85205.26	85205.18	.08
9	85149.33	85149.36	-.03	85170.60	85170.59	.01	85194.58	85194.51	.07
10	85132.09	85132.17	-.08	85155.69	85156.09	-.40	85181.65	85181.66	-.01
11	85114.14	85113.82	.32	85139.40	85139.39	.01	85167.56	85167.57	-.01
12	85093.28	85093.29	-.01	85120.42	85120.42	-0.00	85152.03	85152.02	.01
13	85071.56	85071.54	.02	85102.46	85102.46	-0.00	85134.90	85134.89	.01
14	85048.33	85048.33	.00	85081.37	85081.37	.00	85116.66	85116.63	.03
15	85023.52	85023.54	-.02	85058.92	85059.04	-.12	85096.46	85096.47	-.01
16	84997.69	84997.61	.08	85035.02	85035.04	-.02	85075.18	85074.97	.21
17	84969.83	84969.80	.03	85009.63	85009.73	-.10	85051.73	85051.76	-.03
18	84940.54	84940.66	-.12	84982.79	84982.69	.10	85027.18	85026.98	.20
19	84909.72	84909.80	-.08	84954.36	84954.09	.27	85001.22	85001.15	.07
20	84876.93	84877.39	-.46	84924.57	84924.45	.12	84973.61	84973.57	.04
21	84843.74	84843.93	-.19	84892.84	84893.05	-.21	84944.49	84944.47	.02
22	84808.89	84808.72	.17	84860.07	84860.14	-.07	84913.90	84913.93	-.03
23	84772.04	84772.00	.04	84825.74	84825.79	-.05	84881.54	84881.54	.00
24	84733.92	84733.84	.08	84789.48	84789.59	-.11	84848.10	84847.99	.11
25	84693.96	84693.85	.11	84752.15	84752.25	-.10	0.00	84812.63	0.00
26	0.00	84652.71	0.00	84713.09	84713.09	.00	-0.00	0.00	0.00

X 0 - A18

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-86121.12	86120.99	.13
1	0.00	0.00	0.00	-86117.01	86117.14	-.13	-86121.12	86121.72	-.60
2	-86109.45	86109.46	-.01	86114.04	86114.04	.00	-86121.12	86120.77	.35
3	-86102.51	86102.50	.01	-86109.45	86109.23	.22	86120.22	86119.97	.25
4	86093.85	86093.85	-0.00	86104.43	86104.59	-.16	86115.49	86115.35	.14
5	86085.27	86085.37	-.10	-86096.30	86096.13	.17	-86109.45	86109.71	-.26
6	86072.92	86073.06	-.14	86086.75	86086.64	.11	86102.51	86102.61	-.10
7	86059.63	86059.74	-.11	86075.82	86075.71	.11	86093.85	86093.96	-.11
8	-86044.44	86044.96	-.52	86063.29	86063.21	.08	86084.18	86083.98	.20
9	86028.65	86028.62	.03	86049.35	86049.39	-.04	86072.41	86072.23	.18
10	86010.82	86010.97	-.15	86033.71	86033.81	-.10	86059.13	86058.98	.15
11	85991.45	85991.54	-.09	86016.62	86016.71	-.09	-86044.44	86044.24	.20
12	85970.55	85970.61	-.06	85997.97	85998.14	-.17	86027.70	86027.69	.01
13	85948.39	85948.21	.18	85977.81	85977.76	.05	86009.79	86009.74	.05
14	85923.95	85924.00	-.05	85955.96	85955.98	-.02	85990.29	85990.22	.07
15	85898.35	85898.39	-.04	85932.64	85932.63	.01	85969.09	85969.11	-.02
16	85871.13	85871.20	-.07	85907.69	85907.68	.01	85946.35	85946.37	-.02
17	85842.45	85842.44	.01	85881.14	85881.13	.01	85922.21	85922.19	.02
18	85812.07	85812.06	.01	85852.98	85853.12	-.14	85896.46	85896.63	-.17
19	85780.35	85780.23	.12	85823.55	85823.74	-.19	85869.20	85869.04	.16
20	85747.39	85747.04	.35	85792.22	85792.34	-.12	85840.10	85840.03	.07
21	85711.79	85711.82	-.03	85759.40	85759.51	-.11	85809.34	85809.43	-.09
22	85675.20	85675.18	.02	85725.07	85725.10	-.03	85777.14	85777.65	-.51
23	85637.06	85636.96	.10	85690.16	85689.51	.65	85744.10	85743.74	.36
24	85597.42	85597.56	-.14	85651.77	85651.79	-.02	85708.13	85708.11	.02
25	85555.72	85556.05	-.33	85612.35	85612.37	-.02	85671.24	85671.34	-.10
26	0.00	85512.83	0.00	85571.90	85571.80	.10	0.00	85632.66	0.00
27	0.00	85468.46	0.00	85529.32	85529.32	-0.00	0.00	0.00	0.00

Table 2. (Cont.)
X 0 - A20

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-87743.17	87742.88	.29
1	0.00	0.00	0.00	-87739.10	87739.03	.07	-87743.17	87743.37	-.20
2	87731.35	87731.35	.00	87735.69	87735.69	.00	87742.10	87742.11	-.01
3	-87723.82	87724.15	-.33	87730.57	87730.57	-.00	-87739.10	87739.24	-.14
4	-87715.20	87715.19	.01	-87723.82	87723.86	-.04	87734.46	87734.43	.03
5	-87704.83	87704.64	.19	-87715.20	87715.21	-.01	87728.08	87728.08	.00
6	87692.12	87692.14	-.02	-87704.83	87705.01	-.18	87719.94	87719.97	-.03
7	87678.10	87678.11	-.01	87693.06	87693.07	-.01	87710.18	87710.18	.00
8	87662.35	87662.32	.03	87679.42	87679.43	-.01	87698.66	87698.65	.01
9	87644.84	87644.84	-.00	87664.06	87664.06	-.00	87685.45	87685.45	-.00
10	87625.63	87625.64	-.01	87647.01	87647.03	-.02	87670.52	87670.52	.00
11	87604.77	87604.76	.01	87628.23	87628.25	-.02	87653.85	87653.84	.01
12	87582.16	87582.15	.01	87607.73	87607.74	-.01	87635.46	87635.48	-.02
13	87557.82	87557.81	.01	87585.54	87585.55	-.01	87615.37	87615.38	-.01
14	87531.83	87531.79	.04	87561.62	87561.62	.00	87593.53	87593.55	-.02
15	87504.03	87504.03	.00	87536.01	87535.96	.05	87569.98	87569.98	.00
16	87474.51	87474.53	-.02	87508.56	87508.55	.01	87544.71	87544.74	-.03
17	87443.30	87443.31	-.01	87479.46	87479.50	-.04	87517.63	87517.61	.02
18	87410.51	87410.43	.08	87448.52	87448.54	-.02	87488.87	87488.89	-.02
19	87375.64	87375.65	-.01	87416.03	87416.00	.03	87458.31	87458.31	-.00

X 0 - A21

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-88469.24	88469.25	-.01
1	0.00	0.00	0.00	88465.47	88465.40	.07	-88469.24	88469.31	-.07
2	88457.66	88457.72	-.06	88461.62	88461.63	-.01	88467.77	88467.76	.01
3	88450.10	88450.09	.01	88456.22	88456.22	-.00	88464.35	88464.38	-.03
4	88440.82	88440.84	-.02	88449.00	88449.00	-.00	88459.22	88459.21	.01
5	88429.80	88429.78	.02	88439.99	88439.99	.00	88452.21	88452.25	-.04
6	-88416.67	88416.92	-.25	88429.22	88429.18	.04	88443.46	88443.46	.00
7	-88402.16	88402.28	-.12	-88416.67	88416.56	.11	88432.87	88432.97	-.10
8	-88385.88	88385.81	.07	-88402.16	88402.22	-.06	88420.54	88420.65	-.11
9	88367.73	88367.63	.10	-88385.88	88386.06	-.18	88406.30	88406.34	-.04
10	88347.65	88347.64	.11	-88367.73	88367.92	-.19	88390.30	88390.26	.04
11	88325.69	88325.65	.04	88347.94	88347.99	-.05	88372.49	88372.43	.06
12	88301.91	88301.89	.02	88326.32	88326.33	-.01	88352.79	88352.79	.00
13	88276.35	88276.40	-.05	88302.86	88302.86	-.00	88331.31	88331.33	-.02
14	88249.10	88249.10	.00	88277.56	88277.57	-.01	88307.99	88307.97	.02
15	88220.01	88219.98	.03	88250.37	88250.38	-.01	88282.84	88282.88	-.04
16	88188.95	88188.95	-.00	88221.44	88221.45	-.01	88255.84	88255.87	-.03
17	88156.25	88156.21	.04	88190.66	88190.63	.03	88227.00	88227.03	-.03
18	0.00	88121.56	0.00	88157.99	88157.96	.03	88196.31	88196.31	-.00
19	0.00	88085.07	0.00	0.00	88123.42	0.00	88163.68	88163.68	-.00

X 0 - A23

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-89677.77	89677.77	.00
1	0.00	0.00	0.00	0.00	89673.92	0.00	-89677.77	89677.43	.34
2	0.00	89666.24	0.00	-89669.42	89669.75	-.33	0.00	89674.46	0.00
3	0.00	89658.21	0.00	-89662.92	89662.92	-.00	-89669.42	89668.86	.56
4	0.00	89647.54	0.00	-89654.31	89653.48	.83	-89662.92	89665.04	-2.12
5	-89632.87	89634.26	-1.39	-89643.42	89645.82	-2.40	-89654.31	89654.36	-.05
6	89622.75	89622.75	-.00	-89631.21	89631.29	-.08	-89643.42	89643.29	.13
7	89604.39	89604.39	.00	89616.38	89616.39	-.01	-89631.21	89630.19	1.02
8	89585.64	89585.64	.00	89599.53	89599.44	.09	-89614.55	89615.25	-.70
9	89564.76	89564.85	-.09	89580.68	89580.66	.02	89597.90	89597.85	.05
10	89542.22	89542.24	-.02	89559.42	89559.43	-.01	89578.45	89578.43	.02
11	89517.13	89517.16	-.03	89536.14	89536.16	-.02	89556.74	89556.79	-.05
12	89490.05	89490.06	-.01	89510.63	89510.69	-.06	89533.01	89532.99	.02
13	89460.87	89460.76	.11	89483.05	89483.06	-.01	89507.02	89507.00	.02
14	-89429.98	89429.30	.68	89453.23	89453.24	-.01	89478.56	89478.51	.05
15	-89399.43	89395.65	3.78	89420.87	89420.92	-.05	89448.38	89448.34	.04
16	-89361.00	89359.49	1.51	89386.87	89386.91	-.04	89415.55	89415.55	-.00
17	0.00	89321.67	0.00	89350.31	89350.31	.00	89379.39	89379.39	.00

Table 3. Bands observed by Gero (1936) with corrected wavenumbers. Blends are indicated by a prefixed minus sign in the observed column. Calculated wavenumbers without a minus sign are computed from the data of Simmons, Bass, and Tilford (1969). Calculated wavenumbers with a minus sign are derived from these data.

X11 - A 4

J	P (OBS)	P (CALC)	O-C	Q (OBS)	Q (CALC)	O-C	R (OBS)	R (CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	48338.86	48338.88	-.03
1	0.00	0.00	0.00	48335.48	48335.42	.06	48341.44	48341.32	.11
2	-48329.04	48328.50	.54	-48334.43	48334.40	.02	48343.37	48343.43	-.06
3	48324.59	48324.02	.57	48333.11	48333.05	.06	-48345.67	48345.04	.62
4	48319.28	48319.21	.06	48331.31	48331.20	.10	-48346.89	48346.22	.66
5	48313.72	48313.91	-.18	-48329.04	48328.93	.12	-48347.68	48347.01	.67
6	48308.17	48308.17	-.00	-48326.61	48326.25	.36	-48347.68	48347.39	.29
7	48302.08	48302.04	.04	48323.05	48323.18	-.13	-48347.68	48347.23	.45
8	-48295.51	48295.51	-.00	48319.67	48319.56	.11	-48346.89	48346.80	.09
9	48288.27	48288.44	-.17	48315.48	48315.68	-.20	-48345.67	48345.74	-.07
10	48280.96	48281.10	-.14	48311.24	48311.16	.08	48344.52	48344.33	.20
11	48273.12	48273.13	-.01	-48306.58	48306.30	.29	48342.35	48342.69	-.34
12	48264.73	48264.82	-.08	48301.15	48301.21	-.06	48340.12	48340.18	-.06
13	48256.47	48256.28	-.11	-48295.51	48295.25	.26	48337.55	48337.55	-.01
14	48246.91	48246.88	.03	48289.20	48289.18	.02	-48334.43	48334.27	.16
15	48237.38	48237.36	.02	48282.45	48282.45	.01	48330.78	48330.71	.07
16	48227.21	48227.18	.02	48275.47	48275.44	.03	-48326.61	48326.66	-.06
17	48216.65	48216.74	-.09	48268.05	48267.96	.09	48322.15	48322.19	-.03
18	48205.80	48205.82	-.02	48260.07	48260.05	.02	48317.16	48317.26	-.10
19	48194.52	48194.47	.05	48251.78	48251.68	.10	48312.09	48311.85	.23
20	48182.59	48182.68	-.09	48243.03	48242.85	.18	-48306.58	48306.09	.50
21	48170.39	48170.41	-.02	-48233.53	48233.65	-.12	-48299.77	48299.78	-.01
22	48157.81	48157.79	.02	48223.89	48223.92	-.03	48293.05	48292.84	.21
23	48144.58	48144.63	-.05	48212.99	48213.55	-.56	48285.92	48285.87	.05
24	48131.24	48130.85	.39	48203.28	48203.17	.12	48278.30	48278.26	.05
25	48116.91	48117.04	-.13	48192.20	48192.13	.06	48270.08	48270.16	-.08
26	-48102.47	48102.60	-.13	48180.76	48180.63	.13	48261.52	48261.62	-.10
27	-48087.51	48087.69	-.18	48168.69	48168.68	.02	48252.69	48252.72	-.02
28	-48072.30	48072.33	-.03	48156.37	48156.37	.00	48244.15	48243.21	.94
29	-48056.63	48056.62	.01	48143.33	48143.46	-.13	-48233.53	48233.28	.25
30	-48040.31	48040.32	-.01	48130.14	48130.14	.00	48222.96	-48222.87	.09
31	48023.60	48023.60	-.01	48116.31	-48116.30	.00	48211.87	-48211.91	-.05
32	48006.32	-48006.41	-.09	-48102.47	-48102.47	.00	48200.48	-48200.45	.03
33	47988.73	-47988.68	.05	-48087.51	-48087.51	-.00	48184.10	-48184.06	.04
34	47970.43	-47970.46	-.03	-48072.30	-48072.30	.00	48177.23	-48177.24	-.01
35	47947.28	-47947.33	-.05	-48056.63	-48056.64	-.00	48164.43	-48164.32	.12
36	47933.78	-47933.76	.02	-48040.31	-48040.31	-.00	48151.12	-48151.12	-.00
37	47913.99	-47914.11	-.12	-48027.97	-48027.97	.00	48137.39	-48137.50	-.10
38	47894.19	-47894.19	-.00	48007.89	-48007.89	.00	48123.29	-48123.33	-.05
39	47873.96	-47873.86	.10	47990.17	-47990.17	-.00	48107.96	-48107.96	-.00
40	47853.05	-47853.00	.05	47972.02	-47972.02	.00	48094.18	-48094.18	.00
41	0.00	-47830.94	0.00	-47953.72	-47953.72	.00	48078.32	-48078.32	-.00
42	0.00	-47810.49	0.00	47934.84	-47934.84	.00	48062.26	-48062.35	-.09
43	-47788.46	-47787.96	.50	47915.18	-47915.18	-.00	48045.61	-48045.61	-.00
44	47765.43	-47765.34	.09	-47896.12	-47896.12	-.00	-48027.97	-48029.02	-1.06
45	-47742.88	-47741.97	.91	47875.40	-47875.40	-.00	48014.45	-48015.16	-.71
46	-47719.82	-47718.76	1.06	-47854.62	-47854.62	.00	47993.66	-47993.66	-.00
47	47699.00	-47698.29	.71	0.00	-47833.57	0.00	47974.87	-47974.89	-.02
48	-47670.92	-47670.19	.73	0.00	-47811.51	0.00	47955.92	-47956.24	-.32
49	47644.86	-47644.84	.02	-47788.46	-47788.46	.00	47936.82	-47936.90	-.08
50	47619.93	-47619.62	.31	47766.91	-47766.91	.00	47916.63	-47916.72	-.09
51	47593.81	-47593.73	.08	-47742.88	-47742.88	.00	-47896.12	-47896.10	.02
52	47567.09	-47567.01	.08	-47719.82	-47719.82	.00	47876.83	-47876.28	.55
53	47539.86	-47539.86	.00	47697.54	-47697.54	.00	-47854.62	-47853.94	.68
54	47512.97	-47513.53	-.56	-47670.92	-47670.92	-.00	0.00	0.00	0.00
55	47484.70	-47484.70	.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 3. (Cont.)

X13 - A 5

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	45994.76	45994.87	-.11
1	0.00	0.00	0.00	45991.47	45991.48	-.01	45997.72	45997.50	.22
2	45984.74	45984.70	.04	45990.71	45990.72	-.01	45999.75	45999.67	.08
3	-45980.23	45980.55	-.32	-45989.52	45989.50	.02	-46001.72	46001.36	.36
4	45975.93	45975.94	-.01	45987.75	45987.80	-.05	-46002.80	46002.67	.13
5	45970.76	45970.85	-.09	-45985.73	45985.72	.01	-46003.78	46003.57	.21
6	45965.40	45965.38	.02	45983.19	45983.23	-.04	-46004.22	46004.07	.15
7	-45959.56	45959.51	.05	-45980.23	45980.35	-.12	-46004.22	46004.14	.08
8	45953.13	45953.24	-.11	-45976.92	45977.03	-.11	-46003.78	46003.74	.04
9	45946.48	45946.54	-.06	45973.22	45973.25	-.03	-46002.80	46003.00	-.20
10	45939.36	45939.37	-.01	45969.13	45969.12	.01	-46001.72	46001.77	-.05
11	45931.90	45931.86	.04	45964.51	45964.51	.00	46000.22	46000.16	.06
12	45923.91	45923.87	.04	-45959.56	45959.52	.04	45998.21	45998.15	.06
13	45915.45	45915.50	-.05	-45954.43	45954.13	.30	45995.71	45995.70	.01
14	45906.71	45906.73	-.02	45948.36	45948.30	.06	45992.83	45992.86	-.03
15	45897.49	45897.53	-.04	45942.14	45942.09	.05	-45989.52	45989.55	-.03
16	-45888.07	45887.95	.12	45935.35	45935.41	-.06	-45985.73	45985.85	-.12
17	45877.91	45877.89	.02	45928.36	45928.33	.03	45981.58	45981.68	-.10
18	-45867.35	45867.45	-.10	45920.93	45920.80	.13	-45976.92	45977.08	-.16
19	-45856.31	45856.55	-.24	45912.82	45912.83	-.01	45972.07	45972.07	-.00
20	-45845.29	45845.23	.06	45904.47	45904.47	.00	45966.57	45966.70	-.13
21	-45833.56	45833.50	.06	45895.72	45895.73	-.01	45960.93	45960.85	.08
22	45821.31	45821.40	-.09	45886.53	45886.52	.01	-45954.43	45954.59	-.16
23	-45808.80	45808.84	-.04	-45876.83	45876.91	-.08	45947.75	45947.85	-.10
24	45795.64	45795.89	-.25	45866.78	45866.83	-.05	45940.58	45940.74	-.16
25	45782.42	45782.45	-.03	-45856.31	45856.36	-.05	45933.10	45933.14	-.04
26	45768.60	45768.65	-.05	-45845.29	45845.43	-.14	45924.98	45925.14	-.16
27	45754.26	45754.37	-.11	-45833.56	45834.08	-.52	45916.55	45916.50	.05
28	45739.63	45739.70	-.07	-45822.15	45822.12	.03	45907.91	45907.87	.04
29	45724.49	45724.40	.09	45810.12	45810.15	-.03	45898.34	45898.00	.34
30	45709.18	45709.10	.08	45797.20	45796.95	.25	-45888.07	-45888.43	-.36
31	45692.99	45692.58	.41	45783.20	-45783.20	-.00	-45876.83	-45876.68	.15
32	45676.38	-45676.38	.00	45769.48	-45769.48	.00	-45867.35	-45867.45	-.10
33	45658.00	-45658.00	-.00	45757.31	-45757.31	-.00	45858.39	-45858.46	-.07
34	45642.15	-45642.15	.00	45742.56	-45742.56	.00	-45845.29	-45845.55	-.26
35	45626.62	-45626.55	.07	45727.23	-45727.23	.00	45834.36	-45834.61	-.25
36	45607.03	-45607.03	-.00	45712.92	-45712.92	-.00	-45822.15	-45821.88	.27
37	45589.75	-45589.51	.24	45698.02	-45698.02	.00	-45808.80	-45808.74	.06
38	45570.20	-45570.20	.00	45681.33	-45681.33	-.00	45794.29	-45794.77	-.48
39	45550.49	-45550.49	.00	45664.58	-45664.58	.00	45781.35	-45781.54	-.19
40	45530.45	-45529.96	.48	45647.52	-45647.52	-.00	45767.09	-45767.22	-.13
41	45510.36	-45510.18	.18	45630.03	-45630.03	-.00	45752.36	-45752.58	-.22
42	45489.47	-45489.34	.13	45612.04	-45612.04	.00	45737.21	-45737.58	-.37
43	45468.39	-45468.18	.21	45593.59	-45593.60	-.00	45721.69	-45721.62	.07
44	45447.04	-45446.66	.38	45574.23	-45574.23	-.00	45705.50	-45705.82	-.32
45	45424.12	-45424.20	-.08	45555.39	-45555.39	-.00	45689.06	-45689.37	-.31
46	45402.25	-45401.93	.32	45535.48	-45535.48	-.00	45671.87	-45672.09	-.22
47	45379.32	-45379.01	.31	45515.02	-45515.02	-.00	45654.30	-45654.45	-.15
48	45355.48	-45355.27	.21	45495.83	-45495.83	-.00	45636.37	-45636.53	-.16
49	45331.34	-45331.19	.15	45474.40	-45474.40	-.00	45617.86	-45617.94	-.08
50	45306.99	-45306.84	.15	45452.30	-45452.30	.00	45599.42	-45599.44	-.02
51	45281.90	-45281.83	.07	45430.13	-45430.12	.00	45579.83	-45579.77	.05
52	45256.95	-45256.93	.01	45407.05	-45407.04	.00	45560.51	-45560.18	.33
53	45230.83	-45230.89	-.06	0.00	-45384.15	0.00	0.00	-45539.44	0.00
54	45204.60	-45204.93	-.33	0.00	-45360.22	0.00	0.00	-45518.74	0.00
55	45177.83	-45177.83	.00	0.00	-45336.35	0.00	0.00	-45497.67	0.00
56	0.00	-45150.80	0.00	45312.11	-45312.12	-.00	0.00	-45475.59	0.00
57	0.00	-45123.41	0.00	0.00	-45286.88	0.00	0.00	-45452.79	0.00
58	0.00	-45095.02	0.00	45260.92	-45260.93	-.00	0.00	-45430.76	0.00
59	0.00	-45065.93	0.00	45235.76	-45235.76	.00	0.00	-45407.13	0.00
60	0.00	-45037.63	0.00	0.00	-45209.00	0.00	0.00	-45383.02	0.00
61	0.00	-45007.75	0.00	45181.77	-45181.77	-.00	0.00	-45358.52	0.00
62	0.00	-44977.41	0.00	45154.16	-45154.16	.00	0.00	0.00	0.00

Table 3. (Cont.)

X15 - A 6

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43718.70	0.00
1	0.00	0.00	0.00	0.00	43715.38	0.00	0.00	43721.19	0.00
2	0.00	43708.74	0.00	0.00	43714.55	0.00	0.00	43723.34	0.00
3	0.00	43704.59	0.00	0.00	43713.38	0.00	0.00	43725.05	0.00
4	0.00	43700.10	0.00	0.00	43711.77	0.00	0.00	43726.05	0.00
5	0.00	43695.17	0.00	0.00	43709.45	0.00	0.00	43727.01	0.00
6	0.00	43689.54	0.00	0.00	43707.10	0.00	0.00	43730.96	0.00
7	0.00	43683.86	0.00	0.00	43707.72	0.00	0.00	43728.55	0.00
8	0.00	43681.17	0.00	0.00	43702.00	0.00	0.00	43727.84	0.00
9	0.00	43672.14	0.00	0.00	43697.83	0.00	0.00	43726.77	0.00
10	0.00	43664.80	0.00	0.00	43693.17	0.00	0.00	43725.20	0.00
11	0.00	43657.10	0.00	0.00	43692.24	0.00	0.00	43722.86	0.00
12	0.00	43648.90	0.00	0.00	43684.57	0.00	0.00	43734.09	0.00
13	0.00	43639.94	0.00	0.00	43677.56	0.00	0.00	43726.98	0.00
14	0.00	43644.57	0.00	0.00	43679.79	0.00	0.00	43721.80	0.00
15	0.00	43630.84	0.00	0.00	43671.08	0.00	0.00	43717.92	0.00
16	0.00	43619.05	0.00	0.00	43666.85	0.00	0.00	43714.02	0.00
17	43608.64	43608.57	.07	43658.01	43658.03	-.02	43709.86	43709.94	-.08
18	43598.14	43598.07	.07	43650.48	43650.32	.16	43705.47	43705.53	-.06
19	43587.34	43587.40	-.06	43642.57	43642.61	-.04	43700.73	43700.75	-.02
20	43576.34	43576.40	-.06	43634.60	43634.54	.06	43695.57	43695.62	-.05
21	43564.99	43565.04	-.05	43626.08	43626.12	-.04	43690.26	43690.16	.10
22	43553.30	43553.33	-.03	43617.31	43617.37	-.06	43684.03	43684.20	-.17
23	43541.10	43541.30	-.20	43608.07	43608.13	-.06	43677.79	43677.94	-.15
24	43528.44	43528.78	-.34	43598.64	43598.59	.05	43671.12	43671.17	-.05
25	43516.01	43515.97	.04	43588.57	43588.57	.00	43664.11	43664.16	-.05
26	43502.70	43502.65	.05	43578.17	43578.17	.00	43656.58	43656.61	-.03
27	43489.15	43489.09	.05	43567.27	43567.27	-.00	43648.75	43648.73	.02
28	43475.05	43475.01	.04	43556.16	43556.16	-.00	43640.08	43640.26	-.18
29	43460.59	43460.61	-.02	43544.42	43544.42	-.00	43631.52	43631.61	-.09
30	43445.80	43445.62	.18	43533.70	43533.70	-.00	43622.45	43622.51	-.06
31	43430.55	43430.46	.09	43520.57	43520.57	-.00	43612.92	43612.94	-.02
32	43414.94	43414.87	.07	43507.45	43507.45	.00	43602.71	43602.88	-.17
33	43398.83	43398.81	.02	43494.29	43494.30	-.00	43592.42	43592.54	-.12
34	43382.42	43382.26	.16	43480.59	43480.60	-.00	43581.59	43581.66	-.07
35	43365.57	43365.45	.13	43466.43	43466.43	-.00	43570.32	43570.46	-.14
36	43348.19	43348.11	.08	43452.02	43452.02	-.00	43558.49	43558.76	-.27
37	43330.59	43330.46	.13	43437.15	43437.15	-.00	43546.42	43546.56	-.14
38	43312.61	43312.33	.28	43421.78	43421.79	-.00	43533.70	43534.21	-.51
39	43293.84	43293.70	.14	43406.06	43406.07	-.00	43520.57	43521.47	-.90
40	43274.93	43274.92	.00	43389.87	43389.86	.00	43507.45	43507.65	-.20
41	43255.78	43255.78	-.00	43373.21	43373.21	-.00	43493.57	43493.57	.00
42	43235.78	43235.57	.20	43356.22	43356.22	-.00	43479.20	43479.19	.00
43	43214.78	43215.11	-.33	43338.68	43338.68	-.00	43464.51	43464.50	.01
44	43194.36	43194.37	-.01	43320.56	43320.56	.00	43449.21	43449.21	.00
45	43173.30	43173.32	-.01	43302.98	43302.99	-.00	43433.27	43433.41	-.13
46	43151.57	43151.68	-.11	43283.77	43283.77	.00	43417.89	43417.90	-.00
47	43129.68	43129.55	.13	43264.55	43264.56	-.00	43401.38	43401.43	-.05
48	0.00	43107.72	0.00	43244.93	43244.92	.00	43384.15	43384.15	-.00
49	43085.01	43084.95	.06	43223.78	43223.77	.00	43367.17	43367.17	-.00
50	0.00	43061.39	0.00	43203.93	43203.93	-.00	0.00	43349.21	0.00
51	0.00	43038.14	0.00	43183.13	43183.13	-.00	0.00	43330.44	0.00
52	0.00	43013.92	0.00	43161.22	43161.23	-.00	0.00	43312.74	0.00
53	0.00	42988.90	0.00	43140.41	43140.41	-.00	0.00	43292.54	0.00
54	0.00	42964.97	0.00	43117.11	43117.10	.00	0.00	43272.77	0.00
55	0.00	42938.57	0.00	43094.24	43094.24	.00	0.00	43253.48	0.00
56	0.00	42912.60	0.00	43071.84	43071.84	.00	0.00	0.00	0.00

Table 3. (Cont.)

X16 - A 7

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	43238.91	43240.02	-1.10
1	0.00	0.00	0.00	-43235.78	43236.73	-.95	43242.32	43242.43	-.11
2	-43228.70	43230.16	-1.46	43234.81	43235.86	-1.05	43244.46	43244.52	-.06
3	-43225.76	43226.00	-.24	-43234.33	43234.66	-.34	43246.20	43246.16	.03
4	-43221.77	43221.52	.24	43233.06	43233.02	.03	-43247.69	43247.34	.34
5	-43216.80	43216.60	.20	43231.11	43230.92	.19	-43248.57	43248.22	.35
6	-43211.53	43211.21	.31	-43228.70	43228.51	.19	-43248.87	43248.67	.19
7	-43205.44	43205.52	-.08	-43225.76	43225.68	.08	-43248.87	43248.70	.16
8	-43199.52	43199.41	.11	43222.56	43222.43	.12	-43248.57	43248.38	.18
9	-43193.00	43192.88	.12	43218.82	43218.83	-.01	-43247.69	43247.55	.14
10	-43185.94	43186.00	-.07	-43214.78	43214.72	.06	43246.44	43246.37	.07
11	43178.70	43178.61	.09	43210.26	43210.26	-.01	-43244.93	43244.78	.14
12	-43170.94	43170.88	.06	-43205.44	43205.40	.04	43242.83	43242.73	.10
13	43162.72	43162.74	-.02	43200.14	43200.07	.07	43240.34	43240.35	-.01
14	43154.29	43154.15	.14	-43194.36	43194.43	-.07	43237.59	43237.48	.12
15	43145.34	43145.23	.11	43188.23	43188.28	-.04	-43234.33	43234.20	.13
16	43135.90	43135.81	.09	43181.86	43181.73	.13	43230.44	43230.54	-.10
17	43126.03	43126.00	.03	43174.84	43174.81	.03	43226.53	43226.48	.05
18	43115.87	43115.82	.05	43167.38	43167.49	-.11	-43221.77	43221.94	-.17
19	43105.28	43105.23	.05	43159.66	43159.68	-.03	-43216.80	43216.99	-.19
20	-43094.24	43094.17	.07	-43151.57	43151.48	.09	-43211.53	43211.66	-.13
21	43082.77	43082.71	.05	43142.99	43142.89	.10	43205.85	43205.86	-.01
22	43070.98	43070.87	.11	43133.86	43133.84	.01	-43199.52	43199.64	-.12
23	43058.70	43058.58	.13	-43124.49	43124.38	.11	-43193.00	43193.06	-.06
24	43046.01	43045.87	.15	-43114.64	43114.55	.09	-43185.94	43185.95	-.01
25	43032.79	43032.80	-.00	43104.32	43104.20	.12	43177.51	43177.40	.12
26	43019.27	43019.21	.06	43093.55	43093.57	-.02	-43170.94	43170.72	.22
27	43004.22	43004.18	.03	43082.23	43082.49	-.27	43162.40	43162.03	.37
28	42991.23	42991.04	.19	43070.53	43070.58	-.06	43153.83	-43153.71	.12
29	42976.27	42975.90	.37	43056.28	-43056.27	.00	43144.50	-43144.46	.03
30	42961.02	-42961.13	-.11	43046.88	-43046.88	-.00	43134.72	-43134.72	-.01
31	42945.41	-42945.45	-.04	43033.94	-43033.95	-.00	-43124.49	-43124.15	.34
32	42929.29	-42929.28	.01	43020.48	-43020.48	.00	-43114.64	-43114.47	.17
33	42912.28	-42912.28	-.00	43006.11	-43006.10	.00	43103.24	-43103.24	-.00
34	42896.19	-42896.20	-.00	42993.00	-42993.00	.00	43091.26	-43091.24	.02
35	42878.57	-42878.57	-.00	42978.10	-42978.10	-.00	43081.52	-43081.51	.01
36	42860.14	-42860.17	-.03	42963.50	-42963.50	-.00	43068.36	-43068.35	.01
37	42844.05	-42844.06	-.01	42947.56	-42947.56	-.00	43055.17	-43055.11	.05
38	42824.53	-42824.54	-.01	42930.21	-42930.21	-.00	43045.66	-43045.67	-.00
39	42804.89	-42804.94	-.05	42918.70	-42918.70	.00	43029.23	-43029.23	-.00
40	-42788.81	-42789.15	-.33	42899.39	-42899.39	.00	43014.90	-43014.90	.00
41	0.00	-42766.38	0.00	42881.61	-42881.62	-.00	42999.10	-42999.10	.00
42	0.00	-42745.72	0.00	42861.94	-42861.94	-.00	42986.31	-42986.31	.00
43	0.00	-42723.61	0.00	42846.92	-42846.92	.00	42970.47	-42970.47	.00
44	0.00	-42704.52	0.00	42828.00	-42828.00	.00	42954.46	-42954.45	.00
45	0.00	-42682.40	0.00	42808.84	-42808.84	-.00	42938.19	-42938.19	.00
46	0.00	-42660.11	0.00	-42788.81	-42788.81	.00	42922.05	-42922.05	.00

Table 3. (Cont.)

X17 - A 8

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	42751.46	42751.52	-.05
1	0.00	0.00	0.00	42747.62	42748.27	-.65	42753.87	42753.96	-.09
2	-42739.99	42741.77	-1.78	-42746.40	42747.46	-1.06	42756.10	42755.96	.14
3	42736.84	42737.71	-.86	42745.60	42746.21	-.60	-42757.95	42757.48	.48
4	-42732.82	42733.21	-.39	42744.31	42744.48	-.17	-42759.19	42758.64	.55
5	42728.17	42728.23	-.06	42742.34	42742.39	-.04	-42759.71	42759.34	.37
6	42722.84	42727.89	-.05	-42739.99	42739.84	.15	-42759.71	42759.60	.11
7	42717.12	42717.09	.02	-42736.84	42736.85	-.01	-42759.71	42759.48	.22
8	42711.04	42710.86	.17	42733.45	42733.49	-.04	-42759.19	42758.88	.31
9	-42704.24	42704.26	-.02	42729.69	42729.65	.04	-42757.95	42757.92	.04
10	42697.76	42697.17	.60	42725.46	42725.44	.02	42756.46	42756.51	-.05
11	42689.83	42689.71	.11	42720.81	42720.78	.02	42754.71	42754.66	.05
12	42681.94	42681.82	.12	42715.73	42715.70	.03	42752.43	42752.38	.05
13	42673.66	42673.50	.16	42710.18	42710.18	.00	42749.73	42749.69	.04
14	42664.73	42664.74	-.01	-42704.24	42704.25	-.01	-42746.40	42746.53	-.13
15	42655.73	42655.57	.16	42697.24	42697.68	-.44	42742.99	42742.86	.13
16	42645.85	42645.94	-.09	42693.53	42693.43	.10	42738.86	42738.65	.20
17	42635.85	42635.82	.04	-42684.28	42686.63	-2.34	-42732.82	42732.75	.07
18	42625.22	42625.15	.07	42676.55	42676.51	.04	42730.61	42730.69	-.08
19	42612.86	42612.79	.07	42668.31	42668.38	-.07	42724.79	42724.91	-.12
20	42604.26	42604.29	-.03	-42659.45	42660.10	-.65	42719.15	42719.09	.06
21	42591.96	42592.06	-.11	42652.16	42651.05	1.11	42712.93	42712.84	.09
22	-42579.85	42579.81	.04	42641.76	42641.60	.17	42705.96	42705.96	.01
23	42567.16	42567.13	.02	42631.53	42631.49	.03	42702.22	42702.18	.03
24	42553.78	42553.82	-.04	42624.61	42624.51	.10	42692.59	42692.52	.07
25	42543.26	42543.63	-.38	42611.08	42611.64	-.56	-42684.28	-42684.19	.09
26	42527.57	42527.56	.00	42600.15	-42600.15	-.00	42674.79	-42674.78	.00
27	42512.84	-42512.83	.00	42587.62	-42587.62	-.00	42670.28	-42670.17	.11
28	-42497.14	-42497.03	.11	-42579.85	-42579.85	-.00	-42659.45	-42659.35	.10
29	42485.92	-42486.03	-.11	42565.66	-42565.66	-.00	-42648.04	-42648.04	-.00
30	42468.83	-42468.83	-.00	42550.58	-42550.58	-.00	42639.08	-42639.08	-.00
31	0.00	-42451.16	0.00	42538.98	-42538.98	-.00	42628.59	-42628.59	-.00
32	0.00	-42435.84	0.00	42525.19	-42525.18	.00	-42617.67	-42617.67	.00
33	0.00	-42419.00	0.00	42510.64	-42510.64	.00	42605.45	-42605.45	.00
34	0.00	-42401.74	0.00	-42497.14	-42497.14	-.00	42594.09	-42594.09	.00
35	0.00	-42383.18	0.00	42481.69	-42481.68	.00	42581.49	-42581.49	-.00
36	0.00	-42365.50	0.00	42465.99	-42465.98	.00	42568.62	-42568.62	-.00
37	0.00	-42346.60	0.00	0.00	-42449.60	0.00	42555.21	-42555.21	-.00

X19 - A 9

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-40575.52	40575.99	-.46
1	0.00	0.00	0.00	0.00	40572.81	0.00	-40578.04	40578.33	-.29
2	-40567.15	40566.44	.70	-40572.63	40571.96	.67	-40580.01	40580.26	-.25
3	40563.13	40562.42	.70	40571.27	40570.72	.55	-40581.66	40581.89	-.23
4	40558.15	40558.00	.15	-40569.21	40569.17	.04	-40582.84	40583.03	-.20
5	40553.36	40553.27	.09	-40567.15	40567.13	.01	-40583.80	40583.85	-.05
6	40548.09	40548.05	.04	40564.68	40564.77	-.09	-40584.28	40584.19	.09
7	40542.62	40542.52	.10	-40561.89	40561.94	-.05	-40584.28	40584.16	.13
8	-40536.56	40536.50	.06	40558.71	40558.72	-.02	-40583.80	40583.72	.08
9	40530.16	40530.12	.04	40555.14	40555.12	.02	-40582.84	40582.95	-.11
10	40523.35	40523.33	.02	40551.03	40551.16	-.14	-40581.66	40581.66	-.00
11	40516.09	40516.21	-.12	-40546.57	40546.71	-.14	-40580.01	40580.03	-.02
12	40508.56	40508.58	-.02	40541.99	40541.90	.08	-40578.04	40577.99	.04
13	40500.64	40500.61	.03	-40536.56	40536.70	-.14	40575.52	40575.52	.01
14	40492.32	40492.24	.09	40531.09	40531.06	.03	-40572.63	40572.67	-.04
15	40483.49	40483.43	.06	40525.01	40525.04	-.03	-40569.21	40569.43	-.22
16	40474.23	40474.25	-.02	40518.57	40518.64	-.07	40565.75	40565.78	-.03
17	40464.66	40464.69	-.03	40511.78	40511.83	-.05	-40561.89	40561.68	.21
18	40454.80	40454.72	.07	40504.57	40504.57	.00	40557.22	40557.22	-.00
19	40444.30	40444.31	-.01	40497.00	40496.96	.04	40552.31	40552.32	-.01
20	40433.58	40433.54	.04	-40488.96	40488.90	.06	-40546.57	40547.00	-.44
21	40422.38	40422.34	.05	-40480.52	40480.44	.09	40541.19	40541.27	-.08
22	40410.73	40410.72	.01	40471.59	40471.55	.04	40535.09	40535.11	-.03
23	40398.52	40398.70	-.18	40462.35	40462.26	.09	40528.56	40528.58	-.02
24	40386.26	40386.26	.00	40452.67	40452.58	.09	40521.71	40521.60	.11
25	40373.39	40373.45	-.06	40442.41	40442.47	-.06	40514.28	40514.25	.03
26	40360.51	40360.21	.31	40431.94	40431.99	-.05	40506.21	40506.41	-.20
27	40346.16	40346.59	-.44	40420.94	40421.01	-.07	40498.17	40498.09	.07
28	0.00	40332.50	0.00	40409.68	40409.58	.11	-40488.96	40489.80	-.84
29	0.00	40317.94	0.00	40397.54	40398.16	-.62	-40480.52	-40480.52	.00
30	0.00	40303.40	0.00	40385.79	-40385.79	-.00	40470.61	-40470.60	.00
31	0.00	-40287.90	0.00	40373.10	-40373.11	-.00	40460.71	-40460.71	.00
32	0.00	-40271.76	0.00	40359.97	-40359.97	.00	0.00	-40450.15	0.00
33	0.00	-40255.66	0.00	40346.08	-40346.08	-.00	0.00	0.00	0.00

Table 3. (Cont.)

X20 - A10

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	-40094.25	40094.21	0.04
1	0.00	0.00	0.00	40091.15	40091.07	.08	-40096.81	40096.59	.22
2	-40085.37	40084.77	.59	40090.28	40090.29	-.02	-40098.56	40098.42	.13
3	40080.85	40080.86	-.01	40089.04	40088.99	.05	-40100.01	40099.97	.04
4	-40076.62	40076.41	.21	40087.47	40087.39	.08	-40101.17	40101.06	.11
5	40071.83	40071.66	.17	-40085.37	40085.33	.04	-40101.73	40101.73	-.00
6	40066.30	40066.46	-.16	40082.89	40082.86	.03	40101.94	40102.00	-.06
7	40060.87	40060.85	.02	40079.88	40079.99	-.11	-40101.73	40101.80	-.07
8	-40054.80	40054.84	-.04	-40076.62	40076.65	-.03	-40101.17	40101.21	-.04
9	-40048.38	40048.35	.03	-40072.84	40072.91	-.07	-40101.17	40100.14	1.03
10	-40041.49	40041.48	.01	40068.69	40068.71	-.02	-40100.01	40098.71	1.30
11	40034.72	40034.14	.58	40064.18	40064.14	.04	-40096.81	40096.83	-.02
12	40027.24	40026.43	.81	40059.15	40059.12	.03	-40094.25	40094.47	-.22
13	-40018.42	40018.28	.14	40053.67	40053.72	-.05	40091.44	40091.62	-.18
14	40009.68	40009.66	.02	40047.92	40047.82	.10	40087.92	40087.83	.09
15	40000.62	40000.54	.08	-40041.49	40041.52	-.03	40086.52	40086.68	-.17
16	39990.47	39990.49	-.02	-40034.20	40034.65	-.45	40081.92	40081.91	.01
17	39983.15	39983.10	.06	-40026.42	40027.10	-.68	40078.16	40077.28	.88
18	39972.12	39972.08	.05	40017.49	40027.05	-9.55	-40072.84	40072.21	.63
19	39961.21	39961.20	.01	40014.63	40014.60	.04	40067.26	40066.12	1.14
20	39949.89	39949.89	-.00	40005.39	40005.40	-.01	40062.08	40060.57	1.51
21	39937.51	39937.57	-.06	39996.25	39996.33	-.07	-40054.80	40056.92	-2.12
22	39926.11	39925.79	.31	39986.81	39986.88	-.07	-40048.38	40049.65	-1.27
23	39913.01	39915.92	-2.91	39977.84	39977.79	.05	-40041.49	40042.58	-1.09
24	0.00	39902.44	0.00	39967.39	39967.31	.08	-40034.20	40035.01	-.81
25	0.00	39889.16	0.00	39956.87	39956.75	.11	-40026.42	40027.09	-.67
26	0.00	39875.40	0.00	39945.76	39945.74	.02	-40018.42	40018.59	-.17
27	0.00	39861.29	0.00	39934.15	39934.14	.01	40006.89	-40006.63	.26
28	0.00	39846.60	0.00	39922.73	-39920.46	2.27	0.00	-40000.98	0.00

X21 - A10

J	P(OBS)	P(CALC)	O-C	Q(OBS)	Q(CALC)	O-C	R(OBS)	R(CALC)	O-C
0	0.00	0.00	0.00	0.00	0.00	0.00	38465.71	38466.29	-.58
1	0.00	0.00	0.00	38463.25	38463.18	.07	38468.74	38468.70	.04
2	38457.07	38456.96	.11	-38462.75	38462.48	.27	38470.65	38470.61	.04
3	-38453.03	38453.15	-.12	38461.28	38461.28	.00	-38472.67	38472.26	.41
4	38448.96	38448.83	.13	38459.78	38459.81	-.03	-38473.81	38473.48	.33
5	38444.32	38444.26	.06	38457.91	38457.93	-.02	-38473.81	38474.33	-.52
6	38439.40	38439.27	.13	-38455.63	38455.67	-.04	-38474.65	38474.81	-.16
7	-38433.87	38433.90	-.03	-38453.03	38453.04	-.01	-38474.65	38474.85	-.20
8	38428.21	38428.17	.04	38449.97	38449.98	-.01	-38474.65	38474.54	.11
9	38421.94	38422.00	-.06	-38446.51	38446.56	-.05	-38473.81	38473.79	.02
10	38415.35	38415.48	-.13	38442.69	38442.71	-.02	-38472.67	38472.71	-.04
11	38408.42	38408.52	-.10	38438.50	38438.52	-.02	38471.05	38471.21	-.16
12	38401.20	38401.23	-.03	-38433.87	38433.92	-.05	38469.26	38469.27	-.01
13	-38393.36	38393.53	-.17	-38428.92	38428.97	-.05	38466.82	38466.87	-.05
14	38385.31	38385.40	-.09	-38423.59	38423.56	.03	38464.60	38463.57	1.03
15	-38376.48	38376.81	-.33	-38417.67	38417.79	-.12	-38462.75	38462.95	-.20
16	-38367.35	38367.32	.03	38411.35	38411.48	-.13	38458.65	38458.74	-.09
17	-38360.39	38360.51	-.12	38404.56	38404.51	.05	-38455.63	38454.69	.94
18	-38349.87	38350.12	-.25	38395.45	38405.09	-9.64	38451.51	38450.25	1.26
19	-38339.97	38339.91	.06	-38393.36	38393.31	.05	-38446.51	38444.83	1.68
20	38329.31	38329.30	.01	38384.82	38384.81	.01	38441.30	38439.98	1.32
21	38317.40	38317.71	-.31	-38376.48	38376.47	.01	38435.01	38437.06	-2.05
22	38305.74	38306.70	-.96	-38367.35	38367.79	-.44	-38428.92	38430.56	-1.64
23	0.00	38297.63	0.00	-38360.39	38359.50	.89	-38423.59	38424.29	-.70
24	0.00	38284.99	0.00	-38349.87	38349.86	.01	-38417.67	38417.56	.11
25	0.00	38272.59	0.00	-38339.97	38340.18	-.21	38409.70	38410.52	-.82
26	0.00	38259.73	0.00	38329.99	38330.07	-.08	38401.96	38402.92	-.96
27	0.00	38246.56	0.00	38319.51	38319.41	.10	38391.90	-38391.90	-.00
28	0.00	38232.85	0.00	38306.71	-38306.71	.00	38387.23	-38387.23	.00
29	0.00	-38215.73	0.00	38297.63	-38297.63	.00	38379.10	-38379.10	.00
30	0.00	-38204.96	0.00	38285.85	-38285.85	.00	38369.33	-38369.33	.00
31	0.00	-38190.74	0.00	38273.49	-38273.49	.00	-38360.39	-38360.39	.00
32	0.00	-38174.89	0.00	38262.12	-38262.12	.00	-38349.87	-38349.87	.00
33	0.00	-38159.88	0.00	38248.77	-38248.77	.00	-38339.97	-38339.97	.00
34	0.00	-38143.30	0.00	38234.66	-38234.66	.00	0.00	0.00	0.00

Table 4. Energy levels for the A¹Π state. Levels preceded by a minus sign are uncertain. A suffix B indicates that the level was derived from blends and the single digit indicates the number of lines used in the derivation. The levels not preceded by a minus sign are derived from Simmons, Bass, and Tilford (1969). The levels suffixed by a G are derived from Gero (1936). The higher J levels are extrapolated using the rotational constants given in Table 5.

J	A 0C	A 0D	A 1C	A 1D	A 2C	A 2D	A 3C	A 3D
1	64747.94 4	64747.99 1	66236.14 3	66236.14 3	67678.77 3	67678.77 3	69091.56 2	69091.56 2
2	64754.37 1	64754.32 1	66242.32 3	66242.32 3	67685.04 3	67685.04 3	69097.61 2	69097.61 2
3	64763.89 2	64763.91 2	66251.39 2	66251.39 2	67694.36 3	67694.36 3	69106.89 2	69106.89 2
4	64776.62 1	64776.63 2	66263.68 2	66263.68 2	67707.00 2	67707.00 2	69119.07 2	69119.07 2
5	64792.45 3	64792.56 2	66279.21 2	66279.21 2	67722.38 1	67722.38 1	69134.44 1	69134.44 1
6	64811.50 1	64811.74 2	66297.83 2	66297.83 2	67741.11 3	67741.11 3	69152.88 2	69152.88 2
7	64833.36 3	64833.85 2	66319.74 2	66319.74 2	67762.79 3	67762.79 3	69174.33 2	69174.33 2
8	64857.92 3	64859.17 1	66344.57 3	66344.57 3	67787.74 3	67787.74 3	69198.87 1	69198.87 1
9	64884.26 4	64887.55 2	66372.80 3	66372.80 3	67815.80 3	67815.80 3	69226.44 2	69226.44 2
10	64925.06 3	64918.76 2	66404.08 3	66404.08 3	67846.91 3	67846.91 3	69257.00 2	69257.00 2
11	64958.66 3	64952.50 2	66438.68 3	66438.68 3	67881.14 1	67881.14 1	69290.86 3	69290.86 3
12	64996.28 3	64987.97 2	66476.36 3	66476.36 3	67918.53 2	67918.53 2	69327.65 2	69327.65 2
13	65037.33 2	65043.36 2	66517.23 3	66517.23 3	67958.92 2	67958.92 2	69367.47 3	69367.47 3
14	65081.55 2	65086.14 2	66561.33 3	66561.33 3	68002.45 1	68002.45 1	69410.31 2	69410.31 2
15	65128.48 4	65132.99 2	66608.55 3	66608.55 3	68049.05 2	68049.05 2	69456.30 2	69456.30 2
16	65177.35 4	65183.54 2	66658.89 2	66658.89 2	68098.81 3	68098.81 3	69505.24 2	69505.24 2
17	65240.13 3	65237.52 2	66712.43 2	66712.43 2	68151.60 3	68151.60 3	69557.28 2	69557.28 2
18	65296.00 4	65294.76 2	66769.13 1	66769.13 1	68207.50 2	68207.50 2	69612.40 3	69612.40 3
19	65355.93 3	65355.27 2	66828.93 3	66828.93 3	68266.47 2	68266.47 2	69670.45 3	69670.45 3
20	65419.39 2	65418.94 2	66891.89 3	66891.89 3	68328.52 2	68328.52 2	69731.61 2	69731.61 2
21	65486.21 2	65485.92 1	66957.94 2	66958.05 1	68393.58 1	68393.68 1	69795.77 3	69795.77 3
22	65556.25 2	65556.07 2	67027.19 2	67026.98 1	68461.70 2	68461.84 1	69862.98 3	69862.98 3
23	65629.47 1	65629.35 2	67099.40 2	67098.96 1	68532.82 2	68533.04 1	69933.18 3	69933.18 3
24	65705.80 1	65705.78 2	67174.71 2	67175.21 1	68606.68 2	68607.36 1	70006.40 3	70006.40 3
25	65785.26 1	65785.26 2	67252.89 2	67253.32 1	68681.74 2	68684.59 1	70082.63 3	70082.63 3
26	65867.69 1	65867.70 1	67332.69 2	67335.72 1	68767.21 2	68764.77 1	70161.96 3	70161.96 3
27	65952.05 1	65950.98 1	67420.14 1	67420.14 1	68849.89 2	68847.58 1	70244.04 2	70244.04 2
28	66043.19 1	66043.19 1	67507.83 1	67507.83 1	68936.11 2	68931.56 1	70329.35 2	70327.86 1
29	66134.51 1	66134.51 1	67601.44 1	67601.44 1	69025.58 2	69029.13 1	70417.41 2	70418.18 1
30	-66232.05	-66232.05	67693.05 1	67693.05 1	69117.82 1	69119.99 1	70509.21 1	70509.21 1
31	-66330.63	-66330.63	-67790.08	-67790.08	69214.99 1	69214.99 1	-70603.37	-70603.37
32	-66432.34	-66432.34	-67890.31	-67890.31	69313.51 1	69313.51 1	-70700.60	-70700.60
33	-66537.16	-66537.16	-67993.62	-67993.62	-69414.70	-69414.70	-70800.81	-70800.81
34	-66645.09	-66645.09	-68099.99	-68099.99	-69519.48	-69519.48	-70903.98	-70903.98
35	-66756.13	-66756.13	-68209.41	-68209.41	-69627.26	-69627.26	-71010.11	-71010.11
36	-66870.26	-66870.26	-68321.88	-68321.88	-69738.04	-69738.04	-71119.19	-71119.19
37	-66987.48	-66987.48	-68437.40	-68437.40	-69851.82	-69851.82	-71231.22	-71231.22
38	-67107.78	-67107.78	-68555.95	-68555.95	-69968.59	-69968.59	-71346.19	-71346.19
39	-67231.17	-67231.17	-68677.54	-68677.54	-70088.34	-70088.34	-71464.09	-71464.09
40	-67357.62	-67357.62	-68802.14	-68802.14	-70211.06	-70211.06	-71584.92	-71584.92
41	-67487.14	-67487.14	-68929.77	-68929.77	-70336.75	-70336.75	-71708.66	-71708.66
42	-67619.71	-67619.71	-69060.40	-69060.40	-70465.41	-70465.41	-71835.32	-71835.32
43	-67755.33	-67755.33	-69194.03	-69194.03	-70597.01	-70597.01	-71964.88	-71964.88
44	-67893.99	-67893.99	-69330.66	-69330.66	-70731.56	-70731.56	-72097.33	-72097.33
45	-68035.69	-68035.69	-69470.27	-69470.27	-70869.04	-70869.04	-72232.67	-72232.67
46	-68180.41	-68180.41	-69612.85	-69612.85	-71009.45	-71009.45	-72370.89	-72370.89
47	-68328.14	-68328.14	-69758.41	-69758.41	-71152.79	-71152.79	-72511.98	-72511.98
48	-68478.89	-68478.89	-69906.93	-69906.93	-71299.03	-71299.03	-72655.93	-72655.93
49	-68632.64	-68632.64	-70058.40	-70058.40	-71448.17	-71448.17	-72802.73	-72802.73
50	-68789.38	-68789.38	-70212.81	-70212.81	-71600.21	-71600.21	-72952.38	-72952.38
51	-68949.10	-68949.10	-70370.15	-70370.15	-71755.14	-71755.14	-73104.86	-73104.86
52	-69111.79	-69111.79	-70530.42	-70530.42	-71912.93	-71912.93	-73260.16	-73260.16
53	-69277.45	-69277.45	-70693.61	-70693.61	-72073.60	-72073.60	-73418.28	-73418.28
54	-69446.06	-69446.06	-70859.70	-70859.70	-72237.12	-72237.12	-73579.20	-73579.20
55	-69617.62	-69617.62	-71028.69	-71028.69	-72403.49	-72403.49	-73742.92	-73742.92
56	-69792.12	-69792.12	-71200.57	-71200.57	-72572.69	-72572.69	-73909.42	-73909.42
57	-69969.54	-69969.54	-71375.32	-71375.32	-72744.72	-72744.72	-74078.70	-74078.70
58	-70149.88	-70149.88	-71552.94	-71552.94	-72919.56	-72919.56	-74250.74	-74250.74
59	-70333.12	-70333.12	-71733.41	-71733.41	-73097.21	-73097.21	-74425.53	-74425.53
60	-70519.26	-70519.26	-71916.73	-71916.73	-73277.65	-73277.65	-74603.07	-74603.07
61	-70708.28	-70708.28	-72102.89	-72102.89	-73460.88	-73460.88	-74783.34	-74783.34
62	-70900.17	-70900.17	-72291.87	-72291.87	-73646.88	-73646.88	-74966.32	-74966.32
63	-71094.93	-71094.93	-72483.66	-72483.66	-73835.64	-73835.64	-75152.02	-75152.02
64	-71292.54	-71292.54	-72678.25	-72678.25	-74027.14	-74027.14	-75340.41	-75340.41
65	-71492.99	-71492.99	-72875.63	-72875.63	-74221.39	-74221.39	-75531.48	-75531.48

Table 4. (Cont.)

J	A 0C	A 0D	A 1C	A 1D	A 2C	A 2D	A 3C	A 3D
66	-71696.27	-71696.27	-73075.79	-73075.79	-74418.36	-74418.36	-75725.23	-75725.23
67	-71902.36	-71902.36	-73278.71	-73278.71	-74618.05	-74618.05	-75921.64	-75921.64
68	-72111.26	-72111.26	-73484.39	-73484.39	-74820.44	-74820.44	-76120.70	-76120.70
69	-72322.96	-72322.96	-73692.81	-73692.81	-75025.52	-75025.52	-76322.39	-76322.39
70	-72537.43	-72537.43	-73903.86	-73903.86	-75233.27	-75233.27	-76526.71	-76526.71
71	-72754.67	-72754.67	-74117.83	-74117.83	-75443.69	-75443.69	-76733.63	-76733.63
72	-72974.67	-72974.67	-74334.40	-74334.40	-75656.76	-75656.76	-76943.15	-76943.15
73	-73197.41	-73197.41	-74553.66	-74553.66	-75872.46	-75872.46	-77155.26	-77155.26
74	-73422.88	-73422.88	-74775.60	-74775.60	-76090.80	-76090.80	-77369.93	-77369.93
75	-73651.07	-73651.07	-75000.21	-75000.21	-76311.74	-76311.74	-77587.16	-77587.16
76	-73881.96	-73881.96	-75227.47	-75227.47	-76535.28	-76535.28	-77806.93	-77806.93
77	-74115.54	-74115.54	-75457.36	-75457.36	-76761.40	-76761.40	-78029.23	-78029.23
78	-74351.80	-74351.80	-75689.88	-75689.88	-76990.10	-76990.10	-78254.05	-78254.05
79	-74590.72	-74590.72	-75925.01	-75925.01	-77221.35	-77221.35	-78481.36	-78481.36
80	-74832.30	-74832.30	-76162.73	-76162.73	-77455.14	-77455.14	-78711.16	-78711.16
81	-75076.50	-75076.50	-76403.04	-76403.04	-77691.45	-77691.45	-78943.43	-78943.43
82	-75323.33	-75323.33	-76645.91	-76645.91	-77930.28	-77930.28	-79178.15	-79178.15
83	-75572.76	-75572.76	-76891.33	-76891.33	-78171.61	-78171.61	-79415.31	-79415.31
84	-75824.78	-75824.78	-77139.30	-77139.30	-78415.41	-78415.41	-79654.89	-79654.89
85	-76079.38	-76079.38	-77389.78	-77389.78	-78661.69	-78661.69	-79896.89	-79896.89
86	-76336.54	-76336.54	-77642.77	-77642.77	-78910.41	-78910.41	-80141.28	-80141.28
87	-76596.24	-76596.24	-77898.25	-77898.25	-79161.57	-79161.57	-80388.04	-80388.04
88	-76858.48	-76858.48	-78156.21	-78156.21	-79415.15	-79415.15	-80637.17	-80637.17
89	-77123.23	-77123.23	-78416.63	-78416.63	-79671.13	-79671.13	-80888.63	-80888.63
90	-77390.48	-77390.48	-78679.49	-78679.49	-79929.50	-79929.50	-81142.43	-81142.43
91	-77660.22	-77660.22	-78944.78	-78944.78	-80190.24	-80190.24	-81398.54	-81398.54
92	-77932.42	-77932.42	-79212.48	-79212.48	-80453.33	-80453.33	-81656.94	-81656.94
93	-78207.07	-78207.07	-79482.58	-79482.58	-80718.76	-80718.76	-81917.62	-81917.62
94	-78484.15	-78484.15	-79755.05	-79755.05	-80986.51	-80986.51	-82180.57	-82180.57
95	-78763.66	-78763.66	-80029.89	-80029.89	-81256.57	-81256.57	-82445.75	-82445.75
96	-79045.56	-79045.56	-80307.07	-80307.07	-81528.91	-81528.91	-82713.16	-82713.16
97	-79329.85	-79329.85	-80586.58	-80586.58	-81803.52	-81803.52	-82982.77	-82982.77
98	-79616.50	-79616.50	-80868.39	-80868.39	-82080.38	-82080.38	-83254.58	-83254.58
99	-79905.51	-79905.51	-81152.50	-81152.50	-82359.47	-82359.47	-83528.56	-83528.56
100	-80196.84	-80196.84	-81438.89	-81438.89	-82640.78	-82640.78	-83804.69	-83804.69
101	-80490.49	-80490.49	-81727.53	-81727.53	-82924.28	-82924.28	-84082.95	-84082.95
102	-80786.44	-80786.44	-82018.41	-82018.41	-83209.97	-83209.97	-84363.33	-84363.33
103	-81084.66	-81084.66	-82311.51	-82311.51	-83497.81	-83497.81	-84645.81	-84645.81
104	-81385.15	-81385.15	-82606.81	-82606.81	-83787.79	-83787.79	-84930.36	-84930.36
105	-81687.87	-81687.87	-82904.29	-82904.29	-84079.90	-84079.90	-85216.98	-85216.98
106	-81992.82	-81992.82	-83203.94	-83203.94	-84374.11	-84374.11	-85505.63	-85505.63
107	-82299.98	-82299.98	-83505.73	-83505.73	-84670.40	-84670.40	-85796.30	-85796.30
108	-82609.31	-82609.31	-83809.65	-83809.65	-84968.76	-84968.76	-86088.97	-86088.97
109	-82920.82	-82920.82	-84115.67	-84115.67	-85269.16	-85269.16	-86383.62	-86383.62
110	-83234.47	-83234.47	-84423.78	-84423.78	-85571.58	-85571.58	-86680.23	-86680.23
111	-83550.25	-83550.25	-84733.96	-84733.96	-85876.01	-85876.01	-86978.78	-86978.78
112	-83868.13	-83868.13	-85046.18	-85046.18	-86182.43	-86182.43	-87279.25	-87279.25
113	-84188.10	-84188.10	-85360.44	-85360.44	-86490.81	-86490.81	-87581.61	-87581.61
114	-84510.14	-84510.14	-85676.69	-85676.69	-86801.13	-86801.13	-87885.85	-87885.85
115	-84834.23	-84834.23	-85994.94	-85994.94	-87113.37	-87113.37	-88191.95	-88191.95
116	-85160.35	-85160.35	-86315.15	-86315.15	-87427.52	-87427.52	-88499.88	-88499.88
117	-85488.47	-85488.47	-86637.30	-86637.30	-87743.55	-87743.55	-88809.62	-88809.62
118	-85818.58	-85818.58	-86961.38	-86961.38	-88061.43	-88061.43	-89121.16	-89121.16
119	-86150.65	-86150.65	-87287.37	-87287.37	-88381.15	-88381.15	-89434.46	-89434.46
120	-86484.67	-86484.67	-87615.23	-87615.23	-88702.69	-88702.69	-89749.52	-89749.52
121	-86820.61	-86820.61	-87944.95	-87944.95	-89026.03	-89026.03	0.00	0.00
122	-87158.45	-87158.45	-88276.51	-88276.51	-89351.13	-89351.13	0.00	0.00
123	-87498.17	-87498.17	-88609.89	-88609.89	-89677.99	-89677.99	0.00	0.00
124	-87839.74	-87839.74	-88945.06	-88945.06	0.00	0.00	0.00	0.00
125	-88183.16	-88183.16	-89282.00	-89282.00	0.00	0.00	0.00	0.00
126	-88528.39	-88528.39	-89620.69	-89620.69	0.00	0.00	0.00	0.00
127	-88875.41	-88875.41	-89961.11	-89961.11	0.00	0.00	0.00	0.00
128	-89224.19	-89224.19	0.00	0.00	0.00	0.00	0.00	0.00
129	-89574.73	-89574.73	0.00	0.00	0.00	0.00	0.00	0.00
130	-89926.98	-89926.98	0.00	0.00	0.00	0.00	0.00	0.00

Table 4. (Cont.)

J	A 4C	A 4D	A 5C	A 5D	A 6C	A 6D	A 7C	A 7D
1	70469.89 2	70469.89 2	71811.99B3	71811.99B3	73119.61 1	73119.61 1	74394.65 1	74394.65 1
2	70475.79 1	70475.79 1	71818.01 2	71818.01 2	73125.42 1	73125.42 1	74400.35 1	74400.35 1
3	70484.82 2	70484.82 2	71826.96 2	71826.96 2	73134.21 2	73134.21 2	74409.01 2	74409.01 2
4	70496.81 2	70496.81 2	71838.82 1	71838.82 1	73145.88 2	73145.88 2	74420.51 2	74420.51 2
5	70511.83 1	70511.83 1	71853.69 2	71853.69 2	73160.16 1	73160.16 1	74434.83B3	74434.83B3
6	70529.91 2	70529.91 2	71871.54 2	71871.54 2	73177.72 1	73177.72 1	74452.13 2	74452.13 2
7	70551.05 3	70551.05 3	71892.38 2	71892.38 2	73201.58 2	73201.58 2	74472.29 3	74472.29 3
8	70575.10 2	70575.10 2	71916.17 2	71916.17 2	73222.41 3	73222.41 3	74495.31 3	74495.31 3
9	70602.34 2	70602.34 2	71942.88 3	71942.88 3	73248.25 2	73248.10 1	74521.26 2	74521.26 2
10	70632.40 3	70632.40 3	71972.63 3	71972.63 3	73277.04 2	73276.62 1	74549.98 2	74549.98 2
11	70665.57 2	70665.57 2	72005.28 2	72005.28 2	73308.65B2	73312.18B1	74581.63 3	74581.63 3
12	70701.96 1	70701.96 1	72040.93 2	72040.93 2	73342.80 2	73344.32 1	74616.15 3	74616.15 3
13	70740.93 3	70740.93 3	72079.56 2	72079.56 2	73393.84 1	73380.42 1	74653.48 2	74653.48 2
14	70783.23 2	70783.23 2	72121.13 2	72121.13 2	73429.84 2	73429.06 1	74693.76 3	74693.76 3
15	70828.32 3	70828.32 3	72165.69 2	72165.69 2	73471.07 2	73470.08 1	74736.81 3	74736.81 3
16	70876.58 2	70876.58 2	72213.15 2	72213.15 2	73516.92 2	73518.87 1	74782.73 3	74782.73 3
17	70927.80 3	70927.80 3	72263.59 1	72263.59 1	73566.04 2	73566.38 1	74831.54 3	74831.54 3
18	70982.03 2	70982.03 2	72316.94 2	72316.94 2	73618.29 2	73618.29 2	74883.21 3	74883.21 3
19	71039.24 3	71039.24 3	72373.22 2	72373.22 2	73673.50 3	73673.50 3	74937.66 2	74937.66 2
20	71099.41 3	71099.41 3	72432.46 3	72432.46 3	73731.64 3	73731.64 3	74994.97 3	74994.97 3
21	71162.65 2	71162.65 2	72494.69 3	72494.69 3	73792.72 3	73792.72 3	75055.15 3	75055.15 3
22	71228.78 1	71228.78 1	72559.81 2	72559.81 2	73856.76 3	73856.76 3	75118.12 3	75118.12 3
23	71297.70 3	71297.70 3	72627.88 2	72627.88 2	73923.59 3	73923.59 3	75183.92 3	75183.92 3
24	71370.02 3	71370.02 3	72698.82 3	72698.82 3	73993.40 2	73993.40 2	75252.60 3	75252.60 3
25	71445.11 3	71445.11 3	72772.73 3	72772.73 3	-74065.98G2	-74066.00G1	75324.00 3	75324.00 3
26	71523.14 3	71523.14 3	72849.51 3	72849.51 3	-74141.59G2	-74141.50G1	75397.20 1	75398.36 1
27	71604.13 2	71604.13 2	72929.22 1	72929.22 1	-74219.94G2	-74219.77G1	75475.51 2	75475.51 2
28	71688.17 1	71688.17 1	73011.64 1	73011.64 1	-74301.23G2	-74301.09G1	75555.05B1	75555.05B1
29	71775.01 1	71775.01 1	73097.39 1	73097.39 1	-74385.19G2	-74385.04G1	-75638.18G2	-75638.18G2
30	71864.83 1	71864.83 1	73185.24 1	73185.24 1	-74472.23G2	-74473.27G1	-75723.61G2	-75723.93G1
31	-71957.56G2	-71957.53G1	-73276.72G1	-73275.86G1	-74562.08G2	-74562.34G1	-75811.77G2	-75812.11G1
32	-72053.14G2	-72053.62G1	-73369.34G1	-73369.82G1	-74654.71G2	-74654.66G1	-75902.31G1	-75902.97G1
33	-72151.60G2	-72151.97G1	-73467.79G1	-73468.65G1	-74750.09G2	-74750.20G1	-75996.96G1	-75996.13G1
34	-72248.52G2	-72253.44G1	-73569.80G2	-73568.20G1	-74848.44G2	-74848.43G1	-76093.27G2	-76093.76G1
35	-72358.38G2	-72357.83G1	-73671.19G1	-73670.48G1	-74949.49G2	-74949.42G1	-76192.00G2	-76192.80G1
36	-72465.51G2	-72464.93G1	-73777.86G2	-73777.08G1	-75053.45G2	-75053.40G1	-76296.21G2	-76295.33G1
37	-72575.74G2	-72579.37G1	-73886.04G1	-73886.37G1	-75160.14G2	-75160.14G1	-76400.18G2	-76399.71G1
38	-72688.90G2	-72689.44G1	-73997.09G1	-73997.17G1	-75269.55G2	-75269.60G1	-76507.26G2	-76505.85G1
39	-72804.88G2	-72805.21G1	-74110.61G2	-74111.18G1	-75382.02G1	-75381.92G1	-76621.31G1	-76621.02G1
40	-72923.00G1	-72923.90G1	-74228.14G2	-74228.17G1	-75497.32G1	-75496.96G1	-76731.55G1	-76731.55G1
41	-73046.06G1	-73045.78G1	-74347.87G2	-74347.99G1	-75614.75G2	-75614.75G1	-76847.06G1	-76846.79G1
42	-73170.38G1	-73170.41G1	-74470.54G2	-74470.57G1	-75735.11G1	-75735.40G1	-76964.27G1	-76963.28G1
43	-73297.92G2	-73297.60G1	-74596.11G2	-74595.96G1	-75858.37G1	-75858.68G1	-77087.65G1	-77087.58G1
44	-73428.03G1	-73428.70G1	-74723.98G2	-74723.68G1	-75984.50G2	-75984.56G1	-77211.13G1	-77211.13G1
45	-73561.60G2	-73561.46G1	-74855.27G2	-74855.17G1	-76113.21G1	-76114.17G1	-77337.58G1	-77337.57G1
46	-73701.22G2	-73697.46G1	-74989.15G2	-74988.82G1	-76244.59G2	-76245.30G1	-77466.92G1	-77466.28G1
47	-73836.50G1	-73836.50G1	-75125.43G2	-75125.16G1	-76379.43G1	-76379.60G1	-77599.52G1	-77599.52G1
48	-73977.82G2	-73977.82G2	-75264.59G2	-75265.99G1	-76516.47G2	-76516.63G1	-77733.50	-77733.50
49	-74122.55G2	-74121.44G1	-75406.69G2	-75407.80G1	-76655.86G1	-76655.29G1	-77870.77	-77870.77
50	-74269.88G2	-74269.84G1	-75551.34G2	-75552.15G1	-76798.69G1	-76798.40G1	-78010.68	-78010.68
51	-74419.65G2	-74419.03G1	-75699.29G2	-75699.63G1	-76943.68G1	-76943.68G1	-78153.22	-78153.22
52	-74572.25G1	-74572.46G1	-75849.28G2	-75849.40G1	-77090.99G1	-77090.99G1	-78298.39	-78298.39
53	-74728.92G2	-74729.93G1	-76002.54G2	-76002.54G2	-77242.50G1	-77242.50G1	-78446.16	-78446.16
54	-74886.33G1	-74886.31G1	-76157.83G1	-76157.83G1	-77394.63G1	-77394.63G1	-78596.52	-78596.52
55	-75047.14	-75047.14	-76316.35	-76316.35	-77550.30G1	-77550.30G1	-78749.48	-78749.48
56	-75210.93	-75210.93	-76477.67G1	-76477.67G1	-77709.54G1	-77709.54G1	-78905.02	-78905.02
57	-75377.45	-75377.45	-76641.14	-76641.14	-77869.60	-77869.60	-79063.12	-79063.12
58	-75546.68	-75546.68	-76807.05G1	-76807.05G1	-78033.14	-78033.14	-79223.77	-79223.77
59	-75718.60	-75718.60	-76976.88G1	-76976.88G1	-78199.27	-78199.27	-79386.97	-79386.97
60	-75893.22	-75893.22	-77148.25	-77148.25	-78367.99	-78367.99	-79552.71	-79552.71
61	-76070.52	-76070.52	-77322.27G1	-77322.27G1	-78539.29	-78539.29	-79720.96	-79720.96
62	-76250.49	-76250.49	-77499.02G1	-77499.02G1	-78713.15	-78713.15	-79891.72	-79891.72
63	-76433.11	-76433.11	-77679.01	-77679.01	-78889.56	-78889.56	-80064.98	-80064.98
64	-76618.37	-76618.37	-77861.13	-77861.13	-79068.50	-79068.50	-80240.72	-80240.72
65	-76806.27	-76806.27	-78045.83	-78045.83	-79249.98	-79249.98	-80418.93	-80418.93

Table 4. (Cont.)

J	A 4C	A 4D	A 5C	A 5D	A 6C	A 6D	A 7C	A 7D
66	-76996.79	-76996.79	-78233.09	-78233.09	-79433.96	-79433.96	-80599.60	-80599.60
67	-77189.91	-77189.91	-78422.91	-78422.91	-79620.45	-79620.45	-80782.72	-80782.72
68	-77385.63	-77385.63	-78615.27	-78615.27	-79809.42	-79809.42	-80968.27	-80968.27
69	-77583.93	-77583.93	-78810.16	-78810.16	-80000.87	-80000.87	-81156.23	-81156.23
70	-77784.81	-77784.81	-79007.56	-79007.56	-80194.78	-80194.78	-81346.61	-81346.61
71	-77988.23	-77988.23	-79207.47	-79207.47	-80391.14	-80391.14	-81539.37	-81539.37
72	-78194.20	-78194.20	-79409.86	-79409.86	-80589.92	-80589.92	-81734.51	-81734.51
73	-78402.70	-78402.70	-79614.73	-79614.73	-80791.13	-80791.13	-81932.02	-81932.02
74	-78613.72	-78613.72	-79822.06	-79822.06	-80994.75	-80994.75	-82131.88	-82131.88
75	-78827.23	-78827.23	-80031.84	-80031.84	-81200.76	-81200.76	-82334.07	-82334.07
76	-79043.24	-79043.24	-80244.05	-80244.05	-81409.14	-81409.14	-82538.58	-82538.58
77	-79261.72	-79261.72	-80458.68	-80458.68	-81619.88	-81619.88	-82745.39	-82745.39
78	-79482.65	-79482.65	-80675.71	-80675.71	-81832.98	-81832.98	-82954.50	-82954.50
79	-79706.03	-79706.03	-80895.13	-80895.13	-82048.40	-82048.40	-83165.87	-83165.87
80	-79931.84	-79931.84	-81116.92	-81116.92	-82266.14	-82266.14	-83379.51	-83379.51
81	-80160.06	-80160.06	-81341.07	-81341.07	-82486.18	-82486.18	-83595.39	-83595.39
82	-80390.68	-80390.68	-81567.57	-81567.57	-82708.51	-82708.51	-83813.50	-83813.50
83	-80623.69	-80623.69	-81796.39	-81796.39	-82933.11	-82933.11	-84033.82	-84033.82
84	-80859.06	-80859.06	-82027.52	-82027.52	-83159.96	-83159.96	-84256.34	-84256.34
85	-81096.79	-81096.79	-82260.95	-82260.95	-83389.05	-83389.05	-84481.03	-84481.03
86	-81336.85	-81336.85	-82496.66	-82496.66	-83620.36	-83620.36	-84707.88	-84707.88
87	-81579.23	-81579.23	-82734.63	-82734.63	-83853.88	-83853.88	-84936.88	-84936.88
88	-81823.92	-81823.92	-82974.84	-82974.84	-84089.58	-84089.58	-85168.01	-85168.01
89	-82070.89	-82070.89	-83217.29	-83217.29	-84327.45	-84327.45	-85401.25	-85401.25
90	-82320.13	-82320.13	-83461.95	-83461.95	-84567.48	-84567.48	-85636.58	-85636.58
91	-82571.63	-82571.63	-83708.80	-83708.80	-84809.64	-84809.64	-85873.99	-85873.99
92	-82825.36	-82825.36	-83957.83	-83957.83	-85053.92	-85053.92	-86113.45	-86113.45
93	-83081.32	-83081.32	-84209.02	-84209.02	-85300.30	-85300.30	-86354.95	-86354.95
94	-83339.47	-83339.47	-84462.36	-84462.36	-85548.76	-85548.76	-86598.47	-86598.47
95	-83599.81	-83599.81	-84717.82	-84717.82	-85799.29	-85799.29	-86844.00	-86844.00
96	-83862.31	-83862.31	-84975.38	-84975.38	-86051.86	-86051.86	-87091.51	-87091.51
97	-84126.96	-84126.96	-85235.04	-85235.04	-86306.47	-86306.47	-87340.98	-87340.98
98	-84393.75	-84393.75	-85496.76	-85496.76	-86563.07	-86563.07	-87592.40	-87592.40
99	-84662.64	-84662.64	-85760.54	-85760.54	-86821.67	-86821.67	-87845.75	-87845.75
100	-84933.62	-84933.62	-86026.34	-86026.34	-87082.24	-87082.24	-88101.01	-88101.01
101	-85206.68	-85206.68	-86294.17	-86294.17	-87344.77	-87344.77	-88358.15	-88358.15
102	-85481.80	-85481.80	-86563.98	-86563.98	-87609.22	-87609.22	-88617.16	-88617.16
103	-85758.95	-85758.95	-86835.77	-86835.77	-87875.58	-87875.58	-88878.01	-88878.01
104	-86038.12	-86038.12	-87109.52	-87109.52	-88143.84	-88143.84	-89140.70	-89140.70
105	-86319.28	-86319.28	-87385.20	-87385.20	-88413.97	-88413.97	-89405.19	-89405.19
106	-86602.42	-86602.42	-87662.79	-87662.79	-88685.95	-88685.95	-89671.46	-89671.46
107	-86887.52	-86887.52	-87942.28	-87942.28	-88959.76	-88959.76	-89939.51	-89939.51
108	-87174.56	-87174.56	-88223.65	-88223.65	-89235.38	-89235.38	0.00	0.00
109	-87463.51	-87463.51	-88506.87	-88506.87	-89512.79	-89512.79	0.00	0.00
110	-87754.36	-87754.36	-88791.92	-88791.92	-89791.97	-89791.97	0.00	0.00
111	-88047.09	-88047.09	-89078.78	-89078.78	0.00	0.00	0.00	0.00
112	-88341.67	-88341.67	-89367.44	-89367.44	0.00	0.00	0.00	0.00
113	-88638.08	-88638.08	-89657.86	-89657.86	0.00	0.00	0.00	0.00
114	-88936.31	-88936.31	-89950.04	-89950.04	0.00	0.00	0.00	0.00
115	-89236.33	-89236.33	0.00	0.00	0.00	0.00	0.00	0.00
116	-89538.12	-89538.12	0.00	0.00	0.00	0.00	0.00	0.00
117	-89841.65	-89841.65	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 4. (Cont.)

J	A 8C	A 8D	A 9C	A 9D	A10C	A10D	A11C	A11D
1	75634.55 3	75634.55 3	76840.16 3	76840.16 3	78011.30 2	78011.30 2	79149.44 2	79149.44 2
2	75640.24 3	75640.24 3	76845.68 1	76845.68 1	78016.82 2	78016.82 2	79154.79 2	79154.79 2
3	75648.74B3	75648.74B3	76853.98 2	76853.98 2	78024.95 3	78024.95 3	79162.84 2	79162.84 2
4	75660.01 2	75660.01 2	76865.15 2	76865.15 2	78035.93 2	78035.93 2	79173.57 1	79173.57 1
5	75674.17 3	75674.17 3	76879.01 3	76879.01 3	78049.60 1	78049.60 1	79186.99 2	79186.99 2
6	75691.12 2	75691.12 2	76895.73 3	76895.73 3	78066.00 2	78066.00 2	79203.03 2	79203.03 2
7	75710.88 2	75710.88 2	76915.15 2	76915.15 2	78085.14 2	78085.14 2	79221.77 3	79221.77 3
8	75733.51 2	75733.51 2	76937.37 3	76937.37 3	78106.95 2	78106.95 2	79243.21 1	79243.21 1
9	75758.90 3	75758.90 3	76962.37 3	76962.37 3	78131.51 1	78131.51 1	79267.36 1	79267.36 1
10	75787.17 2	75787.17 2	76990.20 3	76990.20 3	78158.74 3	78158.74 3	79294.13 3	79294.13 3
11	75818.24 3	75818.24 3	77020.70 2	77020.70 2	78188.74 2	78188.74 2	79324.45 1	79324.45 1
12	75852.12 3	75852.12 3	77054.02 2	77054.02 2	78221.43 3	78221.43 3	79355.87 1	79355.87 1
13	75888.80 3	75888.80 3	77090.11 3	77090.11 3	78256.78 2	78256.78 1	79390.39 2	79390.39 2
14	75928.31 2	75928.31 2	77128.93 3	77128.93 3	78294.77 2	78294.94 1	79427.87 2	79427.87 2
15	75970.59 2	75970.42 1	77170.54 2	77170.54 2	78334.95 1	78335.75 1	79467.72 2	79467.72 2
16	76015.60 2	76018.08 1	77214.93 2	77214.93 2	78380.91 1	78379.11 1	79509.37 1	79509.37 1
17	76063.30 2	76066.41 1	77262.07 2	77262.07 2	78426.37 2	78424.91 1	79557.88 3	79557.88 3
18	76112.53 2	76114.66 1	77311.92 2	77311.92 2	78475.09 2	78481.34 1	79605.24 3	79605.24 3
19	76168.84 2	76168.12 1	77364.57 3	77364.57 3	78526.50 2	78528.49 1	79655.75 3	79655.75 3
20	76224.65 3	76224.65 3	77419.93 2	77419.93 2	78580.01 2	78582.01 1	79709.02 3	79709.02 3
21	76283.64 3	76283.64 3	77478.03 3	77478.03 3	78637.18 2	78638.77 1	79765.06 3	79765.06 3
22	76345.43 3	76345.43 3	77538.86 3	77538.86 3	78699.36 1	78698.27 1	79823.64 3	79823.64 3
23	76409.79 2	76409.79 2	77602.42 3	77602.42 3	78761.04 2	78761.23 1	79884.84 3	79884.84 3
24	76480.48 3	76480.48 3	77668.74 2	77668.74 2	78825.02 1	78825.91 1	79948.78 3	79948.78 3
25	76548.49 3	76548.49 3	77737.76 3	77737.76 3	78893.61 1	78893.61 1	80015.21 2	80015.21 2
26	-76621.04G1	-76621.08G1	77809.54 2	77809.54 2	78963.95 1	78963.95 1	80084.41 2	80084.41 2
27	-76695.71G1	-76695.83G1	77883.96 2	77883.96 2	79036.80 1	79036.80 1	80156.05 1	80156.05 1
28	-76778.38G2	-76778.53G1	77961.04 2	77961.04 2	-79109.29G1	-79110.66G1	-80230.60	-80230.60
29	-76858.03G1	-76858.01G1	78041.26 1	78041.26 1	-79191.18G1	-79191.19G1	-80307.56	-80307.56
30	-76940.39G1	-76939.78G1	-78123.62G1	-78123.65G1	-79272.66G1	-79272.07G1	-80387.12	-80387.12
31	-77028.28G1	-77028.21G1	-78208.46G1	-78208.83G1	-79355.55G1	-79355.41G1	-80469.26	-80469.26
32	-77117.82G1	-77117.62G1	-78296.43G1	-78296.67G1	-79442.31G1	-79442.78G1	-80553.98	-80553.98
33	-77210.11G1	-77209.46G1	-78386.85G1	-78386.85G1	-79530.53G1	-79531.20G1	-80641.27	-80641.27
34	-77304.27G1	-77305.51G1	-78480.54	-78480.54	-79622.40G1	-79621.89G1	-80731.12	-80731.12
35	-77402.46G1	-77402.77G1	-78576.46	-78576.46	-79717.01	-79717.01	-80823.54	-80823.54
36	-77502.58G1	-77502.94G1	-78675.03	-78675.03	-79813.80	-79813.80	-80918.51	-80918.51
37	-77605.58G1	-77605.58G1	-78776.25	-78776.25	-79913.18	-79913.18	-81016.01	-81016.01
38	-77711.19G1	-77711.19G1	-78880.10	-78880.10	-80015.15	-80015.15	-81116.06	-81116.06
39	-77819.83	-77819.83	-78986.59	-78986.59	-80119.70	-80119.70	-81218.63	-81218.63
40	-77930.95	-77930.95	-79095.70	-79095.70	-80226.82	-80226.82	-81323.72	-81323.72
41	-78044.74	-78044.74	-79207.43	-79207.43	-80336.51	-80336.51	-81431.33	-81431.33
42	-78161.19	-78161.19	-79321.76	-79321.76	-80448.75	-80448.75	-81541.43	-81541.43
43	-78280.29	-78280.29	-79438.69	-79438.69	-80563.54	-80563.54	-81654.03	-81654.03
44	-78402.04	-78402.04	-79558.21	-79558.21	-80680.86	-80680.86	-81769.11	-81769.11
45	-78526.42	-78526.42	-79680.32	-79680.32	-80800.72	-80800.72	-81886.67	-81886.67
46	-78653.42	-78653.42	-79804.99	-79804.99	-80923.09	-80923.09	-82006.70	-82006.70
47	-78783.04	-78783.04	-79932.23	-79932.23	-81047.98	-81047.98	-82129.18	-82129.18
48	-78915.26	-78915.26	-80062.02	-80062.02	-81175.36	-81175.36	-82254.10	-82254.10
49	-79050.08	-79050.08	-80194.35	-80194.35	-81305.24	-81305.24	-82381.46	-82381.46
50	-79187.49	-79187.49	-80329.22	-80329.22	-81437.59	-81437.59	-82511.25	-82511.25
51	-79327.47	-79327.47	-80466.61	-80466.61	-81572.42	-81572.42	-82643.46	-82643.46
52	-79470.02	-79470.02	-80606.51	-80606.51	-81709.70	-81709.70	-82778.06	-82778.06
53	-79615.13	-79615.13	-80748.91	-80748.91	-81849.43	-81849.43	-82915.06	-82915.06
54	-79762.78	-79762.78	-80893.81	-80893.81	-81991.60	-81991.60	-83054.45	-83054.45
55	-79912.97	-79912.97	-81041.18	-81041.18	-82136.20	-82136.20	-83196.20	-83196.20
56	-80065.68	-80065.68	-81191.03	-81191.03	-82283.21	-82283.21	-83340.32	-83340.32
57	-80220.90	-80220.90	-81343.33	-81343.33	-82432.63	-82432.63	-83486.78	-83486.78
58	-80378.62	-80378.62	-81498.08	-81498.08	-82584.44	-82584.44	-83635.58	-83635.58
59	-80538.84	-80538.84	-81655.26	-81655.26	-82738.63	-82738.63	-83786.70	-83786.70
60	-80701.53	-80701.53	-81814.87	-81814.87	-82895.18	-82895.18	-83940.13	-83940.13
61	-80866.69	-80866.69	-81976.88	-81976.88	-83054.09	-83054.09	-84095.86	-84095.86
62	-81034.30	-81034.30	-82141.30	-82141.30	-83215.35	-83215.35	-84253.88	-84253.88
63	-81204.35	-81204.35	-82308.10	-82308.10	-83378.93	-83378.93	-84414.17	-84414.17
64	-81376.83	-81376.83	-82477.27	-82477.27	-83544.83	-83544.83	-84576.72	-84576.72
65	-81551.73	-81551.73	-82648.80	-82648.80	-83713.03	-83713.03	-84741.52	-84741.52

Table 4. (Cont.)

J	A 8C	A 8D	A 9C	A 9D	A10C	A10D	A11C	A11D
66	-81729.03	-81729.03	-82822.68	-82822.68	-83883.53	-83883.53	-84908.55	-84908.55
67	-81908.72	-81908.72	-82998.89	-82998.89	-84056.30	-84056.30	-85077.79	-85077.79
68	-82090.79	-82090.79	-83177.42	-83177.42	-84231.33	-84231.33	-85249.24	-85249.24
69	-82275.22	-82275.22	-83358.25	-83358.25	-84408.62	-84408.62	-85422.88	-85422.88
70	-82462.00	-82462.00	-83541.38	-83541.38	-84588.14	-84588.14	-85598.70	-85598.70
71	-82651.11	-82651.11	-83726.79	-83726.79	-84769.87	-84769.87	-85776.68	-85776.68
72	-82842.55	-82842.55	-83914.45	-83914.45	-84953.82	-84953.82	-85956.80	-85956.80
73	-83036.29	-83036.29	-84104.37	-84104.37	-85139.95	-85139.95	-86139.05	-86139.05
74	-83232.32	-83232.32	-84296.52	-84296.52	-85328.26	-85328.26	-86323.42	-86323.42
75	-83430.63	-83430.63	-84490.89	-84490.89	-85518.73	-85518.73	-86509.89	-86509.89
76	-83631.20	-83631.20	-84687.46	-84687.46	-85711.35	-85711.35	-86698.45	-86698.45
77	-83834.02	-83834.02	-84886.22	-84886.22	-85906.09	-85906.09	-86889.07	-86889.07
78	-84039.08	-84039.08	-85087.15	-85087.15	-86102.95	-86102.95	-87081.74	-87081.74
79	-84246.34	-84246.34	-85290.23	-85290.23	-86301.90	-86301.90	-87276.45	-87276.45
80	-84455.81	-84455.81	-85495.46	-85495.46	-86502.94	-86502.94	-87473.18	-87473.18
81	-84667.46	-84667.46	-85702.81	-85702.81	-86706.04	-86706.04	-87671.91	-87671.91
82	-84881.28	-84881.28	-85912.27	-85912.27	-86911.18	-86911.18	-87872.63	-87872.63
83	-85097.26	-85097.26	-86123.82	-86123.82	-87118.36	-87118.36	-88075.31	-88075.31
84	-85315.36	-85315.36	-86337.45	-86337.45	-87327.55	-87327.55	-88279.94	-88279.94
85	-85535.59	-85535.59	-86553.13	-86553.13	-87538.74	-87538.74	-88486.51	-88486.51
86	-85757.92	-85757.92	-86770.85	-86770.85	-87751.91	-87751.91	-88694.99	-88694.99
87	-85982.33	-85982.33	-86990.59	-86990.59	-87967.03	-87967.03	-88905.37	-88905.37
88	-86208.81	-86208.81	-87212.34	-87212.34	-88184.10	-88184.10	-89117.63	-89117.63
89	-86437.33	-86437.33	-87436.08	-87436.08	-88403.10	-88403.10	-89331.74	-89331.74
90	-86667.89	-86667.89	-87661.78	-87661.78	-88624.00	-88624.00	-89547.70	-89547.70
91	-86900.47	-86900.47	-87889.43	-87889.43	-88846.79	-88846.79	-89765.48	-89765.48
92	-87135.04	-87135.04	-88119.02	-88119.02	-89071.45	-89071.45	-89985.07	-89985.07
93	-87371.58	-87371.58	-88350.52	-88350.52	-89297.96	-89297.96	0.00	0.00
94	-87610.09	-87610.09	-88583.91	-88583.91	-89526.30	-89526.30	0.00	0.00
95	-87850.53	-87850.53	-88819.18	-88819.18	-89756.45	-89756.45	0.00	0.00
96	-88092.89	-88092.89	-89056.30	-89056.30	-89988.39	-89988.39	0.00	0.00
97	-88337.16	-88337.16	-89295.27	-89295.27	0.00	0.00	0.00	0.00
98	-88583.31	-88583.31	-89536.04	-89536.04	0.00	0.00	0.00	0.00
99	-88831.32	-88831.32	-89778.62	-89778.62	0.00	0.00	0.00	0.00
100	-89081.17	-89081.17	0.00	0.00	0.00	0.00	0.00	0.00
101	-89332.85	-89332.85	0.00	0.00	0.00	0.00	0.00	0.00
102	-89586.33	-89586.33	0.00	0.00	0.00	0.00	0.00	0.00
103	-89841.59	-89841.59	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 4. (Cont.)

J	A12C	A12D	A13C	A13D	A14C	A14D	A15C	A15D
1	80253.03 3	80253.03 3	81322.76 2	81322.76 2	82356.95 1	82356.95 1	83355.68 2	83355.68 2
2	80258.34 2	80258.34 2	81327.98B3	81327.98B3	82361.83 1	82361.83 1	83360.48 2	83360.48 2
3	80266.23 1	80266.23 1	81335.62 2	81335.62 2	82369.40 2	82369.40 2	83367.69 2	83367.69 2
4	80276.74 3	80276.74 3	81345.93 2	81345.93 2	82379.63 2	82379.63 2	83377.69 3	83377.69 3
5	80289.85 3	80289.85 3	81358.80 3	81358.80 3	82392.28 2	82392.28 2	83389.71 1	83390.00 1
6	80305.68 3	80305.68 3	81374.28 2	81374.28 2	82407.45 2	82407.45 2	83403.92 2	83404.58 1
7	80324.08 2	80324.08 2	81392.28 3	81392.28 3	82425.22 3	82425.22 3	83422.70 2	83421.83 1
8	80345.08 2	80345.08 2	81412.92 2	81412.92 2	82445.42 3	82445.42 3	83442.20 2	83440.90 1
9	80368.78 3	80368.78 3	81436.05 3	81436.05 3	82468.10 2	82468.10 2	83464.30 2	83465.51 1
10	80395.06 3	80395.06 3	81461.84 3	81461.84 3	82493.31 3	82493.31 3	83488.89 2	83489.65 1
11	80423.97 3	80423.97 3	81490.16 3	81490.16 3	82521.14 3	82521.14 3	83515.59 2	83516.53 1
12	80455.51 3	80455.51 3	81521.11 3	81521.11 3	82551.29 3	82551.29 3	83546.44 1	83545.96 1
13	80489.63 3	80489.63 3	81554.54 3	81554.54 3	82584.11 3	82584.11 3	83578.13 1	83577.83 1
14	80526.37 3	80526.37 3	81590.68 3	81590.68 3	82619.41 3	82619.41 3	83612.59 1	83612.32 1
15	80565.73 3	80565.73 3	81629.17 3	81629.17 3	82657.21 2	82657.21 2	83649.52 2	83649.52 2
16	80607.73 2	80607.73 2	81670.30 3	81670.30 3	82697.51 3	82697.51 3	83688.89 2	83688.89 2
17	80652.25 2	80652.25 2	81713.99 3	81713.99 3	82740.31 3	82740.31 3	83730.90 3	83730.90 3
18	80699.54 2	80699.54 2	81760.21 3	81760.21 3	82785.69 3	82785.69 3	83775.14 3	83775.14 3
19	80749.18 1	80749.18 1	81809.03 3	81809.03 3	82833.50 3	82833.50 3	83821.86 3	83821.86 3
20	80801.77 1	80801.77 1	81860.32 3	81860.32 3	82883.48 2	82883.48 2	83870.99 3	83870.99 3
21	80856.41 1	80856.41 1	81914.15 3	81914.15 3	82936.30 2	82936.30 2	83922.50 3	83922.50 3
22	80913.91 1	80913.91 1	81970.93 3	81970.93 3	82991.22 2	82991.22 2	83976.54 2	83976.54 2
23	80973.96 1	80973.96 1	82029.60 3	82029.60 3	83049.43 1	83049.43 1	84032.95 2	84032.95 2
24	81036.99 1	81036.65 1	82090.90 3	82090.90 3	83109.45 1	83109.45 1	84091.80 2	84091.80 2
25	81102.64 1	81101.65 1	82154.64 2	82154.64 2	83172.02 1	83172.02 1	84153.08 1	84153.08 1
26	81170.06 1	81168.84 1	82221.87 1	82221.87 1	83237.05B2	83237.05B2	-84216.66	-84216.66
27	81240.94 1	81241.74 1	82290.48 2	82290.48 2	83304.59B2	83304.59B2	-84282.69	-84282.69
28	81313.16 2	81313.16 2	-82361.83	-82361.83	83375.05B1	83375.05B1	-84351.10	-84351.10
29	81388.22 1	81388.22 1	-82435.79	-82435.79	83447.49 1	83447.49 1	-84421.89	-84421.89
30	-81466.89	-81466.89	-82512.24	-82512.24	83522.62 1	83522.62 1	-84495.05	-84495.05
31	-81547.43	-81547.43	-82591.16	-82591.16	-83599.21	-83599.21	-84570.57	-84570.57
32	-81630.50	-81630.50	-82672.56	-82672.56	-83678.88	-83678.88	-84648.45	-84648.45
33	-81716.09	-81716.09	-82756.42	-82756.42	-83760.96	-83760.96	-84728.68	-84728.68
34	-81804.20	-81804.20	-82842.74	-82842.74	-83845.45	-83845.45	-84811.26	-84811.26
35	-81894.81	-81894.81	-82931.51	-82931.51	-83932.32	-83932.32	-84896.17	-84896.17
36	-81987.91	-81987.91	-83022.72	-83022.72	-84021.59	-84021.59	-84983.40	-84983.40
37	-82083.51	-82083.51	-83116.37	-83116.37	-84113.23	-84113.23	-85072.95	-85072.95
38	-82181.58	-82181.58	-83212.44	-83212.44	-84207.24	-84207.24	-85164.81	-85164.81
39	-82282.13	-82282.13	-83310.93	-83310.93	-84303.61	-84303.61	-85258.97	-85258.97
40	-82385.15	-82385.15	-83411.83	-83411.83	-84402.33	-84402.33	-85355.42	-85355.42
41	-82490.62	-82490.62	-83515.13	-83515.13	-84503.40	-84503.40	-85454.15	-85454.15
42	-82598.55	-82598.55	-83620.83	-83620.83	-84606.80	-84606.80	-85555.16	-85555.16
43	-82708.91	-82708.91	-83728.91	-83728.91	-84712.52	-84712.52	-85658.42	-85658.42
44	-82821.70	-82821.70	-83839.36	-83839.36	-84820.56	-84820.56	-85763.94	-85763.94
45	-82936.91	-82936.91	-83952.17	-83952.17	-84930.90	-84930.90	-85871.70	-85871.70
46	-83054.53	-83054.53	-84067.34	-84067.34	-85043.53	-85043.53	-85981.69	-85981.69
47	-83174.55	-83174.55	-84184.85	-84184.85	-85158.45	-85158.45	-86093.90	-86093.90
48	-83296.96	-83296.96	-84304.70	-84304.70	-85275.65	-85275.65	-86208.31	-86208.31
49	-83421.75	-83421.75	-84426.86	-84426.86	-85395.10	-85395.10	-86324.93	-86324.93
50	-83548.92	-83548.92	-84551.34	-84551.34	-85516.81	-85516.81	-86443.73	-86443.73
51	-83678.44	-83678.44	-84678.13	-84678.13	-85640.75	-85640.75	-86564.70	-86564.70
52	-83810.31	-83810.31	-84807.20	-84807.20	-85766.93	-85766.93	-86687.84	-86687.84
53	-83944.52	-83944.52	-84938.55	-84938.55	-85895.32	-85895.32	-86813.13	-86813.13
54	-84081.05	-84081.05	-85072.16	-85072.16	-86025.91	-86025.91	-86940.55	-86940.55
55	-84219.90	-84219.90	-85208.03	-85208.03	-86158.70	-86158.70	-87070.10	-87070.10
56	-84361.05	-84361.05	-85346.15	-85346.15	-86293.67	-86293.67	-87201.77	-87201.77
57	-84504.49	-84504.49	-85486.49	-85486.49	-86430.80	-86430.80	-87335.53	-87335.53
58	-84650.21	-84650.21	-85629.05	-85629.05	-86570.09	-86570.09	-87471.38	-87471.38
59	-84798.19	-84798.19	-85773.82	-85773.82	-86711.52	-86711.52	-87609.29	-87609.29
60	-84948.43	-84948.43	-85920.78	-85920.78	-86855.08	-86855.08	-87749.27	-87749.27
61	-85100.91	-85100.91	-86069.92	-86069.92	-87000.75	-87000.75	-87891.29	-87891.29
62	-85255.62	-85255.62	-86221.23	-86221.23	-87148.52	-87148.52	-88035.34	-88035.34
63	-85412.54	-85412.54	-86374.69	-86374.69	-87298.38	-87298.38	-88181.41	-88181.41
64	-85571.66	-85571.66	-86530.28	-86530.28	-87450.31	-87450.31	-88329.47	-88329.47
65	-85732.96	-85732.96	-86688.00	-86688.00	-87604.30	-87604.30	-88479.52	-88479.52

Table 4. (Cont.)

J	A12C	A12D	A13C	A13D	A14C	A14D	A15C	A15D
66	-85896.44	-85896.44	-86847.83	-86847.83	-87760.33	-87760.33	-88631.54	-88631.54
67	-86062.08	-86062.08	-87009.76	-87009.76	-87918.39	-87918.39	-88785.52	-88785.52
68	-86229.86	-86229.86	-87173.76	-87173.76	-88078.46	-88078.46	-88941.43	-88941.43
69	-86399.78	-86399.78	-87339.84	-87339.84	-88240.53	-88240.53	-89099.27	-89099.27
70	-86571.80	-86571.80	-87507.96	-87507.96	-88404.58	-88404.58	-89259.01	-89259.01
71	-86745.93	-86745.93	-87678.12	-87678.12	-88570.60	-88570.60	-89420.64	-89420.64
72	-86922.14	-86922.14	-87850.30	-87850.30	-88738.57	-88738.57	-89584.15	-89584.15
73	-87100.42	-87100.42	-88024.48	-88024.48	-88908.47	-88908.47	-89749.51	-89749.51
74	-87280.76	-87280.76	-88200.65	-88200.65	-89080.29	-89080.29	-89916.71	-89916.71
75	-87463.13	-87463.13	-88378.79	-88378.79	-89254.01	-89254.01	0.00	0.00
76	-87647.52	-87647.52	-88558.89	-88558.89	-89429.61	-89429.61	0.00	0.00
77	-87833.92	-87833.92	-88740.92	-88740.92	-89607.08	-89607.08	0.00	0.00
78	-88022.31	-88022.31	-88924.88	-88924.88	-89786.39	-89786.39	0.00	0.00
79	-88212.67	-88212.67	-89110.74	-89110.74	-89967.54	-89967.54	0.00	0.00
80	-88404.99	-88404.99	-89298.49	-89298.49	0.00	0.00	0.00	0.00
81	-88599.24	-88599.24	-89488.11	-89488.11	0.00	0.00	0.00	0.00
82	-88795.42	-88795.42	-89679.58	-89679.58	0.00	0.00	0.00	0.00
83	-88993.50	-88993.50	-89872.88	-89872.88	0.00	0.00	0.00	0.00
84	-89193.46	-89193.46	0.00	0.00	0.00	0.00	0.00	0.00
85	-89395.29	-89395.29	0.00	0.00	0.00	0.00	0.00	0.00
86	-89598.97	-89598.97	0.00	0.00	0.00	0.00	0.00	0.00
87	-89804.48	-89804.48	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

J	A16C	A16D	A17C	A17D	A18C	A18D	A19C	A19C
1	84317.42 2	84317.42 2	85239.96 1	85239.96 1	86120.99B3	86120.99B3	-86957.82	-86957.82
2	84322.29 2	84322.29 2	85244.52 2	85244.52 2	86125.57 1	86125.57 1	-86962.26	-86962.26
3	84329.39 2	84329.39 2	85251.90B3	85251.90B3	86132.30 1	86132.30 1	-86968.93	-86968.93
4	84339.13 3	84339.13 3	85261.17 2	85261.17 2	86143.04 3	86143.04 3	-86977.81	-86977.81
5	84351.23 2	84351.23 2	85272.96 1	85272.96 1	86153.80 2	86153.80 2	-86988.91	-86988.91
6	84365.66 2	84365.66 2	85286.99 2	85286.99 2	86167.38 2	86167.38 2	-87002.23	-87002.23
7	84382.54 2	84382.54 2	85303.61 2	85303.61 2	86183.35 2	86183.35 2	-87017.77	-87017.77
8	84401.82 1	84401.82 1	85322.34 2	85322.34 2	86201.60 3	86201.60 3	-87035.51	-87035.51
9	84423.50 3	84423.50 3	85343.57 3	85343.57 3	86222.37 3	86222.37 3	-87055.47	-87055.47
10	84447.71 2	84447.71 2	85367.49 3	85367.49 3	86245.21 3	86245.21 3	-87077.64	-87077.64
11	84474.35 3	84474.35 3	85393.06 3	85393.06 3	86270.38 3	86270.38 3	-87102.01	-87102.01
12	84503.22 3	84503.22 3	85421.24 2	85420.19 1	86297.91 2	86297.91 2	-87128.59	-87128.59
13	84534.52 3	84534.52 3	85451.79 2	85452.16 1	86327.46 3	86327.46 3	-87157.36	-87157.36
14	84568.23 3	84568.23 3	85484.59 2	85484.83 1	86359.44 3	86359.44 3	-87188.33	-87188.33
15	84604.39 3	84604.39 3	85520.09 3	85520.09 3	86393.68 3	86393.68 3	-87221.48	-87221.48
16	84642.88 3	84642.88 3	85557.52 3	85557.52 3	86430.16 3	86430.16 3	-87256.83	-87256.83
17	84683.76 3	84683.76 3	85597.45 3	85597.45 3	86468.85 3	86468.85 3	-87294.35	-87294.35
18	84727.03 3	84727.03 3	85639.48 3	85639.48 3	86509.91 3	86509.91 3	-87334.05	-87334.05
19	84772.77 3	84772.77 3	85683.77 3	85683.77 3	86553.42 3	86553.42 3	-87375.93	-87375.93
20	84820.75 3	84820.75 3	85730.83 3	85730.83 3	86598.72 3	86598.72 3	-87419.97	-87419.97
21	84871.14 3	84871.14 3	85779.95 3	85779.95 3	86646.41 3	86646.41 3	-87466.16	-87466.16
22	84923.74 2	84923.74 2	85831.37 3	85831.37 3	86696.33 3	86696.33 3	-87514.52	-87514.52
23	84978.83 1	84978.83 1	85885.16 3	85885.16 3	86748.88 3	86748.88 3	-87565.01	-87565.01
24	85036.12 1	85036.12 1	85940.91 3	85940.91 3	86803.11 3	86803.11 3	-87617.65	-87617.65
25	-85096.31	-85096.31	85999.31 2	85999.31 2	86859.43 2	86859.43 2	-87672.42	-87672.42
26	-85158.46	-85158.46	86059.69 1	86059.69 1	86918.40 2	86918.40 2	-87729.32	-87729.32
27	-85222.94	-85222.94	-86123.10	-86123.10	86979.26 1	86979.26 1	-87788.33	-87788.33
28	-85289.76	-85289.76	-86188.23	-86188.23	-87042.57	-87042.57	-87849.46	-87849.46
29	-85358.89	-85358.89	-86255.63	-86255.63	-87107.95	-87107.95	-87912.69	-87912.69
30	-85430.34	-85430.34	-86325.27	-86325.27	-87175.50	-87175.50	-87978.01	-87978.01
31	-85504.09	-85504.09	-86397.16	-86397.16	-87245.21	-87245.21	-88045.41	-88045.41
32	-85580.14	-85580.14	-86471.29	-86471.29	-87317.08	-87317.08	-88114.89	-88114.89
33	-85658.48	-85658.48	-86547.64	-86547.64	-87391.09	-87391.09	-88186.43	-88186.43
34	-85739.11	-85739.11	-86626.22	-86626.22	-87467.24	-87467.24	-88260.03	-88260.03
35	-85822.00	-85822.00	-86707.01	-86707.01	-87545.52	-87545.52	-88335.68	-88335.68
36	-85907.17	-85907.17	-86790.01	-86790.01	-87625.92	-87625.92	-88413.36	-88413.36
37	-85994.59	-85994.59	-86875.21	-86875.21	-87708.42	-87708.42	-88493.07	-88493.07
38	-86084.26	-86084.26	-86962.59	-86962.59	-87793.03	-87793.03	-88574.79	-88574.79
39	-86176.18	-86176.18	-87052.15	-87052.15	-87879.72	-87879.72	-88658.51	-88658.51
40	-86270.32	-86270.32	-87143.87	-87143.87	-87968.48	-87968.48	-88744.23	-88744.23
41	-86366.68	-86366.68	-87237.76	-87237.76	-88059.31	-88059.31	-88831.92	-88831.92
42	-86465.25	-86465.25	-87333.80	-87333.80	-88152.20	-88152.20	-88921.59	-88921.59
43	-86566.03	-86566.03	-87431.97	-87431.97	-88247.12	-88247.12	-89013.20	-89013.20
44	-86668.99	-86668.99	-87532.28	-87532.28	-88344.08	-88344.08	-89106.76	-89106.76
45	-86774.13	-86774.13	-87634.70	-87634.70	-88443.05	-88443.05	-89202.25	-89202.25
46	-86881.45	-86881.45	-87739.23	-87739.23	-88544.03	-88544.03	-89299.66	-89299.66
47	-86990.92	-86990.92	-87845.85	-87845.85	-88647.00	-88647.00	-89398.96	-89398.96
48	-87102.54	-87102.54	-87954.56	-87954.56	-88751.95	-88751.95	-89500.16	-89500.16
49	-87216.29	-87216.29	-88065.34	-88065.34	-88858.87	-88858.87	-89603.23	-89603.23
50	-87332.17	-87332.17	-88178.18	-88178.18	-88967.74	-88967.74	-89708.16	-89708.16
51	-87450.16	-87450.16	-88293.07	-88293.07	-89078.55	-89078.55	-89814.93	-89814.93
52	-87570.24	-87570.24	-88410.00	-88410.00	-89191.28	-89191.28	-89923.54	-89923.54
53	-87692.42	-87692.42	-88528.95	-88528.95	-89305.92	-89305.92	0.00	0.00
54	-87816.67	-87816.67	-88649.91	-88649.91	-89422.46	-89422.46	0.00	0.00
55	-87942.98	-87942.98	-88772.87	-88772.87	-89540.87	-89540.87	0.00	0.00
56	-88071.34	-88071.34	-88897.82	-88897.82	-89661.15	-89661.15	0.00	0.00
57	-88201.73	-88201.73	-89024.73	-89024.73	-89783.28	-89783.28	0.00	0.00
58	-88334.14	-88334.14	-89153.60	-89153.60	-89907.25	-89907.25	0.00	0.00
59	-88468.56	-88468.56	-89284.42	-89284.42	0.00	0.00	0.00	0.00
60	-88604.97	-88604.97	-89417.16	-89417.16	0.00	0.00	0.00	0.00
61	-88743.36	-88743.36	-89551.82	-89551.82	0.00	0.00	0.00	0.00
62	-88883.72	-88883.72	-89688.38	-89688.38	0.00	0.00	0.00	0.00
63	-89026.02	-89026.02	-89826.82	-89826.82	0.00	0.00	0.00	0.00
64	-89170.26	-89170.26	-89967.13	-89967.13	0.00	0.00	0.00	0.00
65	-89316.41	-89316.41	0.00	0.00	0.00	0.00	0.00	0.00
66	-89464.47	-89464.47						
67	-89614.41	-89614.41						
68	-89766.23	-89766.23						
69	-89919.90	-89919.90						

Table 4. (Cont.)

J	A20C	A20D	A21C	A21D	A22C	A22D	A23C	A23C
1	87742.88 1	87742.88 1	88469.25 2	88469.25 2	-89120.68	-89120.68	89677.77B1	89677.77B1
2	87747.22 1	87747.22 1	88473.16 2	88473.16 2	-89124.49	-89124.49	89681.28B2	89681.28B2
3	87753.64 2	87753.64 2	88479.29 3	88479.29 3	-89130.20	-89130.20	89685.99B1	89685.99B1
4	87762.31B3	87762.31B3	88487.45 3	88487.45 3	-89137.82	-89137.82	89691.93B3	89691.93B3
5	87772.88 2	87772.88 2	88497.66 2	88497.66 2	-89147.33	-89147.33	89703.49 1	89703.49 1
6	87785.75 2	87785.75 2	88509.92 2	88509.92 2	-89158.74	-89158.74	89712.03 1	89712.03 1
7	87800.71 3	87800.71 3	88524.20 1	88524.20 1	-89172.04	-89172.04	89724.03 2	89724.03 2
8	87817.82 3	87817.82 3	88540.61 2	88540.61 2	-89187.22	-89187.22	89737.83 2	89737.83 2
9	87837.04 3	87837.04 3	88559.04 2	88559.04 2	-89204.29	-89204.29	89753.64 2	89753.64 2
10	87858.43 3	87858.43 3	88579.32 2	88579.32 2	-89223.22	-89223.22	89770.83 3	89770.83 3
11	87881.92 3	87881.92 3	88601.66 3	88601.66 3	-89244.03	-89244.03	89789.83 3	89789.83 3
12	87907.51 3	87907.51 3	88626.10 3	88626.10 3	-89266.69	-89266.69	89810.46 3	89810.46 3
13	87935.25 3	87935.25 3	88652.56 3	88652.56 3	-89291.20	-89291.20	89832.76 2	89832.76 2
14	87965.08 3	87965.08 3	88681.03 3	88681.03 3	-89317.55	-89317.55	89856.70 2	89856.70 2
15	87997.01 3	87997.01 3	88711.43 3	88711.43 3	-89345.73	-89345.73	89881.97 2	89881.97 2
16	88031.03 3	88031.03 3	88743.93 3	88743.93 3	-89375.73	-89375.73	89909.39 2	89909.39 2
17	88067.22 3	88067.22 3	88778.35 2	88778.35 2	-89407.54	-89407.54	89938.03 2	89938.03 2
18	88105.33 3	88105.33 3	88814.75 2	88814.75 2	-89441.14	-89441.14	89967.11 1	89967.11 1
19	88145.68 2	88145.68 2	88853.10 1	88853.10 1	-89476.53	-89476.53	0.00	0.00
20	88187.99 1	88187.99 1	88893.36 1	88893.36 1	-89513.68	-89513.68	0.00	0.00
21	-88232.51	-88232.51	-88935.74	-88935.74	-89552.59	-89552.59	0.00	0.00
22	-88278.99	-88278.99	-88979.99	-88979.99	-89593.23	-89593.23	0.00	0.00
23	-88327.52	-88327.52	-89026.17	-89026.17	-89635.60	-89635.60	0.00	0.00
24	-88378.09	-88378.09	-89074.28	-89074.28	-89679.67	-89679.67	0.00	0.00
25	-88430.69	-88430.69	-89124.31	-89124.31	-89725.44	-89725.44	0.00	0.00
26	-88485.31	-88485.31	-89176.25	-89176.25	-89772.87	-89772.87	0.00	0.00
27	-88541.95	-88541.95	-89230.08	-89230.08	-89821.96	-89821.96	0.00	0.00
28	-88600.58	-88600.58	-89285.80	-89285.80	-89872.68	-89872.68	0.00	0.00
29	-88661.21	-88661.21	-89343.39	-89343.39	-89925.01	-89925.01	0.00	0.00
30	-88723.82	-88723.82	-89402.84	-89402.84	-89978.93	-89978.93	0.00	0.00
31	-88788.41	-88788.41	-89464.14	-89464.14	0.00	0.00	0.00	0.00
32	-88854.95	-88854.95	-89527.27	-89527.27	0.00	0.00	0.00	0.00
33	-88923.43	-88923.43	-89592.23	-89592.23	0.00	0.00	0.00	0.00
34	-88993.85	-88993.85	-89658.99	-89658.99	0.00	0.00	0.00	0.00
35	-89066.20	-89066.20	-89727.55	-89727.55	0.00	0.00	0.00	0.00
36	-89140.45	-89140.45	-89797.88	-89797.88	0.00	0.00	0.00	0.00
37	-89216.60	-89216.60	-89869.98	-89869.98	0.00	0.00	0.00	0.00
38	-89294.63	-89294.63	-89943.82	-89943.82	0.00	0.00	0.00	0.00
39	-89374.53	-89374.53	0.00	0.00	0.00	0.00	0.00	0.00
40	-89456.28	-89456.28	0.00	0.00	0.00	0.00	0.00	0.00
41	-89539.87	-89539.87	0.00	0.00	0.00	0.00	0.00	0.00
42	-89625.29	-89625.29	0.00	0.00	0.00	0.00	0.00	0.00
43	-89712.51	-89712.51	0.00	0.00	0.00	0.00	0.00	0.00
44	-89801.52	-89801.52	0.00	0.00	0.00	0.00	0.00	0.00
45	-89892.31	-89892.31	0.00	0.00	0.00	0.00	0.00	0.00
46	-89984.86	-89984.86	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 5. Rotational constants for $A^1\Pi$.

V	NL	B	D
0	64746.45	1.60428	7.38
1	66228.57	1.58152	7.48
2	67675.80	1.55834	7.59
3	69088.20	1.53505	7.72
4	70465.91	1.51153	7.83
5	71809.12	1.48784	7.94
6	73117.54	1.46405	8.06
7	74391.76	1.44007	8.19
8	75631.63	1.41567	8.32
9	76837.28	1.39096	8.46
10	78008.81	1.36655	8.60
11	79146.93	1.34168	8.76
12	80250.47	1.31628	8.93
13	81319.94	1.29055	9.15
14	82354.39	1.26421	9.43
15	83353.14	1.23696	9.79
16	84314.83	1.20877	10.0
17	85237.61	1.17892	10.1
18	86119.11	1.14669	11.6
19	86955.60	1.1108	12.3
20	87740.86	1.07131	15.44
21	88467.04	1.02268	17.68
22	89118.77	0.9529	30.1
23	89676.05	0.87422	51.3

Table 6. Band strength data. FREQVV is the rotationless wavenumber, QVV is the Frank-Condon factor, RCENT is the r-centroid, RE is the transition moment, and FELECT is the electronic f value. The wavenumbers, Frank-Condon factors, and r-centroids are from Albritton (personal communication). The transition moments are based on Mumma, Stoner, and Zipf (1971).

VA	VX	FREQVV	QVV	RCENT	RE	FELECT	VA	VX	FREQVV	QVV	RCENT	RE	FELECT
0	0	64747.67	1.2182E-01	1.1800	.7504	.11076	5	3	65459.75	8.8996E-02	1.1697	.7663	.11677
0	1	62604.40	2.7049E-01	1.2098	.7045	.09438	5	4	63395.72	1.5619E-03	1.2076	.7079	.09650
0	2	60487.61	2.8511E-01	1.2399	.6581	.07957	5	5	61357.96	8.7441E-02	1.2276	.6770	.08543
0	3	58397.23	1.8976E-01	1.2701	.6115	.06633	5	6	59346.42	1.2227E-02	1.2529	.6380	.07338
0	4	56333.20	8.9548E-02	1.3006	.5645	.05452	5	7	57361.01	4.6082E-02	1.2872	.5851	.05966
0	5	54295.45	3.1895E-02	1.3314	.5170	.04408	5	8	55401.65	9.0581E-02	1.3149	.5424	.04951
0	6	52283.90	8.9182E-03	1.3626	.4729	.03551	5	9	53468.28	1.0973E-02	1.3411	.5020	.04093
0	7	50298.49	2.0132E-03	1.3941	.4729	.03417	5	10	51560.82	3.0644E-02	1.3772	.4729	.03502
0	8	48339.14	3.7503E-04	1.4258	.4729	.03283	5	11	49679.18	1.2563E-01	1.4057	.4729	.03374
0	9	46405.77	5.8551E-05	1.4577	.4729	.03152	5	12	47823.29	1.4722E-01	1.4356	.4729	.03248
0	10	44498.30	7.7287E-06	1.4902	.4729	.03023	5	13	45993.06	9.7370E-02	1.4660	.4729	.03124
1	0	66229.76	2.7766E-01	1.1593	.7824	.12314	5	14	44188.42	4.3885E-02	1.4967	.4729	.03002
1	1	64086.49	1.4702E-01	1.1885	.7373	.10583	5	15	42403.28	1.4679E-02	1.5279	.4729	.02881
1	2	61969.69	8.5229E-04	1.2085	.7065	.09396	5	16	40655.55	3.8231E-03	1.5595	.4729	.02762
1	3	59879.32	8.9657E-02	1.2495	.6433	.07527	5	17	38927.15	8.0029E-04	1.5915	.4729	.02644
1	4	57815.29	2.0036E-01	1.2791	.5976	.06272	5	18	37223.99	1.3749E-04	1.6240	.4729	.02528
1	5	55777.54	1.8052E-01	1.3093	.5511	.05145	5	19	35546.00	1.9666E-05	1.6571	.4729	.02414
1	6	53765.99	9.9879E-02	1.3398	.5040	.04149	5	20	33893.09	2.3678E-06	1.6907	.4729	.02302
1	7	51780.58	3.9092E-02	1.3707	.4729	.03517	6	0	73118.71	3.1963E-02	1.0659	.9201	.18801
1	8	49821.22	1.1612E-02	1.4020	.4729	.03384	6	1	70975.44	1.1644E-01	1.0946	.8821	.16776
1	9	47887.85	2.7325E-03	1.4334	.4729	.03253	6	2	68858.65	4.6564E-02	1.1237	.8373	.14662
1	10	45980.39	5.2357E-04	1.4651	.4729	.03123	6	3	66768.27	3.0202E-02	1.1510	.7952	.12824
1	11	44098.75	8.3076E-05	1.4973	.4729	.02995	6	4	64704.24	5.6404E-02	1.1812	.7486	.11014
1	12	42242.86	1.1052E-05	1.5301	.4729	.02869	6	5	62666.49	2.9617E-02	1.2071	.7087	.09559
1	13	40412.64	1.2469E-06	1.5631	.4729	.02745	6	6	60654.95	3.5228E-02	1.2393	.6590	.08001
2	0	67677.09	2.3539E-01	1.1394	.8130	.13589	6	7	58669.53	6.4720E-02	1.2657	.6183	.06813
2	1	65533.82	6.9965E-03	1.1661	.7719	.11860	6	8	56710.18	6.4357E-04	1.3132	.5650	.05117
2	2	63417.03	1.0248E-01	1.1988	.7215	.10027	6	9	54776.81	7.6481E-02	1.3254	.5262	.04608
2	3	61326.65	1.0799E-01	1.2274	.6773	.08547	6	10	52869.35	6.0912E-02	1.3533	.4832	.03750
2	4	59262.62	1.4759E-03	1.2481	.6454	.07499	6	11	50987.71	1.0558E-05	1.2461	.6485	.06514
2	5	57224.87	7.1689E-02	1.2889	.5825	.05898	6	12	49131.82	6.1544E-02	1.4155	.4729	.03337
2	6	55213.32	1.7375E-01	1.3183	.5372	.04840	6	13	47301.59	1.3876E-01	1.4447	.4729	.03213
2	7	53227.91	1.6107E-01	1.3485	.4906	.03892	6	14	45496.95	1.3069E-01	1.4747	.4729	.03090
2	8	51268.56	9.0411E-02	1.3791	.4729	.03482	6	15	43717.80	7.5939E-02	1.5052	.4729	.02970
2	9	49335.19	3.5606E-02	1.4100	.4729	.03351	6	16	41964.07	3.1211E-02	1.5361	.4729	.02850
2	10	47427.72	1.0597E-02	1.4412	.4729	.03222	6	17	40235.68	9.7122E-03	1.5675	.4729	.02733
2	11	45546.09	2.4895E-03	1.4727	.4729	.03094	6	18	38532.52	2.3848E-03	1.5992	.4729	.02617
2	12	43690.20	4.7392E-04	1.5046	.4729	.02968	6	19	36854.53	4.7446E-04	1.6314	.4729	.02503
2	13	41859.97	7.4467E-05	1.5371	.4729	.02843	6	20	35201.61	7.7637E-05	1.6644	.4729	.02391
2	14	40055.33	9.8062E-06	1.5699	.4729	.02721	6	21	33573.69	1.0670E-05	1.6977	.4729	.02281
2	15	38276.18	1.0930E-06	1.6033	.4729	.02600	6	22	31970.68	1.2287E-06	1.7326	.4729	.02170
3	0	69089.52	1.7954E-01	1.1201	.8428	.14907	7	0	74392.85	1.5198E-02	1.0488	.9201	.19129
3	1	66946.24	3.0096E-02	1.1504	.7961	.12888	7	1	72249.58	8.3279E-02	1.0774	.9086	.18120
3	2	64829.45	1.1263E-01	1.1783	.7531	.11168	7	2	70132.78	8.7803E-02	1.1061	.8644	.15918
3	3	62739.08	1.1204E-04	1.2406	.6570	.08226	7	3	68098.38	7.3349E-02	1.1627	.7771	.12103
3	4	60675.05	1.0066E-01	1.2377	.6615	.08064	7	4	66394.63	3.1833E-03	1.1973	.7238	.10174
3	5	58637.30	7.2996E-02	1.2660	.6178	.06799	7	5	64929.08	6.9513E-02	1.2191	.6901	.09660
3	6	56625.75	2.8903E-04	1.3206	.5336	.04898	7	6	63473.67	5.3673E-06	1.0576	.9201	.15414
3	7	54640.34	8.3758E-02	1.3279	.5224	.04529	7	7	61994.32	6.8545E-02	1.2770	.6009	.06359
3	8	52680.98	1.6471E-01	1.3574	.4769	.03639	7	8	60505.95	2.3929E-02	1.3030	.5608	.05354
3	9	50747.61	1.4093E-01	1.3876	.4729	.03447	7	9	58943.67	2.2088E-02	1.3372	.5080	.04245
3	10	48840.15	7.5191E-02	1.4183	.4729	.03317	7	10	57261.84	8.5996E-02	1.3639	.4729	.03550
3	11	46958.51	2.8546E-02	1.4492	.4729	.03190	7	11	55405.95	2.6886E-02	1.3911	.4729	.03424
3	12	45102.62	8.2477E-03	1.4805	.4729	.03064	7	12	53575.73	9.5568E-03	1.4279	.4729	.03300
3	13	43272.39	1.8853E-03	1.5122	.4729	.02939	7	13	51771.08	9.3288E-02	1.4542	.4729	.03177
3	14	41467.75	3.4976E-04	1.5444	.4729	.02817	7	14	50091.94	1.4120E-01	1.4838	.4729	.03056
3	15	39688.61	5.3703E-05	1.5768	.4729	.02696	7	15	48328.21	1.1023E-01	1.5139	.4729	.02937
3	16	37934.88	6.9135E-06	1.6099	.4729	.02577	7	16	46509.81	5.6727E-02	1.5445	.4729	.02820
4	0	70467.16	1.1335E-01	1.1015	.8715	.16257	7	17	44806.66	2.1302E-02	1.5756	.4729	.02704
4	1	68323.89	1.0168E-01	1.1309	.8262	.14165	7	18	43128.66	6.1706E-03	1.6071	.4729	.02590
4	2	66207.10	2.4160E-02	1.1583	.7839	.12358	7	19	41475.75	1.4265E-03	1.6391	.4729	.02478
4	3	64116.72	7.0663E-02	1.1892	.7363	.10557	7	20	39847.82	2.6899E-04	1.6718	.4729	.02367
4	4	62052.69	5.4991E-02	1.2165	.6942	.09083	7	21	38244.81	4.2045E-05	1.7049	.4729	.02255
4	5	60014.94	1.4180E-02	1.2500	.6425	.07526	7	22	36666.67	5.4918E-06	1.7394	.4729	.02151
4	6	58003.39	1.0354E-01	1.2764	.6018	.06381	8	0	75632.70	6.8897E-03	1.0322	.9201	.19448
4	7	56017.98	3.8458E-02	1.3042	.5589	.05316	8	1	73489.43	5.1947E-02	1.0607	.9201	.18897
4	8	54058.63	8.8512E-03	1.3402	.5034	.04161	8	2	71372.64	9.8062E-02	1.0892	.8905	.17190
4	9	52125.26	1.0503E-01	1.3668	.4729	.03541	8	3	69282.26	2.1467E-02	1.1180	.8460	.15064
4	10	50217.79	1.5817E-01	1.3965	.4729	.03411	8	4	67218.23	3.2231E-02	1.1451	.8043	.13207
4	11	48336.16	1.1953E-01	1.4268	.4729	.03283	8	5	65180.48	4.6679E-02	1.1747	.7586	.11394
4	12	46480.27	5.8927E-02	1.4575	.4729	.03157	8	6	63168.94	1.7123E-02	1.1993	.7207	.09966
4	13	44650.04	2.1110E-02	1.4885	.4729	.03033	8	7	61283.52	4.4760E-02	1.2311	.6716	.08384
4	14	42845.40	5.8159E-03	1.5199	.4729	.02910	8	8	59224.17	2.9372E-02	1.2564	.6326	.07200
4	15	41066.25	1.2760E-03	1.5518	.4729	.02789	8	9	57290.80	2.2222E-02	1.2894	.5817	.05890
4	16	39312.52	2.2853E-04	1.5841	.4729	.02670	8	10	55383.34	6.3992E-02	1.3150	.5423	.04947
4	17	37584.12	3.3972E-05	1.6169	.4729	.02553	8	11	53501.70	6.1520E-04	1.3256	.5259	.04495
4	18	35880.97	4.2427E-06	1.6502	.4729	.02437	8	12	51645.81	5.6092E-02	1.3747	.4729	.03508
5	0	71810.19	6.2972E-02	1.0834	.8994	.17645	8	13	49815.58	6.9802E-02	1.4023	.4729	.03384
5	1	69666.91	1.3157E-01	1.1124	.8547	.15458	8	14	48010.94	4.0760E-03	1.4253	.4729	.03261
5	2	67550.12	3.3629E-03	1.1442	.8056	.13318	8	15	46231.79	3.5436E-02	1.4647	.4729	.03140

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Table 6. (Cont.)

VA	VX	FREQVV	QVV	RCENT	RE	FELECT	VA	VX	FREQVV	QVV	RCENT	RE	FELECT
8	16	44478.06	1.1792E-01	1.4932	.4729	.03021	11	13	53330.70	1.1202E-03	1.3328	.5148	.04294
8	17	42749.66	1.3330E-01	1.5229	.4729	.02904	11	14	51526.06	4.7672E-02	1.3765	.4729	.03500
8	18	41046.51	8.8497E-02	1.5532	.4729	.02788	11	15	49746.92	3.5561E-02	1.4024	.4729	.03379
8	19	39368.52	4.0703E-02	1.5841	.4729	.02674	11	16	47993.19	4.3367E-03	1.4404	.4729	.03260
8	20	37715.60	1.4027E-02	1.6153	.4729	.02562	11	17	46264.79	6.7067E-02	1.4626	.4729	.03143
8	21	36087.68	3.7876E-03	1.6471	.4729	.02451	11	18	44561.63	4.8674E-02	1.4898	.4729	.03027
8	22	34484.66	8.2365E-04	1.6795	.4729	.02342	11	19	42883.64	5.9595E-05	1.4506	.4729	.02913
8	23	32906.48	1.4714E-04	1.7124	.4729	.02235	11	20	41230.73	4.7833E-02	1.5526	.4729	.02801
8	24	31353.04	2.1838E-05	1.7465	.4729	.02130	11	21	39602.80	1.1824E-01	1.5812	.4729	.02690
8	25	29824.27	2.7328E-06	1.7802	.4729	.02026	11	22	37999.79	1.2216E-01	1.6111	.4729	.02581
9	0	76838.41	3.0166E-03	1.0159	.9201	.19758	11	23	36421.60	7.8290E-02	1.6416	.4729	.02474
9	1	74695.14	2.9504E-02	1.0445	.9201	.19207	11	24	34868.16	3.5674E-02	1.6726	.4729	.02368
9	2	72578.34	8.4024E-02	1.0729	.9156	.18482	11	25	33339.40	1.2349E-02	1.7042	.4729	.02265
9	3	70487.97	5.7175E-02	1.1012	.8719	.16279	11	26	31835.23	3.3804E-03	1.7364	.4729	.02162
9	4	68423.94	1.4943E-03	1.1265	.8329	.14420	11	27	30355.58	7.5072E-04	1.7692	.4729	.02062
9	5	66386.19	6.2227E-02	1.1572	.7856	.12445	11	28	28900.39	1.3795E-04	1.8026	.4729	.01963
9	6	64374.64	3.8128E-03	1.1906	.7341	.10538	11	29	27469.59	2.1349E-05	1.8357	.4729	.01866
9	7	62389.23	5.4402E-02	1.2124	.7005	.09299	11	30	26063.12	2.7954E-06	1.8720	.4729	.01770
9	8	60429.88	3.7725E-03	1.2479	.6457	.07654	12	0	80251.53	2.2398E-04	.9684	.9201	.20636
9	9	58496.51	5.9786E-02	1.2687	.6137	.06691	12	1	78108.26	3.8824E-03	.9982	.9201	.20084
9	10	56589.04	4.2669E-04	1.2750	.6039	.06270	12	2	75991.47	2.4121E-02	1.0268	.9201	.19540
9	11	54707.40	5.6529E-02	1.3266	.5244	.05570	12	3	73901.09	6.3409E-02	1.0548	.9201	.19003
9	12	52851.51	3.0735E-02	1.3526	.4843	.03765	12	4	71837.06	5.7724E-02	1.0826	.9006	.17700
9	13	51021.29	1.0625E-02	1.3879	.4729	.03466	12	5	69799.31	2.3300E-03	1.1107	.8573	.15583
9	14	49216.64	7.7003E-02	1.4130	.4729	.03343	12	6	67787.77	3.4231E-02	1.1378	.8155	.13694
9	15	47437.50	3.9139E-02	1.4404	.4729	.03222	12	7	65802.35	3.0493E-02	1.1664	.7714	.11894
9	16	45683.77	1.6323E-03	1.4843	.4729	.03103	12	8	63843.00	9.1385E-03	1.1891	.7364	.10517
9	17	43955.37	6.8203E-02	1.5031	.4729	.02986	12	9	61909.63	4.2167E-02	1.2204	.6881	.08905
9	18	42252.22	1.3084E-01	1.5323	.4729	.02870	12	10	60002.17	3.8672E-03	1.2399	.6581	.07893
9	19	40574.22	1.1782E-01	1.5622	.4729	.02756	12	11	58120.53	4.3549E-02	1.2752	.6036	.06433
9	20	38921.31	6.7894E-02	1.5928	.4729	.02644	12	12	56264.64	8.1033E-03	1.2975	.5693	.05538
9	21	37293.38	2.8177E-02	1.6238	.4729	.02533	12	13	54434.41	3.5550E-02	1.3315	.5168	.04417
9	22	35690.37	8.9516E-03	1.6553	.4729	.02424	12	14	52629.77	2.8249E-02	1.3561	.4789	.03666
9	23	34112.18	2.2558E-03	1.6875	.4729	.02317	12	15	50850.62	1.0661E-02	1.3907	.4729	.03454
9	24	32558.75	4.6214E-04	1.7201	.4729	.02212	12	16	49096.89	5.8382E-02	1.4145	.4729	.03335
9	25	31029.98	7.8138E-05	1.7538	.4729	.02108	12	17	47368.50	7.4270E-03	1.4378	.4729	.03218
9	26	29525.81	1.1075E-05	1.7875	.4729	.02006	12	18	45665.34	2.8760E-02	1.4746	.4729	.03102
9	27	28046.16	1.3277E-06	1.8222	.4729	.01905	12	19	43987.35	7.2205E-02	1.5010	.4729	.02988
10	0	78010.10	1.2880E-03	.9999	.9201	.20059	12	20	42334.43	2.0672E-02	1.5273	.4729	.02876
10	1	75866.82	1.5677E-02	1.0287	.9201	.19508	12	21	40706.51	7.9609E-03	1.5666	.4729	.02765
10	2	73750.03	6.1178E-02	1.0571	.9201	.18964	12	22	39103.50	7.8624E-02	1.5915	.4729	.02656
10	3	71659.65	7.7247E-02	1.0852	.8966	.17499	12	23	37525.31	1.2647E-01	1.6208	.4729	.02549
10	4	69595.62	8.7532E-03	1.1137	.8527	.15370	12	24	35971.87	1.0666E-01	1.6509	.4729	.02443
10	5	67557.87	3.3299E-02	1.1407	.8110	.13499	12	25	34443.11	5.9922E-02	1.6816	.4729	.02340
10	6	65546.33	3.8376E-02	1.1698	.7662	.11688	12	26	32938.93	2.4742E-02	1.7130	.4729	.02237
10	7	63560.92	1.1329E-02	1.1932	.7301	.10291	12	27	31459.29	7.9227E-03	1.7449	.4729	.02137
10	8	61601.56	4.5558E-02	1.2249	.6812	.08683	12	28	30004.10	2.0343E-03	1.7774	.4729	.02038
10	9	59668.19	1.1071E-02	1.2480	.6456	.07554	12	29	28573.30	4.2876E-04	1.8105	.4729	.01941
10	10	57760.73	3.9504E-02	1.2811	.5945	.06202	12	30	27166.83	7.5785E-05	1.8431	.4729	.01845
10	11	55879.09	2.8378E-02	1.3061	.5560	.05247	12	31	25784.63	1.1313E-05	1.8785	.4729	.01751
10	12	54023.20	1.5523E-02	1.3398	.5040	.04169	12	32	24426.66	1.4776E-06	1.9067	.4729	.01659
10	13	52192.97	6.1341E-02	1.3646	.4729	.03545	13	0	81320.94	9.2219E-05	.9527	.9201	.20911
10	14	50388.33	3.3764E-03	1.3856	.4729	.03423	13	1	79177.66	1.8516E-03	.9833	.9201	.20359
10	15	48609.18	4.1080E-02	1.4244	.4729	.03302	13	2	77060.87	1.3783E-02	1.0122	.9201	.19815
10	16	46855.46	7.2611E-02	1.4515	.4729	.03183	13	3	74970.49	4.6507E-02	1.0404	.9201	.19278
10	17	45127.06	1.1571E-02	1.4770	.4729	.03065	13	4	72906.47	6.5502E-02	1.0681	.9201	.18747
10	18	43423.90	1.8847E-02	1.5147	.4729	.02950	13	5	70868.71	1.9784E-02	1.0956	.8806	.16693
10	19	41745.91	9.8022E-02	1.5421	.4729	.02836	13	6	68857.17	8.8446E-03	1.1230	.8383	.14700
10	20	40092.99	1.3147E-01	1.5716	.4729	.02723	13	7	66871.76	4.6073E-02	1.1509	.7953	.12846
10	21	38465.07	9.8375E-02	1.6018	.4729	.02613	13	8	64912.40	2.0115E-03	1.1848	.7430	.10886
10	22	36862.06	5.0054E-02	1.6326	.4729	.02504	13	9	62979.03	3.7153E-02	1.2039	.7136	.09741
10	23	35283.87	1.8904E-02	1.6638	.4729	.02397	13	10	61071.57	1.0888E-02	1.2354	.6650	.08204
10	24	33730.43	5.5574E-03	1.6957	.4729	.02291	13	11	59189.93	3.1764E-02	1.2574	.6311	.07161
10	25	32201.67	1.3118E-03	1.7281	.4729	.02187	13	12	57334.04	1.1908E-02	1.2898	.5811	.05881
10	26	30697.50	2.5359E-04	1.7614	.4729	.02085	13	13	55503.81	3.7777E-02	1.3127	.5458	.05023
10	27	29217.85	4.0842E-05	1.7950	.4729	.01985	13	14	53699.17	3.9412E-03	1.3487	.4903	.03921
10	28	27762.66	5.5557E-06	1.8287	.4729	.01886	13	15	51920.03	4.9667E-02	1.3692	.4729	.03527
11	0	79147.83	5.4030E-04	.9840	.9201	.20352	13	16	50166.30	2.3316E-03	1.3871	.4729	.03408
11	1	77004.55	7.9392E-03	1.0133	.9201	.19801	13	17	48437.90	3.9561E-02	1.4269	.4729	.03290
11	2	74887.76	3.9925E-02	1.0417	.9201	.19256	13	18	46734.74	4.0026E-02	1.4526	.4729	.03174
11	3	72797.39	7.6658E-02	1.0698	.9201	.18719	13	19	45056.75	8.6312E-04	1.5012	.4729	.03060
11	4	70733.36	3.5498E-02	1.0977	.8773	.16539	13	20	43403.83	5.6101E-02	1.5126	.4729	.02948
11	5	68695.60	4.6448E-03	1.1246	.8359	.14579	13	21	41775.91	5.6501E-02	1.5396	.4729	.02838
11	6	66684.06	5.3602E-02	1.1533	.7916	.12693	13	22	40172.90	2.8200E-03	1.5594	.4729	.02729
11	7	64698.65	3.3024E-03	1.1864	.7406	.10779	13	23	38594.71	3.0341E-02	1.6030	.4729	.02622
11	8	62739.29	4.3805E-02	1.2073	.7083	.09562	13	24	37041.27	1.0329E-01	1.6309	.4729	.02516
11	9	60805.92	8.7430E-03	1.2398	.6582	.08003	13	25	35512.51	1.2390E-01	1.6606	.4729	.02412
11	10	58898.46	4.3993E-02	1.2622	.6237	.06959	13	26	34008.34	8.8743E-02	1.6910	.4729	.02310
11	11	57016.82	4.2293E-03	1.2977	.5689	.05606	13	27	32528.69	4.4520E-02	1.7221	.4729	.02210
11	12	55160.93	5.3790E-02	1.3188	.5364	.04821	13	28	31073.50	1.6875E-02	1.7538	.4729	.02111

Table 6. (Cont.)

VA	VX	FREQVV	QVV	RCENT	RE	FELECT	VA	VX	FREQVV	QVV	RCENT	RE	FELECT
13	29	29642.70	5.0519E-03	1.7858	.4729	.02013	16	1	82172.60	1.8553E-04	.9397	.9201	.21130
13	30	28236.23	1.2296E-03	1.8186	.4729	.01918	16	2	80055.81	2.1059E-03	.9705	.9201	.20585
13	31	26854.03	2.4951E-04	1.8508	.4729	.01824	16	3	77965.43	1.2097E-02	.9995	.9201	.20048
13	32	25496.07	4.2680E-05	1.8852	.4729	.01732	16	4	75901.40	3.6816E-02	1.0275	.9201	.19517
13	33	24162.28	6.3358E-06	1.9152	.4729	.01641	16	5	73863.65	5.4042E-02	1.0549	.9201	.18993
14	0	82355.46	3.7875E-05	.9372	.9201	.21177	16	6	71852.11	2.4292E-02	1.0819	.9017	.17746
14	1	80212.19	8.6787E-04	.9686	.9201	.20625	16	7	69866.69	1.1799E-03	1.1104	.8578	.15615
14	2	78095.40	7.5629E-03	.9980	.9201	.20081	16	8	67907.34	3.4719E-02	1.1365	.8175	.13786
14	3	76005.02	3.1360E-02	1.0263	.9201	.19544	16	9	65973.97	1.4627E-02	1.1648	.7739	.12002
14	4	73940.99	6.0744E-02	1.0541	.9201	.19013	16	10	64066.51	1.0909E-02	1.1869	.7398	.10651
14	5	71903.24	4.0016E-02	1.0815	.9023	.17783	16	11	62184.87	3.1204E-02	1.2168	.6937	.09090
14	6	69891.70	3.9704E-05	1.1070	.8630	.15812	16	12	60328.98	1.3395E-03	1.2301	.6732	.08305
14	7	67906.28	3.4926E-02	1.1363	.8178	.13796	16	13	58498.75	3.5800E-02	1.2691	.6130	.06678
14	8	65946.93	2.2606E-02	1.1647	.7740	.12002	16	14	56694.11	1.1889E-04	1.2543	.6359	.06963
14	9	64013.56	9.1565E-03	1.1870	.7396	.10638	16	15	54914.96	3.7435E-02	1.3228	.5302	.04690
14	10	62106.10	3.7131E-02	1.2177	.6923	.09042	16	16	53161.23	8.9309E-04	1.3347	.5119	.04231
14	11	60224.46	1.6300E-03	1.2326	.6693	.08196	16	17	51432.83	3.6899E-02	1.3778	.4729	.03494
14	12	58368.57	4.0665E-02	1.2712	.6098	.06593	16	18	49729.68	8.6146E-03	1.3995	.4729	.03378
14	13	56538.34	1.3770E-03	1.2860	.5870	.05917	16	19	48051.69	2.4852E-02	1.4340	.4729	.03264
14	14	54733.70	4.0679E-02	1.3261	.5252	.04585	16	20	46398.77	3.2869E-02	1.4582	.4729	.03152
14	15	52954.55	7.2883E-03	1.3479	.4915	.03886	16	21	44770.85	1.9837E-03	1.4996	.4729	.03041
14	16	51200.82	3.1072E-02	1.3824	.4729	.03478	16	22	43167.83	4.9135E-02	1.5163	.4729	.02932
14	17	49472.42	2.9654E-02	1.4067	.4729	.03360	16	23	41589.65	2.1682E-02	1.5409	.4729	.02825
14	18	47769.27	6.1672E-03	1.4427	.4729	.03245	16	24	40036.21	7.3409E-03	1.5793	.4729	.02719
14	19	46091.28	5.4784E-02	1.4651	.4729	.03131	16	25	38507.44	6.1184E-02	1.6204	.4729	.02616
14	20	44438.36	1.3191E-02	1.4892	.4729	.03018	16	26	37003.27	4.4235E-02	1.6291	.4729	.02513
14	21	42810.44	1.7600E-02	1.5258	.4729	.02908	16	27	35523.63	4.2802E-04	1.6305	.4729	.02413
14	22	41207.42	6.8894E-02	1.5512	.4729	.02799	16	28	34068.44	3.6228E-02	1.6933	.4729	.02314
14	23	39629.24	3.1431E-02	1.5779	.4729	.02692	16	29	32637.63	1.0292E-01	1.7217	.4729	.02217
14	24	38075.80	1.4957E-03	1.6261	.4729	.02586	16	30	31231.16	1.1879E-01	1.7515	.4729	.02121
14	25	36547.03	5.8495E-02	1.6418	.4729	.02482	16	31	29848.97	8.5456E-02	1.7822	.4729	.02028
14	26	35042.86	1.1784E-01	1.6708	.4729	.02380	16	32	28491.00	4.4243E-02	1.8132	.4729	.01935
14	27	33563.22	1.1380E-01	1.7008	.4729	.02280	16	33	27157.22	1.7685E-02	1.8447	.4729	.01845
14	28	32108.03	7.1291E-02	1.7316	.4729	.02181	16	34	25847.59	5.7103E-03	1.8761	.4729	.01756
14	29	30677.22	3.2519E-02	1.7629	.4729	.02084	16	35	24562.07	1.5329E-03	1.9079	.4729	.01668
14	30	29270.75	1.1480E-02	1.7946	.4729	.01988	16	36	23300.66	3.5056E-04	1.9394	.4729	.01583
14	31	27888.56	3.2551E-03	1.8270	.4729	.01894	16	37	22063.33	6.9706E-05	1.9700	.4729	.01499
14	32	26530.59	7.6348E-04	1.8589	.4729	.01802	17	0	85238.64	2.6918E-06	.8910	.9201	.21918
14	33	25196.81	1.5054E-04	1.8923	.4729	.01712	17	1	83095.37	8.5525E-05	.9255	.9201	.21367
14	34	23887.18	2.5581E-05	1.9234	.4729	.01623	17	2	80978.57	1.0864E-03	.9571	.9201	.20823
14	35	22601.66	3.7557E-06	1.9578	.4729	.01535	17	3	78888.20	7.1264E-03	.9866	.9201	.20285
15	0	83354.21	1.5581E-05	.9217	.9201	.21433	17	4	76824.17	2.5709E-02	1.0149	.9201	.19754
15	1	81210.94	4.0236E-04	.9541	.9201	.20882	17	5	74786.42	4.8582E-02	1.0424	.9201	.19230
15	2	79094.15	4.0310E-03	.9841	.9201	.20338	17	6	72774.87	3.7331E-02	1.0694	.9201	.18713
15	3	77003.77	1.9907E-02	1.0127	.9201	.19800	17	7	70789.46	1.9221E-03	1.0953	.8810	.16692
15	4	74939.74	4.9460E-02	1.0405	.9201	.19270	17	8	68830.11	1.9246E-02	1.1237	.8373	.14656
15	5	72901.99	5.2138E-02	1.0679	.9201	.18746	17	9	66896.74	2.9867E-02	1.1509	.7953	.12853
15	6	70890.44	8.6643E-03	1.0949	.8817	.16739	17	10	64989.27	1.4350E-05	1.1005	.8730	.15046
15	7	68905.03	1.3876E-02	1.1226	.8390	.14732	17	11	63107.63	3.0886E-02	1.2025	.7157	.09820
15	8	66945.68	3.8493E-02	1.1500	.7967	.12908	17	12	61251.74	6.9564E-03	1.2339	.6673	.08286
15	9	65012.31	5.9616E-04	1.1889	.7367	.10718	17	13	59421.52	2.1802E-02	1.2536	.6369	.07323
15	10	63104.84	3.3295E-02	1.2022	.7162	.09833	17	14	57616.87	1.4816E-02	1.2847	.5890	.06072
15	11	61223.21	1.0032E-02	1.2334	.6681	.08301	17	15	55837.73	1.8151E-02	1.3063	.5557	.05237
15	12	59367.32	2.4709E-02	1.2544	.6357	.07288	17	16	54084.00	1.6112E-02	1.3380	.5068	.04220
15	13	57537.09	1.5605E-02	1.2859	.5871	.06025	17	17	52355.60	2.2449E-02	1.3606	.4729	.03556
15	14	55732.45	2.4884E-02	1.3085	.5523	.05164	17	18	50652.45	9.9921E-03	1.3938	.4729	.03441
15	15	53953.30	1.2441E-02	1.3410	.5022	.04133	17	19	48974.45	3.4263E-02	1.4157	.4729	.03327
15	16	52199.57	3.4723E-02	1.3638	.4729	.03546	17	20	47321.54	6.9078E-04	1.4630	.4729	.03214
15	17	50471.17	2.6289E-03	1.4020	.4729	.03428	17	21	45693.61	4.1884E-02	1.4721	.4729	.03104
15	18	48768.02	4.6270E-02	1.4201	.4729	.03313	17	22	44090.60	1.0143E-02	1.4947	.4729	.02995
15	19	47090.03	4.8383E-03	1.4411	.4729	.03199	17	23	42512.41	1.9163E-02	1.5308	.4729	.02888
15	20	45437.11	3.0464E-02	1.4781	.4729	.03086	17	24	40958.98	4.8527E-02	1.5550	.4729	.02782
15	21	43809.19	4.4659E-02	1.5033	.4729	.02976	17	25	39430.21	4.0338E-03	1.5750	.4729	.02678
15	22	42206.17	1.4352E-04	1.4838	.4729	.02867	17	26	37926.04	2.6507E-02	1.6160	.4729	.02576
15	23	40627.99	4.3003E-02	1.5634	.4729	.02760	17	27	36446.39	6.5188E-02	1.6419	.4729	.02476
15	24	39074.55	6.2676E-02	1.5902	.4729	.02654	17	28	34991.20	2.3899E-02	1.6683	.4729	.02377
15	25	37545.78	1.0162E-02	1.6145	.4729	.02550	17	29	33560.40	2.8019E-03	1.7128	.4729	.02280
15	26	36041.61	1.4856E-02	1.6549	.4729	.02448	17	30	32153.93	5.8337E-02	1.7332	.4729	.02184
15	27	34561.97	8.4300E-02	1.6815	.4729	.02348	17	31	30771.74	1.1316E-01	1.7623	.4729	.02090
15	28	33106.77	1.2220E-01	1.7110	.4729	.02249	17	32	29413.77	1.1108E-01	1.7925	.4729	.01998
15	29	31675.97	9.9894E-02	1.7413	.4729	.02152	17	33	28079.99	7.2850E-02	1.8231	.4729	.01907
15	30	30269.50	5.6166E-02	1.7724	.4729	.02056	17	34	26770.35	3.5615E-02	1.8542	.4729	.01818
15	31	28887.31	2.3747E-02	1.8037	.4729	.01962	17	35	25484.84	1.3794E-02	1.8852	.4729	.01731
15	32	27529.34	7.9334E-03	1.8357	.4729	.01870	17	36	24223.42	4.3977E-03	1.9163	.4729	.01645
15	33	26195.56	2.1703E-03	1.8673	.4729	.01779	17	37	22986.10	1.1868E-03	1.9476	.4729	.01561
15	34	24885.92	4.9692E-04	1.8999	.4729	.01690	18	0	86119.99	1.1391E-06	.8759	.9201	.22145
15	35	23600.41	9.7476E-05	1.9314	.4729	.01603	18	1	83976.71	3.9596E-05	.9114	.9201	.21593
15	36	22339.00	1.6606E-05	1.9633	.4729	.01517	18	2	81859.92	5.5699E-04	.9440	.9201	.21049
15	37	21101.67	2.4785E-06	1.9983	.4729	.01433	18	3	79769.55	4.1099E-03	.9742	.9201	.20512
16	0	84315.87	6.4454E-06	.9063	.9201	.21681	18	4	77705.52	1.7146E-02	1.0027	.9201	.19981

Table 6. (Cont.)

VA	VX	FREQVV	QVV	RCENT	RE	FELECT	VA	VX	FREQVV	QVV	RCENT	RE	FELECT
18	5	75667.76	3.9653E-02	1.0304	.9201	.19457	20	9	69399.97	1.1843E-02	1.1161	.8490	.15194
18	6	73656.22	4.3558E-02	1.0574	.9201	.18940	20	10	67492.51	2.6090E-02	1.1425	.8083	.13393
18	7	71670.81	1.1235E-02	1.0839	.8986	.17580	20	11	65610.87	1.3090E-03	1.1743	.7592	.11488
18	8	69711.45	5.4311E-03	1.1120	.8553	.15491	20	12	63754.98	1.8109E-02	1.1928	.7307	.10340
18	9	67778.08	3.7373E-02	1.1384	.8146	.13661	20	13	61924.75	1.4997E-02	1.2218	.6860	.08852
18	10	65870.62	7.0214E-03	1.1671	.7703	.11873	20	14	60120.11	5.2943E-03	1.2403	.6575	.07894
18	11	63988.98	1.4188E-02	1.1887	.7370	.10558	20	15	58340.96	2.3954E-02	1.2721	.6084	.06560
18	12	62133.09	2.4059E-02	1.2180	.6918	.09034	20	16	56587.23	7.3982E-04	1.2813	.5942	.06070
18	13	60302.86	2.3304E-03	1.2339	.6673	.08157	20	17	54858.83	2.6857E-02	1.3236	.5290	.04663
18	14	58498.22	3.0545E-02	1.2693	.6127	.06672	20	18	53155.68	1.2913E-04	1.3143	.5433	.04767
18	15	56719.08	6.9839E-05	1.2416	.6555	.07402	20	19	51477.69	2.8225E-02	1.3767	.4729	.03497
18	16	54965.35	3.2305E-02	1.3219	.5316	.04719	20	20	49824.77	7.7566E-04	1.3862	.4729	.03384
18	17	53236.95	3.4734E-05	1.2752	.6036	.05893	20	21	48196.85	2.8091E-02	1.4303	.4729	.03274
18	18	51533.79	3.3755E-02	1.3758	.4729	.03500	20	22	46593.83	5.8423E-03	1.4505	.4729	.03165
18	19	49855.80	1.7706E-03	1.3908	.4729	.03386	20	23	45015.65	2.0764E-02	1.4854	.4729	.03058
18	20	48202.88	3.1208E-02	1.4305	.4729	.03274	20	24	43462.21	2.1534E-02	1.5085	.4729	.02952
18	21	46574.96	1.2961E-02	1.4530	.4729	.03164	20	25	41933.44	4.4048E-03	1.5461	.4729	.02848
18	22	44971.95	1.5748E-02	1.4873	.4729	.03055	20	26	40429.27	3.8359E-02	1.5653	.4729	.02746
18	23	43393.76	3.7273E-02	1.5108	.4729	.02948	20	27	38949.63	6.0517E-03	1.5862	.4729	.02646
18	24	41840.32	2.9401E-05	1.4289	.4729	.02842	20	28	37494.43	1.9085E-02	1.6248	.4729	.02547
18	25	40311.56	3.8498E-02	1.5689	.4729	.02738	20	29	36063.63	4.4456E-02	1.6492	.4729	.02450
18	26	38807.39	3.3522E-02	1.5941	.4729	.02636	20	30	34657.16	5.5124E-03	1.6703	.4729	.02354
18	27	37327.74	3.9269E-04	1.6574	.4729	.02536	20	31	33274.97	1.8527E-02	1.7111	.4729	.02260
18	28	35872.55	4.5489E-02	1.6552	.4729	.02437	20	32	31917.00	6.0143E-02	1.7371	.4729	.02168
18	29	34441.75	5.7439E-02	1.6820	.4729	.02339	20	33	30583.22	3.4125E-02	1.7642	.4729	.02077
18	30	33035.28	9.1232E-03	1.7068	.4729	.02244	20	34	29273.59	7.7864E-05	1.7437	.4729	.01988
18	31	31653.08	1.2812E-02	1.7474	.4729	.02150	20	35	27988.07	3.1939E-02	1.8280	.4729	.01901
18	32	30295.12	7.6061E-02	1.7737	.4729	.02058	20	36	26726.66	9.0698E-02	1.8565	.4729	.01815
18	33	28961.33	1.1646E-01	1.8034	.4729	.01967	20	37	25489.33	1.1335E-01	1.8859	.4729	.01731
18	34	27651.70	1.0252E-01	1.8335	.4729	.01878	21	0	88467.04	9.6600E-08	.8373	.9201	.22748
18	35	26366.18	6.3386E-02	1.8641	.4729	.01791	21	1	86324.73	4.2068E-06	.8713	.9201	.22197
18	36	25104.77	3.3014E-02	1.8947	.4729	.01705	21	2	84207.94	7.6064E-05	.9073	.9201	.21653
18	37	23867.44	1.1616E-02	1.9253	.4729	.01621	21	3	82117.57	7.4349E-04	.9398	.9201	.21115
19	0	86955.60	4.9000E-07	.8639	.9201	.22359	21	4	80053.54	4.3152E-03	.9698	.9201	.20585
19	1	84812.98	1.8494E-05	.8976	.9201	.21808	21	5	78015.79	1.5226E-02	.9982	.9201	.20061
19	2	82696.19	2.8538E-04	.9313	.9201	.21264	21	6	76004.24	3.1359E-02	1.0256	.9201	.19543
19	3	80605.81	2.3386E-03	.9622	.9201	.20727	21	7	74018.83	3.2093E-02	1.0523	.9201	.19033
19	4	78541.79	1.1064E-02	.9911	.9201	.20196	21	8	72059.47	8.2387E-03	1.0783	.9073	.18017
19	5	76504.03	3.0218E-02	1.0190	.9201	.19672	21	9	70126.10	3.4665E-03	1.1066	.8636	.15888
19	6	74492.49	4.3169E-02	1.0461	.9201	.19155	21	10	68218.64	2.3970E-02	1.1322	.8241	.14075
19	7	72507.08	2.7026E-02	1.0727	.9159	.18476	21	11	66337.00	8.3117E-03	1.1598	.7816	.12310
19	8	70547.72	5.7671E-05	1.1086	.8605	.15869	21	12	64481.11	6.2490E-03	1.1810	.7489	.10985
19	9	68614.35	2.3609E-02	1.1267	.8326	.14449	21	13	62650.88	2.1957E-02	1.2100	.7042	.09437
19	10	66706.89	1.9585E-02	1.1538	.7908	.12673	21	14	60846.24	6.5773E-05	1.2831	.5915	.06466
19	11	64825.25	1.5463E-03	1.1723	.7623	.11443	21	15	59067.10	2.1598E-02	1.2600	.6271	.07055
19	12	62969.36	2.8082E-02	1.2049	.7120	.09698	21	16	57313.37	4.1387E-03	1.2925	.5770	.05795
19	13	61139.13	2.8667E-03	1.2383	.6605	.08103	21	17	55584.97	1.7519E-02	1.3107	.5489	.05087
19	14	59334.49	2.1585E-02	1.2553	.6343	.07252	21	18	53881.81	8.0899E-03	1.3420	.5006	.04102
19	15	57555.34	1.0547E-02	1.2863	.5865	.06014	21	19	52203.82	1.6379E-02	1.3631	.4729	.03546
19	16	55801.62	1.6318E-02	1.3068	.5549	.05220	21	20	50550.91	8.2654E-03	1.3952	.4729	.03434
19	17	54073.22	1.4292E-02	1.3381	.5066	.04216	21	21	48922.98	1.9882E-02	1.4160	.4729	.03323
19	18	52370.06	1.6833E-02	1.3600	.4729	.03557	21	22	47319.97	4.3816E-03	1.4507	.4729	.03214
19	19	50692.07	1.2245E-02	1.3923	.4729	.03443	21	23	45741.78	2.6977E-02	1.4700	.4729	.03107
19	20	49039.15	2.3934E-02	1.4140	.4729	.03331	21	24	44188.34	4.8436E-05	1.5658	.4729	.03002
19	21	47411.23	4.7910E-03	1.4492	.4729	.03220	21	25	42659.58	2.9903E-02	1.5256	.4729	.02898
19	22	45808.22	3.4718E-02	1.4692	.4729	.03112	21	26	41155.41	7.8255E-03	1.5464	.4729	.02795
19	23	44230.03	3.4260E-04	1.4694	.4729	.03004	21	27	39675.76	1.5058E-02	1.5830	.4729	.02695
19	24	42676.59	3.3118E-02	1.5258	.4729	.02899	21	28	38220.57	3.3010E-02	1.6062	.4729	.02596
19	25	41147.83	2.0279E-02	1.5491	.4729	.02795	21	29	36789.77	4.7021E-04	1.6078	.4729	.02499
19	26	39643.66	6.2325E-03	1.5871	.4729	.02693	21	30	35383.30	2.8735E-02	1.6657	.4729	.02403
19	27	38164.01	4.7063E-02	1.6086	.4729	.02592	21	31	34001.10	3.7367E-02	1.6908	.4729	.02310
19	28	36708.82	1.6494E-02	1.6328	.4729	.02493	21	32	32643.14	1.2696E-03	1.7054	.4729	.02217
19	29	35278.02	7.8869E-03	1.6725	.4729	.02396	21	33	31309.35	2.5304E-02	1.7529	.4729	.02127
19	30	33871.55	5.6895E-02	1.6955	.4729	.02301	21	34	29999.72	5.8716E-02	1.7794	.4729	.02038
19	31	32489.35	4.4927E-02	1.7228	.4729	.02207	21	35	28714.21	2.8795E-02	1.8072	.4729	.01950
19	32	31131.39	1.9290E-03	1.7411	.4729	.02115	21	37	26215.46	3.1367E-02	1.8699	.4729	.01781
19	33	29797.60	2.4364E-02	1.7868	.4729	.02024	22	0	89118.77	4.4400E-08	.8222	.9201	.22916
19	34	28487.97	8.6990E-02	1.8150	.4729	.01935	22	1	86977.15	2.0614E-06	.8593	.9201	.22365
19	35	27202.45	1.1567E-01	1.8446	.4729	.01848	22	2	84860.36	3.9802E-05	.8964	.9201	.21821
19	36	25941.04	9.5785E-02	1.8747	.4729	.01762	22	3	82769.98	4.1798E-04	.9298	.9201	.21283
19	37	24703.71	5.7954E-02	1.9049	.4729	.01678	22	4	80705.96	2.6306E-03	.9604	.9201	.20752
20	0	87740.86	2.1500E-07	.8494	.9201	.22561	22	5	78668.20	1.0232E-02	.9891	.9201	.20228
20	1	85598.60	8.7501E-06	.8842	.9201	.22010	22	6	76656.66	2.3988E-02	1.0166	.9201	.19711
20	2	83481.81	1.4680E-04	.9190	.9201	.21466	22	7	74671.25	3.0191E-02	1.0435	.9201	.19201
20	3	81391.43	1.3209E-03	.9507	.9201	.20929	22	8	72711.89	1.3427E-02	1.0697	.9201	.18697
20	4	79327.40	6.9725E-03	.9801	.9201	.20398	22	9	70778.52	1.9462E-04	1.1016	.8713	.16323
20	5	77289.65	2.1886E-02	1.0082	.9201	.19874	22	10	68871.06	1.6969E-02	1.1232	.8380	.14692
20	6	75278.11	3.8329E-02	1.0354	.9201	.19357	22	11	66989.42	1.4473E-02	1.1498	.7970	.12926
20	7	73292.69	2.9532E-02	1.0621	.9201	.18846	22	12	65133.53	4.9825E-04	1.1650	.7736	.11840
20	8	71333.34	2.4038E-03	1.0876	.8929	.17276	22	13	63303.30	1.9167E-02	1.2000	.7196	.09957

Table 6. (Cont.)

VA	VX	FREQVV	QVV	RCENT	RE	FELECT
22	14	61498.66	4.7350E-03	1.2303	.6729	.08458
22	15	59719.51	1.0580E-02	1.2488	.6444	.07532
22	16	57965.79	1.3530E-02	1.2789	.5979	.06295
22	17	56237.39	4.1830E-03	1.2969	.5702	.05554
22	18	54534.23	1.8344E-02	1.3293	.5202	.04483
22	19	52856.24	2.0185E-03	1.3467	.4934	.03908
22	20	51203.32	2.0085E-02	1.3816	.4729	.03478
22	21	49575.40	2.5005E-03	1.3990	.4729	.03367
22	22	47972.39	1.9600E-02	1.4346	.4729	.03259
22	23	46394.20	6.4108E-03	1.4547	.4729	.03151
22	24	44840.76	1.4694E-02	1.4886	.4729	.03046
22	25	43312.00	1.6453E-02	1.5111	.4729	.02942
22	26	41807.83	4.3427E-03	1.5476	.4729	.02840
22	27	40328.18	2.8620E-02	1.5669	.4729	.02739
22	28	38872.99	1.5206E-03	1.5809	.4729	.02640
22	29	37442.19	2.1823E-02	1.6246	.4729	.02543
22	30	36035.72	2.5628E-02	1.6486	.4729	.02448
22	31	34653.52	1.0456E-04	1.7376	.4729	.02354
22	32	33295.56	3.1366E-02	1.7084	.4729	.02262
22	33	31961.77	3.2317E-02	1.7345	.4729	.02171
22	34	30652.14	6.2838E-04	1.7438	.4729	.02082
22	35	29366.62	2.4258E-02	1.7961	.4729	.01995
22	36	28105.21	5.5499E-02	1.8233	.4729	.01909
22	37	26867.88	3.1129E-02	1.8514	.4729	.01825
23	0	89676.05	2.1600E-08	.8103	.9201	.23059
23	1	87532.95	1.0613E-06	.8485	.9201	.22508
23	2	85416.16	2.1673E-05	.8867	.9201	.21964
23	3	83325.78	2.4181E-04	.9210	.9201	.21426
23	4	81261.75	1.6282E-03	.9521	.9201	.20895
23	5	79224.00	6.8588E-03	.9811	.9201	.20371
23	6	77212.45	1.7820E-02	1.0089	.9201	.19854
23	7	75227.04	2.6166E-02	1.0358	.9201	.19344
23	8	73267.69	1.6223E-02	1.0620	.9201	.18840
23	9	71334.32	4.1054E-04	1.0854	.8963	.17408
23	10	69426.85	1.0016E-02	1.1155	.8499	.15233
23	11	67545.21	1.6509E-02	1.1416	.8097	.13450
23	12	65689.32	4.9534E-04	1.1752	.7578	.11460
23	13	63859.10	1.7267E-02	1.1912	.7332	.10427
23	14	62054.45	1.0346E-02	1.2197	.6892	.08954
23	15	60275.31	2.5763E-03	1.2369	.6627	.08041
23	16	58521.58	1.6727E-02	1.2691	.6130	.06681
23	18	55090.03	1.7489E-02	1.3192	.5358	.04804
23	19	53412.03	8.7577E-04	1.3569	.4777	.03702
23	20	51759.12	1.7359E-02	1.3710	.4729	.03516
23	21	50131.19	1.2457E-03	1.4083	.4729	.03405
23	22	48528.18	1.8823E-02	1.4233	.4729	.03296
23	23	46949.99	3.1358E-04	1.4743	.4729	.03189
23	24	45396.56	2.1136E-02	1.4764	.4729	.03084
23	25	43867.79	6.6686E-04	1.4871	.4729	.02980
23	26	42363.62	1.9635E-02	1.5313	.4729	.02878
23	27	40883.97	8.6101E-03	1.5524	.4729	.02777
23	28	39428.78	8.8215E-03	1.5884	.4729	.02678
23	29	37997.98	2.4407E-02	1.6103	.4729	.02581
23	30	36591.51	2.2513E-04	1.6039	.4729	.02485
23	31	35209.32	2.7645E-02	1.6688	.4729	.02392
23	32	33851.35	2.2445E-02	1.6929	.4729	.02299
23	33	32517.57	1.1188E-04	1.7714	.4729	.02209
23	34	31207.93	2.7968E-02	1.7537	.4729	.02120
23	35	29922.42	3.2825E-02	1.7799	.4729	.02032
23	36	28661.00	2.4804E-03	1.8020	.4729	.01947
23	37	27423.68	1.4928E-02	1.8415	.4729	.01863

lines between observed levels. Above 200 nm air wavelengths are given. Lines with positive wavelengths are for levels observed by Simmons, Bass, and Tilford (1969). Lines with negative wavelengths are for levels observed by Gero (1936) and are less accurate.

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WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
111.5104	-8.57	0-23	R	0	113.4796	-6.99	0-21	P18		114.5777	-5.93	1-23	R16		116.3491	-6.08	0-18	P13		117.1532	-4.71	2-23	Q	7
111.5108	-8.39	0-23	R	1	113.5242	-6.61	0-21	Q20		114.6045	-6.67	1-23	P15		116.3702	-5.91	0-18	R18		117.1540	-4.89	2-23	R	8
111.5145	-8.26	0-23	R	2	113.5246	-6.97	0-21	P19		114.6154	-5.67	1-23	Q16		116.3819	-6.05	0-18	P14		117.1624	-4.98	1-20	R17	
111.5151	-8.33	0-23	Q	1	113.5761	-6.94	0-21	P20		114.6244	-5.91	1-23	R17		116.3844	-5.88	0-18	R17		117.1697	-5.11	2-23	P	7
111.5203	-8.17	0-23	Q	1	113.6280	-6.92	0-21	P21		114.6513	-6.01	1-23	P16		116.3844	-5.88	0-18	R17		117.1757	-4.66	2-23	Q	8
111.5247	-8.87	0-23	P	3	113.9687	-7.40	0-20	R	1	114.6626	-5.64	1-23	Q17		116.3998	-5.31	1-21	P20		117.1762	-4.73	1-20	Q17	
111.5262	-8.09	0-23	R	4	113.9704	-7.28	0-20	R	2	114.7003	-5.98	1-23	P17		116.4040	-5.64	0-18	Q16		117.1771	-4.84	2-23	R	9
111.5288	-8.02	0-23	Q	3	113.9741	-7.18	0-20	R	3	114.7144	-5.62	1-23	Q18		116.4166	-6.02	0-18	P15		117.1838	-5.10	1-20	P16	
111.5347	-8.57	0-23	P	3	113.9744	-7.40	0-20	Q	1	114.7527	-5.95	1-23	P18		116.4190	-5.86	0-18	R18		117.1947	-5.04	2-23	P	8
111.5395	-8.02	0-23	R	5	113.9787	-7.18	0-20	Q	2	114.8095	-5.93	1-23	P19		116.4400	-5.62	0-18	Q17		117.2007	-4.61	2-23	Q	9
111.5406	-7.91	0-23	Q	4	113.9803	-7.10	0-20	Q	4	115.8399	-6.12	1-21	R	1	116.4534	-5.29	1-21	P21		117.2028	-4.81	2-23	R10	
111.5480	-8.39	0-23	P	3	113.9843	-7.88	0-20	P	2	115.8400	-6.29	1-21	R	0	116.4535	-5.99	0-18	P16		117.2035	-4.96	1-20	R19	
111.5501	-7.82	0-23	Q	5	113.9854	-7.03	0-20	P	2	115.8418	-5.99	1-21	Q	2	116.4564	-5.84	0-18	R19		117.2178	-4.71	1-20	Q18	
111.5532	-7.96	0-23	P	6	113.9854	-7.03	0-20	P	3	115.8451	-6.12	1-21	Q	1	116.4780	-5.59	0-18	Q18		117.2224	-4.98	2-23	P	9
111.5645	-8.26	0-23	P	5	113.9886	-7.03	0-20	R	5	115.8462	-5.89	1-21	Q	3	116.4925	-5.96	0-18	P17		117.2259	-5.07	1-20	P17	
111.5682	-7.75	0-23	Q	6	113.9937	-7.58	0-20	P	3	115.8501	-5.89	1-21	Q	2	116.4958	-5.82	0-18	R20		117.2289	-4.56	2-23	Q10	
111.5696	-7.91	0-23	R	7	113.9991	-6.92	0-20	Q	4	115.8530	-5.81	1-21	R	4	116.5179	-5.57	0-18	Q19		117.2314	-4.77	2-23	R11	
111.5788	-8.17	0-23	P	7	114.0053	-6.84	0-20	Q	6	115.8553	-6.59	1-21	P	2	116.5337	-5.93	0-18	P18		117.2525	-4.93	2-23	P10	
111.5867	-7.69	0-23	Q	7	114.0053	-7.40	0-20	P	4	115.8572	-5.75	1-21	Q	3	116.5373	-5.80	0-18	R21		117.2598	-4.52	2-23	Q11	
111.5882	-7.87	0-23	R	8	114.0119	-6.92	0-20	R	7	115.8621	-5.75	1-21	R	5	116.5605	-5.55	0-18	Q20		117.2616	-4.69	1-20	P19	
111.6017	-8.09	0-23	R	7	114.0186	-6.76	0-20	Q	6	115.8654	-6.29	1-21	P	3	116.5770	-5.91	0-18	P19		117.2630	-4.74	2-23	R12	
111.6078	-7.64	0-23	Q	8	114.0268	-6.88	0-20	Q	8	115.8667	-5.64	1-21	Q	4	116.5805	-5.78	0-18	R22		117.2702	-5.05	1-20	P18	
111.6098	-7.82	0-23	R	9	114.0341	-6.70	0-20	P	8	115.8736	-5.69	1-21	R	6	116.6051	-5.53	0-18	Q21		117.2859	-4.89	2-23	P11	
111.6250	-8.02	0-23	P	9	114.0353	-7.18	0-20	R	8	115.8776	-5.62	1-21	P	4	116.6221	-5.88	0-18	P20		117.2937	-4.49	2-23	Q12	
111.6312	-7.59	0-23	Q	9	114.0353	-7.18	0-20	P	6	115.8786	-5.55	1-21	Q	5	116.6266	-5.76	0-18	R23		117.2975	-4.71	2-23	R13	
111.6340	-7.79	0-23	R10		114.0440	-6.84	0-20	R	9	115.8874	-5.64	1-21	R	7	116.6520	-5.51	0-18	Q22		117.3080	-4.67	1-20	Q20	
111.6509	-7.96	0-23	P	9	114.0518	-6.65	0-20	Q	8	115.8923	-5.99	1-21	P	5	116.6700	-5.86	0-18	P21		117.3149	-6.32	0-17	R	1
111.6577	-7.54	0-23	Q10		114.0536	-7.10	0-20	P	7	115.8928	-5.48	1-21	Q	6	116.6751	-5.75	0-18	R24		117.3153	-6.19	0-17	R	2
111.6610	-7.75	0-23	R11		114.0634	-6.80	0-20	R	10	115.9035	-5.59	1-21	R	8	116.7004	-5.49	0-18	Q23		117.3159	-6.49	0-17	R	0
111.6791	-7.91	0-23	P10		114.0718	-6.60	0-20	Q	10	115.9093	-5.89	1-21	P	6	116.7199	-5.84	0-18	P22		117.3171	-5.02	1-20	P19	
111.6867	-7.50	0-23	Q11		114.0741	-7.03	0-20	P	8	115.9224	-5.55	1-21	R	9	116.7251	-5.73	0-18	R25		117.3184	-6.09	0-17	R	3
111.6904	-7.82	0-23	R12		114.0851	-6.76	0-20	R11		115.9283	-5.36	1-21	Q	8	116.7518	-5.47	0-18	Q24		117.3212	-6.32	0-17	Q	1
111.7104	-7.72	0-23	P11		114.0940	-6.56	0-20	Q10		115.9283	-5.81	1-21	R	7	116.7779	-5.82	0-18	P23		117.3221	-4.84	2-23	P12	
111.7185	-7.47	0-23	Q12		114.0968	-6.97	0-20	P	9	115.9435	-5.81	1-21	R10		116.8055	-5.45	0-18	R26		117.3234	-6.01	0-17	R	4
111.7231	-7.69	0-23	R13		114.1090	-6.73	0-20	R12		115.9496	-5.31	1-21	Q	9	116.8222	-5.80	1-20	R	1	117.3255	-6.04	0-17	Q	2
111.7442	-7.82	0-23	P12		114.1184	-6.52	0-20	Q11		115.9504	-5.75	1-21	P	8	116.8230	-5.98	1-20	R	0	117.3304	-4.45	2-23	P13	
111.7530	-7.63	0-23	Q13		114.1219	-6.92	0-20	P10		115.9669	-5.48	1-21	R11		116.8239	-5.68	1-20	R	2	117.3312	-5.95	0-17	Q	3
111.7587	-7.66	0-23	R14		114.1352	-6.70	0-20	R13		115.9735	-5.27	1-21	Q10		116.8258	-5.80	1-20	R	24	117.3317	-6.79	0-17	P	2
111.7608	-7.79	0-23	P13		114.1452	-6.48	0-20	Q12		115.9744	-5.69	1-21	P	9	116.8276	-5.58	1-20	Q	3	117.3354	-4.68	2-23	R14	
111.7603	-7.40	0-23	Q14		114.1490	-6.88	0-20	P11		115.9928	-5.45	1-21	R12		116.8282	-5.80	1-20	Q	1	117.3394	-5.89	0-17	R	6
111.7964	-7.64	0-23	R15		114.1637	-6.67	0-20	R14		115.9998	-5.23	1-21	Q11		116.8326	-5.58	1-20	Q	2	117.3396	-5.84	0-17	Q	4
111.8202	-7.75	0-23	P14		114.1741	-6.45	0-20	Q13		116.0008	-5.64	1-21	P10		116.8340	-5.50	1-20	R	4	117.3413	-6.49	0-17	P	3
111.8307	-7.37	0-23	Q15		114.1785	-6.84	0-20	P12		116.0211	-5.42	1-21	R13		116.8386	-6.28	1-20	P	2	117.3498	-5.75	0-17	Q	5
111.8374	-7.61	0-23	R16		114.1944	-6.65	0-20	R15		116.0284	-5.20	1-21	Q12		116.8395	-5.43	1-20	Q	3	117.3506	-5.84	0-17	R	7
111.8623	-7.72	0-23	P15		114.2053	-6.42	0-20	Q14		116.0299	-5.59	1-21	P11		116.8424	-5.43	1-20	P	5	117.3524	-6.32	0-17	P	4
111.8732	-7.35	0-23	Q16		114.2103	-6.80	0-20	P13		116.0519	-5.39	1-21	R14		116.8462	-5.98	1-20	P	3	117.3612	-4.81	2-23	P13	
111.8826	-7.59	0-23	R17		114.2273	-6.62	0-20	R16		116.0594	-5.16	1-21	Q13		116.8484	-5.32	1-20	Q	4	117.3623	-5.68	0-17	Q	6
111.9075	-7.69	0-23	P16		114.2388	-6.39	0-20	Q15		116.0613	-5.55	1-21	P12		116.8532	-5.38	1-20	R	6	117.3638	-5.79	0-17	R	8
111.9190	-7.32	0-23	Q17		114.2407	-6.88	1-23	R	0	116.0850	-5.36	1-21	R15		116.8600	-5.24	1-20	Q	5	117.3661	-6.19	0-17	P	5
111.9549	-7.66	0-23	P17		114.2411	-6.71	1-23	R	1	116.0928	-5.13	1-21	Q14		116.8603	-5.80	1-20	P	4	117.3662	-5.00	1-20	P20	
111.9691	-7.30	0-23	Q18		114.2442	-6.76	0-20	P14		116.0951	-5.51	1-21	P13		116.8609	-5.44	0-18	Q26		117.3702	-4.42	2-23	Q14	
112.0056	-7.64	0-23	R18		114.2449	-6.58	1-23	R	2	116.1147	-6.68	0-18	R	1	116.8663	-5.32	1-20	R	7	117.3755	-4.66	2-23	R15	
112.0606	-7.61	0-23	P19		114.2456	-6.71	1-23	Q	1	116.1157	-6.86	0-18	R	0	116.8737	-5.16	1-20	Q	6	117.3764	-5.62	0-17	Q	7
113.0335	-7.74	0-21	R	1	114.2510	-6.49	1-23	Q	2	116.1160	-6.56	0-18	R	2	116.8745	-5.68	1-20	P	5	117.3785	-5.75	0-17	R	9
113.0336	-7.92	0-21	R	2	114.2520	-6.49	1-23	P	3	116.1171	-6.46	0-18	R	3	116.8816	-5.28	1-20	R	8	117.3816	-6.09	0-17	P	6
113.0355	-7.62	0-21	R	3	114.2556	-7.19	1-23	P	2	116.1206	-5.34	1-21												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
117.8112	-5.39	0-17	R23	118.9806	-4.31	2-21	P12	119.7332	-3.94	1-18	Q24	120.1015	-4.86	0-15	R13	120.4842	-3.94	1-17	Q11	120.8682	-3.94	1-17	Q11	121.2521	-3.94
117.8170	-5.51	0-17	P20	118.9866	-4.83	0-16	Q19	119.7557	-4.29	1-18	P23	120.1016	-4.68	0-15	Q11	120.4895	-4.13	1-17	R13	120.8700	-4.13	1-17	R13	121.2521	-3.94
117.8410	-5.14	0-17	Q22	118.9954	-5.06	0-16	R21	119.7581	-4.18	1-18	R26	120.1086	-3.55	2-20	Q16	120.4953	-4.35	1-17	P10	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.8578	-5.38	0-17	R24	119.0034	-4.12	2-21	R15	119.7843	-4.59	2-20	R 1	120.1102	-4.07	3-23	P 7	120.5004	-3.64	3-23	P 7	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.8635	-5.49	0-17	P21	119.0094	-5.19	0-16	P18	119.7851	-4.76	2-20	R 0	120.1159	-5.09	0-15	P10	120.5050	-4.74	0-15	P10	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.8887	-5.12	0-17	Q23	119.0124	-3.88	2-21	Q14	119.7859	-4.46	2-20	R 2	120.1161	-3.62	3-23	Q 8	120.5111	-3.90	1-17	Q12	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.9070	-5.36	0-17	R25	119.0154	-4.27	2-21	P13	119.7885	-3.92	1-18	Q25	120.1167	-3.92	2-20	P15	120.5141	-3.28	3-23	Q18	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.9124	-5.47	0-17	P22	119.0273	-4.81	0-16	Q20	119.7897	-4.37	2-20	R 3	120.1170	-3.81	3-23	R 9	120.5153	-4.10	1-17	R14	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.9390	-5.10	0-17	Q24	119.0369	-5.04	0-16	R22	119.7905	-4.59	2-20	Q 1	120.1256	-4.64	0-15	Q12	120.5203	-4.37	0-15	Q12	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.9635	-5.45	0-17	P23	119.0401	-4.09	2-21	R16	119.7952	-4.37	2-20	Q 2	120.1258	-4.84	0-15	R14	120.5213	-4.30	1-17	P11	120.8750	-4.35	1-17	P10	121.2521	-3.94
117.9910	-5.08	0-17	Q25	119.0494	-3.86	2-21	Q15	119.7962	-4.29	2-20	R 4	120.1334	-3.76	2-20	R18	120.5366	-3.87	1-17	Q13	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.0166	-5.43	0-17	P24	119.0514	-5.16	0-16	P19	119.8014	-5.06	2-20	P 2	120.1360	-4.00	3-23	P 8	120.5438	-4.07	1-17	R15	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.0455	-5.07	0-17	Q26	119.0527	-4.23	2-21	P14	119.8022	-4.22	2-20	Q 3	120.1414	-5.04	0-15	P11	120.5505	-4.26	1-17	Q12	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.0723	-5.41	0-17	P25	119.0700	-4.78	0-16	Q21	119.8049	-4.22	2-20	R 5	120.1418	-3.57	3-23	Q 9	120.5527	-4.72	0-15	P22	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.1297	-5.39	0-17	P26	119.0781	-5.15	1-18	R 1	119.8110	-4.27	1-18	P24	120.1436	-3.77	3-23	R10	120.5564	-3.62	3-23	R10	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.1897	-5.38	0-17	P27	119.0792	-5.33	1-18	R 0	119.8114	-4.76	2-20	P 3	120.1488	-3.52	2-20	Q17	120.5665	-3.84	1-17	Q14	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.5980	-5.94	0-16	R 1	119.0793	-4.07	2-21	R17	119.8114	-4.11	2-20	Q 4	120.1517	-4.61	0-15	Q13	120.5684	-4.35	0-15	Q13	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.5988	-5.82	0-16	R 2	119.0794	-5.03	1-18	R 2	119.8159	-4.16	2-20	R 6	120.1521	-3.81	0-15	R15	120.5742	-4.05	1-17	R16	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.5995	-6.12	0-16	R 0	119.0804	-4.93	1-18	R 3	119.8233	-4.02	2-20	Q 5	120.1577	-3.89	2-20	P16	120.5815	-4.22	1-17	Q13	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6014	-5.72	0-16	R 3	119.0806	-5.02	0-16	R23	119.8239	-4.59	2-20	P 4	120.1647	-3.95	3-23	P 9	120.5982	-3.81	1-17	Q15	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6049	-5.94	0-16	Q 1	119.0846	-5.15	1-18	Q 1	119.8293	-4.11	2-20	R 7	120.1695	-5.00	0-15	P12	120.6023	-4.70	0-15	P23	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6060	-5.64	0-16	R 4	119.0867	-4.85	1-18	R 4	119.8374	-3.95	2-20	Q 6	120.1710	-3.53	3-23	Q10	120.6071	-4.02	1-17	R17	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6088	-5.72	0-16	Q 2	119.0889	-3.83	2-21	Q16	119.8385	-4.46	2-20	P 5	120.1731	-3.74	3-23	R11	120.6146	-4.19	1-17	P14	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6127	-5.57	0-16	R 5	119.0889	-4.93	1-18	Q 2	119.8450	-4.06	2-20	R 8	120.1756	-3.74	2-20	R19	120.6172	-3.59	3-23	P19	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6151	-5.57	0-16	Q 3	119.0925	-4.20	2-21	P15	119.8454	-3.91	1-18	Q26	120.1795	-4.58	0-15	Q14	120.6185	-4.33	0-15	Q25	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6157	-6.42	0-16	P 2	119.0945	-4.79	1-18	R 5	119.8538	-3.89	2-20	Q 7	120.1801	-4.78	0-15	R16	120.6323	-3.78	1-17	Q16	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6214	-5.51	0-16	R 6	119.0953	-5.14	0-16	P20	119.8559	-4.37	2-20	P 6	120.1917	-3.50	2-20	Q18	120.6423	-4.00	1-17	R18	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6230	-5.46	0-16	Q 4	119.0954	-5.63	1-18	P 2	119.8631	-4.02	2-20	R 9	120.1958	-3.89	3-23	P10	120.6499	-4.16	1-17	P15	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6251	-6.12	0-16	P 3	119.0956	-4.79	1-18	Q 3	119.8694	-4.25	1-18	P25	120.1970	-4.96	0-15	P13	120.6540	-4.68	0-15	P24	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6322	-5.46	0-16	R 7	119.1020	-4.68	1-18	Q 4	119.8726	-3.83	2-20	Q 8	120.2010	-3.86	2-20	P17	120.6683	-3.76	1-17	Q17	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6330	-5.38	0-16	Q 5	119.1042	-4.73	1-18	R 6	119.8753	-4.29	2-20	P 7	120.2029	-3.49	3-23	Q11	120.6789	-3.98	1-17	R19	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6367	-5.94	0-16	P 4	119.1051	-5.33	1-18	P 3	119.8835	-3.99	2-20	R10	120.2057	-3.70	3-23	R12	120.6868	-4.13	1-17	P16	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6449	-5.42	0-16	R 8	119.1137	-4.59	1-18	Q 5	119.8938	-3.79	2-20	Q 9	120.2090	-4.55	0-15	Q15	120.7068	-3.73	1-17	R20	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6452	-5.30	0-16	Q 6	119.1150	-4.76	0-16	Q22	119.8972	-4.22	2-20	P 8	120.2105	-4.76	0-15	R17	120.7077	-4.66	0-15	P25	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6501	-5.82	0-16	P 5	119.1162	-4.68	1-18	R 7	119.9051	-3.89	1-18	Q27	120.2289	-4.93	0-15	P14	120.7181	-3.96	1-17	R20	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6593	-5.24	0-16	Q 7	119.1172	-5.15	1-18	P 4	119.9064	-3.95	2-20	R11	120.2304	-3.85	3-23	P11	120.7265	-4.10	1-17	P17	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6595	-5.38	0-16	R 9	119.1210	-4.05	2-21	R18	119.9173	-3.74	2-20	Q10	120.2368	-3.47	2-20	Q19	120.7475	-3.71	1-17	R21	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6655	-5.72	0-16	P 6	119.1269	-4.52	1-18	Q 6	119.9214	-4.16	2-20	P 9	120.2379	-3.45	3-23	Q12	120.7594	-3.94	1-17	Q19	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6754	-5.19	0-16	Q 8	119.1290	-5.03	1-18	P 5	119.9302	-4.23	1-18	P26	120.2408	-4.52	0-15	Q16	120.7635	-4.64	0-15	P26	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6761	-5.34	0-16	R10	119.1299	-4.63	1-18	R 8	119.9316	-3.92	2-20	R12	120.2413	-3.67	3-23	R13	120.7680	-4.07	1-17	R18	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6831	-5.64	0-16	P 7	119.1309	-3.80	2-21	Q17	119.9432	-3.70	2-20	Q11	120.2428	-3.67	0-15	R18	120.7897	-3.69	1-17	Q20	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6936	-5.14	0-16	Q 9	119.1350	-4.17	2-21	P16	119.9481	-4.11	2-20	P10	120.2467	-3.83	2-20	P18	120.8028	-3.92	1-17	R22	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.6950	-5.30	0-16	R11	119.1414	-5.12	0-16	P21	119.9592	-3.89	2-20	R13	120.2624	-4.89	0-15	P15	120.8121	-4.05	1-17	P19	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.7026	-5.57	0-16	P 8	119.1421	-4.46	1-18	Q 7	119.9665	-5.56	0-15	R 1	120.2677	-3.81	3-23	P12	120.8344	-3.67	1-17	Q21	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.7137	-5.10	0-16	Q10	119.1461	-4.59	1-18	R 9	119.9675	-5.44	0-15	R 2	120.2744	-4.50	0-15	Q17	120.8489	-3.90	1-17	R23	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.7158	-5.27	0-16	R12	119.1462	-4.93	1-18	P 6	119.9678	-5.74	0-15	R 0	120.2759	-3.42	3-23	Q13	120.8584	-4.02	1-17	Q22	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.7242	-5.51	0-16	P 9	119.1594	-4.40	1-18	Q 8	119.9694	-5.34	0-15	R 3	120.2771	-4.72	0-15	R19	120.8814	-3.65	1-17	Q22	120.8750	-4.35	1-17	P10	121.2521	-3.94
118.7357	-5.06	0-16	Q11	119.1619	-4.75	0-16																			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
121.6920	-4.37	1.16	R	2	122.0135	-3.97	0.14	Q24	122.4633	-2.98	2.18	Q16	123.0780	-3.19	4.23	Q	3	123.3227	-3.21	1.15	Q13						
121.6928	-4.67	1.16	R	0	122.0135	-3.43	1.16	Q17	122.4762	-3.19	2.18	R18	123.0850	-2.69	3.20	P13	123.3251	-2.99	4.23	P12							
121.6945	-4.27	1.16	R	3	122.0137	-4.21	0.14	R26	122.4789	-3.35	2.18	R15	123.0851	-3.73	4.23	P	3	123.3266	-2.53	3.20	Q19						
121.6984	-4.49	1.16	Q	1	122.0190	-3.65	1.16	R19	122.5013	-2.95	2.18	Q17	123.0891	-3.19	4.23	R	5	123.3289	-3.92	0.13	R21						
121.6991	-4.19	1.16	R	4	122.0330	-3.14	3.21	R15	122.5156	-3.17	2.18	R19	123.0906	-4.10	0.13	R13	123.3311	-4.07	0.13	P17							
121.7025	-4.27	1.16	Q	2	122.0354	-3.79	1.16	P16	122.5168	-4.18	0.14	P31	123.0914	-3.08	4.23	Q	4	123.3329	-2.60	4.23	Q13						
121.7060	-4.12	1.16	R	5	122.0433	-2.91	3.21	Q14	122.5180	-3.32	2.18	P16	123.0922	-4.38	0.13	P	9	123.3360	-3.69	0.13	Q19						
121.7089	-4.12	1.16	Q	3	122.0472	-3.29	3.21	P13	122.5415	-2.93	2.18	Q18	123.0922	-3.08	3.20	P12	123.3369	-2.83	4.23	P14							
121.7097	-4.97	1.16	P	2	122.0510	-3.40	1.16	Q18	122.5570	-3.15	2.18	R20	123.0974	-3.92	0.13	Q11	123.3381	-2.89	3.20	R18							
121.7148	-4.07	1.16	R	6	122.0527	-4.32	0.14	P23	122.5594	-3.29	2.18	P17	123.0999	-3.08	2.18	P27	123.3422	-3.60	1.15	P12							
121.7162	-4.51	0.14	P15	122.0571	-3.63	1.16	R20	122.5836	-2.90	2.18	Q19	123.1004	-3.55	4.23	P	4	123.3503	-3.38	1.15	R16							
121.7170	-4.02	1.16	Q	4	122.0627	-4.20	0.14	R27	122.6008	-3.13	2.18	R21	123.1020	-2.99	4.23	Q	5	123.3513	-3.18	1.15	Q14						
121.7194	-4.67	1.16	R	3	122.0629	-3.95	0.14	Q25	122.6032	-3.26	2.18	P18	123.1040	-2.89	3.20	R15	123.3569	-2.95	4.23	P13							
121.7229	-4.34	0.14	R19	122.0707	-3.11	3.21	R16	122.6287	-2.88	2.18	Q20	123.1046	-3.13	4.23	R	6	123.3679	-3.90	0.13	R22							
121.7247	-4.12	0.14	Q17	122.0744	-3.77	1.16	P17	122.6463	-3.11	2.18	R22	123.1137	-4.07	0.13	R14	123.3697	-4.05	0.13	R18								
121.7258	-4.02	1.16	R	7	122.0814	-2.88	3.21	Q15	122.6490	-3.24	2.18	P19	123.1153	-4.32	0.13	P10	123.3705	-3.56	1.15	P13							
121.7273	-3.93	1.16	Q	5	122.0857	-3.25	3.21	P14	122.6759	-2.86	2.18	Q21	123.1190	-2.66	3.20	P14	123.3746	-3.67	0.13	Q20							
121.7315	-4.49	1.16	P	4	122.0905	-3.38	1.16	Q19	122.6949	-3.10	2.18	R23	123.1195	-3.43	4.23	P	5	123.3753	-2.57	4.23	Q14						
121.7388	-3.97	1.16	R	8	122.0977	-3.61	1.16	R21	122.6969	-3.22	2.18	P20	123.1203	-3.88	0.13	Q12	123.3757	-2.51	3.20	Q20							
121.7398	-3.86	1.16	Q	6	122.1029	-4.30	0.14	P24	122.7254	-2.84	2.18	Q22	123.1227	-2.92	4.23	Q	6	123.3796	-2.80	4.23	R15						
121.7453	-4.37	1.16	P	5	122.1111	-3.09	3.21	R17	122.7460	-3.08	2.18	R24	123.1229	-3.08	4.23	R	7	123.3814	-3.36	1.15	P17						
121.7512	-4.48	0.14	P16	122.1144	-3.93	0.14	Q26	122.7477	-3.19	2.18	Q21	123.1270	-3.04	3.20	P13	123.3816	-3.15	1.15	Q15								
121.7537	-3.93	1.16	R	9	122.1144	-4.18	0.14	R28	122.7768	-2.82	2.18	Q23	123.1324	-4.16	1.15	R	1	123.3880	-2.87	3.20	P19						
121.7543	-3.79	1.16	Q	7	122.1155	-3.74	1.16	P18	122.7988	-3.06	2.18	R25	123.1330	-4.04	1.15	R	2	123.4034	-3.53	1.15	P14						
121.7583	-4.32	0.14	R20	122.1220	-2.85	3.21	Q16	122.8006	-3.17	2.18	P22	123.1339	-4.34	1.15	R	0	123.4088	-3.88	0.13	R23							
121.7598	-4.09	0.14	Q18	122.1268	-3.22	3.21	P15	122.8309	-2.80	2.18	Q24	123.1352	-3.94	1.15	R	3	123.4103	-4.02	0.13	P19							
121.7612	-4.27	1.16	P	6	122.1323	-3.36	1.16	Q20	122.8544	-3.05	2.18	R26	123.1357	-3.33	4.23	P	6	123.4118	-2.92	4.23	P14						
121.7706	-3.89	1.16	R	10	122.1401	-3.59	1.16	R22	122.8558	-3.15	2.18	P23	123.1387	-4.05	0.13	P15	123.4143	-3.12	1.15	P16							
121.7709	-3.74	1.16	Q	8	122.1541	-3.07	3.21	R18	122.8606	-3.64	3.20	R	1	123.1397	-4.16	1.15	Q	1	123.4145	-3.34	1.15	R18					
121.7745	-3.89	3.21	R	1	122.1562	-4.28	0.14	P25	122.8615	-3.82	3.20	R	0	123.1397	-2.87	3.20	R16	123.4153	-3.64	0.13	Q21						
121.7748	-4.07	3.21	R	2	122.1572	-4.02	2.18	R	1	122.8622	-3.52	3.20	R	2	123.1401	-3.86	1.15	R	4	123.4214	-2.54	4.23	Q15				
121.7765	-3.77	3.21	R	2	122.1584	-4.19	2.18	R	0	122.8661	-3.42	3.20	R	3	123.1403	-4.28	0.13	P11	123.4261	-2.78	4.23	P16					
121.7794	-4.19	1.16	P	7	122.1584	-3.89	2.18	R	2	122.8672	-3.64	3.20	Q	1	123.1439	-2.86	4.23	Q	7	123.4378	-3.49	1.15	P15				
121.7803	-3.89	3.21	Q	1	122.1587	-3.71	1.16	P19	122.8719	-3.42	3.20	Q	2	123.1439	-3.03	4.23	R	8	123.4402	-2.84	3.20	P20					
121.7811	-3.67	3.21	R	3	122.1593	-3.80	2.18	R	3	122.8727	-3.34	3.20	R	4	123.1439	-3.94	1.15	Q	2	123.4488	-3.09	1.15	Q17				
121.7856	-3.67	3.21	Q	2	122.1640	-4.02	2.18	Q	1	122.8785	-4.12	3.20	P	2	123.1454	-3.85	0.13	Q13	123.4496	-3.32	1.15	R19					
121.7881	-3.59	3.21	R	4	122.1654	-2.82	3.21	Q17	122.8792	-3.28	3.20	Q	3	123.1474	-3.79	1.15	R	5	123.4517	-3.86	0.13	R24					
121.7882	-4.46	0.14	P17	122.1658	-3.72	2.18	R	4	122.8815	-3.28	3.20	R	5	123.1503	-3.79	1.15	Q	3	123.4528	-4.00	0.13	Q20					
121.7896	-3.69	1.16	Q	9	122.1678	-3.92	0.14	Q27	122.8878	-2.79	2.18	Q25	123.1512	-4.64	1.15	P	2	123.4573	-3.62	0.13	Q22						
121.7899	-3.86	1.16	R11	122.1678	-4.17	0.14	R29	122.8887	-3.17	3.20	Q	4	123.1536	-3.74	1.15	R	6	123.4599	-2.89	4.23	P15						
121.7914	-4.37	3.21	P	2	122.1685	-3.80	2.18	Q	2	122.8889	-3.82	3.20	P	3	123.1556	-2.63	3.20	Q15	123.4698	-2.51	4.23	P16					
121.7932	-3.52	3.21	Q	3	122.1705	-3.19	3.21	P16	122.8928	-3.22	3.20	R	6	123.1583	-3.68	1.15	Q	4	123.4743	-3.46	1.15	P16					
121.7963	-4.30	0.14	R21	122.1737	-3.65	2.18	R	5	122.9009	-3.08	3.20	Q	5	123.1613	-4.34	1.15	P	3	123.4776	-2.75	4.23	R17					
121.7970	-4.07	0.14	Q19	122.1753	-4.49	2.18	P	2	122.9018	-3.64	3.20	P	4	123.1621	-3.25	4.23	P	7	123.4857	-3.07	1.15	P18					
121.7977	-3.52	3.21	R	5	122.1753	-3.65	2.18	Q	3	122.9065	-3.17	3.20	R	7	123.1643	-3.01	3.20	P14	123.4862	-3.73	2.17	R	1				
121.7995	-4.12	1.16	P	8	122.1761	-3.34	1.16	Q21	122.9128	-3.13	2.18	P24	123.1644	-3.68	1.15	R	7	123.4865	-3.61	2.17	R	2					
121.8023	-4.07	3.21	P	3	122.1818	-3.54	2.18	Q	4	122.9154	-3.01	3.20	Q	6	123.1656	-4.02	0.13	P16	123.4870	-3.30	1.15	R20					
121.8033	-3.41	3.21	Q	4	122.1836	-3.59	2.18	R	6	122.9169	-3.52	3.20	P	8	123.1670	-3.06	2.18	P28	123.4874	-3.91	2.17	R	0				
121.8098	-3.46	3.21	R	6	122.1850	-3.57	1.16	R23	122.9226	-3.12	3.20	R	5	123.1673	-4.24	0.13	P12	123.4896	-3.51	2.17	R	3					
121.8102	-3.65	1.16	Q10	122.1854	-4.19	2.18	P	3	122.9323	-2.95	3.20	Q	7	123.1679	-2.80	4.23	Q	8	123.4932	-3.73	2.17	Q	1				
121.8113	-3.82	1.16	R12	122.1939	-3.45	2.18	Q	5	122.9348	-3.42	3.20	P	6	123.1684	-2.99	4.23	R	9	123.4947	-3.43	2.17	R	4				
121.8154	-3.89	3.21	P	4	122.1958	-3.54	2.18	R	7	122.9411	-3.08	3.20	R	9	123.1685	-3.60	1.15	Q	5	123.4951	-2.82	3.20	P21				
121.8158	-3.33	3.21	Q	5	122.1979	-4.02	2.18	P	4	122.9463	-2.77	2.18	Q26	123.1721	-3.82	0.13	Q14	123.4952	-3.85	0.13	R25						
121.8218	-4.07	1.16	P	9	122.1998	-3.05	3.21	R19	122.9517	-2.89	3.20	Q	8	123.1735	-4.16	1.15	P	4	123.4973	-3.98	0.13	P21					
121.8242	-3.41	3.21	R	7	122.2039	-3.69	1.16	P20	122.9549	-3.34	3.20	P	7	123.1771	-3.64	1.15	R	8	123.4978	-3.51	2.17						

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
123.6730	-3.21	2.17	P11	124.7317	-4.00	0-12	P 9	125.0100	-2.65	2-16	Q 9	125.3644	-2.05	4-21	Q18	126.0512	-1.95	3-18	Q24					
123.6865	-2.78	4.23	P19	124.7345	-3.54	0-12	Q11	125.0113	-2.38	4-21	Q 8	125.3654	-3.16	3-18	Q 1	126.0572	-2.93	4-20	R 1					
123.6875	-3.34	1.15	P21	124.7365	-3.61	1-14	P 6	125.0129	-2.84	4-21	P 7	125.3668	-2.86	3-18	R 4	126.0582	-3.11	4-20	R 0					
123.6877	-2.78	2.17	Q13	124.7374	-3.23	1-14	R10	125.0131	-2.74	1-14	Q18	125.3677	-2.95	1-14	P24	126.0588	-2.81	4-20	R 2					
123.6938	-2.98	2.17	R15	124.7427	-3.08	1-14	Q 8	125.0209	-3.08	2-16	P 8	125.3679	-2.55	2-16	R22	126.0627	-2.71	4-20	R 3					
123.6953	-3.90	0.13	P25	124.7470	-3.69	0-12	R14	125.0258	-2.54	4-21	R10	125.3700	-2.94	3-18	Q 2	126.0641	-2.93	4-20	Q 1					
123.7003	-3.54	0.13	Q27	124.7544	-3.53	1-14	P 7	125.0310	-2.78	2-16	R12	125.3712	-2.41	4-21	P17	126.0690	-2.71	4-20	Q 2					
123.7012	-2.97	1.15	Q23	124.7546	-3.94	0-12	P10	125.0311	-2.60	2-16	Q10	125.3740	-2.83	1-14	R28	126.0694	-2.63	4-20	R 4					
123.7031	-3.17	2-17	P12	124.7557	-3.20	1-14	R11	125.0346	-2.34	4-21	Q 9	125.3748	-2.79	3-18	R 5	126.0731	-2.19	3-18	R26					
123.7185	-2.75	2-17	Q14	124.7571	-3.50	0-12	Q12	125.0350	-3.50	0-12	R23	125.3770	-2.59	1-14	Q26	126.0759	-3.41	4-20	P 3					
123.7250	-2.95	2-17	R16	124.7607	-3.03	1-14	Q 9	125.0369	-2.77	4-21	P 8	125.3770	-2.79	3-18	Q 3	126.0765	-2.57	4-20	Q 2					
123.7350	-3.13	2-17	P13	124.7712	-3.67	0-12	R15	125.0439	-3.02	2-16	P 9	125.3772	-3.64	3-18	P 2	126.0784	-2.57	4-20	R 5					
123.7366	-3.32	1-15	P22	124.7741	-3.47	1-14	P 8	125.0440	-3.11	1-14	P17	125.3823	-3.14	0-12	Q28	126.0788	-2.30	3-18	P23					
123.7501	-3.88	0.13	P26	124.7757	-3.16	1-14	R12	125.0471	-3.64	0-12	P19	125.3824	-3.50	0-12	P26	126.0862	-2.46	4-20	Q 4					
123.7506	-2.95	1-15	Q24	124.7795	-3.90	0-12	P11	125.0477	-3.27	0-12	Q21	125.3837	-2.68	3-18	Q 4	126.0867	-3.11	4-20	P 3					
123.7511	-2.72	2-17	Q15	124.7808	-2.99	1-14	Q10	125.0482	-2.95	1-14	R21	125.3850	-2.73	3-18	R 6	126.0900	-2.51	4-20	R 6					
123.7587	-2.93	2-17	R17	124.7817	-3.47	0-12	Q13	125.0513	-2.50	4-21	R11	125.3876	-3.34	3-18	P 3	126.0989	-2.37	4-20	Q 5					
123.7691	-3.09	2-17	P14	124.7960	-3.41	1-14	P 9	125.0513	-2.72	1-14	Q19	125.3909	-2.67	2-16	P19	126.1000	-2.93	4-20	P 4					
123.7861	-2.69	2-17	Q16	124.7976	-3.64	0-12	R16	125.0543	-2.56	2-16	Q11	125.3961	-2.60	3-18	Q 5	126.1040	-2.46	4-20	R 7					
123.7876	-3.30	1-15	P23	124.7978	-3.13	1-14	R13	125.0550	-2.75	2-16	R13	125.3974	-2.68	3-18	R 7	126.1097	-1.93	3-18	Q25					
123.7967	-2.91	2-17	R18	124.8026	-2.95	1-14	Q11	125.0607	-2.29	4-21	Q10	125.4006	-3.16	3-18	P 4	126.1138	-2.30	4-20	Q 6					
123.8020	-2.93	1-15	Q25	124.8062	-3.86	0-12	P12	125.0634	-2.71	4-21	P 9	125.4070	-2.29	2-16	Q21	126.1157	-2.81	4-20	P 5					
123.8054	-3.86	0.13	P27	124.8082	-3.44	0-12	Q14	125.0690	-2.97	2-16	P10	125.4101	-2.52	3-18	Q 6	126.1205	-2.41	4-20	R 7					
123.8055	-3.06	2-17	P15	124.8200	-3.36	1-14	P10	125.0761	-3.48	0-12	R24	125.4118	-2.64	3-18	R 8	126.1312	-2.23	4-20	Q 8					
123.8231	-2.66	2-17	Q17	124.8219	-3.11	1-14	R14	125.0794	-2.47	4-21	R12	125.4131	-3.04	3-18	P 5	126.1342	-2.71	4-20	P 6					
123.8323	-2.89	2-17	R19	124.8255	-3.62	0-12	R17	125.0800	-2.53	2-16	Q12	125.4139	-2.53	2-16	R23	126.1374	-2.28	3-18	P 4					
123.8407	-3.28	1-15	P24	124.8268	-2.91	1-14	Q12	125.0810	-2.72	2-16	R14	125.4146	-2.02	4-21	P19	126.1395	-2.37	4-20	R 9					
123.8435	-3.03	2-17	P16	124.8349	-3.82	0-12	P13	125.0841	-3.08	1-14	P18	125.4217	-2.38	4-21	P18	126.1511	-2.18	4-20	Q 8					
123.8626	-2.64	2-17	Q18	124.8367	-3.41	0-12	Q15	125.0879	-2.93	1-14	R22	125.4225	-2.93	1-14	P25	126.1550	-2.63	4-20	P 7					
123.8644	-3.85	0.13	P28	124.8460	-3.31	1-14	P11	125.0894	-3.62	0-12	P20	125.4261	-2.46	3-18	Q 7	126.1611	-2.33	4-20	R10					
123.8724	-2.87	2-17	R20	124.8480	-3.08	1-14	R15	125.0895	-2.25	4-21	Q11	125.4286	-2.82	1-14	R29	126.1699	-1.91	3-18	Q26					
123.8843	-3.00	2-17	P17	124.8528	-2.88	1-14	Q13	125.0896	-3.25	0-12	Q22	125.4288	-2.60	3-18	R 9	126.1736	-2.13	4-20	Q 6					
123.8960	-3.26	1-15	P25	124.8558	-3.60	0-12	R18	125.0920	-2.70	1-14	Q20	125.4314	-2.94	3-18	P 8	126.1784	-2.57	4-20	P 8					
123.9045	-2.62	2-17	Q19	124.8655	-3.78	0-12	P14	125.0925	-2.66	4-21	P10	125.4316	-2.57	1-14	Q27	126.1852	-3.00	4-20	R11					
123.9149	-2.85	2-17	R21	124.8669	-3.38	0-12	Q16	125.0960	-2.93	2-16	P11	125.4374	-2.65	2-16	P20	126.1985	-2.09	4-20	Q10					
123.9271	-2.98	2-17	P18	124.8738	-3.27	1-14	P12	125.1077	-2.50	2-16	Q13	125.4386	-3.13	0-12	Q29	126.1993	-2.26	3-18	P25					
123.9479	-2.60	2-17	Q20	124.8762	-3.06	1-14	R16	125.1092	-2.70	2-16	R15	125.4388	-3.48	0-12	P27	126.2042	-2.51	4-20	P 9					
123.9534	-3.24	1-15	P26	124.8808	-2.85	1-14	Q14	125.1101	-2.44	4-21	R13	125.4445	-2.41	3-18	Q 8	126.2117	-2.26	4-20	R12					
123.9594	-2.83	2-17	R22	124.8875	-3.58	0-12	R19	125.1204	-3.47	0-12	R25	125.4480	-2.56	3-18	R10	126.2219	-3.12	5-23	R 0					
123.9725	-2.95	2-17	P19	124.8980	-3.75	0-12	P15	125.1208	-2.22	4-21	Q12	125.4513	-2.86	3-18	P 7	126.2222	-2.94	5-23	P 1					
123.9939	-2.58	2-17	Q21	124.8993	-3.35	0-12	Q17	125.1245	-2.61	4-21	P11	125.4545	-2.27	2-16	Q22	126.2259	-2.05	4-20	Q11					
124.0067	-2.81	2-17	R23	124.9040	-3.23	1-14	P13	125.1252	-2.89	2-16	P12	125.4647	-2.36	3-18	Q 9	126.2264	-2.82	5-23	R 2					
124.0202	-2.93	2-17	P20	124.9062	-3.03	1-14	R17	125.1261	-3.06	1-14	P19	125.4675	-2.00	4-21	Q20	126.2278	-2.94	5-23	Q 1					
124.0421	-2.56	2-17	Q22	124.9087	-3.45	2-16	R 1	125.1307	-2.91	1-14	R23	125.4694	-2.52	3-18	R11	126.2326	-2.46	4-20	P10					
124.0557	-2.79	2-17	R24	124.9094	-3.32	2-16	R 2	125.1332	-3.60	0-12	P21	125.4732	-2.79	3-18	P 8	126.2330	-1.90	3-18	Q27					
124.0694	-2.91	2-17	P21	124.9104	-3.63	2-16	R 0	125.1336	-3.23	0-12	Q23	125.4749	-2.36	4-21	P19	126.2339	-2.72	5-23	Q 2					
124.0925	-2.54	2-17	Q23	124.9109	-2.82	1-14	Q15	125.1342	-2.68	1-14	Q21	125.4793	-2.91	1-14	P26	126.2344	-2.72	5-23	R 3					
124.1075	-2.78	2-17	R25	124.9119	-3.23	2-16	R 3	125.1376	-2.46	2-16	Q14	125.4863	-2.63	2-16	P21	126.2394	-2.64	5-23	R 4					
124.1213	-2.89	2-17	P22	124.9141	-3.14	4-21	R 1	125.1396	-2.67	2-16	R16	125.4876	-2.32	3-18	Q10	126.2395	-3.42	5-23	P 2					
124.1457	-2.52	2-17	Q24	124.9145	-3.31	4-21	R 0	125.1436	-2.41	4-21	R14	125.4879	-2.55	1-14	Q28	126.2409	-2.23	4-20	R13					
124.1754	-2.87	2-17	P23	124.9161	-3.01	4-21	R 2	125.1547	-2.18	4-21	Q13	125.4934	-2.49	3-18	R12	126.2439	-2.57	5-23	Q 3					
124.2006	-2.50	2-17	Q25	124.9163	-3.45	2-16	Q 1	125.1567	-2.85	2-16	P13	125.4959	-3.47	0-12	P28	126.2514	-3.12	5-23	P 3					
124.2317	-2.85	2-17	P24	124.9166	-3.15	2-16	R 4	125.1590	-2.57	4-21	P12	125.4974	-2.73	3-18	P 9	126.2550	-2.57	5-23	R 5					
124.2582	-2.68	2-17	Q26	124.9202	-3.14	4-21	Q 1	125.1653	-3.45	0-12	R26	125.5040	-2.25	2-16	Q23	126.2559	-2.01	4-20	Q12					
124.2907	-2.83	2-17	P25	124.9205	-3.23	2-16	Q 2	125.1695	-2.44	2-16	P15	125.5127	-2.28	3-18	Q11	126.2578	-2.46	5-23	Q 4					
124.3515	-2.81	2-17	P26	124.9208	-2.92	4-21	R 3	125.1702	-3.03	1-14	P20	125.5196	-2.46	3-18	R13	126.2634	-2.41	4-20	P11					
124.4150	-2.79	2-17	P27	124.9219	-3.56	0-12	R20	125.1722	-2.65	2-16	R17	125.5236	-2.68	3-18	P10	126.2638	-2.24	3-18	P26					
124.6033	-4.30	0-12	R 2	124.9235	-3.08	2-16	R 5	125.1753	-2.90	1-14	R24	125.5309	-2.34	4-21	P20	126.2673	-2.94	5-23	P 4					
124.6036	-4.42	0-12	R 1	124.9257	-2.92	4-21	Q 2	125.1791	-2.66	1-14	Q22	125.5374	-2.60	2-16	P22	126.2686	-2.38	5-23	Q 5					
124.6049	-4.20	0-12	R 3	124.9271	-3.08	2-16	Q 3	125.1794	-3.21	0-12	Q24	125.5381	-2.90	1-14	P27	126.2710	-2.52	5-23	R 6					
124.6059	-4.60	0-12	R 0	124.9279	-2.84	4-21	R 4	125.1796	-2.38	4-21	R15	125.5400	-2.24	3-18	Q12	126.2725	-2.21	4-20	R14					
124.6084	-4.12	0-12	R 4	124.9281	-3.93	2-16	P 2	125.1797	-3.58	0-12	P22	125.5470	-2.54											

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
126.3611	-1.92	4-20	P15	126.5427	-3.48	0-11	P12	126.8192	-2.87	0-11	Q22	127.5518	-1.68	3-17	Q26	128.2209	-2.04	5-21	Q5					
126.3617	-4.52	0-11	P2	126.5431	-2.34	5-23	P13	126.8202	-2.45	2-15	P17	127.5876	-2.02	3-17	P25	128.2210	-2.60	5-21	P4					
126.3625	-2.91	1-13	R10	126.5432	-3.06	0-11	Q14	126.8241	-3.24	0-11	P20	127.6501	-2.01	3-17	P26	128.2273	-3.67	0-10	P4					
126.3642	-2.14	5-23	Q9	126.5442	-2.50	2-15	R12	126.8250	-2.36	3-17	R9	127.7155	-1.99	3-17	P27	128.2285	-3.11	0-10	R9					
126.3650	-2.34	5-23	R10	126.5470	-2.33	2-15	Q10	126.8255	-2.23	3-17	Q7	128.0221	-3.07	1-12	R2	128.2287	-2.12	5-21	R7					
126.3654	-3.57	0-11	R7	126.5504	-2.18	4-20	P18	126.8299	-2.29	2-15	R21	128.0225	-3.19	1-12	R1	128.2294	-3.04	0-10	Q6					
126.3655	-3.29	1-13	P6	126.5512	-1.96	5-23	Q14	126.8304	-2.06	2-15	Q19	128.0236	-2.97	1-12	R3	128.2301	-2.15	2-14	R15					
126.3661	-3.57	0-11	Q4	126.5542	-3.24	0-11	R17	126.8327	-2.70	3-17	P6	128.0250	-3.37	1-12	R0	128.2311	-2.38	2-14	P11					
126.3703	-2.76	1-13	Q8	126.5549	-2.19	5-23	R15	126.8345	-2.56	1-13	R25	128.0271	-2.89	1-12	R4	128.2320	-2.63	1-12	P12					
126.3711	-2.30	4-20	P14	126.5583	-2.69	1-13	R18	126.8420	-2.69	1-13	P21	128.0312	-3.19	1-12	Q1	128.2326	-2.21	1-12	Q14					
126.3716	-4.22	0-11	P3	126.5626	-2.75	2-15	P9	126.8434	-3.09	0-11	R25	128.0323	-2.83	1-12	R5	128.2368	-1.95	2-14	Q13					
126.3754	-3.48	0-11	Q5	126.5639	-2.87	1-13	Q14	126.8435	-2.17	3-17	Q8	128.0350	-2.97	1-12	Q2	128.2370	-1.96	5-21	Q6					
126.3760	-3.52	0-11	R8	126.5674	-2.47	1-13	Q16	126.8440	-2.32	3-17	R10	128.0396	-2.77	1-12	R6	128.2377	-2.48	5-21	P3					
126.3799	-2.87	1-13	R11	126.5675	-2.47	2-15	R13	126.8446	-2.31	1-13	Q23	128.0408	-2.83	1-12	Q3	128.2409	-3.55	0-10	P5					
126.3830	-2.13	4-20	R17	126.5704	-2.29	2-15	Q11	126.8523	-2.63	3-17	P7	128.0437	-3.67	1-12	P2	128.2421	-2.98	0-10	Q7					
126.3833	-4.05	0-11	P4	126.5716	-3.03	0-11	Q15	126.8617	-2.42	2-15	P18	128.0442	-2.78	2-14	R2	128.2424	-3.07	0-10	R10					
126.3834	-3.21	1-13	P7	126.5724	-3.44	0-11	P13	126.8626	-2.85	0-11	Q23	128.0443	-2.90	2-14	R1	128.2467	-2.08	5-21	R8					
126.3866	-3.41	0-11	Q6	126.5839	-3.22	0-11	R18	126.8635	-2.12	3-17	Q9	128.0460	-2.68	2-14	R3	128.2480	-2.39	1-12	R17					
126.3881	-2.71	1-13	Q9	126.5876	-2.70	2-15	P10	126.8648	-2.29	3-17	R11	128.0461	-3.08	2-14	R0	128.2557	-1.90	5-21	Q7					
126.3885	-3.48	0-11	R9	126.5878	-1.80	4-20	Q20	126.8679	-3.22	0-11	P21	128.0486	-2.72	1-12	Q4	128.2563	-3.45	0-10	P6					
126.3895	-2.52	5-23	P9	126.5896	-2.30	5-23	P14	126.8724	-2.27	2-15	R22	128.0489	-2.72	1-12	R7	128.2568	-2.92	0-10	Q8					
126.3954	-2.10	5-23	Q10	126.5919	-2.66	1-13	R19	126.8726	-2.04	2-15	Q20	128.0500	-2.60	2-14	R4	128.2571	-2.38	5-21	P6					
126.3965	-2.30	5-23	R11	126.5929	-2.45	2-15	R14	126.8737	-2.56	3-17	P8	128.0523	-2.90	2-14	Q1	128.2576	-2.70	3-16	R1					
126.3968	-3.92	0-11	P5	126.5958	-2.25	2-15	Q12	126.8738	-2.56	5-23	P19	128.0537	-3.37	1-12	P3	128.2581	-3.04	0-10	R11					
126.3992	-2.21	3-18	P28	126.5974	-2.84	1-13	P15	126.8828	-2.54	1-13	R26	128.0561	-2.54	2-14	R5	128.2582	-2.58	3-16	R2					
126.3995	-2.84	1-13	R12	126.5988	-1.93	5-23	Q15	126.8852	-2.08	3-17	Q10	128.0566	-2.68	2-14	Q2	128.2589	-2.13	2-14	R16					
126.3997	-3.35	0-11	Q7	126.6009	-2.44	1-13	Q17	126.8878	-2.26	3-17	R12	128.0583	-2.63	1-12	Q5	128.2594	-2.88	3-16	R0					
126.4013	-1.89	4-20	Q16	126.6019	-2.16	4-20	P19	126.8883	-3.07	0-11	R26	128.0600	-2.67	1-12	R8	128.2598	-2.34	2-14	P12					
126.4014	-3.44	0-11	R10	126.6029	-2.16	5-23	R16	126.8899	-2.66	1-13	P22	128.0628	-2.54	2-14	Q3	128.2606	-2.48	3-16	R3					
126.4033	-3.14	1-13	P8	126.6032	-3.41	0-11	P14	126.8926	-2.30	1-13	Q24	128.0641	-2.48	2-14	R6	128.2615	-2.59	1-12	P13					
126.4077	-2.66	1-13	Q10	126.6033	-3.00	0-11	Q16	126.8977	-2.50	3-17	P9	128.0646	-3.38	2-14	P2	128.2617	-2.18	1-12	P15					
126.4121	-2.26	4-20	P15	126.6147	-2.65	2-15	P11	126.9056	-2.39	2-15	P19	128.0658	-3.19	1-12	P4	128.2653	-2.40	3-16	R4					
126.4123	-3.82	0-11	P6	126.6154	-3.20	0-11	R19	126.9076	-2.83	0-11	Q24	128.0698	-2.56	1-12	Q6	128.2656	-2.70	3-16	Q1					
126.4145	-3.29	0-11	Q8	126.6205	-2.42	2-15	R15	126.9102	-2.04	3-17	Q11	128.0708	-2.43	2-14	Q4	128.2656	-1.92	2-14	Q14					
126.4187	-3.41	0-11	R11	126.6232	-2.22	2-15	Q13	126.9132	-2.23	3-17	R13	128.0731	-2.63	1-12	R9	128.2676	-2.04	5-21	R9					
126.4208	-2.81	1-13	R13	126.6274	-2.64	1-13	R20	126.9135	-3.20	0-11	P22	128.0743	-2.43	2-14	R7	128.2699	-2.48	3-16	Q2					
126.4228	-2.46	5-23	P10	126.6301	-2.98	0-11	Q17	126.9169	-2.02	2-15	Q21	128.0752	-2.68	2-14	P3	128.2723	-2.33	3-16	R5					
126.4249	-2.11	4-20	R18	126.6333	-2.81	1-13	P16	126.9169	-2.25	2-15	R23	128.0798	-3.07	1-12	P5	128.2733	-2.87	0-10	Q9					
126.4251	-3.08	1-13	P9	126.6355	-3.38	0-11	P15	126.9237	-2.45	3-17	P10	128.0810	-2.34	2-14	Q5	128.2736	-3.37	0-10	P7					
126.4276	-3.17	2-15	R1	126.6366	-2.42	1-13	Q18	126.9387	-2.01	3-17	Q12	128.0834	-2.50	1-12	Q7	128.2758	-3.01	0-10	R12					
126.4282	-3.05	2-15	R2	126.6393	-2.27	5-23	P15	126.9391	-2.64	1-13	P23	128.0866	-2.38	2-14	R8	128.2766	-2.33	3-16	Q3					
126.4293	-3.35	2-15	Q0	126.6444	-2.61	2-15	P12	126.9403	-2.20	3-17	R14	128.0876	-2.90	2-14	P4	128.2770	-1.85	5-21	Q8					
126.4294	-2.63	1-13	Q11	126.6485	-3.18	0-11	R20	126.9427	-2.28	1-13	Q25	128.0882	-2.59	1-12	R10	128.2779	-3.18	3-16	P2					
126.4295	-2.06	5-23	Q11	126.6488	-1.90	5-23	Q16	126.9514	-2.40	3-17	P11	128.0933	-2.27	2-14	Q6	128.2790	-2.37	1-12	R18					
126.4296	-3.74	0-11	P7	126.6498	-2.39	2-15	R16	126.9517	-2.37	2-15	P20	128.0958	-2.97	1-12	P6	128.2792	-2.30	5-21	P7					
126.4303	-2.95	2-15	R3	126.6526	-2.19	2-15	Q14	126.9549	-2.81	0-11	Q25	128.0989	-2.44	1-12	Q8	128.2815	-2.28	3-16	R6					
126.4312	-2.27	5-23	R12	126.6557	-2.13	4-20	P20	126.9611	-3.18	0-11	P23	128.1010	-2.34	2-14	R9	128.2852	-2.22	3-16	Q4					
126.4312	-3.24	0-11	Q9	126.6561	-2.14	5-23	R17	126.9632	-2.00	2-15	Q22	128.1017	-2.78	2-14	P5	128.2883	-2.88	3-16	P3					
126.4352	-2.87	2-15	R4	126.6643	-2.63	1-13	R21	126.9636	-2.23	2-15	R24	128.1051	-2.56	1-12	R11	128.2896	-2.10	2-14	R17					
126.4353	-3.17	2-15	Q1	126.6649	-2.95	0-11	Q18	126.9655	-1.97	3-17	Q13	128.1074	-2.21	2-14	Q7	128.2908	-2.30	5-21	P13					
126.4372	-3.38	0-11	R12	126.6701	-3.35	0-11	P16	126.9702	-2.17	3-17	R15	128.1136	-2.89	1-12	P7	128.2912	-2.00	2-14	R10					
126.4397	-2.95	2-15	Q2	126.6710	-2.78	1-13	P17	126.9824	-2.36	3-17	P12	128.1163	-2.39	1-12	Q9	128.2917	-2.83	0-10	Q10					
126.4427	-2.80	2-15	R5	126.6736	-2.57	2-15	P13	126.9914	-2.63	1-13	P24	128.1172	-2.30	2-14	R10	128.2927	-3.31	0-10	P8					
126.4439	-1.87	4-20	Q17	126.6741	-2.40	1-13	Q19	126.9933	-2.26	1-13	Q26	128.1182	-2.68	2-14	P6	128.2927	-2.15	1-12	Q16					
126.4444	-2.78	1-13	R14	126.6816	-2.37	2-15	R17	126.9971	-1.94	3-17	Q14	128.1238	-2.15	2-14	G8	128.2928	-2.22	3-16	R7					
126.4463	-2.80	2-15	Q3	126.6836	-2.16	2-15	Q15	126.9999	-2.35	2-15	P21	128.1241	-2.53	1-12	R12	128.2930	-2.56	1-12	P14					
126.4474	-3.65	2-15	P2	126.6837	-3.16	0-11	R21	127.0022	-2.15	3-17	R16	128.1334	-2.83	1-12	P8	128.2955	-2.98	0-10	R13					
126.4488	-3.68	0-11	P8	126.6928	-2.24	5-23	P16	127.0038	-2.80	0-11	Q26	128.1356	-2.35	1-12	Q10	128.2961	-2.14	3-16	Q5					
126.4488	-2.75	2-15	R6	126.7008	-2.93	0-11	Q19	127.0107	-3.16	0-11	P24	128.1358	-2.27	2-14	R11	128.2964	-1.89	2-14	P15					
126.4489	-3.03	1-13	P10	126.7028	-1.87	5-23	Q17	127.0118	-1.98	2-15	Q23	128.1366	-2.60	2-14	P7	128.3010	-1.80	5-21	Q9					
126.4499	-3.20	0-11	Q10	126.7042	-2.61	1-13	R22	127.0153	-2.32	3-17	P13	128.1424	-2.10	2-14	Q9	128.3013	-2.70	3-16	P4					
126.4529	-2.59	1-13	Q12	126.7075	-2.54	2-15	P14	127.0306	-1.91	3-17	Q15	128.1450	-2.50	1-12	R13	128.3040	-2.23	5-21	P8					
126.4544	-2.70	2-15	Q4	126.7079	-3.32	0-11	P17																	

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
128.3945	-2.08	5-21	P11	128.6793	-1.59	3-16	Q19	129.0037	-2.22	1-12	P29	129.5878	-1.29	4-18	Q27	129.8921	-2.37	1-11	R 8
128.3952	-2.04	2-14	R20	128.6825	-1.82	3-16	R21	129.0058	-1.95	2-14	P28	129.5940	-1.92	5-20	P11	129.8928	-2.33	1-11	Q 5
128.3958	-2.21	2-14	P16	128.6879	-2.55	4-18	R 1	129.0089	-2.74	0-10	P27	129.5951	-2.32	6-23	P 6	129.8980	-1.93	3-15	U 5
128.3975	-2.28	3-16	P 9	128.6890	-2.43	4-18	R 2	129.0115	-1.60	2-14	Q30	129.6013	-1.72	5-20	R14	129.8988	-2.22	2-13	P 9
128.3979	-2.08	1-12	P19	128.6893	-2.73	4-18	R 0	129.0119	-1.51	4-18	Q16	129.6024	-2.01	6-23	R 8	129.8999	-1.52	6-23	Q15
128.3992	-2.47	1-12	P17	128.6896	-2.33	4-18	R 3	129.0180	-1.82	3-16	P24	129.6034	-1.84	6-23	Q 7	129.9014	-2.89	1-11	P 4
128.4013	-1.81	2-14	Q18	128.6928	-1.49	5-21	Q19	129.0203	-2.62	0-10	R32	129.6189	-1.49	5-20	Q13	129.9021	-1.77	2-13	Q11
128.4065	-2.00	3-16	R13	128.6955	-2.55	4-18	Q 1	129.0221	-1.73	4-18	R18	129.6218	-1.63	4-18	P26	129.9033	-1.76	6-23	R16
128.4073	-1.82	3-16	Q11	128.6963	-2.25	4-18	R 4	129.0311	-1.88	4-18	P15	129.6235	-2.24	6-23	P 7	129.9041	-2.49	3-15	P 4
128.4114	-2.66	0-10	P15	128.6967	-2.19	1-12	R28	129.0499	-2.37	0-10	Q30	129.6284	-1.88	5-20	P12	129.9043	-2.25	1-11	Q 6
128.4124	-1.87	5-21	R14	128.6971	-2.48	0-10	Q23	129.0521	-1.48	4-18	Q17	129.6285	-1.97	6-23	R 9	129.9048	-2.33	1-11	R 9
128.4163	-3.07	0-10	P13	128.7002	-2.33	4-18	Q 2	129.0636	-1.71	4-18	R19	129.6290	-1.78	6-23	Q 8	129.9051	-1.97	3-15	R 8
128.4196	-2.85	0-10	R18	128.7013	-1.85	5-21	P18	129.0660	-2.72	0-10	P28	129.6365	-1.69	5-20	R15	129.9113	-1.85	3-15	Q 6
128.4219	-2.29	1-12	R22	128.7045	-2.18	4-18	R 5	129.0680	-2.21	1-12	P30	129.6522	-2.17	6-23	P 8	129.9154	-2.76	1-11	P 5
128.4234	-2.22	3-16	P10	128.7074	-2.18	4-18	Q 3	129.0698	-1.93	2-14	P29	129.6550	-1.46	5-20	Q14	129.9157	-1.92	2-13	R14
128.4248	-1.65	5-21	Q13	128.7077	-3.03	4-18	P 2	129.0726	-1.85	4-18	P16	129.6574	-1.74	6-23	Q 9	129.9176	-2.19	1-11	Q 7
128.4302	-2.04	5-21	P12	128.7093	-1.93	3-16	P18	129.0772	-2.61	0-10	R33	129.6576	-1.94	6-23	R10	129.9179	-2.29	1-11	R10
128.4332	-1.97	3-16	R14	128.7115	-2.85	0-10	Q21	129.0776	-1.80	3-16	P25	129.6655	-1.85	5-20	P13	129.9188	-2.37	3-15	P 5
128.4337	-1.78	3-16	Q12	128.7142	-2.07	4-18	Q 4	129.0946	-1.46	4-18	R18	129.6742	-1.67	5-20	R16	129.9204	-1.93	3-15	R 9
128.4349	-2.18	2-14	P17	128.7142	-1.92	2-14	R27	129.1073	-1.69	4-18	Q20	129.6840	-2.11	6-23	P 9	129.9234	-2.17	2-13	P10
128.4349	-2.02	1-12	R21	128.7146	-1.95	1-12	Q26	129.1084	-2.35	0-10	Q31	129.6896	-1.69	6-23	Q10	129.9262	-1.73	2-13	Q12
128.4365	-2.06	1-12	Q20	128.7149	-2.04	2-14	P23	129.1166	-1.82	4-18	P17	129.6901	-1.61	4-18	P27	129.9263	-1.79	3-15	U 7
128.4387	-2.44	1-12	P18	128.7149	-2.13	4-18	R 6	129.1300	-2.70	0-10	P29	129.6901	-1.90	6-23	R11	129.9273	-1.31	5-20	Q20
128.4405	-1.79	2-14	Q19	128.7164	-2.70	0-10	R26	129.1367	-1.92	2-14	P30	129.6937	-1.43	5-20	R15	129.9314	-2.67	1-11	P 6
128.4412	-2.63	0-10	Q16	128.7169	-2.31	1-12	P24	129.1391	-1.44	4-18	Q19	129.7051	-1.81	5-20	P14	129.9329	-2.14	1-11	Q 6
128.4467	-3.04	0-10	P14	128.7186	-2.73	4-18	P 3	129.1534	-1.67	4-18	R21	129.7149	-1.65	5-20	R17	129.9355	-2.25	1-11	R11
128.4494	-1.85	5-21	R15	128.7206	-1.67	2-14	Q25	129.1630	-1.80	4-18	P18	129.7185	-2.06	6-23	Q10	129.9364	-2.27	3-15	P 6
128.4513	-2.18	3-16	P11	128.7234	-1.57	3-16	Q20	129.1666	-2.34	0-10	Q32	129.7248	-1.65	6-23	Q11	129.9384	-1.89	3-15	R10
128.4516	-2.83	0-10	R19	128.7270	-1.99	4-18	Q 5	129.1848	-2.69	0-10	Q30	129.7259	-1.87	6-23	R12	129.9417	-1.90	2-13	R15
128.4620	-2.27	1-12	R23	128.7271	-1.80	3-16	R22	129.1868	-1.42	4-18	Q20	129.7351	-1.41	5-20	Q16	129.9426	-1.87	6-23	P15
128.4621	-1.95	3-16	P15	128.7276	-2.07	4-18	R 7	129.2013	-1.65	4-18	R22	129.7475	-1.78	5-20	P15	129.9432	-1.67	5-20	P19
128.4622	-1.75	3-16	Q13	128.7320	-2.55	4-18	P 4	129.2054	-1.90	2-14	P31	129.7568	-2.01	6-23	P11	129.9446	-1.74	3-15	Q 8
128.4625	-1.62	5-21	Q14	128.7414	-1.91	4-18	Q 6	129.2117	-1.77	4-18	P19	129.7579	-1.62	5-20	R18	129.9493	-2.59	1-11	P 7
128.4685	-2.00	5-21	P13	128.7422	-2.46	0-10	Q24	129.2293	-2.33	0-10	Q33	129.7613	-1.60	4-18	P28	129.9499	-2.13	2-13	Q11
128.4733	-2.61	0-10	P17	128.7423	-2.03	4-18	R 8	129.2367	-1.40	4-18	Q21	129.7619	-2.52	2-13	R 2	129.9500	-2.09	1-11	Q11
128.4755	-2.00	2-14	R22	128.7449	-2.43	4-18	P 5	129.2465	-2.67	0-10	P31	129.7629	-2.65	2-13	R 1	129.9516	-1.50	6-23	Q16
128.4762	-2.15	2-14	P18	128.7473	-1.47	5-21	Q20	129.2526	-1.63	4-18	R23	129.7634	-1.62	6-23	Q12	129.9526	-1.70	2-13	Q13
128.4780	-2.04	1-12	Q21	128.7550	-1.92	3-16	P19	129.2625	-1.75	4-18	P20	129.7636	-2.43	2-13	R 3	129.9544	-2.22	1-11	Q12
128.4790	-3.01	0-10	P15	128.7563	-1.82	5-21	P19	129.2891	-1.38	4-18	Q22	129.7645	-2.83	2-13	Q 0	129.9558	-1.85	3-15	P11
128.4798	-2.42	1-12	P19	128.7566	-2.83	0-10	P22	129.2946	-2.31	0-10	Q34	129.7651	-1.84	6-23	R13	129.9566	-2.19	3-15	R 7
128.4813	-2.14	3-16	P12	128.7579	-1.85	4-18	Q 7	129.3065	-1.61	4-18	R24	129.7673	-2.35	2-13	Q 4	129.9583	-1.74	6-23	R17
128.4823	-1.77	2-14	Q20	128.7597	-1.99	4-18	R 9	129.3123	-2.66	0-10	P32	129.7708	-2.65	2-13	Q 1	129.9599	-1.69	3-15	Q 9
128.4838	-2.81	0-10	R20	128.7635	-1.93	1-12	Q27	129.3164	-1.73	4-18	P21	129.7731	-2.28	2-13	R 5	129.9691	-2.04	1-11	Q10
128.4894	-1.82	5-21	R16	128.7639	-2.33	4-18	P 6	129.3432	-1.36	4-18	R23	129.7747	-2.43	2-13	Q 2	129.9691	-2.52	1-11	P 8
128.4928	-1.72	3-16	Q14	128.7675	-2.69	0-10	R27	129.3621	-1.60	4-18	R25	129.7790	-1.38	5-20	Q17	129.9698	-1.87	2-13	R16
128.4932	-1.92	3-16	R16	128.7680	-2.02	2-14	P24	129.3726	-1.71	4-18	P22	129.7809	-2.22	2-13	R 6	129.9746	-2.19	1-11	R13
128.4942	-2.58	0-10	Q18	128.7684	-1.90	2-14	R28	129.3779	-2.65	0-10	P33	129.7810	-2.28	2-13	Q 3	129.9754	-2.12	3-15	P 6
128.5031	-1.59	5-21	P15	128.7696	-1.55	3-16	Q21	129.3806	-2.45	5-20	R 1	129.7835	-3.13	2-13	P 2	129.9780	-1.82	3-15	R12
128.5041	-2.26	1-12	R24	128.7697	-2.29	1-12	P25	129.3817	-2.62	5-20	R 0	129.7890	-2.17	2-13	Q 4	129.9785	-2.09	2-13	P12
128.5095	-1.96	5-21	P14	128.7742	-1.78	3-16	R23	129.3822	-2.32	5-20	R 2	129.7906	-2.17	2-13	R 7	129.9807	-1.66	3-15	Q14
128.5138	-2.10	3-16	P13	128.7748	-1.66	2-14	Q26	129.3861	-2.23	5-20	R 3	129.7924	-1.75	5-20	P16	129.9822	-1.65	2-13	P10
128.5141	-2.98	0-10	P16	128.7767	-1.80	4-18	Q 8	129.3879	-2.45	5-20	Q 1	129.7938	-2.83	2-13	P 3	129.9886	-2.01	1-11	Q11
128.5141	-2.79	0-10	R21	128.7793	-1.95	4-18	R10	129.3929	-2.23	5-20	Q 2	129.7982	-1.97	6-23	P12	129.9908	-2.46	1-11	P 9
128.5193	-1.98	2-14	R23	128.7843	-2.25	4-18	P 7	129.3930	-2.15	5-20	R 4	129.7991	-2.09	2-13	Q 5	129.9973	-2.16	1-11	R14
128.5194	-2.13	2-14	P19	128.7887	-2.44	0-10	Q25	129.4002	-2.92	5-20	P 2	129.8025	-2.13	2-13	R 8	129.9980	-1.84	6-23	P16
128.5211	-2.02	1-12	Q22	128.7976	-1.75	4-18	Q 9	129.4006	-2.08	5-20	Q 3	129.8038	-1.60	5-20	R19	129.9987	-1.65	5-20	P20
128.5233	-2.39	1-12	P20	128.7996	-2.81	0-10	P23	129.4007	-1.34	4-18	Q24	129.8054	-1.58	6-23	Q13	129.9993	-2.06	3-15	P 9
128.5256	-1.75	2-14	Q21	128.8012	-1.91	4-18	R11	129.4021	-2.08	5-20	R 5	129.8064	-2.65	2-13	P 4	129.9999	-1.85	2-13	R17
128.5256	-1.69	3-16	Q15	128.8029	-1.90	3-16	P20	129.4107	-1.97	5-20	Q 4	129.8081	-1.81	6-23	R14	130.0018	-1.79	3-15	P13
128.5265	-1.90	3-16	R17	128.8070	-2.18	4-18	P 8	129.4113	-2.62	5-20	P 3	129.8112	-2.01	2-13	Q 6	130.0063	-1.61	3-15	Q11
128.5321	-1.80	5-21	R17	128.8093	-2.67	0-10	R28	129.4139	-2.02	5-20	R 6	129.8163	-2.09	2-13	R 9	130.0075	-1.47	6-23	P17
128.5367	-2.56	0-10	P17	128.8141	-1.80	5-21	P20	129.4208	-1.58	4-18	R26	129.8208	-2.52	2-13	P 5	130.0091	-2.05</		

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ																
130.1438	-2.94	0	9	R 5	130.3217	-1.68	4-17	R13	130.7311	-1.57	3-15	P26	131.6546	-1.81	2-12	R10	131.8503	-2.60	1-10	P 4	131.6546	-1.81	2-12	R10	131.8503	-2.60	1-10	P 4												
130.1468	-3.31	0	9	Q 1	130.3252	-1.95	1-11	R24	130.7321	-1.58	4-17	P20	131.6584	-1.66	3-14	R11	131.8518	-1.96	1-10	Q 6	131.6584	-1.66	3-14	R11	131.8518	-1.96	1-10	Q 6												
130.1486	-1.85	3-15	P14		130.3279	-1.83	2-13	P21	130.7348	-2.08	0	9	Q25	131.6616	-2.00	3-14	P 7	131.8524	-1.43	4-16	Q 9	131.6616	-2.00	3-14	P 7	131.8524	-1.43	4-16	Q 9											
130.1500	-2.89	0	9	R 6	130.3280	-1.45	2-13	Q23	130.7460	-2.31	0	9	R28	131.6621	-1.73	6-21	R 9	131.8544	-1.66	3-14	P14	131.6621	-1.73	6-21	R 9	131.8544	-1.66	3-14	P14											
130.1505	-3.09	0	9	Q 2	130.3348	-2.33	0	9	Q14	130.7513	-1.20	4-17	Q22	131.6647	-2.19	2-12	P 6	131.8585	-1.26	3-14	Q16	131.6647	-2.19	2-12	P 6	131.8585	-1.26	3-14	Q16											
130.1520	-1.92	2-13	P17		130.3349	-1.90	4-17	P10	130.7540	-2.45	0	9	P23	131.6666	-1.50	3-14	Q 8	131.8635	-2.00	1-10	R10	131.6666	-1.50	3-14	Q 8	131.8635	-2.00	1-10	R10											
130.1531	-1.54	2-13	Q19		130.3370	-2.51	0	9	R17	130.7608	-1.44	4-17	R24	131.6670	-1.66	2-12	Q 8	131.8638	-1.31	6-21	Q14	131.6670	-1.66	2-12	Q 8	131.8638	-1.31	6-21	Q14											
130.1531	-1.67	3-15	R18		130.3425	-2.75	0	9	P12	130.7704	-1.94	1-11	P28	131.6718	-1.78	2-12	R11	131.8643	-2.48	1-10	P 5	131.6718	-1.78	2-12	R11	131.8643	-2.48	1-10	P 5											
130.1537	-1.82	1-11	Q17		130.3475	-1.71	1-11	Q22	130.7823	-2.06	0	9	Q26	131.6725	-1.55	6-21	Q 8	131.8649	-1.90	1-10	Q 7	131.6725	-1.55	6-21	Q 8	131.8649	-1.90	1-10	Q 7											
130.1559	-2.94	0	9	Q 3	130.3494	-1.46	4-17	Q12	130.7843	-1.56	4-17	P21	131.6753	-2.00	6-21	P 7	131.8657	-1.86	4-16	P 8	131.6753	-2.00	6-21	P 7	131.8657	-1.86	4-16	P 8												
130.1571	-1.45	3-15	P16		130.3494	-1.65	4-17	R14	130.7948	-2.30	0	9	R29	131.6793	-1.63	3-14	R12	131.8657	-1.37	2-12	Q16	131.6793	-1.63	3-14	R12	131.8657	-1.37	2-12	Q16											
130.1580	-2.83	0	9	R 7	130.3526	-1.71	3-15	P19	130.8026	-2.43	0	9	P24	131.6826	-1.93	3-14	P 8	131.8679	-1.78	2-12	P14	131.6826	-1.93	3-14	P 8	131.8679	-1.78	2-12	P14											
130.1598	-3.79	0	9	P 2	130.3552	-2.09	1-11	P20	130.8045	-1.19	4-17	Q23	131.6830	-2.11	2-12	P 9	131.8709	-1.70	6-21	P13	131.6830	-2.11	2-12	P 9	131.8709	-1.70	6-21	P13												
130.1613	-2.22	1-11	P15		130.3594	-1.57	3-15	R23	130.8153	-1.43	4-17	R25	131.6848	-1.61	2-12	Q 9	131.8718	-1.56	4-16	R12	131.6848	-1.61	2-12	Q 9	131.8718	-1.56	4-16	R12												
130.1631	-2.83	0	9	Q 4	130.3620	-2.30	0	9	Q15	130.8318	-2.05	0	9	Q27	131.6863	-1.70	6-21	R10	131.8747	-1.38	4-16	Q10	131.6863	-1.70	6-21	R10	131.8747	-1.38	4-16	Q10										
130.1637	-2.38	4-17	R 1		130.3621	-1.33	3-15	Q21	130.8392	-1.54	4-17	P22	131.6877	-1.45	3-14	Q10	131.8795	-1.96	1-10	R11	131.6877	-1.45	3-14	Q10	131.8795	-1.96	1-10	R11												
130.1637	-2.26	4-17	R 2		130.3635	-1.86	4-17	P11	130.8459	-2.28	0	9	R30	131.6911	-1.74	2-12	R12	131.8799	-1.85	1-10	Q 6	131.6911	-1.74	2-12	R12	131.8799	-1.85	1-10	Q 6											
130.1651	-2.56	4-17	R 0		130.3638	-1.68	2-13	R26	130.8529	-2.41	0	9	P25	131.6972	-1.50	6-21	Q 9	131.8803	-2.38	1-10	P 6	131.6972	-1.50	6-21	Q 9	131.8803	-2.38	1-10	P 6											
130.1669	-2.16	4-17	R 3		130.3649	-2.49	0	9	R18	130.8607	-1.17	4-17	Q24	131.7009	-1.93	6-21	P 8	131.8820	-1.57	2-12	R19	131.7009	-1.93	6-21	P 8	131.8820	-1.57	2-12	R19											
130.1677	-2.79	0	9	R 8	130.3688	-1.94	1-11	R25	130.8832	-2.03	0	9	Q28	131.7023	-1.60	3-14	R13	131.8856	-1.45	3-14	R19	131.7023	-1.60	3-14	R13	131.8856	-1.45	3-14	R19											
130.1698	-2.02	1-11	R20		130.3707	-2.71	0	9	P13	130.8966	-1.52	4-17	P23	131.7035	-2.04	2-12	P 8	131.8902	-1.80	4-16	P 9	131.7035	-2.04	2-12	P 8	131.8902	-1.80	4-16	P 9											
130.1700	-3.49	0	9	P 3	130.3768	-1.43	4-17	Q13	130.8981	-2.27	0	9	R31	131.7047	-1.57	2-12	Q10	131.8902	-1.52	6-21	R16	131.7047	-1.57	2-12	Q10	131.8902	-1.52	6-21	R16											
130.1714	-2.38	4-17	Q 1		130.3771	-1.80	2-13	P22	130.9052	-2.39	0	9	P26	131.7059	-1.87	3-14	P 9	131.8904	-1.63	3-14	P15	131.7059	-1.87	3-14	P 9	131.8904	-1.63	3-14	P15											
130.1720	-2.08	4-17	R 4		130.3772	-1.44	2-13	Q24	130.9187	-1.15	4-17	Q25	131.7107	-1.41	3-14	Q11	131.8944	-1.23	3-14	Q17	131.7107	-1.41	3-14	Q11	131.8944	-1.23	3-14	Q17												
130.1722	-2.75	0	9	Q 5	130.3801	-1.63	4-17	R15	130.9358	-2.02	0	9	Q29	131.7124	-1.71	2-12	R13	131.8968	-1.80	1-10	Q 9	131.7124	-1.71	2-12	R13	131.8968	-1.80	1-10	Q 9											
130.1762	-2.16	4-17	Q 2		130.3909	-2.27	0	9	Q16	130.9527	-2.26	0	9	R32	131.7132	-1.66	6-21	R11	131.8969	-1.53	4-16	R13	131.7132	-1.66	6-21	R11	131.8969	-1.53	4-16	R13										
130.1791	-2.75	0	9	R 9	130.3919	-1.69	1-11	Q23	130.9563	-1.50	4-17	P24	131.7251	-1.45	6-21	Q10	131.8975	-1.93	1-10	R12	131.7251	-1.45	6-21	Q10	131.8975	-1.93	1-10	R12												
130.1796	-2.01	4-17	R 5		130.3947	-2.47	0	9	R19	130.9593	-2.37	0	9	P27	131.7259	-1.99	2-12	P 9	131.8982	-2.30	1-10	P 7	131.7259	-1.99	2-12	P 9	131.8982	-2.30	1-10	P 7										
130.1812	-1.75	2-13	R22		130.3955	-1.82	4-17	P12	130.9796	-1.13	4-17	Q26	131.7265	-1.53	2-12	Q11	131.8992	-1.35	4-16	Q11	130.3955	-1.82	4-17	P12	130.9796	-1.13	4-17	Q26	131.7265	-1.53	2-12	Q11	131.8992	-1.35	4-16	Q11				
130.1820	-3.31	0	9	P 4	130.4000	-1.69	3-15	P20	130.9912	-2.00	0	9	Q30	131.7274	-1.57	3-14	R14	131.8997	-1.35	2-12	Q17	130.4000	-1.69	3-15	P20	130.9912	-2.00	0	9	Q30	131.7274	-1.57	3-14	R14	131.8997	-1.35	2-12	Q17		
130.1826	-2.01	4-17	Q 3		130.4003	-2.07	1-11	P21	131.0154	-2.36	0	9	P28	131.7292	-1.87	6-21	P 9	131.9024	-1.74	2-12	P15	131.0154	-2.36	0	9	P28	131.7292	-1.87	6-21	P 9	131.9024	-1.74	2-12	P15						
130.1829	-2.67	0	9	Q 6	130.4008	-2.67	0	9	P14	131.0189	-1.48	4-17	P25	131.7314	-1.82	3-14	P10	131.9056	-1.28	6-21	Q15	131.0189	-1.48	4-17	P25	131.7314	-1.82	3-14	P10	131.9056	-1.28	6-21	Q15							
130.1840	-2.86	4-17	P 2		130.4073	-1.55	3-15	R24	131.0484	-1.99	0	9	Q31	131.7357	-1.69	2-12	R14	131.9133	-1.66	6-21	P14	131.0484	-1.99	0	9	Q31	131.7357	-1.69	2-12	R14	131.9133	-1.66	6-21	P14						
130.1851	-1.82	3-15	P15		130.4094	-1.40	4-17	Q14	131.0735	-2.34	0	9	P29	131.7362	-1.38	3-14	Q12	131.9157	-1.76	1-10	Q10	130.4094	-1.40	4-17	Q14	131.0735	-2.34	0	9	P29	131.7362	-1.38	3-14	Q12	131.9157	-1.76	1-10	Q10		
130.1853	-1.76	6-23	P19		130.4097	-1.31	3-15	Q22	131.0833	-1.46	4-17	P26	131.7429	-1.63	6-21	R12	131.9169	-1.75	4-16	P10	131.0833	-1.46	4-17	P26	131.7429	-1.63	6-21	R12	131.9169	-1.75	4-16	P10								
130.1891	-1.95	4-17	R 6		130.4129	-1.60	4-17	R16	131.1075	-1.98	0	9	Q32	131.7452	-2.23	4-16	R 2	131.9174	-1.90	1-10	R13	130.4129	-1.60	4-17	R16	131.1075	-1.98	0	9	Q32	131.7452	-2.23	4-16	R 2	131.9174	-1.90	1-10	R13		
130.1894	-1.80	1-11	Q18		130.4147	-1.92	1-11	R26	131.1328	-2.33	0	9	P30	131.7457	-2.10	4-16	R 2	131.9179	-2.23	1-10	P 8	131.1328	-2.33	0	9	P30	131.7457	-2.10	4-16	R 2	131.9179	-2.23	1-10	P 8						
130.1900	-1.65	3-15	R19		130.4217	-2.24	0	9	Q17	131.1506	-1.44	4-17	P27	131.7472	-2.41	4-16	R 0	131.9180	-1.55	2-12	R20	130.4217	-2.24	0	9	Q17	131.1506	-1.44	4-17	P27	131.7472	-2.41	4-16	R 0	131.9180	-1.55	2-12	R20		
130.1920	-1.90	4-17	Q 4		130.4263	-2.45	0	9	R20	131.1691	-1.96	0	9	Q33	131.7481	-2.01	4-16	R 3	131.9235	-1.43	3-14	R20	131.1691	-1.96	0	9	R20	131.1691	-1.96	0	9	Q33	131.7481	-2.01	4-16	R 3	131.9235	-1.43	3-14	R20
130.1926	-2.71	0	9	R10	130.4277	-1.78	2-13	P23	131.1949	-2.31	0	9	P31	131.7503	-1.94	2-12	P10	131.9241	-1.50	4-16	R14	130.4277	-1.78	2-13	P23	131.1949	-2.31	0	9	P31	131.7503	-1.94	2-12	P10	131.9241	-1.50	4-16	R14		
130.1929	-1.90	2-13	P18		130.4287	-1.42	2-13	Q25	131.2593	-2.30	0	9	P32	131.7503	-1.49	2-12	Q12	131.9263	-1.31	4-16	Q12</																			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
132.1017	-1.53	1-10	Q17	132.2942	-1.53	5-18	R12	132.5978	-1.68	1-10	P26	132.9879	-1.37	6-20	Q10	133.4262	-2.13	3-13	P 4					
132.1026	-1.50	3-14	P20	132.2943	-2.29	0- 8	R12	132.5986	-1.44	2-12	P29	132.9955	-1.79	6-20	P 9	133.4306	-1.50	3-13	Q 6					
132.1049	-1.61	2-12	P20	132.2983	-1.17	2-12	Q26	-132.5991	-1.56	1-10	R31	-132.9963	-1.67	0- 8	Q29	133.4336	-1.68	7-23	P16					
132.1072	-1.12	3-14	Q22	132.2998	-2.16	0- 8	Q 9	132.6145	-2.21	0- 8	P18	132.9986	-2.26	7-23	P 5	133.4345	-1.57	3-13	R 9					
132.1093	-1.74	1-10	R20	132.3014	-1.65	1-10	R25	132.6216	-1.08	5-18	P19	132.9998	-1.55	6-20	R12	133.4360	-2.11	4-15	R 1					
132.1097	-1.93	1-10	P15	132.3027	-1.77	5-18	P 9	132.6219	-1.33	3-14	P29	133.0002	-1.90	7-23	R 7	133.4363	-1.98	4-15	R 2					
132.1114	-1.95	6-21	P18	132.3028	-1.80	1-10	P20	132.6302	-1.31	5-18	R21	133.0013	-1.75	7-23	Q 6	133.4379	-2.28	4-15	R 0					
132.1226	-1.51	1-10	P18	132.3039	-2.53	2-12	P24	132.6310	-2.02	0- 8	R24	-133.0022	-1.90	0- 8	R32	133.4385	-2.11	4-15	R 3					
132.1240	-1.53	4-16	P16	132.3040	-2.66	0- 8	P 7	132.6317	-1.80	0- 8	Q21	133.0123	-0.95	5-18	Q26	133.4412	-2.01	3-13	P 5					
132.1254	-1.46	2-12	R25	132.3055	-1.30	3-14	R28	-132.6345	-1.31	1-10	Q29	133.0164	-2.16	7-23	P 6	133.4426	-1.32	7-23	Q17					
132.1358	-1.14	4-16	Q18	132.3078	-1.43	4-16	P20	132.6440	-1.45	5-18	P18	133.0170	-1.33	6-20	Q11	133.4433	-1.81	4-15	K 4					
132.1358	-1.36	4-16	R20	132.3116	-1.41	3-14	P24	132.6542	-1.66	1-10	P27	133.0231	-1.86	7-23	R 8	133.4445	-2.11	4-15	Q 1					
132.1401	-1.72	1-10	R21	132.3126	-2.26	0- 8	R13	132.6562	-2.18	0- 8	P19	133.0246	-1.68	7-23	Q 7	133.4452	-1.43	3-13	Q 7					
132.1458	-1.90	1-10	P16	132.3156	-1.05	3-14	Q26	-132.6570	-1.55	1-10	R32	133.0257	-1.74	6-20	P10	133.4492	-1.89	4-15	Q 2					
132.1460	-1.22	2-12	Q23	132.3171	-1.31	5-18	Q11	132.6646	-1.43	2-12	P30	-133.0298	-2.02	0- 8	P27	133.4506	-1.53	3-13	R10					
132.1463	-1.34	3-14	R25	132.3175	-2.11	0- 8	Q10	132.6667	-1.06	5-18	R13	-132.6718	-2.00	6-20	R13	133.4510	-1.74	4-15	R 5					
132.1511	-1.59	2-12	P21	132.3216	-1.05	4-16	Q22	132.6714	-1.78	0- 8	Q22	-133.0330	-1.57	1-10	P33	133.4561	-1.74	4-15	Q 3					
132.1521	-1.67	3-14	P21	132.3216	-1.50	5-18	R13	-132.6718	-2.00	0- 8	R25	133.0458	-2.08	7-23	P 7	-133.4562	-1.92	0- 8	P34					
132.1533	-2.20	5-18	R 1	132.3233	-2.59	0- 8	P 8	132.6793	-1.30	5-18	R22	133.0482	-1.30	5-18	P25	133.4571	-1.68	4-15	R 6					
132.1544	-2.07	5-18	R 2	132.3305	-1.72	5-18	P10	132.6907	-1.31	3-14	P30	133.0489	-1.30	6-20	Q12	133.4577	-2.58	4-15	P 2					
132.1549	-1.98	5-18	R 3	132.3307	-1.41	1-10	Q23	132.6921	-2.16	0- 8	P20	133.0500	-1.82	7-23	R 9	133.4582	-1.91	3-13	P 6					
132.1549	-2.38	5-18	R 0	132.3327	-2.23	0- 8	R14	-132.6921	-1.29	1-10	Q30	133.0511	-1.63	7-23	Q 8	133.4617	-1.38	3-13	Q 8					
132.1552	-1.10	3-14	Q23	132.3371	-2.07	0- 8	Q11	132.6942	-1.42	5-18	P19	-133.0546	-1.65	0- 8	Q30	133.4647	-1.63	4-15	Q 4					
132.1575	-1.16	6-21	Q20	132.3442	-2.53	0- 8	P 9	132.7128	-1.65	1-10	R28	-133.0585	-1.89	0- 8	R33	133.4686	-1.63	4-15	R 7					
132.1613	-2.20	5-18	Q 1	132.3459	-1.28	5-18	Q12	132.7133	-1.76	0- 8	Q23	133.0586	-1.69	6-20	P11	133.4687	-1.50	3-13	R11					
132.1617	-1.90	5-18	R 4	132.3465	-1.63	1-10	R26	-132.7151	-1.53	1-10	R33	133.0640	-1.49	6-20	R14	133.4690	-2.28	4-15	P 3					
132.1662	-1.98	5-18	Q 2	132.3483	-1.15	2-12	Q27	-132.7156	-1.99	0- 8	R26	133.0756	-2.01	7-23	P 8	133.4758	-1.54	4-15	Q 5					
132.1664	-1.49	1-10	Q19	132.3488	-1.78	1-10	P21	132.7180	-1.04	5-18	Q21	133.0791	-0.94	5-18	Q27	133.4764	-1.61	6-20	P20					
132.1665	-1.50	4-16	P17	132.3515	-1.47	5-18	R14	132.7319	-1.28	5-18	R23	133.0801	-1.78	7-23	R10	133.4772	-1.83	3-13	P 7					
132.1681	-1.52	6-21	P19	132.3547	-2.21	0- 8	R15	132.7356	-2.14	0- 8	P21	133.0805	-1.58	7-23	Q 9	133.4804	-1.33	3-13	Q 9					
132.1700	-1.83	5-18	R 5	132.3581	-1.51	2-12	P25	132.7465	-1.40	5-18	P20	133.0833	-1.26	6-20	Q13	133.4820	-1.58	4-15	R 4					
132.1722	-1.44	4-16	R26	132.3585	-2.04	0- 8	Q12	132.7507	-1.75	0- 8	Q24	-133.0873	-2.00	0- 8	P28	133.4825	-2.11	4-15	P 4					
132.1736	-1.83	5-18	Q 3	132.3597	-1.41	4-16	P21	-132.7520	-1.97	0- 8	R27	133.0942	-1.65	6-20	P12	-133.4853	-1.56	0- 8	Q37					
132.1742	-2.68	5-18	P 2	132.3611	-1.68	5-18	P11	-132.7521	-1.28	1-10	Q31	133.1001	-1.46	6-20	R15	133.4890	-1.46	3-13	R12					
132.1783	-1.70	1-10	R22	132.3629	-1.28	3-14	R29	132.7613	-1.30	3-14	P31	-133.1045	-1.56	1-10	P34	133.4894	-1.47	4-15	Q 6					
132.1785	-1.87	1-10	P17	132.3671	-2.48	0- 8	P10	132.7719	-1.02	5-18	Q22	-133.1078	-1.64	0- 8	Q31	133.4936	-1.65	7-23	P17					
132.1786	-1.12	4-16	Q19	132.3695	-1.40	3-14	P25	-132.7787	-1.63	1-10	P29	133.1085	-1.96	7-23	P 9	133.4975	-1.54	4-15	R 9					
132.1795	-1.35	4-16	R21	132.3733	-1.04	3-14	Q27	132.7802	-2.11	0- 8	P22	133.1136	-1.75	7-23	R11	133.4977	-1.98	4-15	P 5					
132.1805	-1.72	5-18	Q 4	132.3738	-1.03	4-16	Q23	132.7873	-1.26	5-18	R24	133.1138	-1.54	7-23	Q10	133.4985	-1.77	3-13	P 8					
132.1806	-1.77	5-18	R 6	132.3770	-1.39	1-10	Q24	132.7996	-1.73	0- 8	Q25	-133.1145	-1.88	0- 8	R34	133.5011	-1.29	3-13	Q10					
132.1854	-2.38	5-18	P 3	132.3776	-1.24	5-18	Q13	-132.8004	-1.96	0- 8	R28	133.1167	-1.28	5-18	P26	133.5049	-1.41	4-15	Q 7					
132.1936	-1.72	5-18	R 7	132.3788	-2.18	0- 8	R16	132.8021	-1.38	5-18	P21	133.1205	-1.23	6-20	Q14	133.5059	-1.29	7-23	Q18					
132.1938	-1.63	5-18	Q 5	132.3818	-2.00	0- 8	Q13	-132.8116	-1.26	1-10	Q32	133.1325	-1.61	6-20	P13	133.5112	-1.43	3-13	R13					
132.1942	-1.20	2-12	Q24	132.3839	-1.45	5-18	R15	132.8267	-2.09	0- 8	P23	-133.1373	-1.99	0- 8	P29	133.5159	-1.89	4-15	P 6					
132.1975	-1.33	3-14	R26	132.3916	-2.44	0- 8	R11	132.8276	-1.00	5-18	Q23	133.1389	-1.44	6-20	R16	133.5160	-1.51	4-15	R10					
132.1993	-2.20	5-18	P 4	132.3941	-1.63	5-18	P12	-132.8347	-1.62	1-10	P30	133.1442	-1.90	7-23	P10	133.5216	-1.71	3-13	P 9					
132.2002	-1.57	2-12	P22	132.3950	-1.76	1-10	P22	132.8377	-2.22	6-20	R 1	133.1502	-1.50	7-23	Q11	133.5237	-1.35	4-15	Q 8					
132.2031	-1.45	3-14	Q22	-132.3989	-1.62	1-10	R27	132.8390	-2.39	6-20	R 0	133.1506	-1.71	7-23	R12	133.5239	-1.25	3-13	G11					
132.2057	-1.47	1-10	Q20	132.4068	-1.97	0- 8	Q14	132.8392	-2.09	6-20	R 2	133.1604	-1.20	6-20	Q15	-133.5263	-1.90	0- 8	P35					
132.2066	-1.09	3-14	Q24	132.4068	-2.16	0- 8	R17	132.8432	-1.99	6-20	R 3	-133.1660	-1.62	0- 8	Q32	133.5266	-2.08	2-11	R 2					
132.2085	-1.56	5-18	Q 6	132.4074	-1.13	2-12	Q28	132.8445	-1.24	5-18	R25	133.1734	-1.58	6-20	P14	133.5275	-2.20	2-11	R 1					
132.2086	-1.68	5-18	R 8	132.4115	-1.21	5-18	Q14	132.8454	-2.22	6-20	Q 1	-133.1737	-1.87	0- 8	R35	133.5276	-1.98	2-11	R 3					
132.2101	-2.83	0- 8	R 2	132.4137	-1.38	4-16	P22	-132.8471	-1.71	0- 8	Q26	-133.1762	-1.55	1-10	P35	133.5303	-2.38	2-11	R 0					
132.2105	-2.74	0- 8	R 3	132.4143	-1.49	2-12	P26	132.8502	-1.91	6-20	R 4	133.1807	-1.41	6-20	R17	133.5306	-1.90	2-11	R 4					
132.2114	-1.48	4-16	P18	132.4179	-2.39	0- 8	P12	132.8506	-1.99	6-20	Q 2	133.1839	-1.86	7-23	P11	133.5336	-1.47	4-15	R11					
132.2115	-2.96	0- 8	R 1	132.4188	-1.42	5-18	R16	-132.8508	-1.94	0- 8	R29	133.1870	-1.26	5-18	P27	133.5357	-1.83	2-11	R 5					
132.21																								

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ															
133.6427	-1.15	4-15	Q13	133.8906	-1.96	1-9	Q 3	134.1694	-1.23	5-17	R21	134.6080	-1.43	1-9	P25	135.2665	-1.55	4-14	Q 4	133.6437	-1.83	2-11	P 8	133.8913	-1.86	1-9	R 7	134.1726	-0.97	2-11	Q25	134.6224	-2.06	0-7	R12	135.2682	-1.55	4-14	P 7
133.6461	-1.50	2-11	P13	133.8949	-2.81	1-9	P 2	134.1745	-0.87	3-13	Q27	134.6242	-1.80	0-7	P18	135.2720	-2.20	4-14	R 3	133.6545	-1.31	3-13	R18	133.8968	-1.20	3-13	R24	134.1763	-1.66	1-9	P15	134.6334	-1.61	0-7	Q18	135.2764	-1.63	7-21	R12
133.6624	-1.32	2-11	Q11	133.8979	-1.86	1-9	Q 4	134.1786	-1.23	3-13	P25	134.6349	-1.05	1-9	Q25	135.2773	-1.46	4-14	Q 5	133.6660	-1.77	2-11	P 9	133.8982	-1.35	4-15	P18	134.1858	-1.34	2-11	P23	134.6450	-1.29	1-9	Q18	135.2809	-1.50	4-14	R 8
133.6666	-1.33	4-15	R16	133.8997	-1.39	5-17	R14	134.1951	-1.36	5-17	P18	134.6503	-2.02	0-7	R31	135.2842	-1.67	0-7	P28	133.6679	-1.54	4-15	P16	133.8999	-1.20	4-15	R22	134.1960	-1.24	1-9	Q18	134.6524	-1.78	0-7	R19	135.2853	-2.02	4-14	P 4
133.6690	-1.09	3-13	Q16	133.9011	-1.81	1-9	R 8	134.1980	-1.45	1-9	R21	134.6585	-1.19	5-17	P26	135.2902	-1.39	4-14	Q 6	133.6690	-1.50	3-13	P14	133.9013	-1.19	5-17	Q12	134.2110	-1.63	1-9	P16	134.6615	-1.58	0-7	Q16	135.2906	-1.42	7-21	Q11
133.6691	-1.88	0-8	P37	133.9055	-2.51	1-9	P 3	134.2117	-1.22	4-15	P24	134.6617	-1.41	1-9	P26	135.2945	-1.54	0-7	R34	133.6692	-1.67	2-11	R14	133.9055	-0.97	4-15	Q20	134.2120	-0.98	5-17	Q20	134.6801	-1.99	0-7	R14	135.2957	-1.46	4-14	R 9
133.6736	-1.12	4-15	Q14	133.9059	-1.09	2-11	Q19	134.2174	-1.21	5-17	R22	134.6824	-1.76	0-7	R20	135.2962	-1.82	7-21	P10	133.6736	-1.12	4-15	Q14	133.9059	-1.09	2-11	Q19	134.2174	-1.21	5-17	R22	134.6824	-1.76	0-7	R20	135.2962	-1.82	7-21	P10
133.6872	-1.28	2-11	Q12	133.9072	-1.77	1-9	Q 5	134.2240	-0.95	2-11	Q26	134.6888	-1.04	1-9	Q29	135.2979	-1.30	0-7	Q31	133.6872	-1.28	2-11	Q12	133.9072	-1.77	1-9	Q 5	134.2240	-0.95	2-11	Q26	134.6888	-1.04	1-9	Q29	135.2979	-1.30	0-7	Q31
133.6896	-1.29	3-13	R19	133.9121	-0.96	3-13	Q22	134.2313	-1.22	1-9	Q19	134.6913	-1.56	0-7	Q17	135.3004	-1.90	4-14	P 5	133.6896	-1.29	3-13	R19	133.9121	-0.96	3-13	Q22	134.2313	-1.22	1-9	Q19	134.6913	-1.56	0-7	Q17	135.3004	-1.90	4-14	P 5
133.6903	-1.72	2-11	P10	133.9127	-1.77	1-9	R 9	134.2340	-1.43	1-9	R22	134.7007	-1.28	1-9	R32	135.3051	-1.32	4-14	Q 7	133.6903	-1.72	2-11	P10	133.9127	-1.77	1-9	R 9	134.2340	-1.43	1-9	R22	134.7007	-1.28	1-9	R32	135.3051	-1.32	4-14	Q 7
133.6958	-1.45	2-11	R15	133.9150	-1.33	3-13	P20	134.2382	-1.32	2-11	P22	134.7115	-1.95	0-7	R15	135.3096	-1.88	3-12	R 2	133.6958	-1.45	2-11	R15	133.9150	-1.33	3-13	P20	134.2382	-1.32	2-11	P22	134.7115	-1.95	0-7	R15	135.3096	-1.88	3-12	R 2
133.6988	-1.51	4-15	P13	133.9169	-1.59	5-17	P11	134.2382	-1.21	3-13	P26	134.7142	-1.74	0-7	R21	135.3099	-1.60	7-21	R13	133.6988	-1.51	4-15	P13	133.9169	-1.59	5-17	P11	134.2382	-1.21	3-13	P26	134.7142	-1.74	0-7	R21	135.3099	-1.60	7-21	R13
133.6999	-1.31	4-15	R17	133.9179	-2.33	1-9	P 4	134.2447	-1.34	5-17	P19	134.7172	-1.40	1-9	P27	135.3104	-2.01	3-12	R 1	133.7043	-1.07	3-13	Q17	133.9182	-1.70	1-9	Q 6	134.2475	-1.61	1-9	P17	134.7229	-1.53	0-7	Q18	135.3109	-1.78	3-12	R 3
133.7043	-1.07	3-13	Q17	133.9182	-1.70	1-9	Q 6	134.2475	-1.61	1-9	P17	134.7229	-1.53	0-7	Q18	135.3109	-1.78	3-12	R 3	133.7043	-1.07	3-13	Q17	133.9182	-1.70	1-9	Q 6	134.2475	-1.61	1-9	P17	134.7229	-1.53	0-7	Q18	135.3109	-1.78	3-12	R 3
133.7045	-1.46	3-13	P15	133.9185	-1.47	2-11	P17	134.2620	-0.96	5-17	Q21	134.7279	-1.18	5-17	P27	135.3126	-1.42	4-14	R10	133.7045	-1.46	3-13	P15	133.9185	-1.47	2-11	P17	134.2620	-0.96	5-17	Q21	134.7279	-1.18	5-17	P27	135.3126	-1.42	4-14	R10
133.7063	-1.09	4-15	Q15	133.9203	-1.30	2-11	R22	134.2685	-1.20	1-9	Q20	134.7449	-1.92	0-7	P16	135.3133	-2.18	3-12	R 0	133.7063	-1.09	4-15	Q15	133.9203	-1.30	2-11	R22	134.2685	-1.20	1-9	Q20	134.7449	-1.92	0-7	P16	135.3133	-2.18	3-12	R 0
133.7101	-1.99	5-17	R 2	133.9263	-1.73	1-9	R10	134.2685	-1.19	5-17	R23	134.7455	-1.02	1-9	Q30	135.3143	-1.70	3-12	R 4	133.7101	-1.99	5-17	R 2	133.9263	-1.73	1-9	R10	134.2685	-1.19	5-17	R23	134.7455	-1.02	1-9	Q30	135.3143	-1.70	3-12	R 4
133.7102	-2.12	5-17	R 0	133.9295	-1.16	5-17	Q13	134.2719	-1.41	4-15	P25	134.7479	-1.72	0-7	R22	135.3160	-1.80	4-14	P 6	133.7102	-2.12	5-17	R 0	133.9295	-1.16	5-17	Q13	134.2719	-1.41	4-15	P25	134.7479	-1.72	0-7	R22	135.3160	-1.80	4-14	P 6
133.7118	-2.29	5-17	R 0	133.9311	-1.36	5-17	R15	134.2719	-1.41	4-15	P25	134.7479	-1.72	0-7	R22	135.3160	-1.80	4-14	P 6	133.7118	-2.29	5-17	R 0	133.9311	-1.36	5-17	R15	134.2719	-1.41	4-15	P25	134.7479	-1.72	0-7	R22	135.3160	-1.80	4-14	P 6
133.7131	-1.25	2-11	Q13	133.9312	-1.63	1-9	Q 5	134.2777	-0.94	2-11	Q27	134.7748	-1.38	1-9	P28	135.3201	-2.01	3-12	Q 1	133.7131	-1.25	2-11	Q13	133.9312	-1.63	1-9	Q 5	134.2777	-0.94	2-11	Q27	134.7748	-1.38	1-9	P28	135.3201	-2.01	3-12	Q 1
133.7132	-1.89	5-17	R 3	133.9320	-2.21	1-9	P 5	134.2859	-1.58	1-9	P18	134.7800	-1.90	0-7	P17	135.3224	-1.27	4-14	Q 8	133.7132	-1.89	5-17	R 3	133.9320	-2.21	1-9	P 5	134.2859	-1.58	1-9	P18	134.7800	-1.90	0-7	P17	135.3224	-1.27	4-14	Q 8
133.7166	-1.68	2-11	P11	133.9416	-1.70	1-9	R11	134.2923	-1.30	2-11	P25	134.7832	-1.70	0-7	R23	135.3241	-1.78	3-12	Q 2	133.7166	-1.68	2-11	P11	133.9416	-1.70	1-9	R11	134.2923	-1.30	2-11	P25	134.7832	-1.70	0-7	R23	135.3241	-1.78	3-12	Q 2
133.7169	-1.42	2-11	R16	133.9432	-1.18	3-13	R25	134.2968	-1.31	5-17	P20	134.7916	-1.49	0-7	Q20	135.3248	-1.38	7-21	Q12	133.7169	-1.42	2-11	R16	133.9432	-1.18	3-13	R25	134.2968	-1.31	5-17	P20	134.7916	-1.49	0-7	Q20	135.3248	-1.38	7-21	Q12
133.7183	-2.12	5-17	Q 1	133.9448	-1.33	4-15	P19	134.2982	-1.20	3-13	P27	134.8040	-1.01	1-9	Q31	135.3270	-1.58	3-12	R 6	133.7183	-2.12	5-17	Q 1	133.9448	-1.33	4-15	P19	134.2982	-1.20	3-13	P27	134.8040	-1.01	1-9	Q31	135.3270	-1.58	3-12	R 6
133.7184	-1.81	5-17	R 4	133.9454	-1.06	2-11	Q20	134.3076	-1.18	1-9	Q21	134.8168	-1.87	0-7	R18	135.3302	-1.64	3-12	Q 3	133.7184	-1.81	5-17	R 4	133.9454	-1.06	2-11	Q20	134.3076	-1.18	1-9	Q21	134.8168	-1.87	0-7	R18	135.3302	-1.64	3-12	Q 3
133.7233	-1.89	5-17	Q 2	133.9460	-1.58	1-9	Q 8	134.3117	-1.40	1-9	R24	134.8205	-1.68	0-7	R24	135.3315	-1.78	7-21	P11	133.7233	-1.89	5-17	Q 2	133.9460	-1.58	1-9	Q 8	134.3117	-1.40	1-9	R24	134.8205	-1.68	0-7	R24	135.3315	-1.78	7-21	P11
133.7261	-1.75	5-17	R 5	133.9466	-1.19	4-15	R23	134.3144	-0.94	5-17	Q22	134.8286	-1.47	0-7	Q21	135.3319	-1.39	4-14	R11	133.7261	-1.75	5-17	R 5	133.9466	-1.19	4-15	R23	134.3144	-0.94	5-17	Q22	134.8286	-1.47	0-7	Q21	135.3319	-1.39	4-14	R11
133.7267	-1.27	3-13	R20	133.9482	-2.11	1-9	P 6	134.3215	-1.18	5-17	R24	134.8344	-1.36	1-9	P29	135.3338	-2.48	3-12	P 2	133.7267	-1.27	3-13	R20	133.9482	-2.11	1-9	P 6	134.3215	-1.18	5-17	R24	134.8344	-1.36	1-9	P29	135.3338	-2.48	3-12	P 2
133.7298	-1.75	5-17	Q 3	133.9500	-1.55	5-17	P12	134.3262	-1.55	1-9	P19	134.8553	-1.84	0-7	R19	135.3364	-1.53	3-12	R 7	133.7298	-1.75	5-17	Q 3	133.9500	-1.55	5-17	P12	134.3262	-1.55	1-9	P19	134.8553	-1.84	0-7	R19	135.3364	-1.53	3-12	R 7
133.7314	-2.59	5-17	P 2	133.9522	-0.95	4-15	Q21	134.3343	-1.19	4-15	P26	134.8615	-1.67	0-7	R25	135.3377	-1.72	4-14	P 7	133.7314	-2.59	5-17	P 2	133.9522	-0.95	4-15	Q21	134.3343	-1.19	4-15	P26	134.8615	-1.67	0-7	R25	135.3377	-1.72	4-14	P 7
133.7347	-1.67	4-15	P14	133.9531	-1.45	2-11	P18	134.3486	-1.16	1-9	Q22	134.8645	-1.00	1-9	Q32	135.3383	-1.53	3-12	Q 4	133.7347	-1.67	4-15	P14	133.9531	-1.45	2-11	P18	134.3486	-1.16	1-9	Q22	134.8645	-1.00	1-9	Q32	135.3383	-1.53	3-12	Q 4
133.7354	-1.28	4-15	R18	133.9588	-1.66	1-9	R12	134.3488	-1.28	2-11	P22	134.8674	-1.45	0-7	Q22	135.3417	-1.65	0-7	P29	133.7354	-1.28																		

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
135.4611	-1.85	5-16	P	6	135.6822	-1.22	2-10	O	9	135.8960	-.81	4-14	O24	136.1498	-1.43	1-8	R12	136.4821	-1.78	7-20	Q	5			
135.4640	-1.47	5-16	R10		135.6837	-1.12	3-12	R21		135.8965	-1.16	2-10	R20	136.1502	-.73	3-12	Q28	136.4829	-2.78	8-23	R	0			
135.4686	-1.46	4-14	P12		135.6847	-1.72	2-10	P	7	135.9027	-1.35	2-10	P15	136.1560	-1.32	6-18	R19	136.4829	-1.34	1-8	P18				
135.4692	-1.32	5-16	O	8	135.6868	-1.12	4-14	R22		135.9036	-1.32	6-18	Q10	136.1577	-1.29	1-8	O	9	136.4830	-2.60	8-23	R	1		
135.4715	-1.51	0-7	R37		135.6901	-1.44	5-16	P14		135.9051	-1.04	3-12	R26	136.1610	-1.08	3-12	P26	136.4844	-2.34	7-20	P	4			
135.4717	-1.04	4-14	O14		135.6968	-1.25	5-16	R18		135.9059	-1.50	6-18	R12	136.1634	-1.79	1-8	P	7	136.4855	-1.86	7-20	R	7		
135.4732	-1.50	7-21	R17		135.6981	-1.27	4-14	P18		135.9095	-1.30	5-16	P19	136.1673	-1.50	0-7	P41	136.4875	-2.48	8-23	R	2			
135.4745	-1.26	0-7	Q34		135.6999	-.89	4-14	Q20		135.9130	-.93	2-10	Q18	136.1683	-1.40	1-8	R13	136.4896	-2.60	8-23	Q	1			
135.4766	-1.08	3-12	Q12		135.7000	-1.03	5-16	P16		135.9170	-1.74	6-18	P	9	136.1730	-1.47	6-18	P16	136.4917	-1.32	6-18	P22			
135.4780	-1.53	3-12	P10		135.7011	-1.32	2-10	R13		135.9197	-1.15	5-16	R23	136.1739	-.81	2-10	Q24	136.4919	-1.16	1-8	R24				
135.4817	-1.77	5-16	P	8	135.7016	-1.18	2-10	Q10		135.9205	-.92	5-16	Q21	136.1759	-1.25	1-8	O10	136.4963	-2.38	8-23	Q	2			
135.4851	-1.44	5-16	R11		135.7050	-1.16	7-21	Q20		135.9276	-1.14	2-10	R21	136.1832	-1.73	1-8	P	8	136.4964	-2.38	8-23	R	3		
135.4851	-1.25	3-12	R15		135.7051	-1.65	2-10	P	8	135.9309	-1.29	6-18	Q11	136.1869	-1.15	0-7	Q44	136.4966	-.71	2-10	Q30				
135.4900	-1.27	5-16	O	9	135.7054	-.89	3-12	Q19		135.9316	-.79	3-12	Q24	136.1882	-1.19	5-16	P24	136.4972	-.94	1-8	O21				
135.4911	-1.26	7-21	Q16		135.7117	-1.28	3-12	P17		135.9341	-1.47	6-18	R13	136.1887	-1.37	1-8	R14	136.4983	-1.70	7-20	Q	6			
135.4923	-1.22	4-14	R17		135.7176	-1.52	7-21	P19		135.9353	-1.53	0-7	P38	136.1916	-.73	4-14	Q29	136.5014	-2.30	8-23	R	4			
135.5010	-1.63	7-21	P15		135.7210	-1.57	0-7	P35		135.9369	-1.04	4-14	R27	136.1920	-1.04	2-10	R27	136.5018	-2.22	7-20	P	5			
135.5016	-1.42	4-14	P13		135.7227	-1.14	2-10	Q11		135.9399	-1.32	2-10	P16	136.1923	-1.09	4-14	P27	136.5029	-3.08	8-23	P	2			
135.5031	-1.05	3-12	Q13		135.7242	-1.10	3-12	R22		135.9410	-1.16	3-12	P22	136.1929	-1.08	6-18	O18	136.5033	-1.82	7-20	R	8			
135.5041	-1.01	4-14	O15		135.7243	-1.29	2-10	R14		135.9458	-1.69	6-18	P10	136.1960	-1.21	1-8	O11	136.5045	-1.46	0-7	P45				
135.5046	-1.71	5-16	P	8	135.7275	-1.60	2-10	P	9	135.9508	-1.16	4-14	P23	136.1960	-1.18	2-10	P22	136.5075	-2.23	8-23	Q	3			
135.5052	-1.48	3-12	P11		135.7295	-1.41	5-16	P15		135.9509	-.79	4-14	Q25	136.2020	-1.30	6-18	R20	136.5146	-.95	2-10	R33				
135.5084	-1.41	5-16	R12		135.7326	-1.10	4-14	R23		135.9528	-1.44	0-7	R44	136.2048	-1.67	1-8	P	9	136.5162	-2.78	8-23	P	3		
135.5129	-1.23	5-16	Q10		135.7366	-1.23	5-16	R19		135.9540	-1.12	0-7	Q41	136.2110	-.71	3-12	Q29	136.5169	-.96	6-18	Q24				
135.5131	-1.23	3-12	R16		135.7372	-1.47	0-7	R41		135.9573	-1.02	3-12	R27	136.2111	-1.34	1-8	R15	136.5174	-1.64	7-20	Q	7			
135.5215	-1.48	7-21	R18		135.7394	-1.01	5-16	Q17		135.9581	-.91	2-10	Q19	136.2179	-1.17	1-8	O12	136.5187	-2.23	8-23	R	5			
135.5227	-1.61	0-7	P32		135.7403	-1.21	0-7	Q38		135.9602	-1.27	5-16	P20	136.2197	-1.46	6-18	P17	136.5223	-2.12	7-20	P	6			
135.5267	-1.20	4-14	R18		135.7438	-1.27	2-10	R15		135.9605	-1.25	6-18	Q12	136.2224	-1.07	3-12	P27	136.5223	-1.07	2-10	P28				
135.5279	-1.50	0-7	R38		135.7439	-1.25	4-14	P19		135.9647	-1.44	6-18	R14	136.2226	-.79	2-10	Q25	136.5230	-2.12	8-23	Q	4			
135.5298	-1.65	5-16	P	9	135.7455	-.87	4-14	Q21		135.9666	-1.12	2-10	R22	136.2284	-1.62	1-8	P10	136.5238	-1.78	7-20	R	9			
135.5317	-1.02	3-12	Q14		135.7459	-1.10	2-10	Q12		135.9720	-.90	5-16	Q22	136.2352	-1.02	2-10	R28	136.5258	-1.32	1-8	P19				
135.5340	-1.38	5-16	R13		135.7460	-.87	3-12	Q20		135.9733	-1.29	2-10	P17	136.2355	-1.32	1-8	R16	136.5326	-1.20	6-18	R26				
135.5345	-1.44	3-12	P12		135.7517	-1.54	2-10	P10		135.9774	-1.65	6-18	P11	136.2400	-1.06	6-18	Q19	136.5335	-1.14	1-8	R25				
135.5365	-1.39	4-14	P14		135.7534	-1.25	3-12	P18		135.9836	-.77	3-12	Q25	136.2412	-1.16	2-10	P23	136.5340	-2.60	8-23	P	4			
135.5379	-1.25	0-7	Q35		135.7623	-2.17	6-18	R	1	135.9932	-1.22	6-18	Q13	136.2416	-1.14	1-8	O13	136.5346	-2.04	8-23	Q	5			
135.5381	-1.19	5-16	Q11		135.7633	-2.04	6-18	R	2	135.9932	-1.14	3-12	P23	136.2492	-1.49	0-7	P42	136.5362	-2.18	8-23	R	6			
135.5388	-.98	4-14	O16		135.7636	-1.95	6-18	R	3	135.9937	-1.02	4-14	R28	136.2506	-1.29	6-18	R21	136.5378	-.92	1-8	O22				
135.5401	-1.23	7-21	P17		135.7640	-2.35	6-18	O	3	135.9979	-1.42	6-18	R15	136.2515	-1.17	5-16	P25	136.5392	-1.59	7-20	Q	8			
135.5428	-1.20	3-12	R17		135.7660	-1.08	3-12	R23		135.9984	-.89	2-10	Q20	136.2536	-1.57	1-8	P11	136.5453	-2.04	7-20	P	7			
135.5508	-1.60	7-21	P16		135.7705	-1.87	6-18	R	4	136.0065	-1.10	2-10	R23	136.2572	-.72	4-14	Q30	136.5471	-1.74	7-20	R	10			
135.5574	-1.60	5-16	P10		135.7707	-2.17	6-18	O	1	136.0070	-1.14	4-14	P24	136.2585	-1.07	4-14	P28	136.5539	-1.30	6-18	P23				
135.5618	-1.35	5-16	R14		135.7709	-1.38	5-16	P16		136.0079	-.78	4-14	Q26	136.2641	-1.29	1-8	R17	136.5562	-2.48	8-23	P	5			
135.5623	-.99	3-12	Q15		135.7709	-1.07	2-10	Q13		136.0112	-1.01	3-12	R28	136.2672	-1.11	1-8	O14	136.5570	-2.12	8-23	R	7			
135.5639	-1.18	4-14	R19		135.7711	-1.24	2-10	R16		136.0114	-1.61	6-18	P12	136.2691	-1.42	6-18	P18	136.5580	-.70	2-10	Q31				
135.5658	-1.40	3-12	P13		135.7757	-1.95	6-18	Q	2	136.0139	-1.52	0-7	P39	136.2693	-1.14	0-7	Q45	136.5586	-1.96	8-23	Q	6			
135.5659	-1.15	5-16	Q12		135.7780	-1.50	2-10	P11		136.0161	-1.25	5-16	P21	136.2735	-.77	2-10	Q26	136.5625	-1.29	1-8	P20				
135.5729	-1.46	7-21	R19		135.7786	-1.21	5-16	R20		136.0147	-1.27	2-10	P18	136.2808	-1.53	1-8	P12	136.5637	-1.54	7-20	Q	9			
135.5736	-1.35	4-14	P15		135.7790	-1.80	6-18	R	5	136.0257	-.88	5-16	Q23	136.2842	-1.05	3-12	P28	136.5711	-1.97	7-20	P	8			
135.5750	-1.18	3-12	R18		135.7792	-1.50	7-21	P20		136.0280	-1.18	6-18	Q14	136.2861	-1.01	2-10	R29	136.5732	-1.70	7-20	R11				
135.5757	-.96	4-14	O17		135.7806	-1.09	4-14	R24		136.0295	-1.43	0-7	R45	136.2866	-1.27	1-8	R18	136.5745	-2.38	8-23	P	6			
135.5867	-1.90	2-10	R	2	135.7811	-.98	5-16	Q18		136.0338	-1.39	6-18	R16	136.2905	-1.03	6-18	Q20	136.5782	-1.12	1-8	R26				
135.5870	-1.55	5-16	P11		135.7834	-1.80	6-18	O	3	136.0338	-1.17	0-7	Q42	136.2943	-1.14	2-10	P24	136.5806	-.94	6-18	Q25				
135.5873	-1.80	2-10	R	3	135.7841	-2.65	6-18	P	2	136.0384	-.76	3-12	Q26	136.2949	-1.08	1-8	O15	136.5807	-.90	1-8	O23				
135.5877	-2.02	2-10	R	1	135.7896	-.85	3-12	Q21		136.0397	-.87	2-10	Q21	136.3011	-1.27	6-18	R22	136.5807	-2.08	8-23	R	3			
135.5878	-1.59	0-7	P33		135.7898	-1.74	6-18	R	6	136.0476	-1.12	3-12	P24	136.3097	-1.49	1-8	P13	136.5827	-1.90	8-23	Q	7			
135.5899	-1.72	2-10	R	4	135.7904	-1.69	6-18	O	4	136.0478	-1.57	6-18	P13	136.3171	-1.25	1-8	R19	136.5902	-1.05	2-10	P29				
135.5909	-2.20	2-10	R	0	135.7920	-1.22	4-14	P20		136.0484	-1.08														

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ					
136.7565	-2.18	0	6	R 2	137.0828	-1.61	0	6	P 16	137.3568	-1.04	4	-13	O 13	137.5303	-1.30	4	-13	P 16	-137.7994	-0.95	0	6	Q 34
136.7583	-2.01	0	6	R 4	137.0832	-1.11	1	-8	P 30	137.3571	-1.47	4	-13	P 11	137.5318	-1.18	3	-11	R 15	137.8003	-2.37	2	-9	P 2
136.7585	-2.31	0	6	R 1	137.0918	-1.19	0	6	P 19	137.3604	-1.80	3	-11	R 2	137.5345	-1.87	6	-17	P 8	137.8006	-1.18	3	-11	P 18
136.7599	-1.88	0	6	R 6	137.0961	-1.54	7	-20	P 20	137.3613	-1.71	3	-11	R 3	137.5428	-1.57	6	-17	R 12	137.8019	-1.01	3	-11	R 23
136.7614	-1.94	0	6	R 5	137.1057	-0.75	1	-8	Q 33	137.3615	-1.93	3	-11	R 1	137.5443	-1.40	6	-17	O 10	137.8030	-1.42	2	-9	Q 4
136.7622	-2.48	0	6	R 0	137.1071	-0.99	1	-8	R 36	137.3642	-1.63	3	-11	R 4	137.5480	-1.11	4	-13	R 21	137.8035	-0.78	4	-13	Q 24
-136.7641	-1.07	1	-8	R 30	137.1102	-1.39	0	6	R 23	137.3645	-2.11	3	-11	R 0	137.5504	-1.23	5	-15	R 20	137.8048	-1.37	2	-9	R 8
-136.7687	-1.33	7	-20	O 15	137.1193	-1.58	0	6	P 17	137.3676	-1.44	0	6	P 23	137.5519	-0.98	3	-11	O 13	137.8096	-1.15	4	-13	P 22
-136.7692	-0.83	1	-8	Q 27	137.1267	-1.17	0	6	Q 20	137.3690	-1.34	5	-15	R 15	137.5530	-1.15	3	-11	R 16	137.8113	-2.07	2	-9	P 3
136.7694	-2.31	0	6	Q 1	137.1355	-1.85	8	-23	P 18	137.3693	-1.56	3	-11	R 5	137.5534	-1.24	0	6	R 33	137.8124	-1.54	6	-17	P 16
136.7713	-1.83	0	6	R 7	137.1466	-1.37	0	6	R 24	137.3700	-1.22	4	-13	R 16	137.5542	-1.40	5	-15	P 16	137.8126	-1.33	2	-9	Q 5
136.7729	-2.09	0	6	Q 2	137.1491	-1.09	1	-8	P 31	137.3703	-0.70	1	-8	Q 37	137.5573	-1.41	3	-11	P 11	137.8164	-1.33	2	-9	R 9
-136.7774	-1.43	0	7	P 48	137.1553	-1.87	4	-13	R 2	137.3716	-1.93	3	-11	Q 1	137.5590	-1.01	5	-15	P 18	137.8238	-1.26	2	-9	Q 6
136.7781	-1.94	0	6	Q 3	137.1558	-2.00	4	-13	R 1	137.3723	-1.06	0	6	Q 26	137.5610	-1.82	6	-17	P 9	137.8243	-1.90	2	-9	P 4
136.7805	-1.78	0	6	R 8	137.1568	-1.55	0	6	P 18	137.3729	-1.57	5	-15	P 11	137.5650	-1.02	1	-8	P 37	137.8268	-1.15	6	-17	O 18
-136.7819	-1.01	2	-10	P 32	137.1568	-1.78	4	-13	R 3	137.3756	-1.71	3	-11	Q 2	137.5674	-1.37	0	6	P 27	137.8286	-1.38	6	-17	R 20
136.7833	-1.70	7	-20	P 14	137.1582	-1.52	7	-20	P 21	137.3762	-1.50	3	-11	R 6	137.5677	-0.88	4	-13	O 19	137.8301	-1.29	2	-9	R 10
136.7838	-2.78	0	6	P 2	137.1586	-2.17	4	-13	R 0	137.3780	-1.14	5	-15	O 13	137.5694	-1.00	0	6	Q 30	137.8322	-0.77	3	-11	O 21
136.7850	-1.83	0	6	Q 4	137.1605	-1.70	4	-13	R 4	137.3816	-1.56	3	-11	Q 3	137.5701	-1.54	6	-17	R 13	137.8371	-1.20	2	-9	Q 7
136.7878	-1.54	7	-20	R 17	137.1633	-1.15	0	6	Q 21	137.3852	-1.45	3	-11	R 7	137.5714	-1.27	4	-13	P 17	137.8389	-1.77	2	-9	P 5
136.7913	-1.74	0	6	R 9	137.1656	-2.10	5	-15	R 1	137.3857	-2.41	3	-11	P 2	137.5715	-1.36	6	-17	O 11	137.8431	-1.18	0	6	R 38
136.7926	-2.04	8	-23	P 12	137.1656	-2.00	4	-13	Q 1	137.3863	-1.01	4	-13	O 14	137.5800	-0.94	3	-11	O 14	137.8453	-1.15	3	-11	P 19
136.7942	-1.74	0	6	Q 5	137.1658	-1.97	5	-15	R 2	137.3875	-1.43	4	-13	P 12	137.5835	-1.13	3	-11	R 17	137.8456	-0.99	3	-11	R 24
136.7945	-2.48	0	6	P 3	137.1662	-1.63	4	-13	R 5	137.3896	-1.45	3	-11	Q 4	137.5848	-1.37	3	-11	P 12	137.8456	-1.26	2	-9	R 11
136.7960	-1.19	1	-8	P 25	137.1668	-0.73	1	-8	Q 34	137.3960	-1.41	3	-11	R 8	137.5895	-1.76	6	-17	O 10	137.8487	-1.25	5	-15	P 22
136.7989	-1.65	8	-23	Q 13	137.1677	-2.27	5	-15	R 0	137.3968	-2.11	3	-11	P 3	137.5907	-1.09	4	-13	R 22	137.8522	-1.14	2	-9	Q 8
136.8001	-1.87	8	-23	R 14	137.1677	-1.87	5	-15	R 3	137.3995	-1.37	3	-11	Q 5	137.5935	-1.21	5	-15	R 21	137.8535	-0.88	5	-15	Q 24
136.8041	-1.71	0	6	R 10	137.1697	-1.78	4	-13	Q 2	137.4004	-1.32	5	-15	R 16	137.5975	-1.37	5	-15	P 17	137.8556	-1.67	2	-9	P 6
136.8045	-1.67	0	6	Q 6	137.1713	-0.98	1	-8	R 37	137.4014	-1.20	4	-13	R 17	137.5991	-1.52	6	-17	R 14	137.8574	-1.29	0	6	P 32
136.8068	-2.31	0	6	P 4	137.1727	-1.80	5	-15	R 4	137.4015	-1.28	0	6	R 30	137.6023	-0.98	5	-15	O 19	137.8576	-0.77	4	-13	Q 25
136.8100	-1.64	0	6	R 12	137.1742	-1.57	4	-13	R 6	137.4056	-1.53	5	-15	P 12	137.6026	-1.32	6	-17	O 12	137.8585	-1.52	6	-17	P 17
136.8103	-1.61	0	6	Q 7	137.1746	-2.10	5	-15	Q 1	137.4056	-2.12	6	-17	R 2	137.6077	-1.23	0	6	R 34	137.8612	-0.93	0	6	Q 35
136.8126	-1.30	7	-20	O 16	137.1762	-1.63	4	-13	Q 3	137.4058	-2.24	6	-17	R 1	137.6105	-0.86	4	-13	Q 20	137.8631	-1.23	2	-9	R 12
-136.8131	-0.82	1	-8	Q 28	137.1794	-1.87	5	-15	Q 2	137.4076	-2.42	6	-17	R 0	137.6106	-0.92	3	-11	O 15	137.8631	-1.13	4	-13	P 23
-136.8162	-1.05	1	-8	R 31	137.1795	-2.47	4	-13	P 2	137.4087	-2.02	6	-17	R 3	137.6147	-1.24	4	-13	P 18	137.8693	-1.09	2	-9	Q 9
-136.8192	-1.67	0	6	R 11	137.1805	-1.73	5	-15	R 5	137.4090	-1.37	3	-11	R 9	137.6150	-1.11	3	-11	R 18	137.8736	-1.13	6	-17	O 19
136.8210	-2.18	0	6	P 5	137.1841	-1.52	4	-13	R 7	137.4098	-1.11	5	-15	O 14	137.6173	-1.33	3	-11	P 13	137.8740	-1.59	2	-9	P 7
136.8284	-1.67	7	-20	P 15	137.1845	-1.35	0	6	R 25	137.4098	-1.93	3	-11	P 4	137.6199	-1.72	6	-17	O 11	137.8755	-1.36	6	-17	R 21
136.8287	-1.23	6	-18	P 27	137.1847	-1.52	4	-13	Q 4	137.4116	-1.29	3	-11	Q 6	137.6219	-1.35	0	6	P 28	137.8768	-0.75	3	-11	Q 22
136.8288	-1.55	0	6	Q 8	137.1865	-1.73	5	-15	Q 3	137.4139	-1.94	6	-17	R 4	137.6250	-0.99	0	6	Q 31	137.8825	-1.20	2	-9	R 13
136.8333	-1.52	7	-20	R 18	137.1866	-1.67	5	-15	R 6	137.4144	-2.24	6	-17	Q 1	137.6313	-1.49	6	-17	R 15	137.8881	-1.05	2	-9	O 10
136.8361	-1.61	0	6	R 13	137.1884	-2.57	5	-15	P 2	137.4150	-1.42	0	6	P 24	137.6315	-1.29	6	-17	O 13	137.8910	-0.98	3	-11	R 25
136.8374	-2.09	0	6	P 6	137.1906	-2.17	4	-13	P 3	137.4184	-0.98	4	-13	O 15	137.6354	-1.08	4	-13	R 23	137.8911	-1.13	3	-11	P 20
136.8406	-2.00	8	-23	Q 13	137.1953	-1.62	5	-15	Q 4	137.4186	-1.04	1	-8	P 35	137.6391	-1.19	5	-15	R 22	137.8945	-1.53	2	-9	P 8
136.8455	-1.51	0	6	Q 9	137.1954	-1.43	4	-13	Q 5	137.4196	-2.02	6	-17	Q 2	137.6415	-1.00	1	-8	P 38	137.9037	-1.17	2	-9	R 14
136.8474	-1.62	8	-23	Q 14	137.1956	-1.53	0	6	P 19	137.4196	-1.04	0	6	Q 27	137.6428	-1.34	5	-15	P 18	137.9058	-1.23	5	-15	P 23
136.8487	-1.85	8	-23	R 15	137.1964	-1.47	4	-13	R 8	137.4199	-1.40	4	-13	P 13	137.6449	-0.89	3	-11	O 16	137.9062	-1.17	0	6	R 39
-136.8511	-0.99	2	-10	P 33	137.1982	-1.62	5	-15	R 7	137.4217	-1.87	6	-17	R 5	137.6479	-0.96	5	-15	Q 20	137.9067	-1.49	6	-17	P 18
136.8534	-1.17	1	-8	P 26	137.2001	-2.27	5	-15	P 3	137.4223	-1.33	3	-11	R 10	137.6484	-1.08	3	-11	R 19	137.9090	-1.01	2	-9	Q 11
136.8549	-2.01	0	6	P 7	137.2015	-1.13	0	6	Q 22	137.4249	-1.80	3	-11	P 5	137.6510	-1.29	3	-11	P 14	137.9107	-0.87	5	-15	Q 25
136.8592	-1.27	7	-20	O 17	137.2041	-2.00	4	-13	P 4	137.4256	-1.23	3	-11	Q 7	137.6540	-1.68	6	-17	P 12	137.9121	-0.75	4	-13	Q 26
136.8595	-1.58	0	6	R 14	137.2067	-1.53	5	-15	Q 5	137.4262	-1.87	6	-17	Q 3	137.6555	-0.84	4	-13	Q 21	137.9168	-1.47	2	-9	P 9
136.8640	-1.46	0	6	Q 10	137.2079	-1.82	8	-23	P 19	137.4282	-2.72	6	-17	P 2	137.6601	-1.22	4	-13	P 19	137.9200	-1.11	4	-13	P 24
136.8678	-1.94	0	6	P 8	137.2081	-1.36	4	-13	Q 6	137.4315	-1.82	6	-17	R 6	137.6637	-1.22	0	6	R 35	137.9209	-1.28	0	6	P 33
-136.8701	-0.80	1	-8	Q 29	137.2106	-1.43	4	-13	R 9	137.4344	-1.29	5	-15	R 17	137.6656	-1.46	6	-17	R 16	137.9219	-1.11	6	-17	O 20
-136.8701	-1.04	1	-8	R 32	137.2116	-1.08	1	-8	P 32	137.4349	-1.17	4	-13	R 18	137.6659	-1.26	6	-17	O 14	137.9234	-0.73			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
-138.1224	-1.24	0	-6	P36	138.6125	-1.08	1	-7	R18	139.0800	-2.23	5	-14	Q 1	139.2592	-1.56	0	-5	R 7	139.4298	-1.51	4	-12	P12
138.1252	-1.40	6	-17	P22	138.6168	-1.34	1	-7	P12	139.0817	-1.87	5	-14	R 5	139.2596	-2.07	8	-21	R19	139.4331	-1.52	0	-5	P11
-138.1260	-.89	0	-6	Q39	-138.6186	-.84	2	-9	R32	139.0824	-2.02	1	-7	P24	139.2600	-2.04	0	-5	Q 1	139.4335	-1.28	4	-12	R17
138.1263	-1.20	2	-9	P16	138.6257	-.89	1	-7	Q15	139.0848	-2.01	5	-14	Q 2	139.2618	-1.70	6	-16	Q 8	139.4357	-1.06	0	-5	Q14
138.1304	-.67	3	-11	Q27	138.6411	-1.06	1	-7	R19	139.0851	-1.93	8	-21	Q14	139.2628	-1.95	4	-12	P 5	139.4381	-1.22	0	-5	R18
138.1428	-.99	2	-9	R22	138.6456	-1.31	1	-7	P13	139.0899	-1.81	5	-14	R 6	139.2632	-1.82	0	-5	Q 2	139.4419	-1.37	5	-14	R20
138.1442	-1.03	6	-17	Q24	138.6462	-.96	2	-9	P27	139.0907	-.64	1	-7	Q27	139.2643	-1.38	4	-12	Q 7	139.4528	-1.85	6	-16	P13
138.1444	-.78	2	-9	Q19	-138.6479	-1.08	0	-6	R49	139.0914	-1.87	5	-14	Q 3	139.2645	-1.47	4	-12	R10	139.4551	-1.65	6	-16	R17
138.1494	-1.03	3	-11	P25	138.6544	-.87	1	-7	Q16	-139.0932	-1.04	0	-6	R54	139.2656	-1.48	5	-14	R15	139.4564	-1.06	4	-12	Q15
138.1638	-1.17	2	-9	P17	-138.6586	-1.16	0	-6	P43	139.0942	-2.71	5	-14	P 2	139.2671	-1.52	0	-5	R 8	139.4572	-1.14	5	-14	Q18
138.1677	-1.04	4	-13	P28	138.6629	-.82	0	-6	Q46	139.0949	-2.31	8	-21	P13	139.2682	-1.67	0	-5	Q 3	139.4577	-1.54	5	-14	P16
-138.1808	-1.13	0	-6	R43	-138.6703	-.59	2	-9	Q30	-139.0986	-1.11	0	-6	P48	139.2749	-2.52	0	-5	P 2	139.4593	-1.48	0	-5	P12
138.1814	-.97	2	-9	R23	138.6715	-1.04	1	-7	R20	139.1000	-1.76	5	-14	Q 4	139.2750	-1.56	0	-5	Q 4	139.4607	-1.44	6	-16	Q15
138.1823	-.76	2	-9	Q20	138.6762	-1.27	1	-7	P14	139.1005	-1.76	5	-14	R 7	139.2755	-2.15	6	-16	P 7	139.4610	-1.03	0	-5	Q15
138.1861	-1.38	6	-17	P23	138.6849	-.84	1	-7	Q17	-139.1028	-.85	2	-9	P34	139.2764	-1.48	0	-5	R 9	139.4621	-1.47	4	-12	P13
-138.1932	-1.23	0	-6	P37	138.7039	-1.02	1	-7	R21	-139.1051	-.77	0	-6	Q51	139.2765	-1.81	6	-16	R11	139.4646	-1.20	0	-5	R19
138.1970	-.88	0	-6	Q40	138.7054	-.94	2	-9	P28	139.1061	-2.41	5	-14	P 3	139.2778	-1.71	5	-14	P11	139.4664	-1.25	4	-12	R18
138.2033	-1.14	2	-9	P18	138.7085	-1.24	1	-7	P15	139.1103	-2.14	8	-21	R16	139.2794	-1.28	5	-14	Q13	-139.4747	-.79	1	-7	R37
138.2041	-1.01	6	-17	Q25	138.7172	-.82	1	-7	Q18	139.1111	-1.67	5	-14	Q 5	139.2805	-1.86	4	-12	P 6	139.4759	-2.11	8	-21	P20
138.2074	-1.14	3	-11	P26	-138.7302	-.57	2	-9	Q31	139.1134	-1.71	5	-14	R 8	139.2810	-1.82	8	-21	Q18	-139.4767	-.91	1	-7	P31
138.2220	-.96	2	-9	R24	-138.7329	-1.07	0	-6	R50	139.1198	-2.23	5	-14	P 4	139.2811	-1.32	4	-12	Q 8	139.4846	-1.35	5	-14	R21
138.2223	-.74	2	-9	Q21	138.7381	-1.00	1	-7	R22	139.1243	-1.60	5	-14	Q 6	139.2823	-1.44	4	-12	R11	-139.4853	-.55	1	-7	G34
138.2447	-1.12	2	-9	P19	138.7428	-1.21	1	-7	P16	139.1285	-1.67	5	-14	R 9	139.2831	-1.65	6	-16	Q 9	-139.4864	-1.08	0	-6	P52
138.2493	-1.36	6	-17	Q24	-138.7430	-1.15	0	-6	P44	139.1296	-1.90	8	-21	Q15	139.2835	-1.48	0	-5	Q 5	139.4871	-1.44	0	-5	P13
-138.2542	-1.12	0	-6	R44	-138.7473	-.81	0	-6	Q47	-139.1299	-.87	1	-7	R31	139.2856	-2.22	0	-5	P 3	139.4882	-1.00	0	-5	Q16
138.2642	-.72	2	-9	Q22	138.7514	-.79	1	-7	Q19	139.1331	-1.00	1	-7	P25	139.2876	-1.44	0	-5	R10	139.4898	-1.04	4	-12	G16
138.2644	-.94	2	-9	R25	138.7666	-.93	2	-9	P29	139.1355	-2.11	5	-14	P 5	-139.2891	-1.09	0	-6	P50	139.4908	-1.81	6	-16	P14
-138.2660	-1.22	0	-6	P38	138.7712	-2.91	8	-21	R 1	139.1394	-1.54	5	-14	Q 7	139.2936	-1.40	0	-5	Q 6	139.4928	-1.18	0	-5	R20
138.2672	-.99	3	-11	P27	138.7719	-3.09	8	-21	R 2	139.1402	-2.28	8	-21	P14	139.2942	-2.19	8	-21	P17	139.4931	-1.63	6	-16	R18
138.2685	-.99	6	-17	Q26	138.7731	-2.79	8	-21	R 3	139.1422	-.63	1	-7	Q28	-139.2944	-.83	1	-7	R34	-139.4957	-.74	0	-6	Q55
-138.2700	-.87	0	-6	Q41	138.7740	-.99	1	-7	R23	139.1457	-1.63	5	-14	R10	-139.2947	-.76	0	-6	Q53	139.4965	-1.44	4	-12	P14
138.2881	-1.09	2	-9	P20	138.7780	-2.69	8	-21	R 3	139.1537	-2.01	5	-14	P 6	139.2963	-1.46	5	-14	R16	139.4988	-1.41	6	-16	Q16
138.3082	-.70	2	-9	Q23	138.7787	-2.91	8	-21	Q 1	139.1569	-2.11	8	-21	R17	139.2963	-.95	1	-7	P28	139.4995	-1.12	5	-14	Q19
138.3090	-.93	2	-9	R26	138.7788	-1.18	1	-7	P17	139.1573	-1.48	5	-14	Q 8	139.2981	-2.04	0	-5	P 4	139.5005	-1.51	5	-14	P17
138.3158	-1.34	6	-17	P25	138.7849	-2.69	8	-21	Q 2	139.1654	-1.60	5	-14	R11	139.2992	-2.08	6	-16	P 8	139.5007	-1.23	4	-12	R19
138.3295	-.98	3	-11	P28	138.7858	-2.61	8	-21	R 4	139.1694	-2.45	6	-16	R 1	139.2998	-1.28	4	-12	Q 9	139.5165	-1.40	0	-5	P14
-138.3296	-1.11	0	-6	R45	138.7874	-.77	1	-7	Q20	139.1697	-2.33	6	-16	R 2	139.3000	-1.78	4	-12	P 7	139.5170	-.97	0	-5	G17
138.3334	-1.07	2	-9	P21	-138.7921	-.56	2	-9	Q32	139.1718	-2.63	6	-16	Q 0	139.3003	-1.78	6	-16	R12	139.5227	-1.16	0	-5	R21
-138.3408	-1.20	0	-6	P39	138.7925	-3.39	8	-21	P 2	139.1720	-2.23	6	-16	R 3	139.3005	-1.40	0	-5	R11	139.5230	-2.79	7	-18	R 1
-138.3446	-.86	0	-6	Q42	138.7937	-2.55	8	-21	Q 3	139.1740	-1.93	5	-14	P 7	139.3023	-1.41	4	-12	R12	139.5239	-2.67	7	-18	R 2
138.3540	-.68	2	-9	Q24	138.7965	-2.55	8	-21	R 5	139.1767	-2.15	6	-16	Q 4	-139.3047	-.59	1	-7	Q31	139.5240	-2.57	7	-18	R 3
138.3556	-.91	2	-9	R27	138.8055	-2.44	8	-21	Q 4	139.1769	-1.87	8	-21	Q16	139.3054	-1.34	0	-5	Q 7	139.5249	-2.97	7	-18	R 0
138.3806	-1.05	2	-9	P22	138.8055	-3.09	8	-21	P 3	139.1773	-1.43	5	-14	Q 9	139.3066	-1.61	6	-16	Q10	139.5255	-1.01	4	-12	Q17
138.3841	-1.32	6	-17	P26	138.8102	-2.49	8	-21	R 6	139.1788	-2.45	6	-16	Q 1	139.3091	-1.67	5	-14	P12	139.5279	-1.33	5	-14	R22
138.3999	-1.69	1	-7	R 3	138.8119	-.97	1	-7	R24	-139.1812	-.85	1	-7	R32	139.3105	-1.25	5	-14	Q14	139.5311	-2.49	7	-18	R 4
138.4001	-1.78	1	-7	R 2	138.8167	-1.15	1	-7	P18	139.1835	-2.23	6	-16	Q 2	139.3123	-1.92	0	-5	P 12	139.5311	-1.78	6	-16	P15
138.4017	-1.61	1	-7	R 4	138.8201	-2.35	8	-21	Q 5	139.1839	-2.08	6	-16	R 5	139.3150	-1.37	0	-5	R12	-139.5319	-.78	1	-7	R38
138.4018	-.66	2	-9	Q25	-138.8207	-1.06	0	-6	R51	139.1858	-.99	1	-7	P26	139.3189	-1.29	0	-5	Q 8	139.5319	-2.79	7	-18	Q 1
138.4020	-1.91	1	-7	R 1	138.8212	-2.91	8	-21	P 4	-139.1865	-1.03	0	-6	R55	139.3206	-1.23	4	-12	Q10	139.5330	-1.41	4	-12	P15
138.4034	-.90	2	-9	R28	138.8251	-.75	1	-7	Q21	139.1870	-1.57	5	-14	R12	139.3218	-1.71	4	-12	P 8	139.5338	-1.61	6	-16	R19
138.4050	-1.54	1	-7	R 5	138.8267	-2.44	8	-21	R 7	139.1885	-2.25	8	-21	P15	139.3244	-1.38	4	-12	R13	139.5370	-2.57	7	-18	Q 2
-138.4055	-1.10	0	-6	R46	138.8289	-.91	2	-9	P30	139.1908	-2.08	6	-16	Q 3	139.3252	-2.03	6	-16	P 9	139.5382	-1.21	4	-12	R20
138.4057	-2.08	1	-7	R 0	-138.8290	-1.14	0	-6	P45	-139.1925	-1.10	0	-6	P49	139.3265	-1.75	6	-16	R13	139.5393	-1.38	6	-16	Q17
138.4102	-1.48	1	-7	R 6	-138.8337	-.80	0	-6	Q48	139.1929	-2.93	6	-16	P 2	139.3282	-1.82	0	-5	P 6	139.5397	-2.42	7	-18	R 5
138.4130	-1.91	1	-7	Q 1	138.8377	-2.28	8	-21	Q 6	139.1935	-2.03	6	-16	R 6	139.3291	-1.43	5	-14	R17	-139.5408	-.89	1	-7	P32
138.4166	-1.69	1	-7	Q 2	138.8398	-2.79	8	-21	P 5	139.1965	-1.87	5	-14	P 8	139.3312	-1.34	0	-5	R13	139.5415	-1.83	3	-10	R 3
-138.4169	-1.19	0	-6	P40	138.8461	-2.39	8	-21	R 8	139.1970	-1.95	4	-12	R 2	139.3325	-1.57	6	-16	Q11	139.5419	-1.73	3	-10	

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
139.6031	-0.96	4-12	Q19	139.8034	-1.11	4-12	R26	140.1056	-0.72	0-5	Q31	140.2696	-1.38	2-8	P10	140.5093	-3.51	9-23	R14	
139.6038	-0.77	1-7	R39	139.8055	-1.37	5-14	P23	140.1061	-2.04	2-8	R 0	140.2706	-1.07	3-10	P24	140.5256	-0.63	0-5	Q38	
139.6063	-1.26	3-10	Q 7	139.8099	-0.81	0-5	Q25	140.1062	-1.49	0-8	R 5	140.2716	-1.08	2-8	R16	140.5264	-2.45	8-20	P15	
139.6075	-1.83	3-10	P 5	139.8135	-0.74	1-7	R42	140.1107	-1.09	0-5	P28	140.2731	-2.90	8-20	R 9	140.5315	-1.11	2-8	R18	
139.6077	-0.88	1-7	P33	139.8143	-1.20	0-5	P22	140.1118	-1.43	2-8	R 6	140.2731	-3.25	8-20	P 6	140.5321	-0.92	2-8	R24	
139.6082	-2.57	7-18	P 6	139.8170	-0.84	1-7	P36	140.1135	-1.86	2-8	R 0	140.2740	-0.68	0-5	Q34	140.5341	-9.20	0-5	P35	
139.6122	-1.35	4-12	P17	139.8184	-2.19	7-18	P13	140.1144	-0.79	1-7	P40	140.2761	-1.95	7-18	P22	140.5364	-0.63	3-10	Q31	
139.6140	-0.90	0-5	Q20	139.8195	-0.49	1-7	Q39	140.1166	-0.93	5-14	Q30	140.2771	-4.01	9-23	P 6	140.5425	-0.70	2-8	R21	
139.6152	-1.31	0-5	P17	139.8201	-0.91	3-10	Q16	140.1171	-1.64	2-8	R 0	2	140.2812	-0.91	2-8	R13	140.5429	-2.83	8-20	P14
139.6153	-0.52	1-7	Q36	139.8213	-1.11	3-10	R19	140.1193	-1.38	2-8	R 7	140.2826	-3.71	9-23	R 8	140.5444	-2.67	8-20	R17	
139.6175	-1.32	3-10	R11	139.8238	-1.63	6-16	P21	140.1209	-1.13	3-10	P21	140.2837	-1.04	0-5	P31	140.5469	-0.74	1-7	P45	
139.6186	-1.17	4-12	R22	139.8264	-1.03	0-5	R29	140.1209	-1.63	7-18	Q21	140.2853	-3.53	9-23	Q 7	140.5489	-1.87	7-18	P26	
139.6189	-1.72	6-16	P17	139.8329	-1.32	3-10	P14	140.1214	-0.78	4-12	Q29	140.2854	-0.77	1-7	P42	140.5530	-3.63	9-23	P13	
139.6194	-2.19	7-18	R10	139.8334	-1.26	6-16	Q24	140.1220	-1.28	5-14	P28	140.2899	-2.71	8-20	Q 8	140.5592	-3.25	9-23	P14	
139.6203	-2.04	7-18	Q 8	139.8350	-0.86	4-12	Q24	140.1225	-0.70	1-7	R46	140.2956	-1.34	2-8	R11	140.5596	-3.48	9-23	R15	
139.6221	-1.20	3-10	Q 8	139.8350	-1.76	7-18	Q15	140.1227	-1.49	2-8	R 3	140.2969	-3.17	8-20	P 7	140.5601	-0.87	0-5	R42	
139.6227	-1.57	6-16	R21	139.8396	-1.99	7-18	R17	140.1244	-0.95	0-5	R35	140.2970	-2.87	8-20	R10	140.5717	-2.43	8-20	Q16	
139.6230	-1.10	0-5	R24	139.8420	-1.23	5-14	R28	140.1283	-2.34	2-8	R 2	140.2976	-0.43	1-7	Q45	140.5745	-0.91	2-8	R25	
139.6239	-1.30	5-14	R24	139.8482	-1.23	4-12	P22	140.1287	-1.34	2-8	R 8	140.2994	-0.69	3-10	Q27	140.5747	-0.99	3-10	P29	
139.6246	-1.73	3-10	P 6	139.8544	-0.79	0-5	Q26	140.1302	-1.38	2-8	R 4	140.2995	-1.58	7-18	Q24	140.5756	-1.08	2-8	R19	
139.6273	-1.34	6-16	Q19	139.8546	-0.89	3-10	Q17	140.1303	-1.87	7-18	R23	140.3007	-1.06	2-8	R17	140.5840	-0.68	2-8	Q22	
139.6308	-2.49	7-18	P 7	139.8554	-1.09	3-10	R20	140.1309	-0.45	1-7	Q43	140.3019	-0.92	0-5	R38	140.5895	-2.80	8-20	P15	
139.6360	-1.29	3-10	R12	139.8569	-1.09	4-12	R27	140.1373	-1.14	4-12	P27	140.3073	-0.87	2-8	R14	140.5912	-2.64	8-20	R18	
139.6398	-1.15	3-10	Q 9	139.8591	-2.15	7-18	P14	140.1394	-2.04	2-8	P 3	140.3089	-3.93	9-23	P 7	140.5938	-0.62	0-5	Q39	
139.6413	-1.06	5-14	Q22	139.8593	-1.18	0-5	P23	140.1395	-1.30	2-8	R 0	5	140.3090	-0.93	3-10	R30	140.5987	-0.62	3-10	Q32
139.6421	-1.43	5-14	P20	139.8608	-0.99	5-14	Q26	140.1399	-1.30	2-8	R 9	140.3113	-3.67	9-23	R 9	140.6050	-0.97	0-5	P46	
139.6429	-1.99	7-18	Q 9	139.8633	-1.35	5-14	P24	140.1431	-0.74	3-10	Q24	140.3125	-1.82	7-18	R26	140.6065	-3.60	9-23	P14	
139.6429	-2.15	7-18	R11	139.8682	-1.29	3-10	P15	140.1506	-1.22	2-8	Q 6	140.3137	-3.48	9-23	Q 8	140.6132	-1.06	2-8	P20	
139.6436	-1.65	3-10	P 7	139.8718	-1.01	0-5	R30	140.1523	-1.86	2-8	R 4	140.3152	-2.67	8-20	Q 9	140.6137	-3.22	9-23	Q15	
139.6447	-0.94	4-12	Q20	139.8757	-0.86	3-10	Q18	140.1529	-1.25	2-8	R10	140.3234	-1.04	2-8	R18	140.6144	-3.45	9-23	R16	
139.6496	-0.88	0-5	P21	139.8761	-1.75	7-18	P16	140.1555	-1.99	7-18	P20	140.3236	-1.30	2-8	R12	140.6197	-2.40	8-20	Q17	
139.6515	-1.29	0-5	Q18	139.8810	-1.97	7-18	R18	140.1569	-0.97	3-10	R27	140.3236	-3.10	8-20	P 8	140.6200	-0.89	2-8	R26	
139.6552	-1.32	4-12	P18	139.8811	-1.61	6-16	P22	140.1611	-0.70	2-8	Q 5	140.3237	-2.83	8-20	R11	140.6235	-1.85	7-18	P27	
139.6558	-2.42	7-18	P 8	139.8864	-0.83	1-7	P37	140.1637	-1.16	2-8	R 0	7	140.3260	-1.05	3-10	P25	140.6278	-0.66	2-8	R23
139.6566	-1.26	3-10	R13	139.8870	-1.07	3-10	R21	140.1666	-1.07	0-5	P29	140.3355	-0.67	0-5	Q35	140.6303	-0.86	0-5	R43	
139.6596	-1.11	3-10	Q10	139.8883	-0.85	4-12	Q25	140.1673	-1.73	2-8	R 5	140.3357	-0.85	2-8	R15	140.6333	-0.97	3-10	P30	
139.6600	-1.09	0-5	R25	139.8887	-0.73	1-7	R43	140.1679	-1.22	2-8	R11	140.3387	-1.09	4-12	P30	140.6387	-0.73	1-7	P46	
139.6613	-1.16	4-12	R23	139.8914	-1.24	6-16	Q24	140.1697	-1.11	3-10	P22	140.3389	-1.23	5-14	P31	140.6389	-2.77	8-20	P19	
139.6646	-1.59	3-10	P 8	139.8983	-0.48	1-7	Q40	140.1780	-1.61	7-18	Q22	140.3403	-1.93	7-18	P33	140.6411	-2.62	8-20	R16	
139.6665	-1.70	6-16	P18	139.9007	-0.78	0-5	Q27	140.1786	-1.11	2-8	R 0	8	140.3409	-3.86	9-23	P 8	140.6572	-0.87	2-8	R27
139.6685	-1.95	7-18	Q10	139.9018	-1.21	4-12	P23	140.1815	-0.94	0-5	R36	140.3432	-2.62	8-20	Q10	140.6591	-1.04	2-8	R21	
139.6694	-2.12	7-18	R12	139.9020	-2.12	7-18	P15	140.1819	-0.41	9-23	R 0	140.3433	-3.63	9-23	R10	140.6635	-0.61	0-5	Q60	
139.6707	-1.55	6-16	R22	139.9021	-1.22	5-14	R29	140.1820	-0.23	9-23	R 1	140.3443	-1.03	0-5	P32	140.6637	-3.56	9-23	P15	
139.6726	-0.76	1-7	R40	139.9060	-1.16	0-5	P24	140.1834	-3.47	8-20	R 1	140.3451	-3.43	9-23	Q 9	140.6662	-0.61	3-10	Q33	
139.6738	-0.87	1-7	P34	139.9065	-1.26	3-10	P16	140.1840	-1.64	2-8	R 6	140.3530	-3.04	8-20	P 9	140.6666	-0.65	2-8	Q24	
139.6752	-1.32	6-16	Q20	139.9076	-1.04	0-6	P56	140.1848	-1.19	2-8	R12	140.3533	-2.80	8-20	R12	140.6710	-2.38	8-20	Q18	
139.6753	-1.28	5-14	R25	139.9119	-1.08	4-12	R28	140.1848	-3.34	8-20	R 2	140.3534	-1.26	2-8	R13	140.6710	-3.19	9-23	P16	
139.6803	-1.23	3-10	R14	139.9200	-1.72	7-18	Q17	140.1849	-3.64	8-20	R 0	140.3544	-1.01	2-8	R19	140.6730	-0.96	0-5	P37	
139.6813	-1.07	3-10	Q11	139.9216	-0.97	5-14	Q27	140.1866	-0.41	9-23	R 2	140.3592	-0.68	3-10	Q28	140.6753	-3.43	9-23	R17	
139.6834	-2.36	7-18	P 9	139.9221	-0.84	3-10	Q19	140.1887	-1.85	7-18	R24	140.3606	-0.82	2-8	R16	140.6913	-2.74	8-20	P17	
139.6842	-0.51	1-7	Q37	139.9224	-1.00	0-5	R31	140.1888	-3.25	9-23	Q 1	140.3630	-0.90	0-5	Q39	140.7001	-0.96	3-10	P31	
139.6871	-0.86	0-5	Q22	139.9246	-1.33	5-14	P25	140.1889	-0.23	9-23	Q 1	140.3650	-0.91	3-10	R31	140.7012	-0.85	0-5	R44	
139.6877	-1.53	3-10	P 9	139.9259	-1.95	7-18	R19	140.1915	-1.24	5-14	P29	140.3650	-1.56	7-18	Q25	140.7014	-1.84	7-18	P28	
139.6894	-0.92	4-12	Q21	139.9268	-1.05	3-10	R22	140.1919	-3.47	8-20	Q 1	140.3734	-0.76	1-7	P43	140.7062	-1.01	2-8	P22	
139.6897	-1.26	0-5	P19	139.9407	-1.23	3-10	P17	140.1930	-0.72	3-10	Q25	140.3741	-2.58	8-20	Q11	140.7077	-0.86	2-8	R28	
139.6913	-1.06	5-14	P54	139.9413	-1.59	6-16	P23	140.1954	-1.06	2-8	R 0	9	140.3763	-3.81	9-23	P 9	140.7180	-0.63	2-8	Q25
139.6919	-1.04	5-14	Q23	139.9445	-0.83	4-12	Q26	140.1957	-0.01	9-23	R 3	140.3791	-3.60	9-23	R11	140.7248	-2.35	8-20	Q19	
139.6945	-1.41	5-14	P21	139.9476	-2.09	7-18	P16	140.1959	-4.01	9-23	Q 2	140.3807	-3.39	9-23	Q10	140.7253	-3.53	9-23	P16	
139.6966	-1.91	7-18	Q11	139.9490	-0.76	0-5	Q28	140.1960	-3.17	8-20	R 4	140.3835	-1.03	3-10	P26	140.7321	-0.72	1-7	P47	
139.6983	-2.09	7-18	R13	139.9546	-1.14	0-5	P25	140.1974	-3.25	8-20	Q 2	140.3846	-0.42	1-7	Q46	140.7329	-3.17	9-23	Q17	
139.6987	-1.07	0-5	R26	139.9577	-1.19	4-12	P24	140.2007	-0.96	3-10	R28	140.3851	-1.22	2-8	R14	140.7350	-0.60	0-5	Q41	
139.6999	-1.20	3-10	R15	139.9634	-0.82	3-10	Q20	140.2008	-3.93	9-23	R 4	140.3854	-2.99	8-20	P10	140.7365	-0.59	3-10	Q34	
139.6999	-1.30	4-12	P19	139.9637	-0.82	1-7	P3													

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
-140.9275	-.83	0	-5	R47	141.1812	-2.26	6	-15	R12	141.3828	-1.74	5	-13	R18	141.6007	-1.75	4	-11	P12	141.8968	-1.60	0	-4	R 3
140.9300	-2.64	8	-20	P21	141.1837	-1.13	1	-6	P15	141.3837	-1.89	4	-11	R 6	141.6023	-1.77	6	-15	Q21	141.8975	-1.52	0	-4	R 4
140.9326	-1.19	1	-6	R10	141.1841	-2.35	5	-13	P 6	141.3843	-2.10	4	-11	Q 2	141.6036	-2.76	7	-17	R18	141.8976	-1.14	4	-11	Q22
140.9337	-3.45	9	-23	P19	141.1859	-1.81	5	-13	Q 8	141.3881	-.86	0	-5	P46	141.6046	-2.54	7	-17	Q16	141.8977	-1.70	0	-4	R 2
140.9355	-1.16	1	-6	P 6	141.1869	-2.56	6	-15	P 8	141.3904	-1.95	4	-11	Q 3	141.6121	-1.41	5	-13	Q21	141.8984	-2.40	7	-17	Q22
140.9373	-1.13	1	-6	R12	141.1896	-1.93	5	-13	R11	141.3927	-1.84	4	-11	R 7	-141.6130	-.52	1	-6	Q28	141.8987	-2.29	3	-9	P 3
140.9387	-1.80	1	-6	P 4	141.1910	-2.08	6	-15	Q10	141.3930	-3.21	7	-17	P 8	141.6141	-.89	1	-6	P25	141.8994	-1.55	3	-9	Q 5
140.9411	-1.10	1	-6	P 7	141.1946	-.70	1	-6	Q18	141.3950	-2.79	4	-11	P 2	-141.6146	-.76	0	-5	R55	141.8997	-2.64	7	-17	R24
140.9480	-1.16	1	-6	R11	141.2044	-2.27	5	-13	P 7	141.3986	-1.84	4	-11	Q 4	141.6199	-1.79	5	-13	P19	141.8998	-1.45	0	-4	R 5
140.9533	-1.67	1	-6	P 5	-141.2050	-.54	0	-5	Q47	141.3988	-2.91	7	-17	R12	141.6250	-1.30	4	-11	Q15	141.9004	-1.82	0	-4	R 1
140.9602	-1.04	1	-6	Q 8	141.2056	-1.77	5	-13	Q 9	-141.4002	-.81	1	-6	R27	141.6261	-1.49	4	-11	R18	141.9013	-1.55	3	-9	R 9
-140.9622	-.57	0	-5	Q44	141.2066	-2.23	6	-15	R13	141.4020	-2.73	7	-17	Q10	141.6341	-1.72	4	-11	P13	141.9037	-1.39	0	-4	R 0
140.9641	-1.10	1	-6	R13	141.2072	-.89	1	-6	R22	141.4036	-1.79	4	-11	R 8	141.6355	-2.91	7	-17	P15	141.9046	-2.00	0	-4	R 0
140.9692	-.92	2	-8	P27	141.2106	-1.90	5	-13	R12	141.4039	-1.53	5	-13	Q16	141.6358	-1.63	5	-13	R24	-141.9055	-.74	0	-5	R58
140.9704	-1.57	1	-6	P 6	141.2132	-2.50	6	-15	P 9	141.4065	-2.49	4	-11	P 3	-141.6392	-.74	1	-6	R32	141.9076	-1.36	4	-11	R25
-140.9728	-.92	0	-5	P41	-141.2152	-.86	2	-8	P31	141.4078	-2.08	6	-15	R19	141.6411	-1.99	6	-15	R24	141.9095	-1.34	0	-4	R 7
-140.9759	-.79	2	-8	R33	-141.2161	-.88	0	-5	P44	141.4083	-1.93	5	-13	P14	-141.6416	-.78	2	-8	P37	141.9109	-1.48	3	-9	Q 6
140.9773	-.99	1	-6	Q 9	141.2171	-2.04	6	-15	Q11	141.4088	-1.75	4	-11	Q 5	141.6460	-2.73	7	-17	R19	141.9121	-2.12	3	-9	P 4
-140.9848	-.55	2	-8	Q30	141.2228	-1.10	1	-6	P16	141.4167	-1.75	4	-11	R 9	141.6470	-2.51	7	-17	Q17	141.9123	-1.82	0	-4	Q 1
140.9880	-1.07	1	-6	R14	-141.2243	-.75	2	-8	R37	141.4168	-2.26	6	-15	P15	-141.6485	-.50	0	-5	Q52	141.9152	-1.52	3	-9	R10
140.9885	-1.49	1	-6	P 7	141.2270	-2.20	5	-13	P 8	-141.4176	-.82	2	-8	P34	-141.6515	-2.12	6	-15	P20	141.9158	-1.52	4	-11	P20
-140.9931	-.90	3	-10	P35	-141.2271	-.50	2	-8	Q34	141.4194	-1.72	5	-13	R19	141.6538	-1.75	6	-15	Q22	141.9159	-1.60	0	-4	Q 2
140.9963	-.95	1	-6	Q10	141.2273	-1.72	5	-13	Q10	141.4196	-1.86	6	-15	Q17	141.6596	-1.39	5	-13	Q22	141.9165	-1.30	0	-4	R 8
141.0016	-1.43	1	-6	P 8	141.2286	-.68	1	-6	Q19	141.4201	-2.32	4	-11	P 4	141.6602	-1.47	4	-11	R19	141.9210	-1.45	0	-4	Q 3
-141.0066	-.82	0	-5	R48	141.2336	-1.87	5	-13	R13	141.4203	-3.15	7	-17	P 9	141.6602	-1.28	4	-11	Q16	141.9245	-1.42	3	-9	Q 7
141.0088	-.91	1	-6	Q11	141.2343	-2.20	6	-15	R14	141.4212	-1.68	4	-11	Q 6	-141.6610	-.84	0	-5	P49	-141.9247	-.68	1	-6	R37
141.0103	-1.04	1	-6	R15	141.2416	-2.45	6	-15	P10	141.4236	-.97	1	-6	P21	-141.6651	-.50	1	-6	Q29	141.9257	-1.26	0	-4	R 9
141.0283	-1.37	1	-6	P 9	141.2421	-.87	1	-6	R23	141.4241	-.58	1	-6	Q24	-141.6663	-.87	1	-6	P26	141.9273	-1.99	3	-9	P 5
-141.0298	-.91	2	-8	P28	141.2453	-2.00	6	-15	Q12	141.4267	-2.88	7	-17	R13	141.6688	-1.77	5	-13	P20	141.9278	-1.34	0	-4	Q 4
141.0337	-1.02	1	-6	R16	141.2513	-1.68	5	-13	Q11	141.4300	-2.70	7	-17	Q11	141.6688	-1.68	4	-11	P14	141.9278	-2.30	0	-4	P 2
-141.0340	-.78	2	-8	R34	141.2517	-2.14	5	-13	P 9	141.4302	-1.72	4	-11	R10	141.6797	-2.88	7	-17	P16	141.9309	-1.48	3	-9	R11
141.0357	-.87	1	-6	Q12	-141.2556	-.79	0	-5	R51	141.4316	-.78	0	-5	R53	141.6843	-1.61	5	-13	R25	141.9356	-1.30	5	-13	Q27
-141.0403	-.54	2	-8	Q31	141.2591	-3.46	7	-17	R 2	-141.4352	-.46	2	-8	Q37	141.6890	-1.25	4	-11	Q17	141.9362	-1.22	0	-4	R10
-141.0403	-.56	0	-5	Q45	141.2592	-1.84	5	-13	R14	141.4356	-1.62	4	-11	Q 7	141.6916	-2.71	7	-17	R20	141.9363	-1.26	0	-4	Q 5
-141.0523	-.90	0	-5	P42	141.2594	-3.58	7	-17	R 1	141.4357	-1.59	4	-11	P 5	-141.6924	-.73	1	-6	R33	-141.9389	-.47	0	-5	Q55
141.0527	-1.32	1	-6	P10	141.2603	-1.07	1	-6	P17	141.4411	-2.10	5	-13	Q17	-141.6924	-2.49	7	-17	Q18	141.9392	-2.00	0	-4	P 3
141.0575	-2.92	6	-15	R 1	141.2613	-3.76	7	-17	R 0	-141.4446	-.80	1	-6	R28	141.6960	-1.45	4	-11	R20	141.9400	-1.36	3	-9	G 8
141.0576	-2.80	6	-15	R 2	141.2621	-3.36	7	-17	R 3	141.4459	-1.90	5	-13	P15	141.7050	-1.65	4	-11	P15	141.9420	-2.76	7	-17	P21
141.0583	-.99	1	-6	R17	141.2642	-.66	1	-6	Q20	141.4488	-1.68	4	-11	R11	141.7056	-2.10	6	-15	P21	141.9446	-1.90	3	-9	P 6
141.0594	-2.70	6	-15	R 3	141.2644	-2.17	6	-15	R15	141.4498	-3.10	7	-17	P10	141.7078	-1.73	6	-15	Q23	141.9454	-1.12	4	-11	Q23
141.0598	-3.10	6	-15	R 0	141.2673	-3.28	7	-17	R 4	141.4498	-2.06	6	-15	Q20	-141.7101	-.75	0	-5	R56	141.9462	-2.02	6	-15	P25
141.0624	-.84	1	-6	Q13	141.2685	-3.58	7	-17	Q 1	141.4519	-1.56	4	-11	Q 8	141.7107	-1.37	5	-13	Q23	141.9463	-1.18	0	-4	Q 6
141.0644	-2.62	6	-15	R 4	141.2722	-2.40	6	-15	P11	141.4533	-2.10	4	-11	P 6	-141.7161	-.49	1	-6	Q30	141.9477	-1.66	5	-13	P25
141.0671	-2.92	6	-15	Q 1	141.2738	-3.36	7	-17	Q 2	141.4564	-2.85	7	-17	R14	141.7201	-.77	2	-8	P38	141.9481	-1.18	0	-4	R11
141.0716	-.81	1	-6	Q14	141.2752	-3.21	7	-17	R 5	141.4581	-1.70	5	-13	R20	141.7201	-1.74	5	-13	P21	141.9485	-1.45	3	-9	R12
141.0720	-2.70	6	-15	Q 2	141.2759	-1.97	6	-15	Q13	141.4591	-2.23	6	-15	P16	-141.7201	-.86	1	-6	P27	-141.9503	-.81	0	-4	P52
141.0723	-2.56	6	-15	R 5	141.2773	-1.65	5	-13	Q12	141.4617	-1.83	6	-15	Q18	141.7272	-2.85	7	-17	P17	-141.9510	-.43	1	-6	Q34
141.0783	-2.50	6	-15	R 6	141.2788	-2.09	5	-13	P10	141.4620	-2.66	7	-17	Q12	141.7275	-1.23	4	-11	Q18	-141.9520	-1.82	0	-4	P 4
141.0787	-1.27	1	-6	P11	-141.2791	-.86	1	-6	R24	-141.4639	-.51	0	-5	Q50	141.7342	-1.43	4	-11	R21	-141.9543	-.80	1	-6	P31
141.0793	-2.56	6	-15	Q 3	-141.2792	-.85	2	-8	P32	141.4686	-1.65	4	-11	R12	141.7373	-1.60	5	-13	R26	141.9563	-2.39	7	-17	Q23
141.0815	-3.40	6	-15	P 2	141.2806	-3.21	7	-17	Q 3	141.4686	-.95	1	-6	P22	141.7397	-2.70	7	-17	R21	141.9565	-1.35	4	-11	R26
-141.0819	-.89	2	-8	P29	141.2829	-4.06	7	-17	P 2	-141.4686	-.57	1	-6	Q25	141.7405	-2.47	7	-17	Q19	141.9574	-1.32	3	-9	Q 9
-141.0847	-.97	1	-6	R18	141.2852	-3.15	7	-17	R 6	141.4703	-1.52	4	-11	Q 9	-141.7429	-.49	0	-5	Q53	141.9579	-1.12	0	-4	Q 7
-141.0879	-.81	0	-5	R49	141.2868	-1.81	5	-13	R15	141.4731	-2.02	4	-11	P 7	141.7438	-1.62	4	-11	P16	141.9586	-2.03	7	-17	R25
141.0884	-2.45	6	-15	Q 4	-141.2869	-.53	0	-5	Q48	-141.4767	-.85	0	-5	P47	-141.7477	-.72	1	-6	R34	141.9624	-1.15	0	-4	R12
141.0902	-2.45	6	-15	R 7	141.2909	-3.10	7	-17	Q 4	141.4805	-1.48	5	-13	Q18	-141.7556	-.83	0	-5	P50	141.9636	-1.82	3	-9	P 7
141.0937	-3.10	6	-15	P 3	-141.2946	-.49	2	-8	Q35	141.4811	-3.06	7	-17	P11	141.7623	-2.08	6	-15	P22	141.9648	-1.49	4	-11	P

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
142.0863	-0.84	0	-4	Q14	-142.5078	-0.34	1	-6	Q42	142.7575	-1.18	3	-9	P27	-143.1067	-0.66	0	-4	R41	143.2991	-3.70	5	-12	P	3	142.0884	-1.30	0	-4	P11	142.5122	-0.96	0	-4	P23	142.7611	-0.87	0	-4	P28	143.1101	-5.46	6	-14	P	3	142.0885	-1.55	3	-9	P12	-142.5124	-0.69	1	-6	P39	142.7630	-1.14	2	-7	R17	143.1148	-4.72	6	-14	Q	5	142.0953	-1.29	3	-9	R18	142.5354	-1.25	3	-9	P23	142.7688	-2.50	9	-21	Q10	143.1158	-4.77	6	-14	R	8	142.1010	-1.07	4	-11	Q26	142.5432	-0.56	0	-4	Q27	142.7738	-1.62	2	-7	P11	-143.1179	-0.78	0	-4	P34	143.3122	-2.96	5	-12	R	9	142.1027	-1.10	3	-9	Q15	-142.5476	-0.78	0	-4	R31	142.7758	-2.92	9	-21	P	9	142.1066	-0.98	0	-4	R19	-142.5499	-1.10	3	-9	R29	-142.7768	-0.81	3	-9	Q30	143.1231	-2.25	9	-21	Q18	143.3131	-3.53	5	-12	P	4	-142.1110	-0.73	0	-4	R60	-142.5530	-0.87	3	-9	Q26	-142.7805	-0.96	2	-7	Q14	143.1240	-3.82	7	-16	R	1	142.1115	-0.81	0	-4	Q15	-142.5590	-0.94	0	-4	P24	-142.7848	-2.68	9	-21	R12	143.1242	-3.70	7	-16	R	3	142.1145	-1.26	0	-4	P12	-142.5597	-0.59	1	-6	R46	-142.7903	-1.12	2	-7	R18	143.1244	-5.29	6	-14	P	4	-142.1188	-0.65	1	-6	R40	-142.5750	-0.43	0	-4	Q61	-142.7954	-0.49	0	-4	Q32	143.1263	-3.60	7	-16	R	0	142.1193	-1.52	3	-9	P13	142.5765	-1.72	2	-7	R	3	142.8015	-1.38	2	-7	Q12	143.1266	-4.00	7	-16	R	3	142.1241	-1.43	4	-11	P24	142.5768	-1.82	2	-7	R	2	142.8023	-2.46	9	-21	Q11	143.1284	-4.65	6	-14	Q	6	142.1267	-1.27	3	-9	R19	142.5781	-1.64	2	-7	R	4	-142.8046	-0.72	0	-4	R36	143.1310	-3.52	7	-16	R	4	142.1299	-2.70	7	-16	P24	142.5791	-1.94	2	-7	R	1	-142.8066	-0.57	1	-6	R49	143.1311	-4.72	6	-14	Q	6	142.1337	-1.08	3	-9	Q16	142.5813	-1.57	2	-7	R	5	-142.8080	-0.93	2	-7	Q15	143.1339	-3.82	7	-16	Q	1	142.1337	-0.96	0	-4	R20	142.5830	-2.12	2	-7	R	0	-142.8101	-2.87	9	-21	P10	143.1349	-1.12	2	-7	P21	143.3292	-3.40	5	-12	P	5	142.1381	-0.78	0	-4	Q16	-142.5848	-0.76	0	-4	P58	-142.8120	-0.75	0	-4	P60	143.1383	-2.62	9	-21	P17	143.3299	-2.83	5	-12	Q	7	142.1418	-1.22	0	-4	P13	-142.5863	-0.33	1	-6	Q43	142.8159	-0.85	0	-4	P29	143.1383	-3.45	7	-16	R	5	142.1419	-1.61	5	-13	P28	142.5863	-1.51	2	-7	R	6	142.8182	-1.16	3	-9	P28	143.1387	-3.60	7	-16	Q	2	142.1425	-0.46	0	-4	Q57	142.5879	-1.23	3	-9	P24	142.8193	-1.10	2	-7	R19	143.1389	-0.73	2	-7	Q24	143.3356	-0.49	6	-14	R17	-142.1454	-0.40	1	-6	Q37	142.5901	-0.54	0	-4	Q28	142.8202	-2.65	9	-21	R13	143.1407	-5.16	6	-14	P	5	142.1466	-2.33	7	-16	Q26	-142.5904	-0.68	1	-6	P40	142.8311	-1.34	2	-7	P13	143.1441	-4.59	6	-14	Q	7	142.1495	-0.75	1	-6	P34	142.5927	-1.94	2	-7	Q	1	-142.8328	-0.30	1	-6	Q46	143.1463	-3.45	7	-16	R	3	142.1520	-1.48	3	-9	P14	142.5932	-1.46	2	-7	R	7	142.8373	-0.90	2	-7	Q16	143.1480	-3.39	7	-16	R	6	142.1535	-0.79	0	-4	P54	142.5944	-1.72	2	-7	Q	2	-142.8380	-0.65	1	-6	P43	143.1485	-4.69	6	-14	R10	143.3479	-3.30	5	-12	P	8	142.1574	-1.05	4	-11	Q27	-142.5959	-0.77	0	-4	R32	-142.8381	-0.80	3	-9	Q31	143.1487	-4.60	7	-16	P	2	142.1600	-1.25	3	-9	R20	142.5970	-3.35	9	-21	R	1	-142.8388	-2.42	9	-21	Q12	-143.1526	-1.09	3	-9	P33	143.3536	-4.27	6	-14	Q15	142.1628	-0.94	0	-4	R21	142.5977	-3.52	9	-21	R	0	142.8479	-2.82	9	-21	P11	143.1558	-3.34	7	-16	Q	4	142.1665	-0.75	0	-4	Q17	142.5988	-3.22	9	-21	R	2	142.8502	-1.08	2	-7	R20	-143.1564	-0.41	0	-4	Q38	-143.3554	-0.52	1	-6	R55	142.1667	-1.05	3	-9	Q17	142.5999	-1.57	2	-7	Q	3	-142.8519	-0.47	0	-4	Q33	143.1594	-5.07	6	-14	P	6	142.1717	-1.18	0	-4	P14	142.6018	-1.42	2	-7	R	8	-142.8589	-2.62	9	-21	R14	143.1601	-3.34	7	-16	R	3	142.1813	-1.41	4	-11	P25	142.6038	-3.12	9	-21	R	3	-142.8614	-0.71	0	-4	R37	143.1608	-4.00	7	-16	P	3	142.1868	-1.45	3	-9	P15	-142.6041	-1.09	3	-9	R30	-142.8626	-1.30	2	-7	P14	143.1622	-0.54	6	-14	Q	4	142.1878	-0.64	1	-6	R41	142.6049	-3.35	9	-21	Q	1	142.8684	-0.87	0	-4	P30	-143.1650	-0.94	2	-7	Q17	-143.3682	-0.89	2	-7	R32	142.1940	-0.92	0	-4	R22	142.6060	-0.85	3	-9	Q27	142.8728	-0.84	0	-4	P30	-143.1656	-0.53	1	-6	R53	143.3715	-0.46	6	-14	R18	142.1954	-1.23	3	-9	R21	142.6060	-2.42	2	-7	P	2	142.8783	-2.39	9	-21	Q13	143.1679	-3.26	7	-16	Q	5	142.1965	-0.73	0	-4	Q18	142.6066	-0.92	0	-4	P25	142.8810	-1.15	3	-9	P29	143.1686	-4.65	6	-14	R11	143.3786	-3.04	7	-16	R16	142.1984	-2.68	7	-16	P25	142.6072	-1.46	2	-7	Q	4	142.8830	-1.06	2	-7	R21	-143.1711	-0.73	0	-4	P63	-143.3805	-3.26	7	-16	P12	142.2017	-1.03	3	-9	Q18	142.6113	-3.12	9	-21	Q	2	142.8887	-2.78	9	-21	P12	-143.1726	-0.65	0	-4	R42	-143.3818	-0.25	1	-6	Q52	142.2027	-1.15	0	-4	P15	142.6117	-3.04	9	-21	R	4	-142.8933	-0.56	1	-6	R50	143.1747	-3.30	7	-16	R	8	142.2141	-0.39	1	-6	Q38	142.6125	-1.38	2	-7	R	9	142.8958	-1.27	2	-7	P15	143.1758	-3.82	7	-16	P	7	142.2166	-0.74	0	-4	R61	142.6164	-1.38	2	-7	Q	5	142.9005	-2.59	9	-21	R15	143.1805	-4.99	6	-14	P	7	142.2181	-0.72	1	-6	P35	142.6175	-2.12	2	-7	P	3	-142.9014	-0.85	2	-7	Q18	143.1812	-1.10	2	-7	P22	143.3876	-2.68	5	-12	Q10	142.2234	-1.42	3	-9	P16	142.6193	-3.82	9	-21	P	2	-142.9014	-0.78	3	-9	Q32	143.1816	-2.23	9	-21	Q19	143.3890	-2.83	5	-12	R13	142.2260	-0.90	0	-4	R23	142.6204	-2.98	9	-21	Q	3	-142.9096	-0.46	0	-4	Q34	143.1826	-3.18	7	-16	Q	6	142.2282	-0.71	0	-4	Q19	142.6227	-2.98	9	-21	R	5	-142.9177	-1.04	2	-7	R22	143.1828	-0.49	6	-14	Q	9	142.2327	-1.21	3	-9	R22	142.6248	-1.34	2	-7	R10	-142.9191	-0.29	1	-6	Q47	143.1852	-0.71	2	-7	Q25	143.3902	-0.25	5	-12	P	8	142.2357	-1.12	0	-4	P16	142.6273	-1.30	2	-7	Q	6	-142.9202	-0.70	0	-4	R38	-143.1905	-0.27	1	-6	Q50	143.3919	-0.65	6	-14	P14	142.2386	-1.00	3	-9	Q19	142.6306	-1.94	2	-7	P	4	142.9210	-2.36	9	-21	Q14	143.1907	-4.62	6	-14	R12	-143.3942	-0.65	2	-7	Q29	142.2409	-1.40	4	-11	P26	142.6325	-2.87	9	-21	Q	3	-142.9243	-0.64	1	-6	P44	143.1914	-3.26	7	-16	R	9	142.2483	-0.45	0	-4	P58	142.6329	-3.52	9	-21	P	3	-142.9297	-0.74	0	-4	P61	143.1927	-3.70	7	-16	P	5	142.2585	-0.63	1	-6	R42	142.6367	-2.92	9	-21	R	6	142.9311	-1.24	2	-7	P16	-143.1930	-0.77	0	-4	P35	143.4111	-2.64	5	-12	Q11	142.2590	-0.79	0	-4	P55	142.6390	-1.30	2	-7	R11	-143.1933	-0.82	0	-4	P31	-143.1954	-0.61	1	-6	P47	143.4135	-2.80	5	-12	R14	142.2601	-0.88	0	-4	R24	142.6390	-0.53	0	-4	Q29	142.9324	-2.74	9	-21	P13	143.1977	-2.59	9	-21	P18	143.4149	-3.10	5	-12	P	9	142.2616	-0.69	0	-4	Q20	-142.6400	-0.58	1	-6	R47	142.9363	-0.83	2	-7	Q19	143.1996	-3.12	7	-16	Q	7	142.2620	-1.39	3	-9	P17	142.6400	-1.24	2	-7	Q	7	142.9450	-1.13	3	-9	P30	143.2037	-4.92	6	-14	P	8	142.2687	-2.66	7	-16	P26	142.6424	-1.21	3	-9	P25	142.9454	-2.57	9	-21	R16	143.2056	-4.44	6	-14	Q10	143.4236	-2.81	7	-16	P13	142.2701	-1.09	0	-4	P17	142.6456	-1.82	2	-7	P	5	142.9542	-1.02	2	-7	R23	143.2106	-3.22	7	-16	P10	-143.4245	-0.87	2	-7	R33	142.2720	-1.20	3	-9	R23	142.6476	-2.78	9	-21	Q	5	142.9669	-2.33	9	-21	Q15	143.2122	-3.60	7	-16	P	6	142.2775	-0.98	3	-9	Q20	142.6491	-3.35	9	-21	P	7	-142.9676	-0.77	3	-9	Q33	-143.2131	-0.93	2	-7	R29	143.4313	-4.62	6	-14	P15	-142.2846	-0.37	1	-6	Q39	142.6536	-2.87	9	-21	R	7	142.9681	-1.21	2	-7	P17	143.2151	-4.59	6	-14	R13	-143.4345	-0.37	0	-4	Q42	-142.2889	-0.73	1	-6	P36	142.6546	-1.19	2	-7	Q	8	-142.9692	-0.45	0	-4	Q35	143.2191	-3.07	7	-16	Q	8	142.2959	-0.87	0	-4	R25	-142.6551	-0.75	0	-4	R33	-142.9731	-0.81	2	-7	Q20	-143.2235	-0.40	0	-4	Q39	143.4402	-

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
143.5111	-3.04	8-18	P	5	-143.6841	-0.94	2-7	P31	143.8565	-2.32	8-18	R19	144.0885	-2.83	9-20	R	1	144.2853	-1.95	9-20	Q11	
143.5133	-4.17	6-14	P19	143.6847	-3.13	4-10	R	0	143.8573	-2.48	4-10	P10	-144.0886	-0.76	2-7	R43	144.2883	-2.30	8-18	P23		
143.5170	-4.56	6-14	P17	-143.6853	-0.57	1-6	P52	143.8586	-2.98	7-16	P22	144.0887	-2.34	10-23	Q	5	-144.2912	-0.62	0-4	P49		
143.5208	-2.60	8-18	R	9	-143.6857	-0.59	0-4	R49	143.8602	-4.29	6-14	R28	144.0887	-2.90	10-23	P	4	144.2945	-2.57	5-12	P28	
143.5235	-2.46	8-18	Q	7	-143.6860	-0.58	2-7	Q34	143.8628	-2.33	5-12	Q23	144.0896	-2.48	10-23	R	6	144.2957	-2.13	9-20	R13	
143.5267	-2.51	5-12	Q15	143.6865	-2.59	4-10	R	5	143.8660	-2.61	7-16	Q24	144.0898	-2.71	9-20	R	2	144.2957	-1.74	4-10	Q24	
143.5283	-1.56	1-5	R	3	143.6881	-2.90	7-16	R23	143.8674	-2.18	4-10	R16	144.0902	-3.01	9-20	R	0	144.2973	-0.48	1-5	Q29	
143.5290	-1.48	1-5	R	4	143.6889	-2.62	5-12	R22	-143.8686	-0.79	2-7	R40	144.0919	-2.23	4-10	P17	144.2980	-2.35	9-20	P10		
143.5291	-1.65	1-5	R	2	143.6891	-3.04	7-16	P19	143.8706	-0.66	1-5	Q19	144.0938	-2.61	9-20	R	3	144.3028	-4.30	6-14	P30	
-143.5303	-0.61	0-4	R47	143.6891	-2.21	8-18	Q13	143.8726	-0.86	1-5	R23	144.0975	-2.83	9-20	Q	1	-144.3047	-1.97	4-10	R27		
143.5315	-1.41	1-5	R	5	143.6894	-2.80	5-12	P17	143.8736	-2.00	4-10	Q13	144.0978	-2.36	8-18	P20	-144.3068	-0.71	1-5	R33		
143.5319	-1.78	1-5	R	1	143.6896	-4.33	6-14	R25	143.8752	-1.08	1-5	P16	144.1012	-2.53	9-20	R	4	144.3103	-0.86	1-5	P26	
143.5330	-2.94	8-18	P	6	143.6902	-2.41	8-18	R15	143.8776	-2.56	5-12	R26	-144.1024	-0.64	0-4	P47	144.3109	-1.93	8-18	Q25		
143.5336	-2.70	5-12	R18	-143.6907	-0.69	0-4	P42	143.8785	-2.70	5-12	P21	144.1032	-2.51	9-20	Q	2	144.3191	-2.38	10-23	P11		
143.5348	-2.92	5-12	P13	143.6924	-2.96	4-10	Q	1	143.8834	-2.46	8-18	P16	144.1035	-2.62	5-12	P25	144.3201	-1.91	9-20	Q12		
143.5356	-1.35	1-5	R	6	143.6929	-2.53	4-10	R	6	143.8841	-4.04	6-14	Q26	-144.1039	-0.86	2-7	P37	144.3221	-2.20	10-23	R13	
143.5364	-1.95	1-5	R	0	143.6954	-2.66	7-16	Q21	143.8852	-2.43	4-10	P11	144.1051	-0.55	1-5	Q25	144.3238	-1.98	10-23	Q12		
-143.5372	-0.71	0-4	P40	143.6961	-0.98	1-5	R17	-143.8861	-0.90	2-7	P34	-144.1080	-0.51	2-7	Q40	-144.3268	-0.74	2-7	R46			
-143.5388	-0.85	2-7	R35	143.6963	-2.74	4-10	Q	2	-143.8893	-0.54	2-7	Q37	144.1111	-2.46	9-20	R	5	144.3269	-2.35	3-8	R	
143.5388	-4.39	6-14	R22	143.6985	-1.30	1-5	P10	143.8904	-4.40	6-14	P24	144.1113	-2.04	4-10	R23	144.3271	-2.45	3-8	R			
143.5399	-2.96	7-16	R20	143.6993	-0.82	1-5	Q13	143.8950	-0.55	1-6	P54	144.1117	-2.43	10-23	R	7	144.3274	-2.11	4-10	P22		
143.5416	-1.30	1-5	R	7	143.7014	-2.48	4-10	R	7	143.8967	-2.16	4-10	R17	144.1118	-1.82	4-10	Q20	144.3286	-2.28	3-8	R	
143.5419	-3.12	7-16	P16	143.7024	-2.59	4-10	Q	3	143.9005	-2.07	8-18	Q18	144.1118	-2.46	9-20	Q	3	144.3292	-2.58	3-8	R	
143.5424	-2.56	8-18	R10	143.7077	-3.43	4-10	P	2	143.9021	-1.97	4-10	Q14	144.1122	-3.31	9-20	P	2	144.3320	-2.10	9-20	R14	
143.5443	-1.78	1-5	Q	1	143.7103	-2.48	4-10	Q	4	143.9050	-2.30	8-18	R20	144.1127	-2.78	10-23	P	5	144.3322	-2.21	3-8	R
143.5446	-2.41	8-18	Q	8	143.7107	-4.09	6-14	Q23	143.9053	-0.64	1-5	Q20	144.1145	-2.27	10-23	Q	6	144.3332	-2.75	3-8	R	
143.5476	-1.56	1-5	Q	2	143.7114	-2.60	8-18	P12	-143.9060	-0.31	0-4	Q48	144.1146	-0.76	1-5	R29	144.3342	-2.31	9-20	P11		
143.5483	-2.73	7-16	Q18	143.7118	-2.43	4-10	R	8	143.9084	-0.84	1-5	R24	144.1150	-0.93	1-5	P22	-144.3373	-0.83	2-7	P40		
143.5493	-1.26	1-5	R	8	143.7167	-4.46	6-14	P21	143.9107	-1.05	1-5	P17	-144.1164	-0.53	1-6	P56	144.3378	-2.15	3-8	R		
143.5527	-1.41	1-5	Q	3	143.7192	-3.13	4-10	P	3	143.9147	-2.31	5-12	Q24	144.1184	-1.99	8-18	Q22	144.3410	-2.58	3-8	Q	
143.5564	-2.86	8-18	P	7	143.7196	-2.39	5-12	Q20	143.9151	-2.39	4-10	P12	144.1232	-2.35	9-20	Q	4	144.3448	-2.35	3-8	Q	
143.5586	-1.21	1-5	R	9	143.7204	-2.39	4-10	Q	5	143.9205	-2.96	7-16	P23	144.1240	-2.41	9-20	R	6	144.3452	-2.10	3-8	R
143.5596	-0.97	2-7	P29	143.7212	-0.95	1-5	R18	143.9217	-4.27	6-14	R29	144.1252	-3.01	9-20	P	3	-144.3456	-2.18	2-7	Q43		
143.5597	-1.30	1-5	Q	4	143.7234	-0.79	1-5	Q14	143.9280	-2.13	4-10	R18	144.1263	-2.22	8-18	R24	-144.3467	-0.27	0-4	Q53		
143.5600	-2.26	6-14	Q20	143.7236	-1.26	1-5	P11	143.9320	-2.68	5-12	P22	144.1322	-2.68	10-23	P	6	144.3468	-1.73	4-10	Q25		
143.5609	-2.48	1-5	P	2	143.7244	-2.39	4-10	R	9	143.9322	-2.54	5-12	R27	144.1357	-2.20	4-10	P18	-144.3491	-1.96	4-10	R28	
-143.5616	-0.61	2-7	Q32	143.7260	-2.18	8-18	R14	-143.9329	-0.57	0-4	R52	144.1379	-2.27	9-20	Q	5	144.3510	-0.47	1-5	Q30		
143.5634	-4.54	6-14	P18	143.7279	-2.38	8-18	R16	143.9331	-2.43	8-18	P17	144.1398	-2.35	9-20	R	7	144.3546	-2.05	3-8	K		
143.5664	-2.52	8-18	R11	143.7324	-2.32	4-10	Q	6	-143.9376	-0.65	0-4	P45	144.1404	-2.20	10-23	Q	7	144.3563	-2.28	8-18	P24	
143.5679	-2.36	8-18	Q	9	143.7325	-2.61	5-12	R23	143.9416	-0.62	1-5	Q21	144.1412	-2.83	9-20	P	4	144.3566	-3.05	3-8	P	
143.5683	-1.21	1-5	Q	5	143.7330	-2.96	4-10	P	4	-143.9429	-0.78	2-7	R41	144.1443	-2.25	5-12	Q28	144.3578	-1.88	9-20	Q13	
143.5686	-2.68	5-12	R19	143.7336	-2.77	5-12	P18	143.9459	-0.82	1-5	R25	144.1466	-3.98	6-14	Q30	144.3581	-2.10	3-8	Q			
143.5698	-1.18	1-5	R10	143.7389	-2.36	4-10	R10	143.9465	-4.03	6-14	Q27	144.1505	-0.53	1-5	Q26	-144.3635	-0.70	1-5	R34			
143.5702	-2.89	5-12	P14	-143.7411	-0.33	0-4	Q46	143.9470	-2.36	4-10	P13	144.1549	-2.02	4-10	R24	144.3636	-0.84	1-5	P27			
143.5711	-1.95	1-5	P	3	143.7429	-3.02	7-16	P20	143.9480	-1.02	1-5	P18	144.1551	-1.80	4-10	Q21	144.3645	-2.56	5-12	P29		
143.5786	-1.14	1-5	Q	6	143.7444	-4.32	6-14	R26	143.9503	-2.05	8-18	Q19	144.1551	-2.19	9-20	Q	6	144.3658	-2.01	3-8	R	
-143.5806	-0.24	1-6	Q54	143.7464	-2.26	4-10	Q	7	143.9535	-4.39	6-14	P25	144.1566	-4.33	6-14	P28	144.3668	-2.34	10-23	P12		
143.5822	-2.79	8-18	P	8	143.7480	-0.93	1-5	R19	143.9562	-2.28	8-18	R21	144.1585	-2.31	9-20	R	8	144.3676	-2.01	3-8	Q	
143.5826	-1.14	1-5	R11	143.7486	-2.83	4-10	P	5	-143.9582	-0.89	2-7	P35	144.1588	-2.34	8-18	P21	144.3681	-2.75	3-8	P		
-143.5828	-0.57	1-6	P51	143.7493	-0.76	1-5	Q15	143.9626	-1.21	4-10	R19	144.1598	-2.71	9-20	P	5	144.3712	-2.18	10-23	R14		
-143.5832	-0.35	0-4	Q44	143.7498	-2.64	7-16	Q22	-143.9638	-0.53	2-7	Q38	-144.1606	-0.75	1-5	R30	144.3713	-2.08	9-20	R15			
143.5841	-1.78	1-5	P	4	-143.7498	-0.93	2-7	P32	143.9653	-1.92	4-10	Q16	144.1611	-0.91	1-5	P23	144.3719	-1.95	10-23	Q13		
143.5868	-4.37	6-14	R23	143.7501	-2.56	8-18	P13	143.9693	-2.30	5-12	Q25	144.1644	-2.61	5-12	P26	144.3734	-2.27	9-20	P12			
143.5869	-2.94	7-16	R21	143.7505	-1.21	1-5	P12	143.9799	-0.60	1-5	Q22	144.1653	-2.60	10-23	P	7	144.3748	-2.09	4-10	P23		
143.5885	-3.09	7-16	P17	-143.7522	-0.57	2-7	Q35	143.9811	-2.32	4-10	P14	144.1665	-2.34	10-23	R	9	144.3790	-1.97	3-8	R10		
143.5906	-1.08	1-5	Q	7	143.7555	-2.32	4-10	R11	143.9847	-2.94	7-16	P24	-144.1666	-0.76	2-7	R44	144.3790	-1.94	3-8	Q		
143.5936	-2.49	8-18	R12	143.7626	-2.20	4-10	Q	8	143.9851	-0.81	1-5	R26	-144.1682	-0.29	0-4	Q51	144.3796	-4.29	6-14	P31		
143.5943	-2.32	8-18	Q10	143.7655	-2.37	5-12	Q21	143.9856	-2.41	8-18	P18	144.1698	-2.15	10-23	Q	8	144.3803	-1.91	8-18	Q26		
143.5947	-2.71	7-16	P19	143.7656	-2.15	8-18	Q15	143.9871	-1.00	1-5	P19	144.1754	-2.13	9-20	Q	7	144.3816	-2.58	3-8	P		
143.5972	-1.11	1-5	R12	143.7662	-4.08	6-14	Q24	143.9872	-2.66	5-12	P23	144.1790	-1.97	8-18	Q23	144.3839	-0.61	0-4	P50			
143.5975	-2.46	5-12	P17	143.7663	-2.74	4-10	P	6	143.9885	-2.53	5-12	R28	144.1801	-2.27	9-20	R	9	144.3924	-1			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
144.4989	-1.80	3	8	R16	144.7942	-2.03	9-20	P20	145.1656	-2.21	7-15	Q	5	-145.3138	-.56	1-5	R48	145.5088	-2.15	6-13	R18			
144.5028	-2.10	3	8	P10	144.7987	-1.53	0-3	P	5	145.1683	-2.25	7-15	R	8	145.3148	-1.85	7-15	Q12	145.5101	-2.11	8-17	P11		
144.5033	-2.24	8-18	P26	144.8003	-.96	0-3	R13	-145.1689	-1.28	3-8	Q29	145.3164	-.41	0-3	Q26	145.5148	-1.88	8-17	R15					
144.5069	-2.01	9-20	R18	144.8006	-.91	0-3	Q	8	145.1727	-1.90	4-10	P35	145.3174	-1.53	2-6	P	14	145.5193	-1.68	8-17	Q13			
144.5089	-2.16	9-20	P15	-144.8034	-1.97	4-10	P30	145.1743	-.88	0-3	P19	145.3180	-2.81	8-17	P	14	145.5215	-1.91	7-15	R20				
144.5124	-1.62	3-8	Q13	-144.8065	-1.62	3-8	R25	145.1747	-2.78	7-15	P	4	145.3193	-2.16	8-17	R	7	145.5241	-1.58	2-6	P15			
-144.5127	-.81	2-7	P42	144.8131	-2.12	10-23	P19	145.1804	-2.14	7-15	Q	6	145.3235	-1.95	2-6	P	7	-145.5281	-.28	1-5	Q47			
-144.5160	-.46	2-7	Q45	144.8148	-1.44	0-3	P	6	145.1813	-.67	0-3	R27	145.3257	-2.07	8-17	Q	5	145.5320	-1.16	2-6	Q18			
-144.5167	-1.92	4-10	R31	144.8153	-.86	0-3	Q	9	145.1848	-2.21	7-15	R	9	145.3298	-1.41	2-6	Q10	145.5337	-1.93	6-13	Q16			
-144.5171	-1.68	4-10	Q28	144.8166	-.93	0-3	R14	145.1916	-2.65	7-15	P	5	145.3303	-2.17	6-13	Q	9	145.5349	-.72	0-3	P27			
-144.5178	-.43	1-5	Q33	144.8176	-1.80	3-8	P19	145.1931	-.66	0-3	Q23	145.3304	-2.67	6-13	P	7	145.5367	-2.08	7-15	P16				
144.5286	-1.77	3-8	R17	144.8219	-1.40	3-8	Q22	145.1972	-2.08	7-15	Q	7	145.3318	-2.02	7-15	R15	P	145.5370	-1.68	7-15	Q18			
144.5296	-2.05	3-8	P11	-144.8312	-1.61	4-10	Q33	-145.2006	-.32	1-5	Q43	145.3325	-2.64	8-17	P	4	145.5392	-1.35	2-6	R22				
144.5332	-2.23	10-23	P15	144.8318	-.81	0-3	Q10	145.2043	-2.17	7-15	R10	145.3332	-2.30	6-13	R12	-145.5394	-1.56	3-8	P32					
144.5343	-.79	1-5	P30	144.8326	-1.36	0-3	P	7	145.2118	-2.55	7-15	P	6	145.3346	-2.11	8-17	R	8	145.5406	-2.34	6-13	P14		
-144.5349	-.66	1-5	R37	144.8348	-.91	0-3	R15	145.2136	-.86	0-3	P20	-145.3369	-1.61	3-8	P29	145.5461	-2.13	6-13	R19					
144.5384	-1.76	9-20	Q17	-144.8350	-.37	1-5	Q38	-145.2151	-1.51	3-8	R33	145.3369	-1.88	2-6	P	8	145.5464	-2.07	8-17	P12				
144.5391	-1.59	3-8	Q14	144.8495	-.77	0-3	Q11	145.2155	-2.03	2-6	R	3	-145.3370	-1.49	3-8	R35	-145.5481	-1.20	3-8	Q35				
144.5397	-1.86	10-23	P16	144.8521	-1.29	0-3	P	8	145.2162	-2.13	2-6	R	2	145.3400	-1.50	2-6	R15	-145.5502	-.62	1-5	P44			
144.5430	-2.10	10-23	R17	-144.8522	-.72	1-5	P35	145.2172	-1.95	2-6	R	4	145.3412	-.79	0-3	P23	145.5508	-1.86	8-17	R16				
144.5469	-2.04	4-10	P26	-144.8530	-1.61	3-8	R26	145.2174	-1.83	2-6	R	6	145.3412	-.79	8-17	Q	6	145.5557	-1.65	8-17	Q14			
144.5514	-1.75	3-8	R18	144.8545	-.88	0-3	R16	145.2177	-2.25	7-15	Q	8	145.3423	-1.37	2-6	Q11	145.5612	-3.13	5-11	K	2			
144.5583	-1.99	9-20	R19	144.8560	-1.77	3-8	R20	145.2189	-2.25	2-6	R	1	145.3442	-2.25	7-15	P11	145.5618	-3.03	5-11	R	3			
144.5583	-2.01	3-8	P12	-144.8597	-.61	1-5	R42	145.2200	-1.88	2-6	R	5	145.3462	-1.82	7-15	Q13	145.5627	-3.26	5-11	R	1			
144.5599	-2.13	9-20	P16	144.8605	-2.01	9-20	P21	145.2202	-2.85	6-13	R	2	145.3504	-1.24	3-8	Q32	145.5645	-2.95	5-11	R	4			
144.5682	-1.56	3-8	Q15	144.8667	-1.38	3-8	Q23	145.2210	-2.97	6-13	R	1	145.3506	-2.51	8-17	P	5	145.5645	-1.55	2-6	P16			
-144.5721	-1.66	4-10	Q29	144.8690	-.74	0-3	Q12	-145.2214	-1.64	3-8	R27	145.3518	-2.07	8-17	R	9	145.5663	-3.43	5-11	R	0			
-144.5765	-.59	0-4	P52	-144.8719	-1.96	4-10	P31	-145.2214	-2.75	6-13	R	3	145.3526	-2.13	6-13	Q10	145.5666	-1.14	2-6	Q19				
-144.5784	-1.90	4-10	R32	144.8732	-1.23	0-3	P	9	145.2215	-.66	0-3	R28	145.3537	-2.60	6-13	P	8	145.5667	-1.89	7-15	R21			
-144.5784	-.42	1-5	Q34	-144.8745	-.76	2-7	P46	145.2227	-2.14	7-15	R11	145.3566	-2.60	6-13	R13	-145.5671	-.53	1-5	R51					
144.5802	-2.22	8-18	P27	144.8757	-.86	0-3	R17	145.2231	-2.43	2-6	R	0	145.3588	-1.94	8-17	Q	7	145.5694	-2.89	5-11	R	5		
144.5829	-1.73	3-8	R19	-144.8796	-.57	0-4	P55	-145.2232	-.66	1-5	P40	145.3601	-.30	1-5	Q45	145.5718	-1.91	6-13	Q17					
144.5890	-1.97	3-8	P13	144.8902	-.70	0-3	Q13	145.2243	-3.15	6-13	R	0	145.3613	-.40	0-3	Q27	145.5741	-3.26	5-11	Q	1			
144.5912	-1.74	9-20	R18	-144.8904	-1.59	3-8	R27	145.2250	-2.67	6-13	R	4	145.3630	-1.47	2-6	R16	145.5746	-1.33	2-6	R23				
144.5934	-1.54	3-8	Q16	144.8960	-1.18	0-3	P10	145.2292	-1.77	2-6	R	7	145.3646	-2.00	7-15	R16	145.5763	-2.83	5-11	R	6			
144.5960	-.78	1-5	P31	144.8988	-.83	0-3	R18	145.2306	-2.60	6-13	R	5	145.3646	-1.83	2-6	P	9	145.5783	-3.03	5-11	Q	2		
144.5970	-2.20	10-23	P16	-144.9032	-1.60	4-10	Q34	-145.2311	-2.25	2-6	Q	1	145.3701	-1.33	2-6	Q12	145.5794	-2.30	6-13	P15				
-144.5974	-.65	1-5	R38	144.9032	-1.75	3-8	R21	-145.2317	-1.27	3-8	Q30	145.3709	-2.41	8-17	P	6	145.5826	-1.66	7-15	Q19				
-144.6029	-.79	2-7	P43	-144.9046	-.36	1-5	Q39	-145.2320	-2.97	6-13	Q	1	145.3731	-2.03	8-17	R10	145.5827	-2.05	7-15	P17				
144.6038	-1.84	10-23	Q17	144.9061	-1.36	3-8	Q24	145.2326	-.45	0-3	Q24	145.3772	-2.09	6-13	Q11	145.5846	-2.89	5-11	Q	3				
-144.6049	-.45	2-7	Q46	-144.9132	-.67	0-3	Q14	-145.2334	-.56	1-5	R47	145.3789	-2.21	7-15	P12	145.5848	-2.03	8-17	P13					
144.6080	-2.02	4-10	P27	144.9205	-1.14	0-3	P11	145.2341	-1.97	7-15	Q	9	145.3792	-2.55	6-13	P	9	145.5853	-2.78	5-11	R	7		
144.6140	-2.10	9-20	P17	144.9235	-.81	0-3	R19	145.2348	-2.03	2-6	Q	2	145.3795	-1.88	8-17	Q	8	145.5856	-2.11	6-13	R20			
144.6155	-1.71	3-8	R20	-144.9249	-.71	1-5	P36	145.2349	-2.47	7-15	P	7	145.3797	-1.79	7-15	Q14	145.5880	-.70	0-3	P28				
144.6217	-1.94	3-8	P14	-144.9312	-.60	1-5	R43	145.2363	-2.75	6-13	Q	2	-145.3825	-.25	1-5	P42	145.5896	-3.73	5-11	P	2			
144.6250	-1.51	3-8	Q17	144.9375	-.64	0-3	Q15	145.2384	-1.73	2-6	R	8	145.3827	-2.64	6-13	R14	145.5900	-1.83	8-17	P17				
-144.6340	-1.51	4-10	Q30	-144.9419	-1.58	3-8	R28	145.2387	-2.55	6-13	R	6	145.3872	-.77	0-3	P24	145.5929	-2.78	5-11	Q	4			
-144.6402	-1.89	4-10	R33	-144.9451	-1.94	4-10	P32	145.2401	-1.88	2-6	Q	3	145.3885	-1.45	2-6	R17	145.5941	-1.62	8-17	Q15				
-144.6412	-.40	1-5	Q35	144.9462	-1.09	0-3	P12	145.2432	-2.60	6-13	Q	3	145.3898	-1.77	2-6	P10	145.5963	-2.73	5-11	R	8			
144.6468	-1.72	9-20	Q19	144.9498	-.79	0-3	R20	145.2469	-2.11	7-15	R12	145.3940	-2.33	8-17	P	7	145.6016	-3.43	5-11	P	3			
144.6501	-1.69	3-8	R21	144.9516	-1.73	3-8	R22	145.2470	-2.73	2-6	P	2	145.3964	-2.00	8-17	R11	145.6030	-1.12	2-6	Q20				
144.6562	-1.91	3-8	P15	144.9588	-1.35	3-8	Q25	145.2473	-3.45	6-13	P	2	-145.3966	-.55	1-5	R49	145.6031	-1.52	2-6	P17				
-144.6580	-.76	1-5	P32	144.9637	-.62	0-3	Q16	145.2474	-1.77	2-6	Q	4	145.3974	-1.30	2-6	Q13	145.6034	-2.69	5-11	Q	5			
-144.6594	-.64	1-5	R39	-144.9702	-.76	2-7	P47	-145.2488	-2.50	6-13	R	7	145.4002	-1.97	7-15	R17	-145.6093	-1.55	3-8	P33				
144.6606	-2.21	8-18	P28	144.9739	-1.06	0-3	P13	145.2493	-1.69	2-6	R	9	145.4014	-1.47	3-8	R36	145.6096	-2.69	5-11	R	9			
144.6637	-2.18	10-23	P17	-144.9757	-.77	1-5	Q40	145.2521	-2.50	6-13	Q	4	145.4024	-1.83	8-17	Q	9	-145.6115	-.27	1-5	Q48			
144.6646	-1.49	3-8	Q18	144.9778	-.35	0-3	R21	145.2544	-.83	0-3	P21	145.4039	-2.05	6-13	Q12	-145.6121	-1.31	2-6	R24					
144.6709	-2.08	9-20	P18	144.9915	-.59	0-3	Q17	145.2561	-2.41	7-15	P	8	-145.4043	-1.59	3-8	P30	145.6122	-1.88	6-13	Q18				

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
145.7176	-2.83	5-11	P	9	146.0472	-1.79	8-17	P22	146.3728	-1.56	1-4	Q	3	-146.6575	-1.19	2-6	P36	-147.0769	-2.44	4-9	Q30	
145.7180	-2.05	6-13	R23	146.0571	-2.10	5-11	Q21	146.3749	-1.36	1-4	R	9	146.6584	-2.43	10-21	P	5	147.0781	-1.02	1-4	P25	
145.7220	-1.77	8-17	R20	146.0599	-1.42	8-17	Q24	146.3756	-3.19	4-9	P12	146.6622	-2.04	10-21	R	5	147.0802	-1.03	2-6	R48		
145.7227	-1.06	2-6	Q23	146.0618	-2.32	5-11	R24	146.3759	-2.93	4-9	R18	146.6639	-1.26	1-4	P15	147.0866	-1.86	10-21	P16			
145.7258	-1.54	8-17	Q18	146.0641	-.94	2-6	Q30	146.3792	-.20	1-5	O56	146.6769	-1.01	1-4	R23	147.1004	-1.71	10-21	R19			
-145.7261	-.60	1-5	P46	146.0741	-1.47	3-8	P39	146.3798	-1.24	2-6	P32	146.6771	-1.86	10-21	Q	7	147.1043	-.63	1-4	Q29		
145.7264	-1.45	2-6	P20	146.0748	-1.31	2-6	P27	146.3798	-1.45	1-4	Q	4	-146.6811	-1.08	2-6	R43	147.1118	-.86	1-4	R33		
145.7341	-1.60	7-15	Q22	146.0769	-.23	1-5	O53	146.3803	-2.40	1-4	P	2	146.6815	-2.34	10-21	P	6	-147.1170	-.77	2-6	Q45	
145.7349	-1.97	7-15	P20	146.0780	-2.48	5-11	P19	146.3854	-1.33	1-4	R10	146.6854	-2.95	4-9	P20	147.1253	-2.80	4-9	P28			
-145.7350	-1.27	2-6	R27	146.0789	-1.71	6-13	Q27	146.3876	-2.74	4-9	Q15	146.6858	-.81	1-4	Q19	147.1271	-1.47	10-21	Q18			
145.7353	-2.33	5-11	Q12	146.0879	-1.17	2-6	R34	146.3884	-1.36	1-4	Q	5	146.6862	-1.99	10-21	R	9	147.1291	-1.01	1-4	P26	
145.7363	-2.50	5-11	R15	146.0956	-2.07	6-13	P25	146.3922	-2.10	1-4	P	3	146.6877	-2.78	4-9	R26	147.1329	-1.12	2-6	P42		
145.7442	-2.78	5-11	P10	146.1021	-.56	1-5	P50	146.3966	-1.12	2-6	R39	146.6978	-1.23	1-4	P16	147.1396	-2.43	4-9	Q31			
-145.7463	-.51	1-5	R53	146.1039	-2.08	5-11	Q22	146.3972	-1.29	1-4	R11	146.6981	-2.56	4-9	Q23	147.1446	-1.83	10-21	P17			
145.7471	-1.82	6-13	Q21	146.1064	-1.85	7-15	P26	146.3978	-1.70	8-17	Q27	-146.7001	-.18	1-5	Q59	-147.1523	-.85	1-4	R34			
145.7554	-.66	0-3	P31	146.1091	-2.30	5-11	P25	146.3987	-1.29	1-4	Q	6	146.7019	-1.80	10-21	Q	8	147.1558	-.62	1-4	Q30	
-145.7571	-1.52	3-8	P35	146.1118	-1.77	8-17	P23	146.3992	-2.35	5-11	P25	146.7078	-2.26	10-21	P	7	-147.1652	-1.02	2-6	R49		
145.7578	-2.48	5-11	R16	146.1222	-.93	2-6	Q31	146.4047	-.54	1-5	P53	146.7114	-.99	1-4	R24	147.1818	-.99	1-4	P27			
145.7584	-2.19	6-13	P19	146.1247	-1.41	8-17	Q25	146.4055	-1.93	1-4	P	4	146.7133	-1.96	10-21	R10	147.1824	-.48	1-5	P60		
145.7633	-2.30	5-11	Q13	146.1264	-2.45	5-11	P20	146.4073	-3.15	4-9	P13	146.7184	-.82	2-6	Q40	147.1875	-1.44	10-21	Q19			
145.7639	-1.91	8-17	P17	146.1295	-.48	1-5	R57	146.4078	-2.91	4-9	R19	146.7198	-.79	1-4	Q20	147.1898	-2.78	4-9	P29			
145.7662	-1.04	2-6	Q24	146.1321	-1.30	2-6	P28	146.4105	-1.23	1-4	Q	7	-146.7256	-.51	1-5	P56	147.2039	-.76	2-6	Q46		
-145.7666	-1.17	3-8	R38	146.1380	-3.53	4-9	R	3	146.4115	-1.26	1-4	R12	146.7299	-1.76	10-21	Q	9	-147.2044	-2.42	4-9	Q32	
145.7672	-2.03	6-13	R24	146.1382	-3.63	4-9	R	2	146.4193	-2.71	4-9	P16	-146.7317	-1.17	2-6	P37	147.2060	-1.80	10-21	P18		
145.7708	-1.43	2-6	P21	146.1401	-3.75	4-9	R	1	146.4206	-1.80	1-4	P	5	146.7331	-1.20	1-4	P17	-147.2069	-.84	1-4	R35	
145.7713	-1.75	8-17	R21	146.1401	-3.45	4-9	R	4	146.4242	-1.17	1-4	Q	8	146.7332	-2.93	4-9	P21	-147.2093	-.61	1-4	Q31	
145.7730	-2.73	5-11	P11	146.1439	-3.93	4-9	R	0	146.4269	-1.23	1-4	R13	146.7361	-2.77	4-9	R27	-147.2196	-1.11	2-6	P43		
145.7753	-1.52	8-17	Q19	146.1439	-3.38	4-9	R	5	-146.4343	-.87	2-6	Q36	146.7372	-2.19	10-21	P	8	147.2364	-.97	1-4	P28	
-145.7801	-1.25	2-6	R28	146.1458	-1.16	2-6	R35	146.4374	-1.71	1-4	P	6	146.7434	-1.92	10-21	R11	147.2514	-1.42	10-21	Q20		
145.7894	-2.45	4-9	R	17	146.1499	-3.33	4-9	R	6	-146.4379	-.46	1-5	R60	146.7460	-2.54	4-9	Q24	147.2533	-2.41	8-16	R	1
145.7896	-1.58	7-15	Q23	146.1519	-3.75	4-9	Q	1	146.4393	-1.13	1-4	Q	9	146.7477	-.97	1-4	R25	147.2534	-2.28	8-16	R	2
145.7907	-1.95	7-15	P21	146.1528	-2.06	5-11	Q23	146.4410	-3.12	4-9	P14	146.7555	-.77	1-4	Q21	-147.2534	-1.01	2-6	R50			
-145.7922	-.25	1-5	O50	146.1559	-3.53	4-9	Q	2	146.4417	-2.89	4-9	R20	-146.7571	-1.07	2-6	R44	147.2550	-2.28	7-14	R	2	
145.7927	-2.27	5-11	Q14	146.1579	-3.28	4-9	R	7	146.4445	-1.20	1-4	R14	146.7614	-1.71	10-21	Q10	147.2554	-2.77	4-9	P30		
145.7959	-1.80	6-13	Q22	146.1590	-2.29	5-11	R26	-146.4460	-1.22	2-6	P33	146.7696	-2.13	10-21	P	9	147.2554	-2.18	7-14	R	3	
145.8021	-2.69	5-11	P12	146.1604	-2.05	6-13	P26	146.4530	-2.69	4-9	Q17	146.7702	-1.17	1-4	P18	147.2558	-2.40	7-14	R	1		
145.8088	-2.17	6-13	P20	146.1619	-3.38	4-9	Q	3	146.4558	-1.63	1-4	P	7	146.7767	-1.89	10-21	R12	147.2561	-2.58	8-16	R	0
-145.8116	-1.02	2-6	Q25	146.1677	-4.23	4-9	R	2	146.4565	-1.08	1-4	Q10	146.7831	-2.91	4-9	P22	147.2562	-2.18	7-14	R	3	
145.8151	-1.88	8-17	P18	146.1677	-3.23	4-9	R	8	146.4605	-2.33	5-11	P26	146.7856	-2.75	4-9	R28	147.2586	-2.58	7-14	R	0	
-145.8166	-2.02	6-13	R25	146.1697	-3.28	1-5	O54	-146.4634	-1.17	1-4	R15	146.7857	-.96	1-4	R26	147.2600	-2.10	7-14	R	4		
145.8168	-.59	1-5	P47	146.1765	-.22	1-5	O54	-146.4652	-1.11	2-6	R40	146.7930	-.75	1-4	Q22	147.2601	-2.11	8-16	R	4		
145.8169	-1.41	2-6	P22	146.1768	-2.43	5-11	P21	146.4752	-1.04	1-4	Q11	-146.7944	-.81	2-6	Q41	-147.2628	-.83	1-4	R36			
145.8222	-2.43	5-11	R18	146.1790	-1.75	8-17	P24	146.4798	-1.56	1-4	P	8	146.7960	-2.52	4-9	Q25	-147.2636	-.59	1-4	Q32		
145.8231	-1.73	8-17	R22	146.1795	-3.19	4-9	R	9	146.4768	-3.08	4-9	P15	146.7961	-1.67	10-21	Q11	147.2639	-2.41	8-16	Q	1	
145.8248	-2.24	5-11	Q15	146.1796	-3.93	4-9	R	3	146.4772	-2.87	4-9	R21	146.8051	-2.08	10-21	P10	147.2661	-2.04	7-14	R	5	
145.8264	-1.50	8-17	Q20	146.1797	-3.19	4-9	Q	5	146.4841	-1.15	1-4	R16	-146.8080	-1.16	2-6	P38	147.2664	-2.40	7-14	Q	1	
-145.8265	-1.24	2-6	R29	146.1813	-.92	2-6	Q32	-146.8086	-.19	1-5	Q57	146.8090	-1.15	1-4	P19	147.2675	-2.04	8-16	R	5		
-145.8321	-1.51	3-8	P36	146.1910	-1.28	2-6	P29	146.4888	-2.66	4-9	Q18	-146.8121	-.17	1-5	O60	147.2688	-2.18	8-16	Q	2		
145.8366	-2.65	5-11	P13	146.1914	-3.12	4-9	Q	0	146.4951	-1.01	1-4	Q12	146.8131	-1.86	10-21	R13	147.2707	-1.78	10-21	P19		
-145.8385	-.51	1-5	R54	146.1928	-1.39	8-17	Q26	146.4978	-1.50	1-4	P	9	146.8252	-.94	1-4	R27	147.2714	-2.18	7-14	Q	2	
145.8474	-1.56	7-15	Q24	146.1934	-3.15	4-9	R	10	-146.5023	-.85	2-6	Q37	146.8327	-.73	1-4	Q23	-147.2721	-2.40	4-9	Q33		
145.8482	-1.78	6-13	Q23	146.1936	-3.75	4-9	R	1	146.5064	-1.13	1-4	R17	146.8337	-1.64	10-21	Q12	147.2744	-1.98	7-14	R	6	
145.8490	-1.93	7-15	P22	-146.2012	-.56	1-5	P51	-146.5090	-.53	1-5	P54	146.8350	-2.89	4-9	P23	147.2766	-2.04	8-16	Q	3		
145.8569	-2.41	5-11	R19	146.2037	-2.04	5-11	Q24	146.5145	-3.05	4-9	P16	-146.8353	-1.06	2-6	R45	147.2773	-1.98	8-16	R	6		
-145.8589	-1.00	2-6	Q26	146.2053	-3.05	4-9	Q	7	-146.5147	-1.21	2-6	P34	-146.8363	-.51	1-5	P57	147.2784	-2.04	7-14	Q	3	
145.8609	-2.21	5-11	Q16	-146.2058	-1.15	2-6	R36	146.5156	-2.85	4-9	R22	-146.8384	-2.74	4-9	R29	147.2793	-2.88	8-16	P	2		
145.8616	-2.15	6-13	P21	146.2093	-3.12	4-9	R11	146.5177	-.97	1-4	Q13	146.8442	-2.04	10-21	P11	147.2820	-2.88	7-14	P	2		
145.8648	-1.39	2-6	P23	146.2093	-3.63	4-9	P	5	146.5210	-1.45	1-4	P10	146.8480	-2.51	4-9	Q26	147.2853	-1.93	7-14	R	7	
145.8694	-1.86	8-17	P19	146.2212	-3.00	4-9	Q	8	146.5236	-2.32	5-11	P27	146.8495	-1.13	1-4	P20	147.2864	-1.93	8-16	Q	4	
145.8708	-2.00	6-13	R26	146.2255	-2.03	6-13	P27	146.5265	-2.64	4-9	Q19	146.8529	-1.83	10-21	R14	147.2874	-1.93	7-14	Q	7		
145.8724	-2.62	5-11	P14	146.2271	-3.08	4-9	R12	146.5305	-1.10	1-4	R18	146.8668	-.93	1-4	R28	147.2895	-1.93	8-16	Q	7		
-145.8749	-1.22	2-6	R30	146.2272	-3.53																	

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
147.3988	-1.56	8-16	Q10	147.6264	-1.73	7-14	P15	147.8305	-1.47	7-14	R24	148.0444	-0.66	0-2	R23	148.1658	-2.32	10-20	R 3	148.1658	-2.32	10-20	R 3	148.1658	-2.32	10-20	R 3
147.3995	-1.70	7-14	R13	147.6273	-0.98	2-6	R54	147.8318	-1.78	6-12	P14	148.0446	-1.91	5-10	R 8	148.1688	-4.41	0-2	Q22	148.1688	-4.41	0-2	Q22	148.1688	-4.41	0-2	Q22
147.4102	-1.73	10-21	P21	147.6281	-2.22	9-18	P 6	147.8353	-0.78	0-2	Q 9	148.0450	-1.96	5-10	Q 4	148.1688	-2.66	2-5	R16	148.1688	-2.66	2-5	R16	148.1688	-2.66	2-5	R16
147.4105	-0.93	1-4	P31	147.6312	-0.52	1-4	Q38	147.8371	-1.63	8-16	P19	148.0452	-2.91	2-5	R 8	148.1693	-1.28	9-18	Q21	148.1693	-1.28	9-18	Q21	148.1693	-1.28	9-18	Q21
147.4155	-1.71	8-16	R13	147.6326	-1.56	8-16	R19	147.8379	-1.36	0-2	P 6	148.0455	-2.74	11-23	R 1	148.1701	-2.54	10-20	Q 1	148.1701	-2.54	10-20	Q 1	148.1701	-2.54	10-20	Q 1
147.4177	-1.52	7-14	Q11	147.6355	-1.84	9-18	R10	147.8399	-0.73	1-4	R45	148.0456	-2.92	11-23	R 0	148.1709	-2.01	5-10	P 9	148.1709	-2.01	5-10	P 9	148.1709	-2.01	5-10	P 9
147.4181	-1.98	7-14	P 9	147.6361	-0.76	1-4	R42	147.8407	-1.25	8-16	Q21	148.0459	-3.21	2-5	Q 2	148.1728	-1.52	9-18	R23	148.1728	-1.52	9-18	R23	148.1728	-1.52	9-18	R23
147.4211	-1.98	8-16	P 9	147.6393	-1.69	9-18	Q 8	147.8411	-0.49	1-4	Q41	148.0473	-1.64	6-12	P19	148.1731	-1.68	5-10	R15	148.1731	-1.68	5-10	R15	148.1731	-1.68	5-10	R15
147.4252	-0.47	1-5	P62	147.6402	-1.74	8-16	P15	147.8464	-0.83	0-2	R15	148.0503	-2.61	11-23	R 2	148.1733	-2.24	10-20	R 4	148.1733	-2.24	10-20	R 4	148.1733	-2.24	10-20	R 4
147.4260	-1.52	7-14	Q11	147.6403	-1.54	7-14	R20	147.8513	-1.74	0-2	Q10	148.0511	-3.07	2-5	Q 3	148.1759	-2.32	10-20	Q 2	148.1759	-2.32	10-20	Q 2	148.1759	-2.32	10-20	Q 2
147.4268	-1.68	8-16	R14	147.6407	-1.72	6-12	R13	147.8525	-1.84	9-18	P13	148.0532	-2.44	11-23	Q 1	148.1774	-0.68	2-6	Q56	148.1774	-0.68	2-6	Q56	148.1774	-0.68	2-6	Q56
147.4344	-1.00	2-6	R52	147.6419	-1.57	6-12	Q10	147.8558	-1.28	0-2	P 7	148.0544	-2.87	2-5	R 9	148.1776	-2.51	2-5	Q12	148.1776	-2.51	2-5	Q12	148.1776	-2.51	2-5	Q12
147.4406	-0.55	1-4	Q35	147.6443	-1.34	8-16	Q17	147.8571	-1.35	6-12	Q17	148.0548	-2.61	5-10	P 3	148.1783	-3.01	2-5	P 9	148.1783	-3.01	2-5	P 9	148.1783	-3.01	2-5	P 9
147.4431	-1.79	1-4	R39	147.6462	-2.05	6-12	P 8	147.8573	-1.23	7-14	Q22	148.0553	-1.87	5-10	Q 5	148.1785	-0.60	0-2	R27	148.1785	-0.60	0-2	R27	148.1785	-0.60	0-2	R27
147.4452	-1.68	8-16	R14	147.6524	-2.14	9-18	P 7	147.8626	-1.55	6-12	R20	148.0567	-1.33	9-18	Q19	148.1820	-1.20	6-12	Q24	148.1820	-1.20	6-12	Q24	148.1820	-1.20	6-12	Q24
147.4460	-1.48	7-14	Q12	147.6601	-1.80	9-18	R11	147.8626	-0.70	2-6	Q53	148.0573	-1.87	5-10	R 9	148.1829	-2.18	11-23	R 9	148.1829	-2.18	11-23	R 9	148.1829	-2.18	11-23	R 9
147.4470	-1.93	7-14	P10	147.6632	-1.64	9-18	Q 9	147.8647	-1.60	7-14	P20	148.0573	-0.91	0-2	P15	148.1829	-2.44	11-23	P 7	148.1829	-2.44	11-23	P 7	148.1829	-2.44	11-23	P 7
147.4514	-1.93	8-16	P10	147.6634	-1.31	7-14	Q18	147.8653	-1.80	0-2	R16	148.0582	-2.96	2-5	Q 4	148.1834	-2.17	10-20	R 5	148.1834	-2.17	10-20	R 5	148.1834	-2.17	10-20	R 5
147.4562	-1.49	8-16	Q12	147.6650	-0.72	2-6	Q51	147.8666	-1.43	9-18	Q15	148.0589	-1.40	7-14	R28	148.1848	-2.17	10-20	Q 3	148.1848	-2.17	10-20	Q 3	148.1848	-2.17	10-20	Q 3
147.4564	-1.65	7-14	R15	147.6657	-1.69	6-12	R14	147.8667	-1.64	9-18	R17	148.0591	-3.91	2-5	P 2	148.1853	-1.51	5-10	Q12	148.1853	-1.51	5-10	Q12	148.1853	-1.51	5-10	Q12
147.4684	-2.72	4-9	P33	147.6660	-1.53	6-12	Q11	147.8689	-0.70	0-2	Q11	148.0598	-1.56	9-18	R21	148.1854	-3.02	10-20	P 2	148.1854	-3.02	10-20	P 2	148.1854	-3.02	10-20	P 2
147.4722	-0.91	1-4	P32	147.6693	-1.70	7-14	P16	147.8705	-1.75	6-12	P15	148.0601	-2.52	11-23	R 3	148.1870	-1.99	11-23	Q 8	148.1870	-1.99	11-23	Q 8	148.1870	-1.99	11-23	Q 8
147.4763	-1.45	7-14	Q13	147.6717	-1.99	6-12	P 9	147.8756	-1.21	0-2	P 8	148.0606	-2.52	11-23	Q 2	148.1871	-1.79	1-4	P42	148.1871	-1.79	1-4	P42	148.1871	-1.79	1-4	P42
147.4764	-0.73	2-6	Q49	147.6777	-1.54	8-16	R20	147.8795	-0.84	1-4	P38	148.0650	-2.44	11-23	R 4	148.1923	-2.63	2-5	R17	148.1923	-2.63	2-5	R17	148.1923	-2.63	2-5	R17
147.4776	-1.65	8-16	R15	147.6786	-0.87	1-4	P35	147.8802	-1.04	2-6	P50	148.0655	-2.83	2-5	R10	148.1946	-1.01	2-6	P53	148.1946	-1.01	2-6	P53	148.1946	-1.01	2-6	P53
147.4782	-1.88	7-14	P11	147.6791	-2.07	9-18	P 8	147.8843	-1.45	7-14	R25	148.0660	-0.46	1-4	Q44	148.1966	-1.43	6-12	R27	148.1966	-1.43	6-12	R27	148.1966	-1.43	6-12	R27
147.4840	-1.88	8-16	P11	147.6806	-1.06	2-6	P48	147.8857	-0.78	0-2	R17	148.0670	-2.87	2-5	Q 5	148.1965	-2.07	10-20	Q 4	148.1965	-2.07	10-20	Q 4	148.1965	-2.07	10-20	Q 4
147.4883	-1.63	7-14	R16	147.6849	-1.52	7-14	R21	147.8879	-0.66	0-2	Q12	148.0674	-0.47	0-2	Q19	148.1966	-2.12	10-20	R 6	148.1966	-2.12	10-20	R 6	148.1966	-2.12	10-20	R 6
147.4888	-1.45	8-16	Q13	147.6855	-1.71	8-16	P16	147.8926	-1.60	8-16	P20	148.0676	-1.80	5-10	Q 6	148.1968	-0.80	0-2	P19	148.1968	-0.80	0-2	P19	148.1968	-0.80	0-2	P19
147.4907	-1.08	2-6	P46	147.6879	-1.77	9-18	R12	147.8958	-1.80	9-18	P14	148.0683	-3.22	11-23	P 2	148.1975	-1.96	5-10	P10	148.1975	-1.96	5-10	P10	148.1975	-1.96	5-10	P10
147.5035	-0.54	1-4	Q36	147.6896	-1.32	8-16	Q18	147.8964	-1.32	6-12	Q18	148.0691	-2.43	5-10	P 4	148.1989	-2.72	10-20	P 3	148.1989	-2.72	10-20	P 3	148.1989	-2.72	10-20	P 3
147.5035	-0.78	1-4	R40	147.6904	-1.60	9-18	Q10	147.8966	-1.23	8-16	Q22	148.0707	-3.61	2-5	P 3	148.2005	-2.48	2-5	Q13	148.2005	-2.48	2-5	Q13	148.2005	-2.48	2-5	Q13
147.5090	-1.42	7-14	Q14	147.6923	-1.49	6-12	Q12	147.8967	-1.16	0-2	P 9	148.0719	-1.83	5-10	R10	148.2020	-1.66	5-10	R16	148.2020	-1.66	5-10	R16	148.2020	-1.66	5-10	R16
147.5110	-2.29	6-12	R 2	147.6928	-1.66	6-12	R15	147.9033	-1.53	6-12	R21	148.0723	-0.68	2-6	Q55	148.2025	-2.96	2-5	P10	148.2025	-2.96	2-5	P10	148.2025	-2.96	2-5	P10
147.5116	-1.84	7-14	P12	147.6992	-1.94	6-12	P10	147.9078	-0.76	0-2	R18	148.0731	-2.37	11-23	Q 3	148.2041	-1.57	6-12	P22	148.2041	-1.57	6-12	P22	148.2041	-1.57	6-12	P22
147.5119	-2.19	6-12	R 3	147.6996	-0.51	1-4	Q39	147.9088	-0.63	0-2	Q13	148.0755	-1.54	8-16	P23	148.2060	-0.39	0-2	Q23	148.2060	-0.39	0-2	Q23	148.2060	-0.39	0-2	Q23
147.5123	-2.42	6-12	R 1	147.7054	-0.75	1-4	R43	147.9102	-1.40	9-18	R16	148.0770	-0.71	1-4	R48	148.2107	-1.50	8-16	P25	148.2107	-1.50	8-16	P25	148.2107	-1.50	8-16	P25
147.5126	-1.63	8-16	R16	147.7079	-1.29	7-14	Q19	147.9102	-1.62	9-18	R18	148.0775	-2.80	2-5	Q 6	148.2112	-1.64	9-18	P20	148.2112	-1.64	9-18	P20	148.2112	-1.64	9-18	P20
147.5150	-2.11	6-12	R 4	147.7085	-2.01	9-18	P 9	147.9104	-1.21	7-14	Q23	148.0779	-1.24	6-12	Q22	148.2126	-1.98	10-20	Q 5	148.2126	-1.98	10-20	Q 5	148.2126	-1.98	10-20	Q 5
147.5160	-2.59	6-12	R 0	147.7147	-1.68	7-14	P17	147.9114	-1.72	6-12	P16	148.0783	-2.80	2-5	Q11	148.2121	-1.48	5-10	Q13	148.2121	-1.48	5-10	Q13	148.2121	-1.48	5-10	Q13
147.5190	-1.84	8-16	P12	147.7181	-1.74	9-18	R13	147.9146	-0.48	1-4	Q42	148.0814	-0.64	0-2	R24	148.2127	-2.07	10-20	R 7	148.2127	-2.07	10-20	R 7	148.2127	-2.07	10-20	R 7
147.5201	-2.05	6-12	R 5	147.7201	-1.56	9-18	Q11	147.9194	-1.10	0-2	P10	148.0820	-1.73	5-10	Q 7	148.2155	-2.54	10-20	P 4	148.2155	-2.54	10-20	P 4	148.2155	-2.54	10-20	P 4
147.5225	-1.60	7-14	R17	147.7208	-1.46	6-12	Q13	147.9203	-1.58	7-14	P21	148.0834	-2.92	11-23	P 3	148.2171	-2.14	11-23	Q10	148.2171	-2.14	11-23	Q10	148.2171	-2.14	11-23	Q10
147.5239	-1.42	8-16	Q14	147.7223	-1.64	6-12	R16	147.9222	-0.72	1-4	R46	148.0842	-3.44	2-5	P 4	148.2173	-0.58	0-2	R28	148.2173	-0.58	0-2	R28	148.2173	-0.58	0-2	R28
147.5239	-2.42	6-12	Q 2	147.7240	-0.97	2-6	R55	147.9312	-0.60	0-2	Q14	148.0843	-2.37	11-													

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
148.3188	-0.74	0	2	P22	148.5692	-2.44	2	5	R28	148.8782	-1.61	4	8	Q10	149.3823	-1.93	1	3	R 9	149.5554	-1.95	7	13	Q 3
148.3198	-1.53	6	12	P24	148.5697	-0.40	1	4	O50	148.8818	-1.73	4	8	R14	149.3832	-2.02	8	15	R 5	149.5563	-1.55	4	8	P25
148.3244	-0.68	1	4	R51	148.5698	-2.22	2	5	O24	148.8849	-2.50	2	5	P27	149.3847	-2.17	8	15	Q 2	149.5577	-1.18	4	8	O28
148.3251	-1.80	5	10	P14	148.5702	-1.70	11	23	Q16	148.8890	-0.55	0	2	P33	149.3849	-2.38	2	5	P35	149.5596	-1.84	7	13	R 7
148.3280	-0.33	0	2	Q26	148.5704	-1.94	11	23	R17	148.8906	-1.74	10	20	P20	149.3858	-2.13	1	3	Q 3	149.5598	-1.80	9	17	Q 7
148.3308	-1.70	10	20	Q10	148.5735	-1.50	10	20	Q16	148.8914	-2.09	4	8	P 8	149.3891	-1.96	8	15	R 6	149.5600	-2.79	7	13	P 2
148.3342	-1.57	5	10	R20	148.5741	-1.18	9	18	Q27	148.8956	-0.71	1	4	P50	149.3900	-1.41	5	10	P33	149.5610	-1.97	1	3	P11
148.3365	-2.53	2	5	R22	148.5766	-1.46	6	12	P28	148.8996	-1.57	4	8	Q11	149.3917	-1.90	1	3	R10	149.5646	-1.84	7	13	Q 4
148.3384	-1.87	10	20	R12	148.5782	-1.63	5	10	P20	148.9051	-1.70	4	8	R15	149.3925	-2.02	8	15	Q 3	149.5668	-1.91	8	15	P10
148.3394	-1.60	9	18	P22	148.5847	-2.61	2	5	P21	148.9066	-1.51	5	10	P26	149.3926	-2.02	1	3	Q 2	149.5674	-1.47	7	13	Q12
148.3407	-0.54	0	2	R31	148.5897	-1.46	5	10	R26	148.9151	-2.03	4	8	P 9	149.3945	-2.97	1	3	P 4	149.5723	-1.79	7	13	R 8
148.3414	-2.34	2	5	Q18	148.5898	-1.72	10	20	R18	148.9217	-2.11	2	5	Q31	149.3954	-2.87	8	15	P 2	149.5725	-2.49	7	13	P 3
148.3421	-1.37	5	10	Q17	148.5930	-1.24	5	10	Q23	148.9217	-2.34	2	5	R35	149.4009	-1.93	1	3	Q 5	149.5728	-1.90	9	17	R10
148.3425	-2.22	11	23	P11	148.5958	-1.87	10	20	P15	148.9230	-1.54	4	8	Q12	149.4012	-1.91	8	15	R 7	149.5731	-2.28	9	17	P 6
148.3433	-2.12	10	20	P 9	148.6021	-1.40	7	14	P31	148.9262	-1.38	5	10	R32	149.4020	-1.91	8	15	Q 4	149.5748	-1.48	1	3	Q15
148.3437	-2.04	11	23	R13	148.6042	-0.63	0	2	P28	148.9267	-1.14	5	10	Q29	149.4021	-0.67	1	4	P55	149.5758	-1.99	2	5	Q41
148.3466	-1.82	11	23	Q12	148.6076	-0.74	1	4	P47	148.9305	-1.68	4	8	R16	149.4023	-1.61	4	8	P22	149.5761	-1.75	7	13	Q 5
148.3494	-2.77	2	5	P15	148.6102	-0.25	0	2	Q32	148.9409	-1.98	4	8	P10	149.4031	-1.86	1	3	R11	149.5809	-1.63	1	3	R20
148.3516	-1.15	6	12	Q27	148.6141	-2.20	2	5	Q25	148.9414	-2.98	2	5	P28	149.4043	-1.23	4	8	Q25	149.5811	-1.75	9	17	Q 8
148.3533	-0.77	1	4	P44	148.6157	-2.42	2	5	R29	148.9448	-0.37	1	4	Q54	149.4065	-2.67	1	3	P 3	149.5822	-1.64	8	15	R15
148.3576	-1.10	7	14	Q30	148.6245	-1.48	10	20	P17	148.9483	-1.50	4	8	Q13	149.4086	-2.57	8	15	P 3	149.5871	-1.75	7	13	R 9
148.3583	-1.23	9	18	Q24	148.6293	-1.52	9	18	Q26	148.9590	-1.72	10	20	P21	149.4107	-1.86	1	3	Q 6	149.5874	-1.93	1	3	P12
148.3625	-1.76	5	10	P15	148.6297	-1.61	5	10	P21	148.9608	-1.66	4	8	R17	149.4143	-1.83	8	15	Q 5	149.5876	-2.31	7	13	P 4
148.3628	-0.72	0	2	P23	148.6301	-2.59	2	5	P22	148.9685	-1.93	4	8	P11	149.4155	-1.87	8	15	R 8	149.5897	-1.68	7	13	Q 6
148.3630	-1.34	5	10	Q18	148.6307	-2.04	11	23	P16	148.9693	-1.50	5	10	P27	149.4162	-1.83	1	3	R12	149.5929	-2.24	2	5	R45
148.3636	-1.66	10	20	Q11	148.6366	-1.67	11	23	Q17	148.9756	-1.47	4	8	Q14	149.4198	-2.50	1	3	P 4	149.5966	-1.87	9	17	R11
148.3651	-1.47	9	18	R26	148.6414	-0.98	2	5	P57	148.9795	-2.10	2	5	Q32	149.4223	-1.80	1	3	Q 7	149.5970	-2.20	9	17	P 7
148.3665	-1.55	5	10	R21	148.6427	-1.70	10	20	R19	148.9810	-2.33	2	5	R36	149.4243	-2.39	8	15	P 4	149.5972	-1.40	4	8	R32
148.3708	-2.51	2	5	R23	148.6439	-1.22	5	10	Q24	148.9835	-1.63	4	8	R18	149.4289	-2.01	2	5	Q39	149.5995	-1.87	8	15	P11
148.3727	-1.84	10	20	R13	148.6474	-1.45	5	10	R27	148.9892	-1.37	5	10	R33	149.4295	-1.75	8	15	Q 6	149.5997	-1.44	7	13	P 8
148.3728	-1.45	7	14	P28	148.6486	-1.45	6	12	P29	148.9901	-1.13	5	10	Q30	149.4310	-1.80	1	3	R13	149.6015	-1.46	1	3	Q16
148.3731	-0.32	0	2	Q27	148.6486	-1.84	10	20	P16	148.9926	-1.13	1	4	P51	149.4322	-1.83	8	15	R 9	149.6042	-1.71	7	13	R10
148.3750	-2.32	2	5	P19	148.6588	-0.61	0	2	P29	148.9982	-1.89	4	8	P12	149.4347	-1.44	4	8	R29	149.6046	-1.70	9	17	Q 9
148.3778	-2.07	10	20	Q10	148.6604	-2.19	2	5	Q26	149.0001	-2.67	2	5	P29	149.4352	-2.37	1	3	P 5	149.6049	-2.19	7	13	P 5
148.3803	-1.51	6	12	P25	148.6623	-0.39	1	4	O51	149.0053	-1.44	4	8	Q15	149.4356	-1.74	1	3	Q 8	149.6058	-1.62	7	13	Q 7
148.3841	-2.74	2	5	P16	148.6623	-2.41	2	5	R30	149.0155	-1.61	4	8	R19	149.4418	-2.27	8	15	P 5	149.6063	-2.34	2	5	P38
148.3920	-2.18	11	23	P12	148.6774	-2.57	2	5	P23	149.0298	-1.86	4	8	P13	149.4442	-2.26	2	5	R43	149.6090	-1.61	1	3	R21
148.3946	-2.01	11	23	R14	148.6790	-1.45	10	20	Q18	149.0309	-1.42	4	8	Q16	149.4467	-1.69	8	15	Q 7	149.6156	-1.61	8	15	R16
148.3950	-0.42	1	4	Q48	148.6812	-1.59	5	10	P22	149.0345	-1.48	5	10	P28	149.4472	-1.77	1	3	R14	149.6158	-1.90	1	3	P13
148.3964	-1.79	11	23	Q13	148.6924	-1.43	5	10	R28	149.0347	-2.09	2	5	Q33	149.4505	-1.70	1	3	Q 9	149.6187	-1.54	4	8	P26
148.3995	-1.62	10	20	Q12	148.6962	-1.20	5	10	Q25	149.0418	-2.32	2	5	R37	149.4519	-2.28	1	3	P 6	149.6189	-1.16	4	8	Q29
148.4031	-1.73	5	10	P16	148.6999	-2.01	11	23	P17	149.0486	-1.59	4	8	R20	149.4522	-1.79	8	15	R10	149.6229	-1.83	9	17	R12
148.4068	-2.50	2	5	R24	148.7045	-1.82	10	20	P17	149.0560	-1.11	5	10	Q31	149.4540	-1.59	4	8	P23	149.6230	-2.13	9	17	P 8
148.4076	-1.58	9	18	P23	148.7069	-0.73	1	4	P48	149.0597	-2.45	2	5	P30	149.4564	-1.21	4	8	Q26	149.6235	-1.68	7	13	R11
148.4079	-1.53	5	10	R22	148.7084	-2.17	2	5	Q27	149.0632	-1.39	4	8	Q17	149.4594	-2.37	2	5	P36	149.6241	-1.56	7	13	Q 8
148.4081	-0.67	1	4	R52	148.7086	-1.50	9	18	P27	149.0634	-1.82	4	8	P14	149.4627	-2.17	8	15	P 6	149.6244	-2.09	7	13	P 6
148.4087	-0.70	0	2	P24	148.7097	-1.65	11	23	Q18	149.0637	-1.57	4	8	R21	149.4654	-1.74	1	3	R15	149.6297	-1.43	1	3	Q17
148.4100	-1.82	10	20	R14	148.7145	-0.60	0	2	P30	149.0924	-0.70	1	4	P52	149.4673	-1.65	1	3	Q10	149.6300	-1.66	9	17	Q10
148.4104	-2.30	2	5	Q20	148.7146	-2.39	2	5	R31	149.0965	-2.07	2	5	Q34	149.4678	-1.64	8	15	Q 8	149.6340	-1.40	8	15	Q14
148.4123	-1.32	5	10	Q19	148.7222	-1.43	6	12	P30	149.0989	-1.79	4	8	P15	149.4695	-1.39	5	10	P34	149.6354	-1.83	8	15	P12
148.4144	-1.00	2	5	P65	148.7265	-2.55	2	5	P24	149.1039	-1.37	4	8	Q18	149.4702	-2.20	1	3	P 7	149.6389	-1.59	1	3	R22
148.4153	-2.02	10	20	P11	148.7297	-1.57	5	10	Q23	149.1054	-2.31	2	5	R38	149.4708	-1.75	8	15	R11	149.6448	-1.51	7	13	Q 9
148.4173	-1.14	6	12	Q28	148.7362	-1.43	10	20	P19	149.1086	-1.46	5	10	P29	149.4782	-2.38	9	17	R 2	149.6453	-1.64	7	13	R12
148.4206	-2.71	2	5	P17	148.7462	-1.42	5	10	Q29	149.1211	-1.10	5	10	Q32	149.4789	-2.50	9	17	R 1	149.6459	-1.86	1	3	P14
148.4241	-0.30	0	2	Q28	148.7507	-1.19	5	10	R26	149.1213	-1.55	4	8	Q22	149.4811	-2.28	9	17	R 3	149.6461	-2.01	7	13	P 7
148.4278	-1.21	9	18	Q25	148.7535	-0.38	1	4	O52	149.1229	-2.44	2	5	P31	149.4812	-2.68	9	17	Q 1	149.6519	-1.59	8	15	R17
148.4384	-1.59	10	20	Q13	148.7579	-2.24	4	8	R 3	149.1365	-1.76													

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
149.7620	-2.07	3	6	R 6	149.9520	-2.03	6-11	R 3	150.1591	-1.30	6-11	Q13	-150.5644	-2.23	2-5	P49	-150.8896	-1.37	3-6	R38					
149.7621	-2.37	3	6	R 2	149.9534	-2.25	6-11	R 1	-150.1598	-1.56	3-6	R24	150.5676	-1.38	7-13	P27	-150.8916	-1.50	3-6	P31					
149.7622	-1.52	9-17	Q14		149.9546	-1.95	6-11	R 4	150.1618	-1.77	3-6	P17	-150.5745	-1.20	3-6	Q29	150.8924	-2.27	11-21	Q 9					
149.7627	-2.20	3	6	R 4	149.9561	-1.51	3	6	Q14	150.1715	-1.73	6-11	P11	-150.5853	-1.43	3	6	R33	150.8949	-1.35	5-9	R19			
-149.7646	-2.32	2-5	P40		149.9573	-2.43	6-11	R 0	150.1757	-1.12	7-13	Q23	150.5869	-1.43	6-11	P21	150.9009	-2.71	11-21	P 8					
149.7651	-2.50	3	6	R 1	149.9593	-1.89	6-11	R 5	150.1761	-1.16	8-15	Q25	-150.5893	-1.58	3-6	Q26	150.9023	-1.60	5-9	P13					
149.7652	-2.13	3	6	R 5	149.9602	-1.25	1-3	Q26	150.1798	-2.18	2-5	R52	150.6099	-1.04	6-11	Q24	150.9051	-2.44	11-21	R11					
149.7697	-2.67	3	6	R 0	149.9605	-1.67	3-6	R18	150.1819	-1.52	8-15	P23	150.6230	-1.98	5-9	R 3	150.9114	-1.16	5-9	Q16					
149.7740	-2.02	3	6	R 7	149.9654	-2.25	6-11	Q 1	150.1820	-1.45	6-11	R17	150.6234	-2.07	5-9	R 2	150.9250	-2.23	11-21	Q10					
149.7758	-1.53	1-3	R26		149.9662	-1.83	6-11	R 6	-150.1887	-2.27	2-5	P45	-150.6242	-1.88	2-5	Q53	150.9293	-1.33	5-9	R20					
149.7760	-1.52	8-15	R20		149.9697	-2.03	6-11	Q 2	150.1892	-1.27	6-11	Q14	150.6249	-1.90	5-9	R 4	-150.9324	-1.86	2-5	Q56					
149.7781	-2.50	3	6	Q 1	149.9703	-1.98	3-6	P11	150.1908	-1.56	1-3	P27	150.6256	-2.20	5-9	R 1	150.9344	-2.65	11-21	P 9					
149.7819	-2.28	3	6	Q 2	149.9752	-1.78	6-11	R 7	150.1934	-1.49	7-13	P21	-150.6274	-1.19	3-6	Q30	150.9370	-1.56	5-9	P14					
149.7819	-1.33	7-13	Q14		149.9762	-1.89	6-11	Q 3	150.1937	-1.34	7-13	R26	150.6286	-1.83	5-9	R 5	-150.9378	-1.12	3-6	Q35					
-149.7821	-1.37	4-8	R35		149.9763	-1.45	8-15	R24	150.1961	-1.34	3-6	Q21	150.6298	-2.37	5-9	R 0	150.9393	-2.41	11-21	R12					
149.7831	-1.74	1-3	P18		149.9774	-1.20	7-13	Q19	-150.1993	-1.54	3-6	R25	150.6321	-1.56	9-17	P27	150.9432	-1.32	6-11	P27					
149.7831	-1.98	3	6	R 8	-149.9779	-1.94	2-5	Q46	150.2014	-1.69	6-11	P12	150.6345	-1.77	5-9	R 6	150.9459	-1.13	5-9	Q17					
149.7873	-2.13	3	6	Q 3	149.9788	-1.78	9-17	P17	150.2025	-1.74	3-6	P18	150.6381	-2.20	5-9	Q 1	-150.9559	-1.36	3-6	R39					
149.7885	-1.51	7-13	R17		149.9805	-1.62	9-17	R21	150.2070	-1.68	9-17	P21	150.6394	-1.36	7-13	Q28	-150.9577	-1.48	3-6	P32					
149.7896	-1.75	7-13	P12		149.9818	-2.73	6-11	P 2	150.2109	-1.55	9-17	R25	150.6406	-1.41	6-11	P22	150.9607	-2.19	11-21	Q11					
149.7940	-1.93	3	6	R 9	149.9847	-1.78	6-11	Q 4	150.2153	-1.43	6-11	R18	150.6422	-1.98	5-9	Q 2	150.9644	-1.34	0-1	R 4					
149.7947	-1.90	9-17	P13		149.9863	-1.73	6-11	R 8	150.2160	-1.31	9-17	Q23	150.6423	-1.72	5-9	R 7	150.9648	-1.42	0-1	R 3					
149.7947	-2.02	3	6	Q 4	149.9879	-1.39	9-17	Q19	150.2221	-1.24	6-11	Q15	150.6424	-1.42	3-6	R34	150.9658	-1.31	5-9	R21					
149.7947	-1.70	9-17	R17		149.9892	-1.65	3-6	R19	-150.2284	-1.40	4-8	P35	-150.6457	-1.56	3-6	P27	150.9658	-1.27	0-1	R 5					
149.7949	-2.98	3	6	P 2	149.9898	-1.48	3-6	Q15	-150.2298	-1.05	4-8	Q38	150.6484	-1.83	5-9	Q 3	150.9665	-1.51	0-1	R 2					
149.7955	-1.30	8-15	Q18		149.9899	-1.41	7-13	R22	150.2316	-1.10	7-13	Q24	150.6522	-1.67	5-9	R 8	150.9685	-1.21	0-1	R 6					
149.7963	-1.32	1-3	Q22		149.9905	-1.59	7-13	P17	150.2366	-1.32	3-6	Q22	150.6548	-2.67	5-9	P 2	150.9697	-1.64	0-1	R 1					
-149.7974	-1.49	4-8	R29		149.9925	-1.63	1-3	P23	150.2370	-1.65	6-11	P13	150.6563	-1.72	5-9	Q 4	150.9712	-2.60	11-21	P10					
149.7980	-1.69	8-15	P16		149.9943	-2.43	6-11	P 3	150.2405	-1.92	2-5	Q49	-150.6625	-2.14	2-5	R57	-150.9727	-2.20	2-5	P53					
149.8017	-1.49	9-17	Q15		149.9954	-1.69	6-11	Q 5	-150.2409	-1.53	3-6	R26	-150.6633	-2.22	2-5	P50	150.9732	-1.16	0-1	R 7					
-149.8044	-1.12	4-8	Q32		149.9979	-1.21	8-15	Q22	150.2446	-1.72	3-6	P19	150.6640	-1.63	5-9	R 9	150.9738	-1.53	5-9	P15					
149.8046	-1.93	3	6	Q 5	149.9996	-1.69	6-11	R 9	150.2451	-1.54	1-3	P28	150.6645	-1.02	6-11	Q25	150.9750	-1.81	0-1	R 0					
149.8069	-1.90	3-6	R10		150.0001	-1.93	3-6	P12	150.2470	-1.51	8-15	P24	150.6665	-1.63	5-9	Q 5	-150.9762	-2.12	2-5	R60					
149.8070	-2.67	3-6	P 3		150.0021	-2.20	2-5	R50	150.2501	-1.47	7-13	P22	150.6672	-2.37	5-9	P 3	150.9768	-2.38	11-21	R13					
149.8086	-1.83	3-6	R12		150.0021	-1.59	8-15	P20	150.2506	-1.41	6-11	R19	150.6780	-1.60	5-9	R10	150.9789	-1.12	0-1	R 8					
-149.8121	-1.96	2-5	Q44		-150.0052	-1.44	4-8	R32	150.2592	-1.21	6-11	Q16	150.6786	-1.56	5-9	Q 6	150.9825	-1.11	5-9	Q18					
149.8141	-1.51	1-3	R27		150.0059	-1.23	1-3	Q27	150.2709	-1.66	9-17	P22	150.6817	-2.20	5-9	P 4	150.9837	-1.64	0-1	Q 1					
149.8155	-1.86	3	6	Q 6	-150.0064	-1.08	4-8	R35	-150.2727	-2.17	2-5	R53	-150.6867	-1.18	3-6	Q31	150.9865	-1.07	0-1	R 9					
149.8165	-1.30	7-13	Q15		150.0084	-1.62	6-11	Q 6	150.2738	-1.62	6-11	P14	150.6928	-1.50	5-9	Q 7	150.9872	-1.42	0-1	Q 2					
149.8207	-1.80	3	6	Q 7	150.0089	-2.25	6-11	P 4	-150.2789	-2.26	2-5	P46	150.6939	-1.56	5-9	R11	150.9928	-1.27	0-1	Q 3					
149.8209	-2.50	3	6	P 4	-150.0124	-2.29	2-5	P43	150.2793	-1.30	3-6	Q23	150.6967	-1.39	6-11	P23	150.9952	-1.04	0-1	R10					
149.8215	-1.72	1-3	P19		150.0131	-1.65	6-11	R10	150.2806	-1.29	9-17	Q24	150.6980	-2.07	5-9	P 5	150.9996	-2.16	11-21	Q12					
149.8222	-1.51	8-15	R21		150.0145	-1.46	3-6	Q16	-150.2843	-1.51	3-6	R27	-150.7012	-1.41	3-6	R35	150.9998	-1.16	0-1	Q 4					
149.8226	-1.86	3-6	R11		150.0196	-1.63	3-6	R20	150.2878	-1.39	6-11	Q20	-150.7044	-1.54	3-6	P28	151.0013	-2.12	0-1	P 2					
149.8241	-1.49	7-13	R18		150.0235	-1.55	6-11	Q 7	150.2884	-1.70	3-6	P20	150.7090	-1.44	5-9	Q 8	151.0044	-1.29	5-9	R22					
149.8250	-1.71	7-13	P13		150.0236	-1.18	7-13	Q20	150.2889	-1.19	6-11	Q17	150.7119	-1.53	5-9	R12	-151.0051	-1.11	3-6	Q36					
-149.8330	-2.21	2-5	R48		150.0256	-2.13	6-11	P 5	150.2900	-1.08	7-13	Q25	150.7165	-1.98	5-9	P 6	151.0056	-1.00	0-1	R11					
149.8347	-1.30	1-3	Q23		150.0316	-1.75	9-17	P18	150.3006	-1.53	1-3	P29	150.7210	-1.01	6-11	Q26	151.0083	-1.07	0-1	Q 5					
149.8363	-1.87	9-17	P14		150.0323	-1.62	6-11	R11	-150.3053	-1.39	4-8	P36	-150.7258	-1.87	2-5	Q54	151.0107	-1.30	6-11	P28					
149.8367	-2.37	3-6	P 5		150.0325	-1.90	3-6	P13	-150.3082	-1.45	7-13	P23	150.7272	-1.40	5-9	Q 9	151.0117	-2.55	11-21	P11					
149.8368	-1.80	3-6	R13		150.0337	-1.60	9-17	R22	150.3121	-1.58	6-11	P15	150.7320	-1.40	5-9	R13	151.0126	-1.50	5-9	P16					
149.8376	-1.68	9-17	R18		150.0353	-1.86	3-6	P14	150.3145	-1.49	8-15	P25	150.7369	-1.90	5-9	P 7	151.0135	-1.81	0-1	P 3					
149.8411	-1.74	3-6	Q 8		150.0376	-1.39	7-13	R23	150.3236	-1.29	3-6	Q24	150.7416	-3.08	11-21	R 1	151.0176	-0.97	0-1	R12					
149.8423	-1.28	8-15	Q19		150.0377	-1.56	7-13	P18	150.3274	-1.37	6-11	R21	150.7426	-3.25	11-21	R 0	151.0178	-2.35	11-21	R14					
149.8442	-1.46	9-17	Q16		150.0395	-1.61	1-3	P24	150.3294	-1.16	6-11	Q18	150.7434	-2.95	11-21	R 2	151.0184	-1.00	0-1	Q 6					
-149.8444	-2.31	2-5	P41		150.0405	-1.37	9-17	Q20	150.3300	-1.50	3-6	R28	-150.7470	-1.16	3-6	Q32	151.0211	-1.08	5-9	Q19					
149.8454	-1.66	8-15	P17		150.0406	-1.50	6-11	Q 8	-150.3339	-1.91	2-5	Q50	150.7473	-1.35	5-9										

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ		
151.0998	-0.84	0	1	R17	151.3824	-0.65	0	1	R27	151.6337	-2.83	8-14	R	0	151.8154	-2.86	10-18	R	4	-152.0004	-1.33	3	6	P45		
151.1000	-1.27	0	1	P	8	151.3859	-2.32	11-21	P18	151.6344	-2.35	8-14	R	4	151.8177	-1.35	3	6	P43	152.0011	-1.98	9-16	R20	P		
151.1021	-2.47	11-21	P13	151.3873	-1.46	0	1	Q22	151.6344	-0.75	0	1	P24	151.8185	-3.17	10-18	Q	1	152.0044	-2.70	7-12	R	P			
151.1028	-2.49	2	4	P	5	151.3875	-0.89	0	1	P18	151.6358	-1.38	4	7	Q	8	151.8241	-2.94	10-18	Q	2	-152.0056	-1.50	2	4	R37
151.1034	-1.91	2	4	R13	151.3883	-1.91	2	4	P16	-151.6360	-1.58	2	4	R30	151.8243	-2.80	10-18	R	5	152.0060	-1.59	8-14	P17	Q		
151.1046	-1.04	5	9	Q21	-151.3891	-1.17	5	9	R30	151.6369	-2.28	9-16	R	9	151.8261	-1.10	4	7	Q16	152.0065	-1.96	7-12	Q	5		
151.1050	-1.86	2	4	Q	8	151.3896	-1.67	2	4	R24	151.6398	-1.24	5	9	P28	151.8261	-1.73	8-14	Q12	152.0077	-0.98	4	7	Q21		
151.1094	-2.30	11-21	P16	-151.3964	-1.41	3	6	P38	151.6405	-2.28	8-14	R	5	151.8263	-1.54	4	7	P13	-152.0111	-1.24	3	6	R52			
151.1108	-0.72	0	1	Q12	151.3973	-1.31	5	9	P24	151.6419	-2.65	8-14	Q	1	-151.8271	-1.26	3	6	R50	152.0121	-1.38	4	7	P18		
151.1202	-2.39	2	4	Q	6	-151.4019	-1.30	3	6	R45	-151.6419	-1.37	3	6	P41	151.8287	-1.27	4	7	R20	152.0128	-1.96	7-12	R	9	
151.1203	-1.81	2	4	Q	9	151.4051	-0.93	5	9	Q27	151.6432	-2.72	9-16	P	5	151.8290	-2.18	8-14	P10	152.0140	-1.98	8-14	P15	P		
151.1210	-1.88	2	4	R14	151.4058	-1.48	2	4	Q20	151.6470	-2.43	8-14	Q	2	151.8301	-0.68	0	1	P28	152.0153	-2.14	9-16	P16	P		
151.1210	-0.81	0	1	R18	151.4133	-0.64	0	1	R28	151.6471	-1.92	4	7	P	6	151.8303	-1.69	2	4	P26	-152.0159	-2.13	2	5	P62	
151.1223	-1.21	0	1	P	9	-151.4139	-2.16	2	5	P57	151.6477	-1.44	4	7	R13	151.8321	-2.06	9-16	R16	152.0168	-1.75	9-16	Q18	P		
151.1315	-0.68	0	1	Q13	151.4243	-0.44	0	1	Q23	-151.6478	-0.88	5	9	Q31	151.8327	-2.80	10-18	Q	3	-152.0177	-1.26	2	4	Q33		
151.1324	-1.24	5	9	R25	151.4245	-1.88	2	4	P17	151.6488	-2.23	8-14	R	6	151.8337	-1.90	8-14	R15	152.0192	-1.18	4	7	R25			
151.1360	-2.06	11-21	P15	151.4246	-0.86	0	1	P19	151.6489	-2.14	9-16	Q	7	151.8346	-3.64	10-18	P	2	152.0195	-2.53	7-12	P	4			
151.1378	-1.77	2	4	Q10	151.4262	-1.66	2	4	R25	-151.6493	-2.15	2	5	P59	-151.8353	-1.53	2	4	R34	152.0198	-1.89	7-12	Q	6		
151.1392	-2.31	2	4	P	7	151.4307	-1.94	11-21	Q20	151.6506	-1.36	2	4	Q26	151.8359	-2.74	10-18	R	6	152.0199	-2.69	10-18	P10	P		
151.1399	-1.86	2	4	R15	151.4421	-1.45	2	4	Q21	-151.6509	-1.28	3	6	R48	151.8402	-2.69	10-18	Q	4	152.0215	-1.79	8-14	R20	P		
151.1413	-1.42	5	9	P19	-151.4466	-1.16	5	9	R31	151.6528	-1.34	4	7	Q	9	151.8436	-2.28	9-16	P12	152.0275	-2.44	10-18	R14	P		
151.1437	-0.79	0	1	R19	-151.4518	-1.05	3	6	Q42	151.6542	-2.28	8-14	Q	3	-151.8440	-1.20	5	9	P31	152.0292	-1.92	7-12	R10	P		
151.1455	-1.16	0	1	P10	151.4527	-2.30	11-21	P19	151.6568	-2.24	9-16	R10	151.8466	-1.86	9-16	Q14	152.0310	-2.24	10-18	Q12	152.0310	-2.24	10-18	Q12	P	
-151.1460	-1.09	3	6	Q38	151.4547	-1.29	5	9	P25	151.6583	-3.13	8-14	P	2	151.8482	-3.34	10-18	P	3	152.0355	-1.83	7-12	Q	7		
151.1495	-1.02	5	9	Q22	151.4576	-0.62	0	1	R29	151.6597	-2.18	8-14	Q	7	151.8495	-1.30	2	4	Q30	152.0368	-2.40	7-12	P	5		
-151.1503	-1.84	2	5	P58	151.4603	-0.43	0	1	Q24	151.6635	-2.18	8-14	R	4	151.8502	-2.69	10-18	R	7	152.0477	-1.89	7-12	R11	P		
151.1521	-2.44	11-21	P14	151.4626	-1.86	2	4	P18	151.6641	-2.62	9-16	P	6	151.8557	-2.60	10-18	Q	5	152.0491	-1.56	8-14	Q18	P			
151.1536	-0.65	0	1	Q14	151.4628	-0.92	5	9	Q28	151.6670	-1.84	4	7	P	7	151.8572	-1.70	8-14	Q13	152.0500	-0.96	4	7	Q22		
151.1568	-1.73	2	4	Q11	151.4634	-0.84	0	1	P20	151.6678	-1.61	4	7	R14	151.8585	-1.07	4	7	Q17	152.0504	-1.96	9-16	R21	Q		
151.1599	-2.24	2	4	P	8	151.4646	-1.64	2	4	R26	151.6680	-0.34	0	1	Q29	151.8597	-1.50	4	7	P14	152.0535	-1.77	7-12	Q	8	
151.1604	-2.27	11-21	P17	-151.4767	-1.40	3	6	P39	151.6694	-2.09	9-16	Q	8	151.8612	-2.13	8-14	P11	152.0550	-1.36	4	7	P19	P			
151.1606	-1.83	2	4	R16	151.4803	-1.44	2	4	Q22	151.6716	-2.83	8-14	P	3	151.8624	-1.25	4	7	R21	152.0559	-2.64	10-18	P11	P		
151.1680	-0.77	0	1	R20	-151.4818	-1.29	3	6	R46	151.6719	-1.29	4	7	Q10	151.8649	-3.17	10-18	P	4	152.0564	-2.30	7-12	P	6		
-151.1682	-1.44	3	6	P35	-151.4903	-1.82	2	5	Q61	151.6731	-2.13	8-14	R	8	151.8663	-1.87	8-14	R16	152.0569	-1.63	2	4	P30			
-151.1702	-1.33	3	6	R42	151.5008	-0.41	0	1	Q25	151.6754	-2.09	8-14	Q	5	151.8667	-2.64	10-18	R	8	152.0582	-1.95	8-14	P16	P		
-151.1706	-1.12	0	1	P11	151.5023	-1.83	2	4	P19	151.6791	-1.75	2	4	P23	151.8705	-2.04	9-16	R17	152.0598	-1.17	4	7	R26			
151.1771	-1.69	2	4	Q12	151.5037	-0.81	0	1	P21	151.6796	-2.21	9-16	R11	151.8727	-2.53	10-18	Q	6	152.0641	-2.41	10-18	R15	P			
151.1773	-0.62	0	1	Q15	151.5045	-1.63	2	4	R27	151.6814	-0.74	0	1	P25	151.8800	-1.00	3	6	Q47	152.0648	-2.11	9-16	P17	P		
151.1794	-1.23	5	9	R26	-151.5068	-1.14	5	9	R32	-151.6837	-1.57	2	4	R31	151.8805	-3.04	10-18	P	5	152.0658	-1.73	9-16	P19	P		
151.1825	-2.19	2	4	P	9	151.5143	-1.28	5	9	P26	151.6870	-2.65	8-14	P	4	151.8827	-2.24	9-16	P13	-152.0660	-1.49	2	4	R38		
151.1831	-1.81	2	4	R17	151.5207	-1.42	2	4	Q23	151.6877	-2.54	9-16	P	7	151.8837	-0.67	0	1	P29	152.0671	-1.77	8-14	R21	P		
151.1881	-2.03	11-21	P14	151.5216	-0.90	5	9	Q29	151.6887	-1.77	4	7	P	8	151.8843	-1.67	2	4	P27	152.0676	-2.21	10-18	Q13	P		
151.1882	-1.40	5	9	P20	151.5231	-2.27	11-21	P20	151.6889	-2.09	8-14	R	9	151.8851	-1.83	9-16	Q15	-152.0682	-0.98	3	6	Q49	P			
-151.1897	-2.18	2	5	P55	-151.5303	-2.16	2	5	P58	151.6897	-2.02	8-14	Q	6	151.8866	-2.60	10-18	R	9	152.0686	-1.86	7-12	R12	P		
151.1938	-0.75	0	1	R21	-151.5335	-1.04	3	6	Q43	151.6898	-1.38	4	7	R15	-151.8906	-1.52	2	4	R35	-152.0690	-1.16	5	9	P34		
151.1964	-1.00	5	9	Q23	151.5401	-0.39	0	1	Q26	151.6926	-2.04	9-16	Q	9	-151.8907	-2.13	2	5	P61	152.0736	-1.73	7-12	Q	9		
151.1969	-1.07	0	1	P12	151.5439	-1.81	2	4	P20	151.6927	-1.25	4	7	Q11	151.8907	-1.67	8-14	Q14	-152.0777	-1.25	2	4	G34			
151.2001	-1.66	2	4	Q13	151.5457	-0.79	0	1	P22	151.6977	-1.35	2	4	Q27	151.8923	-2.47	10-18	Q	7	152.0780	-2.23	7-12	P	7		
151.2026	-0.60	0	1	Q16	151.5466	-1.61	2	4	R28	-151.7014	-1.02	3	6	Q45	151.8928	-1.05	4	7	Q18	152.0918	-1.83	7-12	R13	P		
151.2055	-2.41	11-21	P15	151.5523	-1.92	4	7	R	3	151.7045	-2.53	8-14	P	5	151.8948	-1.47	4	7	P15	152.0942	-0.94	4	7	Q23		
151.2065	-2.13	2	4	P10	151.5532	-2.01	4	7	R	2	151.7050	-2.17	9-16	R12	151.8956	-2.09	8-14	P12	152.0946	-2.60	10-18	P12	P			
151.2073	-1.79	2	4	R18	151.5535	-1.84	4	7	R	4	151.7060	-1.23	5	9	P29	151.8980	-1.23	4	7	R22	152.0948	-1.54	8-14	P19	P	
151.2147	-2.25	11-21	P18	151.5561	-2.14	4	7	R	1	151.7062	-1.95	8-14	Q	7	151.9012	-1.85	8-14	R17	-152.0951	-1.32	3	6	P46			
-151.2193	-1.08	3	6	Q39	151.5563	-1.77	4	7	R	5	151.7069	-2.05	8-14	R10	-151.9040	-1.29	2	4	Q31	152.0960	-1.68	7-12	Q10	P		
151.2215	-0.74	0	1	Q22	-151.5584	-1.38	3	6	P40	151.7125	-1.71	4	7	P	9	151.9040	-2.94	10-18	P	6	152.1000	-1.34	4	7	P20	
151.2240	-1.63	2	4	Q14	151.5607	-2.31	4	7	R	0	151.7137	-1.36	4	7	R16	151.9082	-1.34	3	6	P44	152.1020	-1.94	9-16	R22	P	
151.2249	-1.04	0	1	P13	151.5610	-1.71	4	7	R	6	151.7138	-2.														

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
152.2280	-4.33	12-23	R 1	152.4452	-2.39	10-18	P19	152.6060	-2.80	1-2	Q 3	152.7671	-3.66	12-23	P15	152.9368	-1.67	8-14	P30					
152.2281	-4.51	12-23	R 0	152.4459	-3.48	11-20	R 6	152.6114	-1.80	6-10	Q 6	152.7673	-1.28	7-12	Q26	152.9373	-2.24	10-18	P26					
152.2287	-2.04	9-16	P 20	152.4464	-3.91	12-23	P 9	152.6120	-2.69	1-2	Q 4	152.7701	-1.55	3-5	R 8	152.9374	-2.03	1-2	Q20					
152.2295	-1.67	9-16	Q22	152.4467	-3.43	11-20	Q 4	152.6132	-1.83	6-10	R10	152.7702	-2.07	3-5	Q 1	152.9377	-1.37	2-4	R50					
152.2329	-4.21	12-23	R 2	152.4482	-1.61	7-12	R23	152.6139	-2.43	6-10	P 4	152.7718	-3.29	12-23	Q16	152.9400	-1.12	2-4	Q46					
152.2361	-4.33	12-23	Q 1	152.4492	-3.49	12-23	Q10	152.6155	-1.61	2-4	R46	152.7725	-1.39	2-4	R48	152.9427	-1.25	3-5	R18					
152.2384	-.89	4-7	Q26	152.4493	-1.65	8-14	R28	152.6157	-3.64	1-2	P 2	152.7727	-3.53	12-23	R17	152.9441	-2.82	11-20	R18					
152.2391	-2.32	10-18	R19	152.4496	-4.09	11-20	P 3	152.6161	-2.53	1-2	R11	152.7736	-1.85	3-5	Q 2	152.9539	-1.53	6-10	R22					
152.2411	-2.10	10-18	Q17	152.4507	-1.54	2-4	P36	152.6179	-1.37	8-14	Q28	152.7750	-1.63	6-10	R17	152.9561	-1.08	3-5	Q14					
152.2415	-1.70	7-12	R18	152.4578	-.83	4-7	Q30	152.6190	-3.02	11-20	Q11	152.7760	-1.14	2-4	Q44	152.9569	-.98	4-7	R41					
152.2420	-1.51	7-12	Q15	152.4600	-2.01	10-18	Q21	152.6199	-1.70	7-12	P21	152.7763	-1.91	6-10	P11	152.9575	-1.23	7-12	Q29					
152.2430	-4.11	12-23	R 3	152.4601	-2.24	10-18	R23	152.6206	-2.60	1-2	Q 5	152.7789	-1.70	3-5	Q 3	152.9584	-1.74	6-10	P16					
152.2438	-4.11	12-23	Q 2	152.4621	-.95	3-6	Q53	152.6219	-1.16	2-4	Q42	152.7792	-1.51	3-5	R 9	152.9626	-1.55	3-5	P11					
152.2465	-1.58	2-4	P33	152.4623	-3.34	11-20	Q 5	152.6261	-1.74	6-10	Q 7	152.7794	-.76	4-7	Q35	152.9638	-1.32	6-10	P19					
152.2466	-1.27	4-7	P23	152.4624	-3.43	11-20	R 7	152.6266	-3.21	11-20	R13	152.7810	-2.28	10-18	P24	152.9679	-2.44	1-2	P17					
152.2479	-4.03	12-23	R 4	152.4665	-1.43	2-4	R44	152.6277	-3.34	1-2	P 3	152.7822	-1.70	8-14	P28	152.9700	-2.20	1-2	R26					
152.2481	-1.48	8-14	Q22	152.4665	-1.77	7-12	P18	152.6284	-2.50	1-2	R12	152.7831	-2.64	1-2	P11	152.9700	-1.22	3-5	R19					
152.2520	-4.81	12-23	P 2	152.4668	-3.91	11-20	P 4	152.6302	-1.20	6-10	R11	152.7833	-.92	3-5	Q 6	152.9716	-2.01	1-2	Q21					
152.2539	-1.11	4-7	R30	152.4722	-1.20	2-4	Q40	152.6302	-2.53	1-2	Q 6	152.7854	-2.30	1-2	R20	152.9726	-3.18	11-20	P17					
152.2558	-1.92	7-12	P13	152.4745	-1.18	2-4	Q40	152.6307	-2.31	6-10	P 5	152.7857	-2.89	11-20	Q15	152.9829	-1.06	3-5	Q15					
152.2567	-3.96	12-23	Q 3	152.4807	-3.27	11-20	Q 6	152.6349	-3.43	11-20	P10	152.7861	-1.59	3-5	Q 4	152.9844	-3.58	12-23	P18					
152.2577	-1.45	2-4	R41	152.4816	-1.06	4-7	R34	152.6364	-1.73	8-14	P26	152.7876	-2.55	3-5	P 2	152.9905	-1.59	7-12	P27					
152.2591	-1.21	2-4	Q37	152.4820	-3.39	11-20	R 8	152.6383	-2.32	10-18	P22	152.7890	-1.45	6-10	Q14	152.9911	-1.51	3-5	P12					
152.2594	-1.85	8-14	P20	152.4851	-1.41	8-14	Q26	152.6415	-3.17	1-2	P 4	152.7902	-1.47	3-5	R10	152.9952	-1.71	6-10	P17					
152.2606	-.96	3-6	Q51	152.4853	-1.96	9-16	P24	152.6418	-2.47	1-2	Q 7	152.7909	-2.15	1-2	Q15	152.9965	-1.47	2-4	R43					
152.2676	-4.51	12-23	P 3	152.4869	-3.78	11-20	P 5	152.6422	-2.47	1-2	R13	152.7934	-1.12	4-7	P32	152.9968	-1.51	6-10	R23					
152.2678	-3.96	12-23	R 3	152.4882	-3.66	12-23	R12	152.6430	-1.68	6-10	Q 8	152.7950	-1.51	3-5	Q 5	152.9990	-1.20	3-5	R20					
152.2709	-1.70	8-14	R25	152.4892	-3.86	12-23	P10	152.6436	-3.73	12-23	P13	152.7955	-1.64	7-12	P24	152.9900	-.73	4-7	Q38					
152.2747	-3.86	12-23	Q 4	152.4925	-3.45	12-23	Q11	152.6442	-3.58	12-23	R15	152.7989	-3.11	11-20	R17	153.0032	-2.80	11-20	G19					
152.2778	-1.68	7-12	R19	152.4927	-1.37	7-12	Q21	152.6465	-.79	4-7	Q33	152.7995	-1.22	10-18	Q26	153.0046	-2.41	1-2	P18					
152.2779	-2.47	10-18	P16	152.4935	-1.29	3-6	P50	152.6475	-3.35	12-23	Q14	152.7998	-2.25	3-5	P 3	153.0077	-1.99	1-2	Q22					
152.2779	-1.49	7-12	Q16	152.4957	-1.59	7-12	R24	152.6493	-1.31	7-12	Q24	152.8030	-1.43	3-5	R11	153.0078	-2.18	1-2	R27					
152.2876	-3.77	12-23	Q 5	152.5005	-1.77	8-14	P24	152.6493	-1.77	6-10	R12	152.8057	-1.43	3-5	Q 6	153.0082	-1.30	6-10	Q20					
152.2876	-3.91	12-23	R 6	152.5022	-3.21	11-20	Q 7	152.6496	-2.21	6-10	P 6	152.8070	-1.00	4-7	R39	153.0116	-1.03	3-5	Q16					
152.2885	-4.03	12-23	P 4	152.5047	-3.34	11-20	R 9	152.6545	-1.95	10-18	Q24	152.8074	-1.61	6-10	R18	153.0121	-1.08	4-7	P35					
152.2888	-2.02	9-16	P21	152.5061	-2.36	10-18	P20	152.6547	-2.41	1-2	Q 8	152.8080	-1.87	6-10	P12	153.0179	-1.65	8-14	P31					
152.2893	-1.30	3-6	P48	152.5106	-3.69	11-20	P 9	152.6560	-2.99	11-20	Q12	152.8089	-3.27	11-20	P14	153.0190	-2.23	10-18	P27					
152.2893	-1.65	9-16	Q23	152.5137	-1.64	8-14	R29	152.6563	-1.54	7-12	R27	152.8098	-2.60	1-2	P12	153.0214	-1.47	3-5	P13					
152.2901	-2.30	10-18	R20	152.5152	-1.75	7-12	P19	152.6564	-3.04	1-2	P 5	152.8126	-2.28	1-2	R21	153.0236	-1.36	2-4	R51					
152.2904	-.87	4-7	Q27	152.5182	-.82	4-7	Q31	152.6574	-1.15	4-7	P30	152.8138	-2.07	3-5	P 4	153.0239	-1.11	2-4	Q47					
152.2914	-2.07	10-18	Q18	152.5221	-1.99	10-18	Q22	152.6575	-2.20	10-18	R26	152.8151	-1.26	3-6	P53	153.0282	-.97	4-7	R42					
152.2934	-1.89	7-12	P14	152.5234	-2.23	10-18	R24	152.6578	-2.44	1-2	R12	152.8168	-2.13	1-2	Q16	153.0299	-1.18	3-5	R21					
152.2994	-1.25	4-7	P24	152.5235	-1.53	2-4	P37	152.6619	-1.63	6-10	Q 9	152.8175	-1.40	3-5	R12	153.0333	-3.16	11-20	P18					
152.3025	-1.46	8-14	Q23	152.5267	-3.16	11-20	Q 8	152.6649	-3.18	11-20	R14	152.8182	-1.37	3-5	Q 7	153.0399	-1.24	3-6	P55					
152.3059	-1.22	3-6	R55	152.5301	-1.18	4-7	P28	152.6691	-2.37	1-2	Q 9	152.8208	-1.42	6-10	Q15	153.0416	-1.68	6-10	P18					
152.3086	-1.10	4-7	R31	152.5305	-3.31	11-20	R10	152.6707	-2.13	6-10	P 7	152.8229	-1.26	7-12	Q27	153.0420	-1.50	6-10	R24					
152.3112	-3.86	12-23	R 7	152.5317	-1.42	2-4	R45	152.6708	-1.74	6-10	R13	152.8298	-1.94	3-5	P 5	153.0421	-1.00	3-5	G17					
152.3135	-1.57	2-4	P34	152.5360	-3.63	12-23	R13	152.6712	-1.02	4-7	R37	152.8325	-1.32	3-5	Q 8	153.0428	-2.39	1-2	P29					
152.3144	-4.21	12-23	P 5	152.5367	-3.81	12-23	P11	152.6737	-1.51	2-4	P39	152.8334	-1.49	2-4	P41	153.0455	-1.97	1-2	G19					
152.3155	-3.70	12-23	Q 6	152.5370	-3.61	11-20	P 7	152.6737	-3.39	11-20	P11	152.8338	-1.37	3-5	R13	153.0469	-2.17	1-2	R28					
152.3164	-1.46	7-12	Q17	152.5384	-1.05	4-7	R35	152.6738	-2.95	1-2	P 6	152.8353	-2.87	11-20	Q16	153.0534	-1.43	3-5	P14					
152.3166	-1.83	8-14	P21	152.5401	-3.41	12-23	Q12	152.6748	-2.41	1-2	R15	152.8358	-3.63	12-23	P16	153.0536	-1.28	6-10	Q21					
152.3176	-1.66	7-12	R20	152.5426	-1.35	7-12	Q22	152.6762	-.93	3-6	Q55	152.8380	-2.57	1-2	P13	153.0593	-1.57	7-12	P28					
152.3254	-1.44	2-4	R42	152.5471	-1.57	2-4	Q41	152.6765	-1.68	7-12	P22	152.8406	-3.27	12-23	Q17	153.0625	-1.17	3-5	R22					
152.3282	-1.68	8-14	R26	152.5473	-1.17	7-12	R25	152.6831	-1.59	6-10	Q10	152.8417	-2.26	1-2	R22	153.0656	-.72	4-7	G39					
152.3308	-2.44	10-18	P17	152.5508	-1.39	8-14	Q27	152.6854	-2.32	1-2	Q10	152.8419	-1.83	6-10	P13	153.0657	-2.77	11-20	Q20					
152.3333	-1.86	7-12	P15	152.5544	-3.11	11-20	Q 9	152.6886	-1.36	8-14	Q29	152.8434	-1.59	6-10	R19	153.0683	-3.55	12-23	P19					
152.3334	-1.20	2-4	Q38	152.5545	-2.21	6-10	R 3	152.6923	-2.87	1-2	P 7	152.8445	-2.10	1-2	Q17	153.0745	-.98	3-5	Q18					
152.3353	-4.11	12-23	P 6	152.5547	-2.31	6-10	R 2	152.6936	-2.39	1-2	R16	152.8474	-1.85	3-5	P 6	153.0819	-1.45	2-4	P44					
152.3381	-3.81	12-23	R 8	152.5564	-1.94	9-16	P25	152.6937	-1.40	2-4	R47	152.8487	-1.27	3-5	Q 9	153.0827	-2.37	1-2	P20					
152.3432	-3.63	12-23	Q 8	152.5565	-2.13	6-10	Q 4	152.6938	-2.07	6-10	P 8	152.8488	-.75	4-7	Q36	153.0848	-1.95	1-2	Q24					
152.3441	-2.28	10-18	R21	152.5567	-2.43	6-10	R 1	152.6956	-1.71	6-10	R14	152.8498	-3.09	11-20	R18	153.0872	-1.40	3-5	P15					

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
153.2408	-1.29	3	5	P19	153.5983	-1.88	5	8	P10	153.9309	-5.12	10	17	Q 6	154.1800	-3.44	9	15	R19	154.4066	-1.03	2	3	Q13
153.2435	-1.43	6	10	R28	153.6002	-0.99	3	5	R34	153.9317	-1.58	5	8	P19	154.1812	-1.48	5	8	P24	154.4082	-3.50	9	15	P19
153.2442	-1.59	6	10	P22	153.6032	-1.41	4	7	Q13	153.9333	-3.9	9	15	P 7	154.1821	-0.65	3	5	Q39	154.4096	-0.62	3	5	Q42
153.2480	-1.05	4	7	P38	153.6069	-1.48	6	10	P28	153.9385	-3.61	9	15	R12	154.1832	-3.05	8	13	R13	154.4124	-1.04	5	8	Q31
153.2543	-1.20	6	10	Q25	153.6075	-0.76	3	5	Q30	153.9388	-5.19	10	17	R 9	154.1846	-0.89	3	5	R43	154.4150	-2.68	8	13	G17
153.2545	-1.08	3	5	R27	153.6113	-1.56	5	8	R17	153.9407	-1.37	2	4	P53	154.1847	-2.90	8	13	Q10	154.4150	-0.87	3	5	R46
153.2584	-1.44	2	4	P46	153.6224	-1.11	6	10	Q31	153.9424	-5.63	10	17	P 5	154.1879	-4.95	10	17	R17	154.4191	-1.51	2	3	P10
153.2597	-2.28	1	2	P24	153.6268	-1.84	5	8	P11	153.9448	-1.06	3	5	P32	154.1891	-3.38	8	13	P 8	154.4210	-2.88	8	13	R20
153.2636	-0.87	3	5	Q23	153.6311	-1.38	5	8	Q14	153.9449	-1.39	5	8	R26	154.1925	-5.15	10	17	P13	154.4223	-1.41	5	8	P28
153.2674	-1.89	1	2	P28	153.6316	-2.17	1	2	P31	153.9494	-5.05	10	17	Q 7	154.1981	-4.74	10	17	Q15	154.4228	-1.14	2	3	R19
153.2710	-0.94	4	7	R45	153.6340	-1.54	5	8	R18	153.9557	-3.91	9	15	P 8	154.1990	-1.32	5	8	R31	154.4290	-3.08	8	13	P15
153.2720	-1.23	3	5	P57	153.6358	-1.40	2	4	P50	153.9559	-3.44	9	15	Q10	154.2033	-3.21	9	15	Q17	154.4298	-3.34	9	15	R24
153.2838	-1.27	3	5	P20	153.6362	-1.13	3	5	P27	153.9610	-5.15	10	17	R10	154.2081	-3.61	9	15	P15	154.4303	-1.00	2	3	Q14
153.2889	-1.08	2	4	Q50	153.6549	-0.98	3	5	R35	153.9641	-5.53	10	17	P 6	154.2102	-3.02	8	13	R14	154.4306	-1.66	0	0	R 4
153.2939	-1.57	6	10	P23	153.6573	-1.80	5	8	P12	153.9654	-3.58	9	15	R13	154.2105	-2.86	8	13	Q11	154.4310	-1.59	0	0	R 5
153.2964	-1.87	1	2	Q29	153.6614	-1.35	5	8	Q15	153.9713	-5.00	10	17	Q 8	154.2163	-3.32	8	13	P 9	154.4317	-1.73	0	0	R 3
153.2978	-1.07	3	5	R28	153.6656	-0.75	3	5	Q31	153.9716	-0.92	3	5	R40	154.2241	-1.00	3	5	P36	154.4328	-4.85	10	17	R22
153.2984	-1.42	6	10	R29	153.6665	-1.52	5	8	R19	153.9717	-1.56	5	8	P20	154.2250	-3.42	9	15	R20	154.4339	-1.53	0	0	R 6
153.3071	-0.86	3	5	Q24	153.6684	-0.65	4	7	Q46	153.9718	-1.41	6	10	P33	154.2251	-1.08	5	8	Q28	154.4345	-1.83	0	0	R 2
153.3090	-2.26	1	2	P25	153.6709	-1.05	2	4	Q54	153.9726	-0.68	3	5	Q36	154.2304	-1.46	5	8	P25	154.4352	-1.39	0	0	R 9
153.3101	-1.19	6	10	Q26	153.6833	-1.46	6	10	P29	153.9729	-0.96	4	7	P46	154.2319	-4.93	10	17	R18	154.4375	-5.00	10	17	P18
153.3200	-0.69	4	7	Q42	153.6873	-1.32	5	8	Q16	153.9729	-1.17	5	8	Q23	154.2338	-1.69	2	3	R 4	154.4389	-1.96	0	0	R 7
153.3287	-1.25	3	5	P21	153.6881	-2.15	1	2	P32	153.9827	-1.38	5	8	R27	154.2344	-1.76	2	3	R 3	154.4395	-1.48	0	0	R 7
153.3325	-1.04	4	7	P39	153.6885	-0.99	4	7	P43	153.9842	-3.40	9	15	Q11	154.2348	-1.62	2	3	R 5	154.4436	-4.62	10	17	Q20
153.3413	-1.43	2	4	P47	153.6889	-1.10	6	10	Q32	153.9848	-3.85	9	15	P 9	154.2360	-5.12	10	17	P14	154.4451	-2.13	0	0	R 0
153.3448	-1.06	3	5	R29	153.6898	-1.76	5	8	P13	153.9852	-5.12	10	17	R11	154.2365	-1.86	2	3	R 2	154.4451	-1.27	5	8	R35
153.3499	-1.86	1	2	Q30	153.6940	-1.12	3	5	P28	153.9888	-5.45	10	17	P 7	154.2377	-1.56	2	3	R 6	154.4452	-1.46	2	3	P11
153.3522	-0.84	3	5	Q25	153.7001	-1.50	5	8	R20	153.9949	-3.55	9	15	R14	154.2385	-2.83	8	13	Q12	154.4467	-1.35	0	0	R10
153.3532	-1.55	6	10	P24	153.7147	-0.97	3	5	R36	153.9955	-6.05	10	17	Q 9	154.2393	-2.99	8	13	R15	154.4501	-1.43	0	0	R 8
153.3544	-0.93	4	7	R46	153.7202	-1.29	5	8	Q17	154.0121	-5.08	10	17	R12	154.2406	-1.99	2	3	R 1	154.4538	-0.97	3	5	P39
153.3583	-1.41	6	10	R30	153.7244	-1.72	5	8	P14	154.0133	-1.15	5	8	Q24	154.2418	-4.71	10	17	Q16	154.4541	-1.96	0	0	Q 1
153.3645	-2.25	1	2	P26	153.7245	-0.73	3	5	Q32	154.0147	-3.36	9	15	Q12	154.2421	-1.51	2	3	R 7	154.4544	-1.12	2	3	R20
153.3684	-1.17	6	10	Q27	153.7349	-1.39	2	4	P51	154.0157	-5.38	10	17	P 8	154.2460	-3.27	8	13	P10	154.4555	-0.97	2	3	Q15
153.3752	-1.22	3	5	P22	153.7356	-1.48	5	8	R21	154.0157	-1.04	3	5	P33	154.2460	-2.16	2	3	R 0	154.4567	-3.10	9	15	Q22
153.3832	-1.08	2	4	Q51	153.7459	-1.45	6	10	P30	154.0160	-3.80	9	15	P10	154.2484	-1.46	2	3	R 8	154.4574	-1.73	0	0	Q 2
153.3920	-1.04	3	5	R30	153.7504	-2.14	1	2	P33	154.0216	-4.91	10	17	Q10	154.2489	-3.19	9	15	Q18	154.4574	-2.65	8	13	Q18
153.3977	-0.68	4	7	Q43	153.7541	-1.10	3	5	P29	154.0216	-1.54	5	8	P21	154.2544	-3.58	9	15	P16	154.4578	-1.32	0	0	R11
153.3993	-0.82	3	5	Q24	153.7590	-0.64	4	7	Q47	154.0269	-3.53	9	15	R15	154.2550	-1.99	2	3	Q 1	154.4620	-1.59	0	0	Q 3
153.4026	-1.85	1	2	Q31	153.7609	-1.69	5	8	P15	154.0362	-1.36	5	8	R28	154.2559	-0.64	3	5	Q40	154.4636	-2.86	8	13	R21
153.4043	-2.23	1	2	P27	153.7613	-1.09	6	10	Q33	154.0387	-0.67	3	5	Q37	154.2565	-1.42	2	3	R 9	154.4647	-3.48	9	15	P20
153.4077	-2.14	5	8	R 3	153.7620	-1.27	5	8	Q18	154.0404	-0.67	3	5	R41	154.2569	-1.31	5	8	R32	154.4683	-1.48	0	0	Q 4
153.4083	-2.24	5	8	R 2	153.7737	-1.46	5	8	R22	154.0420	-5.05	10	17	R13	154.2586	-1.76	2	3	Q 2	154.4698	-1.29	0	0	R12
153.4089	-2.06	5	8	R 4	153.7764	-0.96	3	5	R37	154.0434	-1.36	2	4	P54	154.2588	-0.88	3	5	R44	154.4724	-1.42	2	3	P12
153.4092	-1.02	4	7	P40	153.7772	-0.98	4	7	P44	154.0443	-3.62	8	13	R 2	154.2634	-1.62	2	3	Q 3	154.4726	-2.43	0	0	P 2
153.4111	-2.36	5	8	R 1	153.7805	-0.72	3	5	Q33	154.0452	-3.52	8	13	R 3	154.2657	-1.38	2	3	Q10	154.4730	-3.05	8	13	P16
153.4122	-1.99	5	8	R 5	153.7996	-1.66	5	8	P16	154.0455	-3.75	8	13	R 1	154.2691	-2.79	8	13	Q13	154.4762	-1.39	0	0	Q 5
153.4132	-1.53	6	10	P25	153.8001	-1.25	5	8	Q19	154.0458	-5.33	10	17	P 9	154.2704	-1.51	2	3	Q 4	154.4773	-1.02	5	8	Q32
153.4158	-2.54	5	8	R 0	153.8055	-1.44	5	8	R23	154.0479	-3.33	9	15	Q13	154.2709	-2.97	8	13	R16	154.4776	-1.39	5	8	P29
153.4175	-1.93	5	8	R 6	153.8102	-4.16	9	15	R 2	154.0485	-3.44	8	13	R 4	154.2722	-3.40	9	15	R21	154.4826	-0.95	2	3	Q16
153.4176	-1.39	6	10	R31	153.8106	-4.28	9	15	R 1	154.0494	-3.92	8	13	R 0	154.2730	-2.46	2	3	P 2	154.4827	-1.10	2	3	R21
153.4237	-1.20	3	5	P23	153.8116	-4.06	9	15	R 3	154.0497	-3.76	9	15	P11	154.2768	-1.35	2	3	R11	154.4835	-1.26	0	0	R13
153.4245	-2.36	5	8	Q 1	153.8136	-4.46	9	15	R 0	154.0521	-4.87	10	17	Q11	154.2775	-4.91	10	17	R19	154.4848	-2.13	0	0	P 3
153.4247	-1.88	5	8	R 7	153.8151	-1.08	3	5	P30	154.0534	-1.39	6	10	P34	154.2779	-3.22	8	13	P11	154.4855	-1.32	0	0	Q 6
153.4283	-2.14	5	8	Q 2	153.8166	-3.98	9	15	R 4	154.0541	-3.38	8	13	R 5	154.2787	-1.42	2	3	Q 5	154.4895	-0.61	3	5	Q43
153.4329	-1.16	6	10	Q28	153.8180	-1.43	6	10	P31	154.0579	-3.75	8	13	Q 1	154.2825	-5.08	10	17	P15	154.4909	-4.83	10	17	R23
153.4340	-1.84	5	8	R 8	153.8219	-4.28	9	15	Q 1	154.0610	-3.50	9	15	R16	154.2855	-2.16	2	3	P 3	154.4952	-4.97	10	17	P19
153.4342	-1.99	5	8	Q 3	153.8247	-3.91	9	15	R 5	154.0621	-3.32	8	13	R 6	154.2878	-1.07	5	8						

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ		
154.5653	-1.32	2-	3	P15	154.7078	-0.87	0-	0	Q18	154.9479	-2.48	8-13	Q27	155.2804	-2.82	12-21	P	9	155.6261	-2.40	12-21	R19				
154.5655	-1.93	4-	6	Q	3	154.7083	-2.65	7-11	Q11	154.9519	-1.57	4-	6	P17	155.2828	-2.58	12-21	R12	155.6314	-0.76	3-	5	R59			
154.5667	-3.11	7-11	R	1	154.7089	-1.49	4-	6	R17	154.9607	-1.13	0-	0	P21	155.2829	-2.30	7-11	Q25	155.6344	-1.31	4-	6	P30			
154.5675	-3.53	7-11	Q	1	154.7126	-1.21	2-	3	P19	154.9682	-2.84	7-11	P16	155.2916	-1.00	0-	0	P28	155.6372	-2.62	6-	9	R20			
154.5678	-2.99	8-13	P18		154.7168	-3.40	9-15	P24	154.9696	-0.90	3-	5	P45	155.2999	-0.53	3-	5	Q52	155.6438	-2.58	7-11	P28				
154.5693	-1.73	4-	6	R	9	154.7175	-1.02	0-	0	R24	154.9753	-2.63	7-11	R22	155.3065	-2.37	12-21	Q11	155.6543	-2.85	6-	9	P14			
154.5715	-1.59	0-	0	P	8	154.7176	-1.32	0-	0	P14	154.9756	-2.84	8-13	P25	155.3123	-1.01	4-	6	Q28	155.6593	-2.16	12-21	Q18			
154.5719	-3.31	7-11	Q	2	154.7183	-2.78	8-13	R26	154.9759	-4.83	10-17	P26	155.3128	-1.24	4-	6	R32	155.6597	-2.42	6-	9	P17				
154.5725	-0.60	3-	5	Q44		154.7196	-0.79	2-	3	Q23	154.9773	-1.34	4-	6	R25	155.3185	-2.77	12-21	P10	155.6628	-0.84	3-	5	P52		
154.5730	-1.82	4-	6	Q	4	154.7219	-3.11	7-11	P	9	154.9818	-1.14	4-	6	Q21	155.3186	-0.78	3-	5	R56	155.6708	-0.93	4-	6	Q34	
154.5738	-2.77	4-	6	P	2	154.7267	-1.82	4-	6	P10	154.9824	-2.42	7-11	Q19	155.3211	-0.99	2-	3	P31	155.6743	-2.60	6-	9	R21		
154.5738	-0.87	2-	3	Q19		154.7280	-2.92	8-13	P21	154.9858	-1.08	2-	3	P25	155.3212	-2.67	7-11	P23	155.6771	-1.17	4-	6	R38			
154.5746	-1.00	0-	0	Q13		154.7293	-1.34	4-	6	Q13	154.9881	-0.71	0-	0	Q26	155.3214	-2.55	12-21	R13	155.6819	-2.52	12-21	P17			
154.5756	-3.06	7-11	R	1	154.7300	-0.99	2-	3	R28	154.9893	-0.69	2-	3	Q29	155.3288	-3.26	6-	9	R	3	155.6922	-2.81	6-	9	P15	
154.5761	-3.07	9-15	Q24		154.7304	-2.78	7-11	P15	154.9938	-1.54	4-	6	P18	155.3294	-3.36	6-	9	R	2	155.6971	-2.39	6-	9	Q18		
154.5780	-1.05	2-	3	R24		154.7360	-1.47	4-	6	R18	154.9983	-1.29	5-	8	P36	155.3304	-3.18	6-	9	R	4	155.7000	-1.29	4-	6	P31
154.5785	-3.17	7-11	Q	3	154.7364	-2.61	7-11	Q12	155.0028	-1.11	0-	0	Q22	155.3319	-3.48	6-	9	R	1	155.7134	-2.58	6-	9	R22		
154.5792	-0.85	3-	5	R48		154.7369	-1.31	4-	6	Q14	155.0088	-0.55	3-	5	Q49	155.3339	-3.11	6-	9	R	5	155.7140	-0.49	3-	5	Q56
154.5810	-1.25	5-	8	R37		154.7375	-0.84	0-	0	Q19	155.0148	-2.81	7-11	P17	155.3341	-1.39	4-	6	P25	155.7237	-2.14	12-21	Q19			
154.5821	-1.62	4-	6	R12		154.7414	-0.58	3-	5	Q46	155.0199	-1.32	4-	6	R26	155.3365	-3.66	6-	9	R	0	155.7321	-2.78	6-	9	P16
154.5823	-1.69	4-	6	R10		154.7493	-1.00	0-	0	R25	155.0199	-2.61	7-11	R23	155.3393	-0.99	0-	0	P29	155.7365	-2.37	6-	9	Q19		
154.5831	-1.73	4-	6	Q	5	154.7497	-1.29	0-	0	P15	155.0232	-1.12	4-	6	Q22	155.3397	-3.06	6-	9	R	6	155.7378	-0.92	4-	6	Q35
154.5841	-1.11	0-	0	R19		154.7503	-3.06	7-11	P10	155.0258	-0.81	3-	5	R53	155.3407	-2.29	7-11	Q26	155.7408	-0.75	3-	5	R60			
154.5847	-4.01	7-11	P	2	154.7509	-0.83	3-	5	R50	155.0270	-2.40	7-11	Q20	155.3452	-3.48	6-	9	Q	1	155.7444	-1.16	4-	6	R39		
154.5857	-3.44	9-15	P22		154.7520	-2.76	7-11	P16	155.0363	-0.69	0-	0	Q27	155.3466	-2.33	12-21	Q12	155.7476	-2.50	12-21	P18					
154.5865	-2.47	4-	6	P	3	154.7528	-4.89	10-17	P23	155.0370	-1.51	4-	6	P19	155.3474	-3.01	6-	9	R	7	155.7546	-2.56	6-	9	R23	
154.5867	-3.01	7-11	R	8	154.7539	-1.19	2-	3	P20	155.0375	-1.07	2-	3	P26	155.3494	-3.26	6-	9	Q	2	155.7677	-1.28	4-	6	P32	
154.5872	-3.06	7-11	Q	4	154.7553	-1.77	4-	6	P11	155.0411	-0.68	2-	3	Q30	155.3537	-0.87	3-	5	P49	155.7709	-0.83	3-	5	P53		
154.5877	-1.04	0-	0	Q12		154.7573	-0.97	5-	8	Q36	155.0441	-2.83	8-13	P26	155.3557	-3.11	6-	9	Q	3	155.7740	-2.76	6-	9	P17	
154.5943	-1.66	4-	6	Q	6	154.7590	-4.52	10-17	Q25	155.0463	-1.09	0-	0	P23	155.3573	-2.96	6-	9	R	8	155.7781	-2.35	6-	9	Q20	
154.5955	-1.53	0-	0	P	9	154.7604	-0.77	2-	3	Q24	155.0537	-2.78	7-11	P18	155.3604	-2.73	12-21	P11	155.7918	-1.12	12-21	Q20				
154.5977	-3.71	7-11	P	3	154.7627	-2.53	8-13	Q24	155.0564	-4.81	10-17	P27	155.3628	-3.96	6-	9	P	2	155.7980	-2.54	6-	9	R24			
154.5980	-1.66	4-	6	R11		154.7643	-1.33	5-	8	P33	155.0619	-0.89	3-	5	P46	155.3636	-2.52	12-21	R14	155.8064	-0.91	4-	6	Q36		
154.5982	-2.97	7-11	Q	5	154.7650	-1.45	4-	6	R19	155.0634	-1.31	4-	6	R27	155.3639	-3.01	6-	9	Q	4	155.8152	-1.15	4-	6	R40	
154.5992	-1.59	4-	6	Q	7	154.7657	-2.58	7-11	Q13	155.0667	-1.10	4-	6	Q23	155.3676	-1.00	4-	6	Q29	155.8168	-2.47	12-21	P19			
154.5992	-2.59	8-13	Q21		154.7687	-0.82	0-	0	Q20	155.0671	-2.60	7-11	R24	155.3684	-1.23	4-	6	R33	155.8180	-2.73	6-	9	P18			
154.5994	-1.29	2-	3	P16		154.7709	-0.97	2-	3	R29	155.0721	-0.68	0-	0	Q28	155.3690	-2.92	6-	9	R	9	155.8218	-2.33	6-	9	Q21
154.6001	-2.97	7-11	R	9	154.7716	-1.28	4-	6	Q15	155.0735	-2.38	7-11	Q21	155.3743	-2.92	6-	9	Q	5	155.8237	-0.49	3-	5	Q57		
154.6009	-2.29	4-	6	P	4	154.7809	-3.01	7-11	P11	155.0800	-3.25	12-21	R	1	155.3758	-3.66	6-	9	P	3	155.8375	-1.26	4-	6	P33	
154.6009	-0.97	0-	0	Q14		154.7844	-1.26	0-	0	P16	155.0811	-1.28	5-	8	P37	155.3812	-2.55	7-11	P24	155.8434	-2.53	6-	9	R25		
154.6076	-0.85	2-	3	Q20		154.7848	-2.73	7-11	R17	155.0812	-3.43	12-21	R	0	155.3831	-2.88	6-	9	R10	155.8521	-0.75	3-	5	R61		
154.6077	-1.09	0-	0	R20		154.7857	-0.99	0-	0	R26	155.0818	-3.12	12-21	R	2	155.3865	-2.85	6-	9	Q	6	155.8643	-2.70	6-	9	P19
154.6102	-2.81	8-13	R24		154.7860	-1.73	4-	6	P12	155.0819	-1.49	4-	6	P20	155.3901	-2.30	12-21	Q13	155.8677	-2.31	6-	9	Q22			
154.6111	-1.59	4-	6	R13		154.7863	-2.90	8-13	P22	155.0868	-3.03	12-21	R	3	155.3904	-1.37	4-	6	P26	155.8771	-0.90	4-	6	Q37		
154.6114	-1.00	5-	8	Q34		154.7863	-3.38	9-15	P25	155.0894	-3.25	12-21	Q	1	155.3908	-3.48	6-	9	P	4	155.8798	-0.82	3-	5	P54	
154.6129	-2.90	7-11	Q	6	154.7894	-0.92	3-	5	P43	155.0906	-1.05	2-	3	P27	155.3957	-0.97	0-	0	P30	155.8878	-1.14	4-	6	R41		
154.6129	-3.53	7-11	P	4	154.7957	-1.43	4-	6	R20	155.0913	-1.07	0-	0	P24	155.3991	-2.85	6-	9	R11	155.8895	-2.45	12-21	P20			
154.6131	-1.03	2-	3	R25		154.7964	-1.25	4-	6	P16	155.0952	-2.95	12-21	R	4	155.3999	-0.52	3-	5	Q53	155.8912	-2.51	6-	9	R26	
154.6137	-2.93	7-11	R10		154.7965	-2.55	7-11	Q14	155.0965	-3.03	12-21	Q	2	155.4011	-2.78	7-11	Q	7	155.9095	-1.25	4-	6	P34			
154.6145	-4.80	10-17	R25		154.7968	-1.16	2-	3	P21	155.1039	-2.76	7-11	P19	155.4013	-2.27	7-11	Q27	155.9126	-2.68	6-	9	P20				
154.6172	-2.17	4-	6	P	5	154.8011	-0.80	0-	0	Q21	155.1040	-0.54	3-	5	Q50	155.4056	-2.69	12-21	P12	155.9157	-2.29	6-	9	Q23		
154.6177	-0.94	3-	5	P41		154.8029	-0.76	2-	3	Q25	155.1059	-3.73	12-21	P	2	155.4077	-3.36	6-	9	P	5	155.9361	-0.48	3-	5	Q58
154.6183	-4.93	10-17	P21		154.8117	-2.97	7-11	P12	155.1065	-2.88	12-21	Q	2	155.4089	-2.50	12-21	R15	155.9413	-2.50	6-	9	R27				
154.6188	-2.97	8-13	P19		154.8149	-0.97	0-	0	R27	155.1069	-2.88	12-21	R	5	155.4172	-2.81	6-	9	R12	155.9479	-1.91	3-	4	R	4	
154.6202	-1.54	4-	6	Q	8	154.8187	-2.71	7-11	R18	155.1097	-1.29	4-	6	R28	155.4176	-2.73	6-	9	Q	8	155.9480	-1.99	3-	4	R	3
154.6220	-1.36	5-	8	P31		154.8194	-1.69	4-	6	P13	155.1118	-1.08	4-	6	Q24	155.4213	-0.98	4-	6	Q30	155.9494	-1.85	3-	4	R	5
154.6240	-4.56	10-17	Q23		154.8213	-1.66	4-	6	P14	155.1128	-2.81	8-13	P27	155												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
156.0480	-1.99	3	-4	P 6	156.2294	-.88	1	-1	Q15	156.3851	-2.67	9	-14	P 9	-156.5569	-1.16	4	-6	P42	156.7042	-2.46	13	-23	R 8
156.0493	-1.42	1	-1	Q 4	156.2320	-2.65	10	-16	P 8	156.3857	-3.58	5	-7	R 1	156.5573	-.66	1	-1	Q25	156.7043	-2.24	10	-16	P19
156.0507	-1.26	1	-1	R11	156.2346	-2.73	9	-14	Q 3	156.3870	-1.24	3	-4	R26	-156.5600	-1.19	3	-4	R30	156.7065	-2.24	11	-18	P15
156.0514	-2.37	1	-1	P 2	156.2349	-2.18	10	-16	Q10	156.3881	-2.22	10	-16	R17	156.5636	-2.46	9	-14	P14	156.7088	-.77	3	-5	P61
156.0579	-1.33	1	-1	Q 5	156.2361	-1.15	3	-4	Q17	156.3893	-3.15	5	-7	R 6	156.5638	-2.25	9	-14	R19	156.7103	-2.07	13	-23	Q 7
156.0591	-1.23	4	-6	P36	156.2375	-1.01	1	-1	R21	156.3904	-.92	1	-1	R26	156.5679	-2.77	5	-7	R17	156.7109	-2.47	8	-12	R11
156.0606	-1.46	3	-4	R15	156.2386	-2.62	9	-14	R 7	156.3907	-3.75	5	-7	R 0	156.5685	-1.07	1	-1	P21	156.7124	-2.07	11	-18	R19
156.0624	-1.23	1	-1	R12	156.2391	-3.57	9	-14	P 2	156.3958	-3.10	5	-7	R 7	156.5689	-2.35	11	-18	P12	156.7177	-1.84	11	-18	Q17
156.0639	-1.37	3	-4	Q10	156.2437	-1.31	3	-4	R22	156.3978	-2.61	11	-18	P 7	156.5722	-2.14	10	-16	R21	156.7196	-2.35	8	-12	Q 8
156.0642	-2.07	1	-1	P 3	156.2441	-2.62	9	-14	Q 4	156.3997	-3.58	5	-7	Q 1	156.5736	-2.13	11	-18	R16	156.7211	-1.15	3	-4	R33
156.0677	-1.91	3	-4	P 7	156.2473	-2.56	6	-9	P26	156.4000	-2.27	11	-18	R11	156.5740	-1.37	3	-4	P22	156.7235	-1.31	3	-4	P25
156.0682	-1.26	1	-1	Q 6	156.2475	-2.32	10	-16	R13	156.4002	-1.46	3	-4	P18	156.5742	-2.62	5	-7	Q13	156.7237	-1.05	4	-6	R51
156.0703	-2.62	6	-9	P23	156.2479	-2.19	6	-9	Q29	-156.4032	-.45	3	-5	Q62	156.5748	-3.10	5	-7	P10	156.7239	-2.88	8	-12	P 6
156.0723	-2.24	6	-9	Q26	156.2521	-2.57	9	-14	R 8	156.4037	-3.35	5	-7	Q 2	156.5793	-1.93	11	-18	Q14	156.7265	-.60	1	-1	Q29
156.0755	-1.20	1	-1	R13	156.2523	-3.27	9	-14	P 3	156.4041	-3.05	5	-7	R 8	-156.5830	-.78	3	-5	P60	156.7282	-2.67	5	-7	R22
156.0792	-1.89	1	-1	P 4	156.2540	-1.33	1	-1	P12	156.4064	-2.42	10	-16	P13	156.5853	-.97	3	-4	Q26	156.7297	-2.48	5	-7	Q18
156.0798	-1.20	1	-1	Q 7	156.2547	-1.58	3	-4	P14	156.4065	-.74	1	-1	Q21	-156.5855	-2.48	6	-9	P31	156.7320	-2.43	8	-12	R12
156.0804	-2.02	10	-16	R 2	156.2551	-.85	1	-1	Q16	156.4065	-2.01	10	-16	Q15	156.5900	-2.98	13	-23	R 1	156.7342	-.92	3	-4	Q29
156.0807	-3.02	10	-16	R 1	156.2563	-2.53	9	-14	Q 5	156.4071	-2.11	11	-18	Q 9	156.5910	-3.16	13	-23	R 0	156.7362	-2.91	5	-7	P15
156.0813	-1.44	3	-4	R16	156.2617	-2.60	10	-16	P 9	156.4094	-3.21	5	-7	Q 3	156.5920	-1.91	10	-16	Q19	156.7369	-2.42	13	-23	R 9
156.0822	-2.80	10	-16	P 3	156.2617	-.84	4	-6	Q42	156.4108	-2.18	9	-14	Q12	156.5942	-2.29	10	-16	P17	156.7371	-2.45	6	-9	P33
156.0832	-1.33	3	-4	Q11	156.2637	-2.14	10	-16	Q11	156.4121	-1.04	3	-4	Q22	156.5952	-2.03	9	-14	Q17	156.7398	-2.68	13	-23	P 7
156.0840	-3.20	10	-16	R 0	156.2653	-.99	1	-1	R22	156.4131	-1.17	1	-1	P17	156.5957	-2.85	13	-23	R 2	156.7401	-2.68	8	-12	Q 9
156.0868	-2.72	10	-16	R 4	156.2677	-1.12	3	-4	Q18	156.4146	-3.01	5	-7	R 9	156.5960	-2.75	5	-7	R18	156.7402	-2.07	11	-18	R19
156.0890	-1.85	3	-4	P 8	156.2681	-2.53	9	-14	R 9	156.4154	-2.34	9	-14	R15	156.5971	-.65	1	-1	Q26	156.7402	-1.14	4	-6	P44
156.0903	-1.17	1	-1	R14	156.2691	-3.10	9	-14	P 4	156.4159	-2.62	9	-14	P10	156.5993	-2.98	13	-23	Q 1	156.7430	-2.23	13	-23	Q 8
156.0926	-3.02	10	-16	Q 1	156.2709	-2.46	9	-14	Q 6	156.4172	-3.10	5	-7	Q 4	156.6012	-2.59	5	-7	Q14	156.7463	-2.80	8	-12	P 7
156.0935	-1.14	1	-1	Q 8	156.2713	-2.69	11	-18	R 3	156.4176	-4.05	5	-7	P 2	156.6032	-3.05	5	-7	P11	156.7502	-.99	1	-1	P25
156.0942	-2.65	10	-16	R 5	156.2717	-2.91	11	-18	R 1	156.4263	-.91	1	-1	R27	156.6061	-2.76	13	-23	R 3	156.7509	-2.34	9	-14	P18
156.0957	-1.77	1	-1	P 5	156.2722	-2.79	11	-18	R 2	156.4264	-2.54	11	-18	P 8	156.6067	-2.43	9	-14	P15	156.7519	-2.18	9	-14	R23
156.0977	-2.80	10	-16	Q 2	156.2745	-3.09	11	-18	Q 0	156.4269	-2.97	5	-7	R10	-156.6067	-.80	4	-6	Q46	156.7555	-2.40	8	-12	R13
156.1017	-.86	4	-6	Q40	156.2764	-1.29	3	-4	R23	156.4271	-3.07	5	-7	Q 5	156.6069	-2.23	9	-14	R20	156.7581	-2.21	11	-18	P16
156.1038	-1.29	3	-4	Q12	-156.2784	-1.09	4	-6	R46	156.4272	-1.23	3	-4	R27	156.6073	-2.76	13	-23	Q 2	156.7603	-1.85	10	-16	Q22
156.1038	-1.41	3	-4	R17	156.2786	-2.29	10	-16	R14	156.4291	-2.23	11	-18	R12	-156.6081	-1.17	3	-4	R31	-156.7613	-1.13	3	-4	R34
156.1042	-2.60	10	-16	R 6	156.2788	-2.61	11	-18	R 4	156.4298	-2.20	10	-16	R18	156.6110	-2.68	13	-23	R 4	156.7631	-2.26	8	-12	Q10
156.1044	-2.45	6	-9	R30	156.2822	-.83	1	-1	Q17	156.4306	-3.75	5	-7	P 3	156.6114	-1.05	1	-1	P22	156.7632	-2.22	10	-16	P20
156.1060	-2.65	10	-16	Q 3	-156.2826	-.46	3	-5	Q61	-156.4308	-.82	4	-6	Q44	156.6116	-2.31	11	-18	P13	156.7648	-2.05	11	-18	R20
156.1061	-.81	3	-5	P56	156.2828	-1.29	1	-1	P13	156.4358	-2.07	11	-18	Q10	156.6159	-3.46	13	-23	P 2	156.7661	-2.66	5	-7	R23
156.1067	-1.14	1	-1	R15	156.2829	-2.91	11	-18	Q 1	156.4386	-2.94	5	-7	Q 6	156.6169	-2.11	11	-18	R17	156.7668	-2.46	5	-7	Q19
156.1082	-1.09	1	-1	Q 9	156.2863	-2.50	9	-14	R10	156.4410	-1.44	3	-4	P19	156.6207	-2.61	13	-23	Q 3	156.7695	-1.82	11	-18	Q18
156.1096	-3.50	10	-16	P 2	156.2872	-2.97	9	-14	P 5	156.4411	-2.94	5	-7	R11	156.6221	-1.35	3	-4	P23	156.7712	-2.74	8	-12	P 8
156.1124	-1.79	3	-4	P 9	156.2879	-2.40	9	-14	Q 7	156.4423	-.72	1	-1	Q22	156.6225	-1.90	11	-18	Q15	156.7734	-2.38	13	-23	R10
156.1136	-1.67	1	-1	P 6	156.2879	-2.54	11	-18	R 5	156.4427	-2.14	14	-14	Q13	156.6244	-2.98	8	-12	R 2	156.7744	-2.88	5	-7	P16
156.1163	-2.54	10	-16	Q 4	156.2882	-1.54	3	-4	P15	156.4440	-2.51	6	-9	P29	156.6249	-2.88	8	-12	R 3	156.7768	-1.29	3	-4	P26
156.1166	-1.11	4	-6	R44	156.2886	-2.69	11	-18	Q 2	-156.4446	-2.15	6	-9	Q32	156.6250	-2.12	10	-16	R22	156.7769	-2.61	13	-23	P 8
156.1168	-2.54	10	-16	R 7	156.2940	-2.54	10	-16	P10	156.4453	-3.58	5	-7	P 4	156.6261	-2.73	5	-7	R19	156.7791	-2.18	13	-23	Q 9
156.1233	-3.20	10	-16	P 3	156.2946	-.97	1	-1	R23	156.4486	-2.32	9	-14	R16	156.6263	-3.10	8	-12	R 1	156.7806	-.59	1	-1	Q30
156.1245	-1.12	1	-1	R16	156.2955	-2.10	10	-16	Q12	156.4489	-1.98	10	-16	Q16	156.6277	-2.80	8	-12	R 4	156.7813	-2.38	8	-12	W14
156.1248	-1.05	1	-1	Q10	156.2975	-2.54	11	-18	Q 3	156.4492	-2.57	9	-14	P11	-156.6294	-1.05	4	-6	R50	156.7876	-.91	3	-4	Q30
156.1272	-1.26	3	-4	Q13	-156.2988	-1.19	4	-6	P39	156.4494	-2.38	10	-16	P14	156.6305	-2.56	5	-7	Q15	156.7884	-2.22	8	-12	Q11
156.1272	-2.60	6	-9	P24	156.2996	-2.48	11	-18	R 6	156.4496	-1.14	1	-1	P18	156.6306	-3.28	8	-12	R 0	156.7884	-1.94	9	-14	Q21
156.1281	-1.39	3	-4	R18	156.2998	-3.39	11	-18	P 2	-156.4503	-1.07	4	-6	R48	156.6316	-2.61	13	-23	R 5	-156.7919	-.78	4	-6	Q48
156.1289	-2.22	6	-9	Q27	156.3011	-1.10	3	-4	Q19	156.4521	-2.88	5	-7	Q 7	156.6322	-3.16	13	-23	P 3	156.7948	-2.68	8	-12	P 9
156.1294	-2.46	10	-16	R 8	156.3051	-2.43	11	-18	Q 4	156.4532	-1.02	3	-4	Q23	156.6326	-2.74	8	-12	R 5	156.8005	-.97	1	-1	P26
156.1321	-2.50	10	-16	Q 5	156.3074	-2.46	9	-14	R11	156.4570	-.89	1	-1	R28	156.6331	-.95	3	-4	Q27	156.8038	-2.32	9	-14	P19
156.1332	-1.59	1	-1	P 7	156.3075	-2.34	9	-14	Q 8	156.4574	-2.91	5	-7	R12	156.6335	-3.01	5	-7	P12	156.8055	-2.16	9	-14	R24
156.1368	-1.21	4	-6	P37	156.3080	-2.88	9	-14	P 6															

Table 7. (Cont.)

Table with columns: WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ. Each column represents a set of astronomical data points including wavelength, magnitude, and position coordinates.

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
167.1880	-5.50	7	7	P15	167.5403	-2.12	5	4	P27	-167.9041	-1.41	6	6	P51	-168.4121	-4.99	7	7	R43	168.6248	-2.10	12	15	R14	
167.1910	-1.13	6	6	Q48	167.5564	-2.96	11	14	P31	167.9048	-2.12	9	10	Q16	-168.4141	-2.14	9	10	R30	168.6292	-2.25	6	5	Q11	
167.1915	-5.25	7	7	R23	167.5637	-1.43	3	1	P21	167.9112	-1.30	3	1	P28	-168.4212	-2.58	13	17	P	168.6306	-2.40	12	15	P	
167.1971	-1.24	3	1	R15	167.5652	-2.72	10	12	P24	167.9119	-2.30	9	10	R20	168.4241	-2.08	13	17	Q	168.6349	-1.92	5	4	P42	
167.2047	-2.66	10	12	R24	167.5682	-5.30	7	7	P23	-167.9217	-1.89	5	4	R42	168.4338	-2.71	12	15	R	168.6404	-2.77	6	5	P	
167.2048	-1.73	3	1	P11	167.5728	-1.01	3	1	Q26	-167.9269	-2.03	5	4	P33	168.4342	-2.21	13	17	R12	168.6409	-2.33	6	5	R17	
167.2075	-2.85	10	12	P18	167.5752	-2.34	10	12	Q27	167.9316	-2.63	10	12	P29	168.4345	-2.61	12	15	R	168.6432	-5.08	7	7	P38	
167.2091	-5.06	7	7	Q19	-167.5754	-1.44	6	6	P48	-167.9361	-1.07	6	6	Q55	168.4348	-2.83	12	15	R	168.6440	-1.81	5	4	R51	
167.2121	-1.35	3	1	R22	-167.5785	-5.13	7	7	R31	167.9417	-2.53	9	10	P14	168.4387	-3.01	12	15	R	168.6440	-1.87	13	17	Q15	
-167.2128	-2.03	5	4	R30	167.5804	-2.94	9	10	R	3	167.9417	-5.20	7	7	P27	168.4393	-2.53	12	15	R	168.6460	-2.28	13	17	P13
167.2165	-1.83	5	4	Q25	167.5815	-3.04	9	10	R	2	167.9445	-2.10	9	10	P17	-168.4435	-1.59	5	4	Q44	168.6513	-1.86	9	10	Q30
167.2196	-3.02	11	14	P27	167.5817	-2.86	9	10	R	4	167.9450	-2.28	9	10	R21	168.4476	-2.46	12	15	R	168.6518	-2.21	6	5	Q12
167.2214	-2.45	10	12	Q21	167.5845	-3.16	9	10	R	1	-167.9563	-5.06	7	7	R37	168.4484	-2.83	12	15	Q	168.6567	-1.91	12	15	Q12
167.2221	-2.23	5	4	P21	167.5852	-2.80	9	10	R	5	167.9642	-2.07	9	10	Q18	168.4509	-2.52	13	17	Q	168.6588	-2.08	12	15	R15
167.2234	-1.22	3	1	Q16	-167.5872	-1.72	5	4	Q32	167.9681	-1.29	3	1	P29	168.4522	-1.90	9	10	P27	168.6592	-2.23	9	10	P27	
167.2284	-5.47	7	7	P16	167.5901	-3.34	9	10	R	0	-167.9684	-4.82	7	7	Q33	168.4523	-2.04	13	17	Q10	168.6651	-2.35	12	15	P10
167.2325	-5.23	7	7	R24	167.5909	-2.74	9	10	R	6	-167.9793	-1.65	5	4	Q38	168.4526	-2.40	12	15	R	168.6657	-2.71	6	5	P
167.2334	-1.69	3	1	P12	167.5912	-4.91	7	7	Q27	167.9837	-2.49	9	10	P15	168.4542	-2.61	12	15	Q	168.6666	-2.31	6	5	R18	
-167.2366	-0.90	5	5	P62	-167.5920	-1.94	5	4	R37	167.9894	-2.26	9	10	R22	168.4571	-2.28	9	10	P24	168.6692	-2.06	13	17	R18	
167.2412	-1.34	3	1	R23	167.5990	-2.69	9	10	R	7	-167.9943	-1.88	5	4	R43	168.4629	-2.46	12	15	Q	168.6704	-4.96	7	7	R46
167.2452	-2.64	14	20	P21	167.5999	-2.10	5	4	P28	-167.9985	-2.02	5	4	P34	168.4646	-1.94	5	4	P40	168.6762	-2.18	6	5	Q13	
167.2497	-5.03	7	7	Q20	167.6000	-3.16	9	10	Q	1	-168.0100	-5.18	7	7	P30	168.4653	-2.35	12	15	R	168.6819	-4.72	7	7	Q42
167.2511	-1.19	3	1	Q17	-167.6039	-1.09	6	6	Q52	168.0138	-2.62	10	12	P30	168.4660	-2.18	13	17	R13	168.6916	-1.84	13	17	Q16	
167.2528	-2.85	13	18	P28	167.6043	-2.94	9	10	Q	2	-168.0167	-5.04	7	7	R38	168.4678	-3.31	12	15	P	168.6925	-1.88	12	15	Q13
167.2578	-2.65	11	14	Q30	167.6085	-1.41	3	1	P22	-168.0187	-1.41	6	6	P52	-168.4678	-1.83	5	4	R49	168.6931	-2.66	6	5	P10	
167.2594	-2.65	10	12	R25	167.6093	-2.64	9	10	R	8	168.0187	-1.27	3	1	P30	168.4734	-2.35	12	15	Q	168.6939	-2.25	13	17	P14
167.2605	-2.82	10	12	P19	167.6113	-2.80	9	10	Q	3	168.0199	-2.05	9	10	P19	-168.4749	-5.10	7	7	P36	168.6941	-2.29	6	5	R19
-167.2616	-2.02	5	4	R31	167.6180	-0.99	3	1	Q27	168.0294	-2.46	9	10	P16	-168.4764	-2.12	9	10	R31	168.6949	-2.05	12	15	R16	
167.2639	-1.66	3	1	P13	167.6199	-3.64	9	10	P	2	168.0343	-2.24	9	10	R23	168.4803	-2.31	12	15	R	168.7022	-2.31	12	15	P11
167.2640	-1.81	5	4	Q26	167.6201	-2.69	9	10	Q	4	-168.0356	-4.81	7	7	Q34	168.4819	-2.83	6	5	R	168.7025	-2.15	6	5	Q14
-167.2671	-1.47	6	6	P45	167.6220	-2.60	9	10	R	9	-168.0491	-1.06	6	6	Q56	168.4828	-2.77	6	5	R	168.7036	-1.56	5	4	Q47
167.2703	-2.21	5	4	P22	167.6252	-5.28	7	7	P24	-168.0525	-1.64	5	4	Q39	168.4828	-2.71	6	5	R	168.7164	-3.67	4	2	K	
167.2708	-5.44	7	7	P17	167.6313	-2.60	9	10	Q	5	-168.0673	-1.87	5	4	R44	168.4834	-3.01	12	15	P	168.7170	-3.74	4	2	R
167.2726	-1.32	3	1	R24	167.6326	-2.70	10	12	P25	168.0676	-2.03	9	10	Q20	168.4843	-2.46	13	17	P	168.7179	-3.62	4	2	R	
167.2749	-2.43	10	12	Q22	-167.6340	-5.11	7	7	R32	168.0687	-2.44	9	10	P17	168.4855	-2.00	13	17	Q11	168.7182	-2.04	13	17	R19	
167.2784	-5.21	7	7	R25	167.6341	-3.34	9	10	P	3	168.0817	-2.23	9	10	R24	168.4855	-3.01	6	5	R	168.7186	-3.82	4	2	R
167.2804	-1.17	3	1	Q18	167.6369	-2.56	9	10	R	10	-168.0819	-5.17	7	7	P31	168.4855	-2.71	6	5	R	168.7207	-3.57	4	2	R
-167.2825	-1.37	6	6	R53	167.6447	-2.53	9	10	Q	6	-168.0845	-2.00	5	4	P35	168.4871	-2.27	12	15	Q	168.7221	-2.61	6	5	P11
167.2922	-5.01	7	7	Q21	167.6480	-2.32	10	12	Q28	168.0854	-1.26	3	1	P31	168.4902	-2.66	6	5	R	168.7229	-3.92	4	2	R	
-167.2933	-1.12	6	6	Q49	-167.6487	-1.71	5	4	Q33	-168.0978	-5.03	7	7	R39	168.4903	-3.13	6	5	R	168.7233	-2.27	6	5	R20	
167.2958	-1.62	3	1	P14	167.6495	-4.89	7	7	Q28	-168.1088	-4.79	7	7	Q35	-168.4969	-4.98	7	7	R44	-168.7234	-1.84	9	10	Q31	
167.3002	-3.01	11	14	P28	167.6509	-3.16	9	10	P	4	168.1161	-2.01	9	10	Q21	168.4969	-2.61	6	5	R	168.7247	-1.91	5	4	P43
167.3099	-1.30	3	1	R25	167.6540	-2.53	9	10	R11	168.1194	-2.41	9	10	P18	168.4970	-3.31	6	5	R	168.7252	-3.52	4	2	R	
167.3115	-1.14	3	1	Q19	-167.6542	-1.93	5	4	R38	-168.1275	-1.63	5	4	Q40	168.4979	-2.27	12	15	R	168.7283	-6.04	4	2	R	
-167.3125	-2.00	5	4	R32	167.6548	-1.39	3	1	P23	168.1331	-2.21	9	10	R25	168.4998	-2.16	13	17	R14	168.7306	-2.12	6	5	Q15	
167.3133	-1.79	5	4	Q27	167.6603	-2.46	9	10	Q	7	-168.1331	-1.86	5	4	R45	-168.5000	-1.37	6	6	P56	168.7307	-1.85	12	15	Q14
167.3142	-2.63	10	12	R26	167.6612	-2.09	5	4	P29	-168.1365	-1.40	6	6	P53	-168.5012	-4.74	7	7	Q40	168.7315	-3.48	4	2	R	
167.3151	-5.42	7	7	P18	167.6644	-0.98	3	1	Q28	-168.1442	-1.99	5	4	P36	168.5018	-2.83	12	15	P	168.7315	-1.80	5	4	R52	
167.3167	-2.80	10	12	P20	167.6697	-3.04	9	10	P	5	-168.1561	-5.15	7	7	P32	168.5040	-2.19	12	15	Q	168.7317	-2.21	9	10	P28
167.3200	-5.20	7	7	R26	167.6736	-2.49	9	10	R12	168.1667	-1.99	9	10	Q22	168.5052	-2.57	6	5	R	168.7339	-5.07	7	7	P39	
167.3207	-2.19	5	4	P23	167.6783	-2.41	9	10	Q	8	168.1708	-2.39	9	10	P19	168.5074	-3.13	6	5	Q	168.7343	-2.03	12	15	R17
167.3292	-1.59	3	1	P15	167.6828	-1.43	6	6	P49	-168.1739	-5.02	7	7	R40	168.5109	-2.91	6	5	Q	168.7356	-4.22	4	2	R	
167.3310	-2.41	10	12	Q23	167.6840	-5.27	7	7	P25	-168.1821	-4.78	7	7	Q36	168.5157	-2.53	6	5	R10	168.7394	-3.44	4	2	R	
167.3361	-1.29	3	1	R26	167.6908	-2.94	9	10	P	6	168.1836	-2.19	9	10	R26	168.5165	-2.77	6	5	Q	168.7416	-1.82	13	17	Q17
167.3369	-4.99	7	7	Q22	-167.6948	-5.10	7	7	R33	-168.2036	-1.62	5	4	Q41	168.5193	-2.23	12	15	R10	168.7431	-2.27	12	15	P12	
167.3441	-1.12	3	1	Q20	167.6957	-2.46	9	10	R13	168.2174	-1.97	9	10	Q23	168.5202	-2.41	13	17	P10	168.7451	-2.21	13	17	P15	
167.3615	-5.39	7	7	P19	167.6986	-2.36	9	10	Q	9	-168.2213														

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
168.8427	-3.24	4	2	R17	169.0122	-1.95	13	17	R24	169.2518	-2.83	4	2	Q24	169.5122	-2.23	15	21	R12	169.8700	-1.93	10	11	R12
168.8447	-2.94	8	8	R 0	169.0128	-3.44	4	2	P13	169.2526	-1.72	11	13	Q15	169.5145	-1.98	11	13	P18	169.8704	-1.82	8	8	P27
168.8471	-2.28	8	8	R 7	169.0133	-5.03	7	7	P42	169.2531	-1.65	8	8	Q19	169.5184	-3.14	4	2	P25	169.8714	-1.85	10	11	Q 8
168.8522	-1.77	13	17	Q19	169.0163	-1.70	12	15	Q20	169.2535	-3.01	4	2	R30	169.5193	-2.48	15	21	P 9	169.8824	-2.38	10	11	P 6
168.8536	-3.74	4	2	P 7	169.0170	-1.84	8	8	Q12	169.2536	-3.65	13	17	Q25	169.5204	-2.02	6	5	R37	169.8867	-1.84	11	13	P24
168.8549	-2.76	8	8	R 0	169.0200	-2.34	8	8	P 9	169.2609	-2.02	13	17	P23	169.5261	-2.73	4	2	Q30	169.8875	-2.06	15	21	R19
168.8554	-2.16	13	17	P17	169.0205	-2.03	11	13	Q 7	169.2633	-1.62	12	15	Q24	169.5261	-4.98	7	7	P47	169.8925	-1.80	10	11	Q 9
168.8555	-3.16	4	2	Q11	169.0234	-2.36	6	5	P19	169.2687	-2.06	8	8	P16	169.5266	-1.79	11	13	R24	169.8928	-1.90	10	11	R13
168.8560	-2.24	8	8	R 8	169.0245	-2.60	11	13	P 5	169.2733	-1.85	6	5	Q28	169.5327	-1.75	8	8	R29	169.8964	-2.20	15	21	P16
168.8566	-4.70	7	7	P44	169.0254	-1.94	6	5	Q23	169.2738	-1.51	5	4	Q53	169.5342	-1.57	11	13	Q21	169.9012	-1.67	8	8	R35
168.8576	-2.46	6	5	P15	169.0279	-2.09	11	13	R11	169.2741	-2.25	6	5	P24	169.5378	-1.53	8	8	Q25	169.9021	-1.44	8	8	Q31
168.8590	-2.54	8	8	R 0	169.0279	-2.13	6	5	R28	169.2751	-2.13	11	13	P13	169.5441	-2.02	15	21	Q11	169.9067	-2.30	10	11	P 7
168.8600	-2.20	6	5	R24	169.0291	-1.91	12	15	R23	169.2763	-3.24	4	2	P20	169.5543	-2.20	15	21	R13	169.9090	-1.47	11	13	Q27
168.8604	-1.76	12	15	Q17	169.0326	-2.95	4	2	Q18	169.2779	-2.07	6	5	R33	169.5617	-2.43	15	21	P10	169.9142	-1.72	6	5	Q38
168.8628	-2.02	6	5	Q19	169.0357	-1.96	8	8	R17	169.2828	-1.88	11	13	R19	169.5642	-1.92	8	8	P22	169.9160	-1.76	10	11	Q10
168.8643	-3.22	4	2	R18	169.0360	-2.08	12	15	P18	169.2831	-1.82	8	8	R24	169.5682	-1.78	6	5	Q33	169.9188	-1.87	10	11	R14
168.8653	-2.39	8	8	R 0	169.0386	-1.71	13	17	Q22	169.2890	-1.99	12	15	P22	169.5701	-1.95	11	13	P19	169.9204	-3.03	4	2	P32
168.8668	-2.20	8	8	R 9	169.0390	-3.10	4	2	R24	169.2931	-1.69	11	13	Q16	169.5742	-2.16	6	5	P29	169.9241	-2.09	6	5	P34
168.8693	-1.97	12	15	R20	169.0406	-1.98	11	13	Q 8	169.2937	-2.90	15	21	R 1	169.5783	-3.12	4	2	P26	169.9328	-1.81	15	21	Q18
168.8716	-1.81	9	10	Q33	169.0429	-2.15	9	10	P32	169.2948	-2.81	4	2	Q25	169.5809	-1.78	11	13	R25	169.9333	-2.23	10	11	P 8
168.8738	-2.28	8	8	R 0	169.0444	-1.81	8	8	R10	169.2949	-1.63	8	8	Q20	169.5811	-2.72	4	2	Q31	169.9394	-1.72	10	11	Q11
168.8752	-3.24	8	8	R 2	169.0452	-2.08	13	17	P20	169.2952	-2.78	15	21	R 2	169.5856	-1.73	8	8	R30	169.9415	-1.81	8	8	P28
168.8755	-3.12	4	2	Q12	169.0454	-3.41	4	2	P14	169.2954	-3.08	15	21	R 0	169.5865	-1.91	12	15	P26	169.9428	-1.96	6	5	R43
168.8761	-2.16	12	15	P15	169.0470	-2.51	11	13	P 6	169.2983	-3.00	4	2	R31	169.5873	-2.01	6	5	R38	169.9497	-1.85	10	11	R15
168.8762	-3.67	4	2	R 0	169.0493	-2.28	8	8	P10	169.3004	-2.68	15	21	R 3	169.5882	-1.98	15	21	Q12	169.9520	-1.80	5	4	P55
168.8798	-2.16	8	8	R18	169.0503	-4.68	7	7	Q46	169.3009	-1.85	5	4	P49	169.5891	-1.55	11	13	Q22	169.9584	-1.83	11	13	P25
168.8817	-2.18	9	10	P30	169.0509	-2.06	11	13	R12	169.3015	-2.11	9	10	P35	169.5934	-1.95	13	17	P27	169.9622	-2.17	10	11	P 9
168.8842	-2.20	8	8	R 0	169.0577	-1.94	8	8	R18	169.3049	-2.90	15	21	R 1	169.5944	-1.51	8	8	Q26	169.9652	-2.18	15	21	P17
168.8851	-1.98	13	17	R22	169.0583	-3.09	4	2	R25	169.3092	-2.60	15	21	R 4	169.6003	-2.18	15	21	R14	169.9697	-1.68	10	11	Q12
168.8876	-3.20	4	2	P19	169.0635	-1.93	11	13	Q 9	169.3128	-2.68	15	21	Q 2	169.6083	-2.38	15	21	P11	169.9708	-1.82	10	11	R16
168.8895	-2.94	8	8	R 3	169.0648	-2.93	4	2	P19	169.3131	-2.03	8	8	P17	169.6166	-1.83	5	4	P52	169.9711	-1.66	8	8	R36
168.8902	-1.54	6	5	Q49	169.0698	-2.33	6	5	Q20	169.3134	-5.00	7	7	P45	169.6188	-3.10	4	2	P27	169.9711	-1.43	8	8	Q32
168.8950	-2.12	8	8	R11	169.0710	-1.92	6	5	Q24	169.3179	-2.09	11	13	P14	169.6215	-1.90	8	8	P23	169.9865	-3.01	4	2	P33
168.8961	-2.43	6	5	P16	169.0720	-2.43	11	13	P 7	169.3208	-3.22	4	2	P21	169.6282	-1.93	11	13	P20	169.9901	-1.71	6	5	Q39
168.8969	-2.12	8	8	R 0	169.0740	-1.78	8	8	Q14	169.3216	-2.54	15	21	R 5	169.6340	-4.97	7	7	P48	169.9933	-2.12	10	11	P10
168.8975	-3.09	4	2	Q13	169.0760	-1.67	12	15	Q21	169.3237	-2.54	15	21	Q 3	169.6346	-1.77	6	5	Q34	169.9939	-2.08	6	5	P35
168.8991	-2.18	6	5	R25	169.0760	-2.03	11	13	R13	169.3240	-3.38	15	21	P 2	169.6361	-1.95	15	21	Q13	169.9996	-1.79	8	8	P29
168.9001	-3.62	4	2	P 9	169.0764	-2.12	6	5	R29	169.3243	-1.86	11	13	R20	169.6365	-2.71	4	2	Q32	170.0011	-1.65	10	11	Q13
168.9006	-2.00	6	5	Q20	169.0796	-3.37	4	2	P15	169.3279	-1.84	6	5	Q29	169.6393	-2.15	6	5	P30	170.0038	-1.79	15	21	R19
168.9059	-2.76	8	8	R 4	169.0804	-2.24	8	8	R11	169.3296	-1.81	8	8	R25	169.6411	-1.76	11	13	R26	170.0053	-1.80	10	11	Q17
168.9090	-1.89	5	4	P45	169.0808	-1.93	13	17	R25	169.3301	-2.23	6	5	P25	169.6439	-1.72	8	8	R31	170.0196	-1.95	6	5	R44
168.9097	-1.74	12	15	Q18	169.0819	-1.52	5	4	Q51	169.3319	-1.64	13	17	Q26	169.6484	-1.53	11	13	Q23	170.0270	-2.08	10	11	P11
168.9108	-1.75	13	17	Q20	169.0879	-1.89	12	15	R24	169.3320	-1.60	12	15	Q25	169.6499	-1.55	15	21	R15	170.0330	-1.81	11	13	P26
168.9117	-2.06	8	8	R 0	169.0886	-1.88	11	13	Q10	169.3361	-1.66	11	13	Q17	169.6528	-2.00	6	5	R39	170.0340	-1.62	10	11	Q14
168.9123	-2.09	8	8	R12	169.0895	-1.87	5	4	P47	169.3378	-2.98	15	21	R 6	169.6549	-1.50	8	8	Q27	170.0380	-2.15	15	21	P18
168.9128	-3.18	4	2	R20	169.0914	-1.92	8	8	R19	169.3384	-2.43	15	21	Q 4	169.6586	-2.34	15	21	P12	170.0408	-1.78	10	11	R18
168.9152	-2.13	13	17	P18	169.0951	-2.05	12	15	P19	169.3388	-2.05	6	5	R34	169.6779	-3.09	4	2	P28	170.0431	-1.41	8	8	Q33
168.9165	-5.04	7	7	P41	169.0961	-3.07	4	2	R26	169.3389	-2.00	13	17	P24	169.6815	-1.88	8	8	P24	170.0435	-1.65	8	8	R37
168.9197	-1.95	12	15	R21	169.0987	-2.91	4	2	Q20	169.3398	-1.60	8	8	Q21	169.6878	-1.92	15	21	Q14	170.0605	-2.04	10	11	P12
168.9211	-3.06	4	2	Q14	169.0996	-2.36	11	13	P 8	169.3399	-2.80	4	2	Q26	169.6891	-1.91	11	13	P21	170.0678	-1.70	6	5	Q40
168.9246	-2.64	8	8	R 5	169.1043	-2.00	11	13	R14	169.3413	-3.08	15	21	P 3	169.7026	-1.48	8	8	Q28	170.0701	-1.59	10	11	Q15
168.9257	-3.57	4	2	P10	169.1062	-1.75	8	8	Q15	169.3567	-2.34	15	21	Q 5	169.7034	-1.76	6	5	Q35	170.0758	-2.07	6	5	P36
168.9268	-2.13	12	15	P16	169.1069	-1.69	13	17	Q23	169.3573	-2.43	15	21	R 7	169.7034	-2.13	15	21	R16	170.0767	-1.78	8	8	P30
168.9284	-2.01	8	8	R 0	169.1136	-2.06	13	17	P21	169.3591	-1.97	12	15	P23	169.7043	-1.71	8	8	R32	170.0783	-1.76	10	11	R19
168.9316	-2.06	8	8	R13	169.1138	-2.20	8	8	P12	169.3599	-2.01	8	8	P18	169.7087	-2.13	6	5	P31	170.0789	-1.77	15	21	Q20
168.9354	-2.60	11	13	R 2	169.1152	-5.02	7	7	P43	169.3618	-2.90	15	21	P 4	169.7100	-1.52	11	13	Q24	170.0990	-1.94	6	5	R45
168.9356	-2.51	11																						

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
170.4372	-2.44	7	6	R 1	170.7395	-1.67	8	-	P38	170.9760	-2.30	14	-	0 4	171.1684	-2.37	16	-	23 R12	171.3885	-1.49	5	-	3 P25
170.4378	-1.96	7	6	R 7	170.7447	-1.37	7	6	Q17	170.9762	-2.96	9	-	9 P	171.1690	-1.79	13	-	16 Q12	171.3392	-1.82	9	-	9 P15
170.4411	-1.90	6	5	R49	170.7449	-1.81	7	6	P14	170.9812	-1.66	7	-	6 P19	171.1724	-1.94	6	-	5 P48	171.3400	-1.76	3	-	0 P 6
170.4436	-2.62	7	6	R 0	170.7469	-1.84	7	6	P13	170.9814	-2.30	14	-	18 R 7	171.1743	-2.23	13	-	16 P10	171.3423	-1.14	3	-	0 Q10
170.4463	-1.92	7	6	R 8	170.7473	-1.70	10	-	11 P25	170.9845	-2.88	13	-	16 P 3	171.1746	-2.05	14	-	18 R14	171.3425	-2.18	12	-	14 R 7
170.4541	-2.44	7	6	Q 1	170.7500	-1.54	7	-	6 R22	170.9849	-1.88	9	-	9 R10	171.1750	-1.66	9	-	9 R18	171.3445	-2.29	12	-	14 Q 3
170.4568	-1.88	7	6	R 9	170.7525	-1.51	5	-	3 R21	170.9859	-2.18	13	-	16 R 3	171.1764	-1.95	13	-	16 R15	171.3453	-2.07	13	-	16 P14
170.4581	-2.22	7	6	Q 2	170.7533	-1.38	5	-	3 Q15	170.9855	-1.92	9	-	9 Q 5	171.1788	-2.15	16	-	23 Q11	171.3477	-2.28	16	-	23 R15
170.4623	-1.77	7	6	R12	170.7573	-1.87	5	-	3 P11	170.9875	-1.21	5	-	3 Q22	171.1790	-2.56	16	-	23 P10	171.3492	-1.86	13	-	16 R19
170.4640	-2.07	7	6	Q 3	170.7616	-1.62	6	-	5 Q48	170.9879	-2.95	14	-	18 P 3	171.1841	-1.50	9	-	9 Q14	171.3509	-3.14	12	-	14 P 2
170.4694	-1.84	7	6	R10	170.7721	-1.98	6	-	5 P44	170.9891	-2.14	13	-	16 Q 0	171.1842	-1.55	5	-	3 P22	171.3525	-1.14	3	-	0 R18
170.4719	-1.96	7	6	Q 4	170.7815	-1.35	5	-	3 Q16	170.9909	-1.25	7	-	6 Q23	171.1856	-2.30	14	-	18 P10	171.3543	-1.95	14	-	18 R19
170.4750	-2.92	7	6	P 2	170.7819	-1.35	7	-	6 Q18	170.9910	-2.66	9	-	9 P 3	171.1865	-1.58	7	-	6 P23	171.3547	-2.18	12	-	14 Q 4
170.4756	-1.71	8	-	P35	170.7825	-1.49	5	-	3 R22	170.9936	-2.21	14	-	18 Q 5	171.1877	-1.96	9	-	9 P11	171.3563	-2.14	12	-	14 R 8
170.4827	-1.88	7	6	Q 5	170.7868	-1.83	5	-	3 P12	170.9964	-2.52	16	-	23 R 3	171.1901	-1.86	14	-	18 Q12	171.3580	-2.05	16	-	23 P14
170.4852	-1.81	7	6	R11	170.7870	-1.52	7	-	6 R23	170.9990	-2.82	16	-	23 P 6	171.1940	-1.18	7	-	6 Q27	171.3589	-2.44	16	-	23 Q13
170.4876	-1.65	6	5	Q45	170.7971	-1.77	7	-	6 P15	170.9991	-2.25	14	-	18 R 3	171.2062	-1.75	13	-	16 Q13	171.3609	-1.69	3	-	0 P 7
170.4895	-2.62	7	6	P 3	170.8114	-1.32	5	-	3 Q17	170.9995	-1.85	9	-	9 Q 6	171.2089	-1.64	9	-	9 R19	171.3614	-1.52	7	-	6 P26
170.4926	-1.78	10	-	11 P21	170.8143	-1.47	5	-	3 R23	171.0009	-1.85	9	-	9 R11	171.2093	-1.13	5	-	3 Q27	171.3629	-1.08	5	-	3 Q30
170.4935	-1.74	7	6	R13	170.8166	-1.87	6	-	5 R53	171.0010	-1.39	5	-	3 R28	171.2125	-2.18	13	-	16 P11	171.3639	-1.13	7	-	6 Q30
170.4941	-1.39	10	-	11 Q24	170.8174	-1.68	10	-	11 P26	171.0033	-1.44	7	-	6 R28	171.2127	-1.39	7	-	6 R32	171.3640	-1.10	3	-	0 Q11
170.4944	-1.81	7	6	Q 6	170.8185	-1.79	5	-	3 P13	171.0034	-2.71	13	-	16 P 4	171.2142	-1.42	3	-	0 R 9	171.3667	-1.56	9	-	9 R23
170.4951	-2.01	6	5	P41	170.8199	-1.33	7	-	6 Q19	171.0039	-1.64	5	-	3 P18	171.2150	-2.02	14	-	18 R15	171.3667	-2.83	12	-	14 P 3
170.4983	-1.74	7	6	Q 7	170.8264	-1.50	7	-	6 R24	171.0043	-2.14	13	-	16 R 9	171.2152	-1.93	13	-	16 R16	171.3678	-2.09	12	-	14 Q 5
170.5058	-2.44	7	6	P 4	170.8328	-1.66	8	-	8 P39	171.0062	-2.34	16	-	23 Q 7	171.2171	-1.47	9	-	9 Q15	171.3689	-2.14	14	-	18 P14
170.5157	-2.02	5	-	3 R 5	170.8429	-1.30	5	-	3 Q18	171.0064	-2.07	13	-	16 Q 6	171.2183	-1.62	3	-	0 R 5	171.3713	-1.37	9	-	9 Q19
170.5160	-2.09	5	-	3 R 4	170.8446	-1.74	7	-	6 P16	171.0074	-2.78	14	-	18 P 4	171.2194	-1.69	3	-	0 R 4	171.3714	-1.03	3	-	0 Q13
170.5174	-1.96	5	-	3 R 6	170.8479	-1.45	5	-	3 R24	171.0081	-2.48	9	-	9 P 4	171.2200	-1.56	3	-	0 R 6	171.3722	-1.74	14	-	18 P16
170.5180	-2.17	5	-	3 R 3	170.8521	-1.75	5	-	3 P14	171.0128	-2.14	14	-	18 Q 6	171.2219	-1.76	3	-	0 R 3	171.3728	-2.09	12	-	14 R 9
170.5200	-1.71	7	6	R14	170.8591	-1.61	6	-	5 Q49	171.0150	-1.79	9	-	9 Q 7	171.2223	-1.92	9	-	9 P12	171.3754	-1.12	3	-	0 R20
170.5207	-1.91	5	-	3 R 7	170.8598	-1.31	7	-	6 Q20	171.0167	-1.85	6	-	5 R55	171.2232	-2.34	16	-	23 R13	171.3800	-1.57	6	-	5 Q54
170.5214	-2.27	5	-	3 R 2	170.8672	-1.49	7	-	6 R25	171.0191	-1.82	9	-	9 R12	171.2247	-1.51	3	-	0 R 7	171.3826	-1.79	9	-	9 P16
170.5214	-1.69	7	6	Q 8	170.8698	-1.97	6	-	5 P45	171.0205	-2.21	14	-	18 R 9	171.2253	-1.38	3	-	0 R 2	171.3840	-1.64	13	-	16 Q17
170.5242	-2.32	7	6	P 5	170.8719	-3.04	16	-	23 R 1	171.0245	-2.58	13	-	16 P 5	171.2263	-1.86	3	-	0 R 2	171.3846	-1.62	3	-	0 P 8
170.5259	-1.87	5	-	3 R 8	170.8726	-3.01	16	-	23 R 0	171.0251	-2.65	14	-	18 P 5	171.2267	-2.25	14	-	18 P11	171.3846	-1.62	3	-	0 P 8
170.5271	-2.39	5	-	3 R 1	170.8765	-1.28	5	-	3 Q19	171.0254	-2.11	13	-	16 R10	171.2292	-1.84	6	-	5 R57	171.3847	-2.66	12	-	14 P 6
170.5305	-1.89	6	-	5 R50	170.8774	-2.91	16	-	23 R 2	171.0264	-2.01	13	-	16 Q 7	171.2312	-1.82	14	-	18 Q13	171.3857	-1.92	6	-	5 P50
170.5330	-1.83	5	-	3 R 0	170.8822	-3.04	16	-	23 Q 1	171.0270	-2.36	9	-	9 P 5	171.2323	-1.99	3	-	0 R 1	171.3915	-1.07	3	-	0 Q12
170.5340	-2.57	5	-	3 R 0	170.8831	-1.44	5	-	3 R25	171.0282	-1.20	5	-	3 Q23	171.2337	-2.12	16	-	23 Q12	171.3916	-2.06	12	-	14 R10
170.5409	-1.64	7	6	Q 9	170.8875	-1.72	5	-	3 P15	171.0297	-1.64	7	-	6 P20	171.2338	-1.53	5	-	3 P23	171.3916	-1.35	7	-	6 R35
170.5412	-1.79	5	-	3 R10	170.8888	-2.82	16	-	23 R 3	171.0325	-1.73	9	-	9 Q 8	171.2345	-2.52	16	-	23 P11	171.3936	-1.47	5	-	3 P26
170.5435	-1.69	7	6	R15	170.8891	-1.71	7	-	6 P17	171.0326	-2.47	16	-	23 R 9	171.2353	-1.46	3	-	0 R 8	171.3954	-2.04	13	-	16 P15
170.5447	-2.39	5	-	3 Q 1	170.8894	-1.66	10	-	11 P27	171.0347	-2.08	14	-	18 Q 7	171.2355	-1.35	3	-	0 R11	171.3994	-1.00	3	-	0 Q14
170.5455	-2.22	7	6	P 6	170.8911	-2.82	16	-	23 Q 2	171.0384	-1.23	7	-	6 Q24	171.2402	-2.16	3	-	0 R 0	171.3997	-1.10	3	-	0 R21
170.5484	-2.17	5	-	3 Q 2	170.8934	-2.74	16	-	23 R 4	171.0396	-1.79	9	-	9 R13	171.2429	-1.56	7	-	6 P24	171.3997	-1.84	13	-	16 R20
170.5515	-1.75	5	-	3 R11	170.9014	-3.52	16	-	23 P 2	171.0413	-2.74	16	-	23 P 7	171.2450	-1.62	9	-	9 R20	171.4002	-2.89	15	-	20 R 1
170.5525	-1.76	10	-	11 P22	170.9015	-1.29	7	-	6 Q21	171.0421	-1.38	5	-	3 R29	171.2464	-1.72	13	-	16 Q14	171.4008	-2.77	15	-	20 R 2
170.5534	-2.02	5	-	3 Q 3	170.9062	-2.67	16	-	23 Q 3	171.0426	-2.28	16	-	23 Q 8	171.2466	-1.32	3	-	0 R12	171.4018	-1.96	12	-	14 Q 7
170.5539	-1.37	10	-	11 Q25	170.9105	-1.47	7	-	6 R26	171.0450	-2.18	14	-	18 R10	171.2496	-1.16	7	-	6 Q28	171.4032	-3.07	15	-	20 R 0
170.5599	-1.69	8	-	8 P36	170.9117	-1.25	5	-	3 Q20	171.0462	-1.61	5	-	3 P19	171.2510	-1.99	3	-	0 Q 1	171.4046	-2.67	15	-	20 R 3
170.5607	-1.91	5	-	3 Q 4	170.9157	-1.86	6	-	5 R54	171.0484	-2.26	9	-	9 P 6	171.2523	-1.44	9	-	9 Q16	171.4050	-2.53	12	-	14 P 5
170.5626	-1.60	7	6	Q10	170.9165	-2.67	16	-	23 R 3	171.0486	-2.49	13	-	16 P 6	171.2536	-2.14	13	-	16 P12	171.4080	-1.93	14	-	18 R19
170.5637	-1.72	5	-	3 R12	170.9199	-3.21	16	-	23 P 3	171.0493	-1.95	13	-	16 Q 0	171.2544	-1.76	3	-	0 Q 2	171.4113	-1.56	3	-	0 P 9
170.5660	-2.87	5	-	3 P 2	170.9208	-1.42	5	-	3 R26	171.0500	-2.07	13	-	16 R11	171.2570	-1.91	13	-	16 R17	171.4119	-1.55	9	-	9 R24
170.5677	-2.14	7	6	P 7	170.9244	-1.69	5	-	3 P16	171.0523	-1.68	9	-	9 Q 9	171.2586	-2.00	14	-	18 R16	171.4126	-2.59	15	-	20 R 4
170.5678	-1.66	7	6	R16	170.9272	-2.56	16	-	23 Q 4	171.0523	-1.43	7	-	6 R29	171.2590									

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ															
171.4902	-1.59	13-16	P19	171.7097	-2.02	12-14	P14	172.0521	-1.53	14-18	Q26	172.4092	-1.38	12-14	Q28	172.6552	-1.22	6-4	Q16	171.4925	-2.77	15-20	P5	171.7156	-1.21	3-0	P19	172.0566	-2.21	11-12	R6	172.4105	-2.04	6-4	Q20	172.6567	-1.70	6-4	P12
-171.4929	-1.11	7-6	Q32	171.7165	-0.77	3-0	Q24	172.0585	-1.80	13-16	P25	172.4143	-1.77	11-12	R20	172.6606	-1.68	11-12	R25	171.4944	-1.93	12-14	R14	-171.7170	-1.55	6-5	O57	172.0607	-1.46	12-14	Q23	172.4159	-1.82	14-18	P28	172.6617	-1.97	8-7	P10
171.4959	-1.91	6-5	P51	-171.7217	-1.89	6-5	P53	172.0621	-2.64	11-12	Q0	172.4160	-1.90	6-4	Q03	172.6644	-1.36	6-4	R22	171.4961	-2.24	16-23	R17	171.7231	-1.84	14-18	R24	172.0624	-1.69	12-14	R26	172.4186	-1.63	6-4	R11	172.6758	-1.86	11-12	P19
171.5019	-2.00	16-23	O16	171.7257	-1.94	15-20	Q13	172.0661	-2.16	11-12	R7	-172.4221	-1.33	7-6	P40	172.6783	-1.46	8-7	Q14	171.5022	-1.77	12-14	Q11	171.7268	-2.14	15-20	R15	172.0668	-2.42	11-12	Q02	172.4236	-1.79	6-4	Q04	-172.6785	-1.19	7-6	R51
171.5026	-2.37	16-23	P15	171.7281	-1.24	9-9	Q26	172.0732	-1.78	15-20	Q19	172.4270	-2.00	11-12	P14	172.6819	-1.60	8-7	R19	171.5026	-2.33	15-20	R9	171.7293	-1.79	12-14	R20	172.0742	-2.27	11-12	Q03	-172.4279	-0.97	7-6	Q44	172.6846	-1.46	11-12	Q22
171.5042	-1.98	13-16	P17	-171.7318	-1.46	9-9	R30	-172.0753	-1.53	6-5	Q60	172.4280	-2.74	6-4	P2	172.6864	-1.20	6-4	Q17	171.5064	-2.19	15-20	Q7	-171.7329	-1.30	7-6	R40	172.0770	-1.37	7-6	P36	172.4323	-1.60	6-4	R12	172.6889	-1.66	6-4	P13
171.5089	-1.51	9-9	R26	171.7330	-1.59	12-14	Q17	172.0778	-2.12	11-12	R8	172.4330	-1.70	6-4	Q05	172.6929	-1.92	8-7	P11	171.5095	-1.44	5-3	P28	171.7383	-1.98	14-18	P20	-172.0778	-1.87	6-5	P56	172.4364	-1.57	11-12	Q17	172.6971	-1.35	6-4	R23
171.5098	-1.38	3-0	P13	171.7391	-1.51	13-16	Q23	172.0789	-1.53	9-9	P28	172.4416	-2.15	8-7	R04	172.7032	-1.69	12-14	P29	171.5098	-1.44	5-3	Q0	171.7391	-1.51	13-16	Q23	-172.0789	-1.53	9-9	P28	172.4416	-2.15	8-7	R04	172.7032	-1.69	12-14	P29
171.5103	-1.80	13-16	R22	171.7409	-1.60	14-18	Q22	-172.0810	-1.01	7-6	Q40	172.4418	-2.23	8-7	R03	-172.7052	-1.30	7-6	P43	171.5104	-0.90	3-0	Q18	171.7490	-1.62	9-9	P23	-172.0826	-3.12	11-12	P2	172.4429	-2.44	6-4	P03	172.7091	-1.43	8-7	Q15
171.5107	-1.31	9-9	Q22	171.7555	-2.28	16-23	P18	172.0841	-2.16	11-12	Q04	172.4432	-2.08	8-7	R03	172.7097	-0.94	7-6	Q47	171.5139	-1.03	3-0	R25	171.7559	-2.33	15-20	P12	172.0922	-2.07	11-12	R09	172.4441	-1.63	6-4	Q06	172.7145	-1.58	8-7	R20
171.5139	-1.03	3-0	R25	171.7567	-0.76	3-0	Q25	172.0963	-1.05	3-0	P27	172.4442	-2.32	8-7	R02	172.7163	-1.67	11-12	R26	171.5200	-2.67	15-20	P6	171.7569	-1.99	12-14	P15	172.0965	-2.07	11-12	Q05	172.4468	-2.02	8-7	R06	-172.7179	-1.83	6-5	P61
171.5219	-1.33	7-6	R37	171.7570	-1.88	13-16	P21	172.0973	-1.83	12-14	P21	172.4469	-1.57	6-4	R13	172.7194	-1.18	6-4	Q18	171.5241	-1.89	14-18	R21	171.7589	-1.18	3-0	P20	172.0976	-2.81	11-12	P03	172.4487	-2.45	8-7	R07	172.7243	-1.63	6-4	P14
171.5262	-1.71	9-9	P19	-171.7656	-1.43	7-6	P32	172.1090	-2.04	11-12	R10	172.4525	-1.97	8-7	R07	172.7260	-1.88	8-7	P12	171.5268	-1.90	12-14	R15	-171.7699	-1.06	7-6	Q36	172.1111	-2.00	11-12	Q06	172.4551	-2.62	8-7	R00	172.7324	-1.33	6-4	R24
171.5311	-2.29	15-20	R10	171.7747	-1.90	15-20	Q14	172.1152	-2.60	11-12	P04	172.4557	-1.74	12-14	P26	172.7336	-1.84	11-12	P20	171.5342	-2.14	15-20	Q08	171.7765	-2.11	15-20	R16	172.1193	-2.14	15-20	P18	-172.4562	-1.85	6-5	P59	172.7420	-1.44	11-12	Q23
171.5343	-1.74	12-14	Q12	171.7788	-1.77	12-14	R21	-172.1239	-1.15	9-9	Q32	172.4569	-1.57	6-4	Q07	172.7420	-1.41	8-7	Q16	171.5343	-1.74	12-14	Q12	171.7788	-1.77	12-14	R21	-172.1239	-1.15	9-9	Q32	172.4569	-1.57	6-4	Q07	172.7420	-1.41	8-7	Q16
171.5395	-2.05	14-18	P17	171.7806	-1.57	12-14	Q18	172.1254	-1.44	12-14	Q24	172.4587	-1.75	11-12	R21	172.7493	-1.56	8-7	R21	171.5410	-0.87	3-0	O19	171.7883	-1.22	9-9	Q27	172.1262	-1.67	12-14	R27	172.4593	-2.27	6-4	P04	172.7543	-1.15	6-4	Q19
171.5410	-0.87	3-0	O19	171.7883	-1.22	9-9	Q27	172.1262	-1.67	12-14	R27	172.4593	-2.27	6-4	P04	172.7543	-1.15	6-4	Q19	171.5412	-1.66	14-18	P19	-171.7929	-1.44	9-9	R31	172.1282	-2.00	11-12	R11	172.4601	-1.92	8-7	R08	172.7605	-1.60	6-4	P15
171.5429	-1.35	3-0	P14	171.7955	-1.82	14-18	R25	172.1283	-1.94	11-12	Q07	172.4639	-1.54	6-4	R14	172.7611	-1.84	8-7	P13	171.5475	-2.18	12-14	P10	171.7991	-0.74	3-0	Q26	-172.1303	-1.25	7-6	R45	172.4657	-2.45	8-7	Q01	172.7696	-1.31	6-4	R25
171.5475	-2.18	12-14	P10	171.7991	-0.74	3-0	Q26	-172.1303	-1.25	7-6	R45	172.4657	-2.45	8-7	Q01	172.7696	-1.31	6-4	R25	171.5479	-1.57	13-16	Q20	171.8027	-1.16	3-0	O21	172.1353	-1.55	11-12	P05	-172.4678	-1.46	9-9	P33	172.7748	-1.19	7-6	R52
171.5504	-2.59	15-20	P20	171.8067	-1.96	12-14	P16	172.1364	-1.87	14-18	P25	172.4699	-2.23	8-7	Q02	172.7769	-1.38	8-7	Q17	171.5505	-1.02	3-0	R26	171.8076	-2.29	15-20	P13	172.1387	-1.51	14-18	Q27	172.4701	-1.88	8-7	R09	172.7781	-1.65	11-12	R27
171.5505	-1.02	3-0	R26	171.8076	-2.29	15-20	P13	172.1387	-1.51	14-18	Q27	172.4701	-1.88	8-7	R09	172.7781	-1.65	11-12	R27	-171.5541	-1.47	7-6	P29	-171.8083	-1.29	7-6	R41	172.1440	-1.75	15-20	Q20	172.4718	-1.51	6-4	Q08	172.7862	-1.54	8-7	R22
-171.5541	-1.47	7-6	P29	-171.8083	-1.29	7-6	R41	172.1440	-1.75	15-20	Q20	172.4718	-1.51	6-4	Q08	172.7862	-1.54	8-7	R22	171.5587	-1.09	7-6	Q33	171.8091	-1.49	13-16	Q24	172.1480	-1.89	11-12	Q08	172.4718	-1.97	11-12	P15	172.7911	-1.13	6-4	Q20
171.5587	-1.09	7-6	Q33	171.8091	-1.49	13-16	Q24	172.1480	-1.89	11-12	Q08	172.4718	-1.97	11-12	P15	172.7911	-1.13	6-4	Q20	171.5612	-1.50	9-9	R27	171.8104	-1.60	9-9	P24	172.1500	-1.97	11-12	R12	172.4760	-2.08	8-7	Q03	172.7916	-1.67	12-14	P30
171.5612	-1.50	9-9	R27	171.8104	-1.60	9-9	P24	172.1500	-1.97	11-12	R12	172.4760	-2.08	8-7	Q03	172.7916	-1.67	12-14	P30	171.5617	-1.82	6-5	R60	171.8119	-1.95	14-18	P21	172.1521	-1.51	9-9	P29	172.4777	-2.14	6-4	P05	172.7928	-1.81	11-12	P21
171.5617	-1.82	6-5	R60	171.8119	-1.95	14-18	P21	172.1521	-1.51	9-9	P29	172.4777	-2.14	6-4	P05	172.7928	-1.81	11-12	P21	171.5618	-1.88	12-14	R16	171.8272	-1.88	15-20	Q15	172.1580	-2.42	11-12	P06	172.4819	-1.84	8-7	R10	172.7992	-1.57	6-4	Q16
171.5618	-1.88	12-14	R16	171.8272	-1.88	15-20	Q15	172.1580	-2.42	11-12	P06	172.4819	-1.84	8-7	R10	172.7992	-1.57	6-4	Q16	171.5630	-1.95	13-16	P18	171.8276	-1.86	13-16	P22	-172.1600	-1.36	7-6	P37	172.4823	-1.51	6-4	R15	172.8017	-1.43	11-12	Q24
171.5630	-1.95	13-16	P18	171.8276	-1.86	13-16	P22	-172.1600	-1.36	7-6	P37	172.4823	-1.51	6-4	R15	172.8017	-1.43	11-12	Q24	171.5632	-2.25	15-20	R11	171.8286	-1.75	12-14	R22	172.1633	-1.81	12-14	P22	172.4842	-1.97	8-7	Q04	-172.8039	-1.29	7-6	P44
171.5632	-2.25	15-20	R11	171.8286	-1.75	12-14	R22	172.1633	-1.81	12-14	P22	172.4842	-1.97	8-7	Q04	-172.8039	-1.29	7-6	P44	171.5655	-2.09	15-20	Q09	171.8302	-2.09	15-20	R17	-172.1644	-1.00	7-6	Q41	-172.4849	-1.21	7-6	R49	-172.8084	-0.93	7-6	G48
171.5655	-2.09	15-20	Q09	171.8302	-2.09	15-20	R17	-172.1644	-1.00	7-6	Q41	-172.4849	-1.21	7-6	R49	-172.8084	-0.93	7-6	G48	171.5686	-1.70	12-14	Q13	171.8311	-1.54	12-14	Q19	172.1700	-1.84	11-12	Q09	172.4869	-2.92	8-7	P02	172.8087	-1.30	6-4	R26
171.5686	-1.70	12-14	Q13	171.8311	-1.54	12-14	Q19	172.1700	-1.84	11-12	Q09	172.4869	-2.92	8-7	P02	172.8087	-1.30	6-4	R26	171.5699	-1.42	5-3	P29	-171.8355	-1.54	6-5	Q58	172.1743	-1.94	11-12	R13	172.4874	-1.36	12-14	Q29	172.8138	-1.36	8-7	Q18
171.5699	-1.42	5-3	P29	-171.8355	-1.54	6-5	Q58	172.1743	-1.94	11-12	R13	172.4874	-1.36	12-14	Q29	172.8138	-1.36	8-7	Q18	171.5703	-1.79	13-16	R23	-171.8373	-1.89	6-5	P54	172.1828	-2.34	11-12	P07	172.4880	-1.46	6-4	Q09	172.8251	-1.53	8-7	R23
171.5703	-1.79	13-16	R23	-171.8373	-1.89	6-5	P54	172.1828	-2.34	11-12	P07	172.4880</																											

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
173.0032	-1.46	8	-1	R27	173.2760	-0.87	4	-1	Q19	-173.6263	-1.11	6	-4	R41	173.9376	-2.81	13	-15	P 7	-174.3348	-1.03	6	-4	R50
173.0057	-1.29	4	-1	Q 7	173.2803	-2.33	10	-10	P 8	173.6268	-2.57	14	-17	R 9	173.9409	-1.45	10	-10	Q26	174.3385	-2.21	13	-15	R22
173.0076	-1.27	7	-6	P46	173.2828	-1.68	11	-12	P28	173.6269	-2.50	14	-17	Q 6	173.9464	-2.31	14	-17	R18	174.3399	-2.65	7	-5	Q 1
173.0099	-1.23	4	-1	R15	173.2838	-1.81	10	-10	Q11	173.6318	-0.71	4	-1	Q28	173.9518	-1.83	10	-10	P23	174.3422	-2.33	14	-17	P20
173.0108	-1.99	4	-1	P 4	173.2849	-1.35	6	-4	P26	173.6353	-1.12	4	-1	P23	173.9519	-2.41	13	-15	R13	174.3431	-2.05	7	-5	R10
173.0138	-0.91	7	-6	Q50	173.2856	-1.02	6	-4	R26	-173.6381	-0.88	6	-4	Q36	173.9545	-1.02	4	-1	P29	174.3435	-2.43	7	-5	Q 2
173.0158	-1.67	8	-7	P19	173.2860	-1.56	8	-7	P24	173.6440	-3.01	14	-17	P 5	-173.9547	-1.67	10	-10	R30	174.3491	-2.28	7	-5	Q 3
173.0186	-1.44	6	-4	P21	173.3009	-1.17	8	-7	Q28	173.6475	-2.43	14	-17	Q 7	173.9550	-2.27	13	-15	Q10	-174.3515	-0.99	8	-7	Q42
173.0201	-1.23	4	-1	Q 8	173.3024	-1.32	4	-1	P15	173.6508	-2.53	14	-17	R10	-173.9599	-1.20	6	-4	P36	-174.3533	-1.36	10	-10	Q32
173.0268	-1.21	4	-1	R16	173.3039	-1.92	10	-10	R16	-173.6579	-1.32	8	-7	R38	173.9628	-2.75	13	-15	P 8	174.3550	-2.01	7	-5	R11
173.0294	-1.86	4	-1	P 5	-173.3046	-1.16	6	-4	R36	173.6614	-1.54	10	-10	Q21	173.9739	-2.09	14	-17	Q16	174.3569	-2.17	7	-5	Q 4
173.0305	-1.25	8	-7	Q23	173.3089	-0.85	4	-1	Q20	-173.6675	-1.25	6	-4	Q32	-173.9742	-1.28	8	-7	R42	174.3569	-2.39	13	-15	P17
173.0331	-1.22	6	-4	R31	173.3092	-2.27	10	-10	P 9	173.6677	-1.74	10	-10	R25	173.9796	-2.50	14	-17	P14	174.3618	-3.12	7	-5	P 2
173.0354	-1.19	4	-1	Q 9	173.3115	-1.78	10	-10	Q12	173.6692	-2.91	14	-17	P 6	173.9836	-2.39	13	-15	R14	174.3664	-2.08	7	-5	Q 5
173.0452	-1.19	4	-1	R17	-173.3199	-0.94	6	-4	Q31	173.6713	-1.94	10	-10	P18	-173.9861	-1.41	8	-7	P34	174.3678	-2.18	14	-17	R25
173.0495	-1.77	4	-1	P 6	173.3212	-1.00	4	-1	R27	-173.6714	-1.21	7	-6	P52	173.9864	-2.23	13	-15	Q11	174.3688	-1.98	7	-5	R12
173.0509	-1.02	6	-4	Q26	-173.3286	-1.24	7	-6	P49	173.6717	-0.69	4	-1	Q29	173.9961	-2.69	13	-15	P 9	-174.3753	-1.14	6	-4	P41
173.0515	-1.45	8	-7	R28	-173.3330	-1.38	8	-7	R33	173.6720	-2.38	14	-17	Q 8	173.9964	-2.29	14	-17	R19	174.3763	-2.82	7	-5	P 3
173.0526	-1.14	4	-1	Q10	-173.3353	-0.89	7	-6	Q53	173.6770	-2.50	14	-17	R11	-173.9984	-1.06	6	-4	R46	174.3777	-2.01	7	-5	Q 6
173.0582	-1.74	11	-12	P25	173.3357	-1.90	10	-10	R17	173.6800	-1.46	8	-7	P30	-174.0028	-0.82	6	-4	Q41	174.3845	-1.95	7	-5	R13
173.0654	-1.16	4	-1	R18	173.3383	-1.29	4	-1	P16	-173.6809	-0.87	7	-6	Q56	174.0045	-1.43	10	-10	Q27	-174.3857	-1.73	10	-10	P29
173.0657	-1.65	8	-7	P20	173.3403	-2.22	10	-10	P10	173.6846	-1.10	4	-1	P24	174.0056	-1.00	4	-1	P30	174.3892	-1.98	13	-15	Q20
173.0662	-1.36	11	-12	Q28	173.3413	-1.74	10	-10	Q13	-173.6936	-1.09	8	-7	Q34	-174.0068	-1.04	8	-7	Q38	174.3910	-1.95	7	-5	Q 7
173.0679	-1.42	6	-4	P22	173.3432	-0.83	4	-1	Q21	-173.6948	-0.87	6	-4	Q37	-174.0178	-1.66	10	-10	R31	174.3929	-2.65	7	-5	P 4
173.0709	-1.10	4	-1	Q11	173.3438	-1.33	6	-4	P27	-173.6967	-1.10	6	-4	R42	174.0180	-1.81	10	-10	P24	174.3958	-2.19	13	-15	R23
173.0714	-1.69	4	-1	P 7	173.3463	-1.54	8	-7	P25	173.6977	-2.83	14	-17	P 7	174.0181	-2.36	13	-15	R15	174.4008	-1.94	14	-17	Q23
173.0800	-1.23	8	-7	Q24	173.3500	-0.99	4	-1	R28	173.6990	-2.33	14	-17	Q 9	174.0203	-2.19	13	-15	Q12	174.4021	-1.92	7	-5	R14
173.0842	-1.21	6	-4	R32	173.3650	-1.15	6	-4	R37	173.7062	-2.46	14	-17	R12	174.0253	-2.07	14	-17	Q17	174.4029	-3.02	12	-13	R 3
173.0872	-1.14	8	-7	R19	173.3655	-1.67	11	-12	P29	173.7131	-1.52	10	-10	Q22	174.0317	-2.64	13	-15	P10	174.4030	-3.12	12	-13	R 2
173.0877	-1.16	7	-6	R55	-173.3682	-1.15	8	-7	Q29	173.7207	-1.73	10	-10	R26	174.0325	-2.46	14	-17	P15	174.4055	-3.24	12	-13	R 1
173.0911	-1.07	4	-1	Q12	173.3698	-1.87	10	-10	R18	173.7241	-1.92	10	-10	P19	-174.0363	-1.19	7	-6	P55	174.4055	-2.94	12	-13	R 4
173.0945	-1.62	4	-1	P 8	173.3738	-1.71	10	-10	G14	173.7280	-2.29	14	-17	Q10	-174.0390	-1.19	6	-4	P37	174.4062	-1.89	7	-5	Q 8
173.1008	-1.00	6	-4	Q27	173.3739	-2.17	10	-10	P11	173.7285	-2.76	14	-17	P 8	174.0503	-2.27	14	-17	R20	174.4105	-2.87	12	-13	R 5
173.1036	-1.43	8	-7	R29	173.3760	-1.26	4	-1	P17	173.7287	-0.68	4	-1	Q30	174.0548	-2.33	13	-15	R16	174.4109	-3.42	12	-13	R 0
173.1107	-1.12	4	-1	R20	-173.3783	-0.93	6	-4	Q32	173.7357	-1.08	4	-1	P25	174.0571	-2.16	13	-15	Q13	174.4116	-2.52	7	-5	P 5
173.1128	-1.03	4	-1	Q13	173.3802	-0.81	4	-1	Q22	-173.7384	-1.24	6	-4	P33	-174.0586	-1.27	8	-7	R43	174.4126	-2.31	14	-17	P21
173.1133	-1.26	7	-6	P47	173.3958	-0.97	4	-1	R29	173.7387	-2.43	14	-17	R13	-174.0691	-1.39	8	-7	P35	174.4143	-2.36	13	-15	P18
173.1134	-2.48	10	-10	R 3	-173.3977	-1.37	8	-7	R34	-173.7404	-1.31	8	-7	P39	174.0701	-2.59	13	-15	P11	174.4182	-2.81	12	-13	R 6
173.1144	-2.40	10	-10	R 4	173.4047	-1.31	6	-4	P28	-173.7535	-1.45	8	-7	R31	174.0738	-0.99	4	-1	P31	-174.4201	-1.34	8	-7	P39
173.1149	-2.57	10	-10	R 2	173.4081	-1.85	10	-10	R19	173.7621	-2.25	14	-17	Q11	-174.0747	-1.03	8	-7	Q39	-174.4204	-0.77	6	-4	Q46
173.1176	-2.33	10	-10	R 5	173.4085	-1.68	10	-10	Q15	173.7630	-2.71	14	-17	P 9	-174.0756	-1.42	10	-10	Q28	174.4213	-3.24	12	-13	Q 1
173.1176	-1.62	8	-7	P21	173.4090	-1.53	8	-7	P26	173.7648	-1.50	10	-10	Q23	-174.0802	-1.05	6	-4	R47	174.4217	-1.89	7	-5	R15
173.1183	-2.70	10	-10	R 1	173.4097	-2.13	10	-10	P12	-173.7681	-1.07	8	-7	Q35	-174.0805	-2.04	14	-17	Q18	174.4234	-1.85	7	-5	Q 9
173.1189	-0.91	7	-6	Q51	173.4151	-1.23	4	-1	P18	-173.7699	-1.09	6	-4	R43	-174.0822	-0.81	6	-4	Q42	-174.4246	-1.02	6	-4	R51
173.1194	-1.40	6	-4	P23	173.4191	-0.79	4	-1	Q23	173.7732	-2.41	14	-17	R14	-174.0847	-1.79	10	-10	P25	174.4263	-3.02	12	-13	Q 2
173.1199	-1.56	4	-1	P 9	-173.4217	-1.14	8	-7	Q30	-173.7755	-0.86	6	-4	Q38	-174.0870	-1.64	10	-10	R32	174.4283	-2.76	12	-13	R 7
173.1231	-2.27	10	-10	R 6	173.4276	-1.14	6	-4	R38	173.7794	-1.90	10	-10	P20	174.0873	-2.43	14	-17	P16	174.4320	-2.43	7	-5	P 6
173.1244	-2.87	10	-10	R 0	-173.4406	-0.92	6	-4	Q33	-173.7853	-1.71	10	-10	R27	174.0951	-2.31	13	-15	R17	-174.4325	-1.35	10	-10	Q33
173.1298	-1.72	11	-12	P26	-173.4415	-1.23	7	-6	P50	173.7892	-1.07	4	-1	P26	174.0963	-2.13	13	-15	Q14	-174.4337	-0.98	8	-7	Q43
173.1310	-2.22	10	-10	R 7	173.4458	-1.83	10	-10	R20	173.7909	-2.99	13	-15	R 2	174.1073	-2.25	14	-17	R21	174.4343	-2.87	12	-13	Q 3
173.1320	-1.22	8	-7	Q25	173.4459	-1.66	10	-10	Q16	173.7915	-2.89	13	-15	R 3	174.1124	-2.55	13	-15	P12	174.4413	-2.72	12	-13	R 8
173.1349	-2.70	10	-10	Q 1	173.4479	-2.10	10	-10	P13	-173.7917	-1.20	7	-6	P53	-174.1195	-1.18	6	-4	P38	174.4422	-3.72	12	-13	P 2
173.1357	-1.10	4	-1	R21	173.4499	-1.65	11	-12	P30	173.7922	-3.11	13	-15	R 1	-174.1369	-1.40	10	-10	Q29	174.4424	-1.80	7	-5	Q10
173.1359	-1.00	4	-1	Q14	-173.4508	-0.88	7	-6	Q54	173.7961	-2.81	13	-15	R 4	174.1374	-2.10	13	-15	Q15	174.4432	-1.76	7	-5	R16
173.1393	-2.48	10	-10	Q 2	173.4558	-1.21	4	-1	P19	173.7965	-3.29	13	-15	R 0	174.1380	-2.29	13	-15	R18	174.4446	-2.76	12	-13	Q 4
173.1402	-1.35	11	-12	Q29	173.4562	-0.77	4	-1	Q24	173.8002	-2.66	14	-17	P10	174.1390	-2.02	14	-17	Q19	174.4484	-1.96	13	-15	Q21
173.1411																								

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
174.5357	-2.54	9	8	R 6	174.7251	-2.24	5	2	R 3	174.9197	-1.85	7	5	P20	175.2629	-2.01	12	-13	Q25	175.6427	-2.89	11	-11	R18
174.5359	-2.97	9	8	R 1	174.7260	-.96	8	7	Q46	174.9224	-1.08	6	4	P47	175.2654	-1.25	5	2	Q24	175.6435	-1.63	7	5	P32
174.5377	-1.66	7	5	Q14	174.7286	-2.23	12	-13	Q15	174.9288	-2.05	9	8	R23	175.2843	-2.12	9	8	P22	175.6506	-1.52	5	2	P27
174.5383	-3.23	16	-21	R 7	174.7290	-1.94	5	2	R 8	174.9318	-1.47	5	2	Q14	175.2843	-1.94	9	8	R30	175.6533	-1.12	5	2	Q32
174.5388	-2.31	13	-15	P20	174.7297	-2.23	14	-17	P25	174.9379	-2.30	9	8	P15	175.2847	-1.54	7	5	R36	175.6709	-2.02	9	8	P28
174.5391	-3.14	16	-21	Q 5	174.7301	-2.34	5	2	R 2	174.9383	-1.58	5	2	R21	175.2852	-2.57	16	-21	Q20	175.6738	-3.15	11	-11	P12
174.5421	-2.49	9	8	Q 7	174.7302	-2.17	9	8	R17	174.9387	-2.69	16	-21	Q15	175.2939	-1.32	7	5	Q31	175.6744	-1.87	9	8	R36
174.5425	-3.15	9	8	R 0	174.7326	-2.82	16	-21	Q11	174.9420	-1.98	5	2	P10	175.2942	-1.42	5	2	R31	175.6795	-2.70	11	-11	Q15
174.5436	-2.54	12	-13	R13	174.7348	-1.90	5	2	R 9	174.9460	-2.32	12	-13	R23	175.3014	-1.66	5	2	P20	175.6807	-2.87	11	-11	R19
174.5450	-3.71	16	-21	P 4	174.7361	-2.46	5	2	R 1	174.9478	-2.51	12	-13	P17	175.3060	-1.72	9	8	Q26	175.6822	-1.02	6	4	P54
174.5460	-2.94	12	-13	P 7	174.7386	-1.51	7	5	Q20	174.9512	-1.62	7	5	R30	175.3064	-1.71	7	5	P27	175.6894	-1.63	9	8	Q32
174.5488	-1.78	7	5	R20	174.7392	-1.10	6	4	P45	174.9536	-2.90	16	-21	R17	175.3089	-1.23	5	2	Q25	175.6900	-1.25	7	5	Q37
174.5507	-2.45	9	8	R 8	174.7408	-3.01	16	-21	R13	174.9574	-1.45	5	2	Q15	175.3139	-2.38	12	-13	P23	175.6945	-2.29	12	-13	P28
174.5514	-1.12	6	4	P43	174.7416	-1.95	7	5	P16	174.9586	-1.86	9	8	Q19	175.3255	-2.93	16	-21	P19	175.6975	-1.48	7	5	R42
174.5516	-1.90	14	-17	Q25	174.7423	-1.86	5	2	R10	174.9594	-1.42	7	5	Q25	175.3287	-1.99	12	-13	Q26	175.7109	-1.51	5	2	P28
174.5532	-2.97	9	8	Q 1	174.7441	-2.64	5	2	R 0	174.9622	-2.11	12	-13	Q20	175.3394	-1.25	8	7	P48	175.7155	-3.11	11	-11	P13
174.5574	-2.75	9	8	Q 2	174.7462	-2.02	9	8	Q13	174.9670	-1.56	5	2	R22	175.3430	-2.10	9	8	R23	175.7207	-2.85	11	-11	R20
174.5608	-2.40	12	-13	Q10	174.7470	-2.25	13	-15	P23	174.9683	-3.07	16	-21	P14	175.3432	-1.93	9	8	R31	175.7215	-2.67	11	-11	Q16
174.5613	-2.41	9	8	R 9	174.7513	-1.82	5	2	R11	174.9690	-1.82	7	5	P21	175.3469	-1.64	5	2	P21	175.7216	-1.62	7	5	P33
174.5618	-3.07	16	-21	Q 6	174.7519	-2.15	9	8	R18	174.9703	-1.94	5	2	P11	175.3489	-1.53	7	5	R37	175.7299	-2.00	9	8	P29
174.5622	-3.18	16	-21	R 8	174.7525	-3.23	16	-21	P10	174.9789	-2.03	9	8	R24	175.3494	-1.04	6	4	P51	175.7478	-1.86	9	8	R37
174.5629	-2.12	7	5	P11	174.7533	-2.40	12	-13	R19	174.9811	-2.27	9	8	P16	175.3544	-1.21	5	2	Q26	175.7530	-2.64	11	-11	Q17
174.5638	-2.60	9	8	Q 3	174.7552	-2.49	9	8	P10	174.9812	-2.19	13	-15	P26	175.3567	-1.31	7	5	Q32	175.7582	-3.07	10	-10	P14
174.5645	-2.27	14	-17	P23	174.7553	-2.46	5	2	Q 1	174.9845	-1.42	5	2	Q16	175.3677	-1.71	9	8	Q27	175.7628	-1.62	9	8	Q33
174.5662	-1.63	7	5	Q15	174.7558	-2.64	12	-13	Q13	174.9905	-.72	6	4	Q52	175.3696	-1.69	7	5	P28	175.7635	-2.83	11	-11	Q21
174.5702	-3.58	16	-21	P 5	174.7585	-2.24	5	2	Q 2	174.9984	-1.54	5	2	R23	175.3715	-3.49	11	-11	R 3	175.7662	-1.24	7	5	Q38
174.5722	-2.51	12	-13	R14	174.7623	-1.79	5	2	R12	174.9998	-2.66	16	-21	Q16	175.3726	-3.59	11	-11	R 2	175.7715	-1.49	5	2	P29
174.5725	-2.49	9	8	Q 4	174.7637	-2.09	5	2	Q 3	175.0002	-1.90	5	2	P12	175.3728	-3.41	11	-11	R 4	175.7747	-1.47	7	5	R43
174.5741	-2.37	9	8	R10	174.7658	-1.68	7	5	R26	175.0011	-1.83	9	8	Q20	175.3761	-3.71	11	-11	R 1	175.7926	-1.61	7	5	P34
174.5746	-2.87	12	-13	P 8	174.7699	-1.98	5	2	Q 4	175.0014	-2.30	12	-13	R24	175.3767	-3.34	11	-11	R 5	175.7986	-2.62	11	-11	Q18
174.5747	-3.45	9	8	P 2	174.7701	-2.20	12	-13	Q16	175.0023	-2.49	12	-13	P18	175.3819	-3.89	11	-11	R 0	175.8010	-1.01	6	4	P55
174.5750	-1.92	13	-15	Q23	174.7749	-1.76	5	2	R13	175.0071	-1.61	7	5	R31	175.3829	-3.29	11	-11	R 6	175.8026	-3.04	11	-11	P15
174.5800	-1.76	7	5	R21	174.7763	-1.98	9	8	Q14	175.0096	-1.40	7	5	Q26	175.3852	-2.36	12	-13	P24	175.8088	-2.81	11	-11	R22
174.5831	-2.41	9	8	Q 5	174.7777	-2.94	5	2	P 2	175.0120	-1.28	8	7	P45	175.3914	-3.23	11	-11	R 7	175.8090	-1.98	9	8	P30
174.5883	-3.01	16	-21	Q 7	174.7783	-2.79	16	-21	Q12	175.0136	-1.39	5	2	Q17	175.3925	-3.71	11	-11	Q 1	175.8332	-1.47	5	2	P30
174.5891	-2.33	9	8	R11	174.7787	-1.49	7	5	Q21	175.0168	-2.88	16	-21	R18	175.3943	-1.61	5	2	P22	175.8339	-1.61	9	8	Q34
174.5892	-2.36	12	-13	Q11	174.7790	-1.90	5	2	Q 5	175.0169	-2.08	12	-13	Q21	175.3974	-3.49	11	-11	Q 2	175.8433	-1.23	7	5	Q39
174.5897	-3.15	9	8	P 3	174.7832	-1.92	7	5	P17	175.0202	-1.80	7	5	P22	175.4006	-1.98	12	-13	Q27	175.8452	-2.60	11	-11	Q19
174.5905	-3.14	16	-21	R 9	174.7857	-2.12	9	8	R19	175.0258	-2.02	9	8	R25	175.4022	-3.19	11	-11	R 8	175.8502	-3.01	11	-11	P16
174.5949	-2.08	7	5	P12	174.7873	-2.45	9	8	P11	175.0266	-2.24	9	8	P17	175.4030	-1.20	5	2	Q27	175.8521	-1.46	7	5	R44
174.5960	-2.33	9	8	Q 6	174.7882	-2.98	16	-21	R14	175.0316	-1.86	5	2	P13	175.4044	-1.92	9	8	R32	175.8562	-2.79	11	-11	R23
174.5968	-1.61	7	5	Q16	174.7890	-1.82	5	2	Q 6	175.0317	-3.04	16	-21	P15	175.4045	-3.34	11	-11	Q 3	175.8635	-1.59	7	5	P35
174.5992	-3.48	16	-21	P 6	174.7893	-1.73	5	2	R14	175.0342	-1.07	6	4	P48	175.4046	-2.08	9	8	P24	175.8905	-1.97	9	8	P31
174.6023	-.76	6	4	Q48	174.7913	-.74	6	4	Q50	175.0372	-1.52	5	2	R24	175.4090	-2.90	16	-21	P20	175.8939	-2.58	11	-11	Q20
174.6032	-2.49	12	-13	R15	174.7922	-2.64	5	2	P 3	175.0442	-1.37	5	2	Q18	175.4138	-4.19	11	-11	P 2	175.8976	-1.46	5	2	P31
174.6053	-2.29	13	-15	P21	174.7939	-1.66	10	-10	P34	175.0468	-1.81	9	8	Q21	175.4141	-3.23	11	-11	Q 4	175.9030	-2.98	11	-11	P17
174.6056	-2.81	12	-13	P 9	174.7976	-2.38	12	-13	R20	175.0553	-1.51	5	2	R25	175.4154	-1.30	7	5	Q33	175.9066	-2.77	11	-11	R24
174.6063	-2.30	9	8	R12	174.7999	-2.60	12	-13	P14	175.0560	-1.59	7	5	R32	175.4156	-3.15	11	-11	R 9	175.9120	-1.60	9	8	Q35
174.6066	-1.32	8	7	P41	174.8009	-3.18	16	-21	P11	175.0566	-2.29	12	-13	R25	175.4157	-1.69	9	8	Q28	175.9220	-1.22	7	5	Q40
174.6068	-2.97	9	8	P 4	174.8013	-1.76	5	2	Q 7	175.0596	-2.46	12	-13	P19	175.4164	-1.52	7	5	R38	175.9322	-1.45	7	5	R45
174.6090	-1.00	6	4	R53	174.8052	-1.71	5	2	R15	175.0617	-1.38	7	5	Q27	175.4260	-3.15	11	-11	Q 5	175.9446	-2.55	11	-11	Q21
174.6110	-2.27	9	8	Q 7	174.8086	-2.46	5	2	P 4	175.0651	-2.64	16	-21	Q17	175.4287	-3.11	11	-11	R10	175.9451	-2.96	11	-11	P18
174.6132	-1.74	7	5	R22	174.8091	-1.96	9	8	Q15	175.0651	-1.82	5	2	P14	175.4293	-3.89	11	-11	P 3	175.9473	-1.58	7	5	P36
174.6184	-2.95	16	-21	Q 8	174.8095	-1.66	7	5	R27	175.0730	-2.06	12	-13	Q22	175.4353	-1.68	7	5	P29	175.9578	-1.45	5	2	P32
174.6189	-1.68	10	-10	P32	174.8098	-1.30	8	7	P43	175.0735	-1.78	7	5	P23	175.4405	-3.07	11	-11	Q 6	175.9590	-2.76	11	-11	R25
174.6200	-2.32	12	-13	Q12	174.8141	-2.17	12	-13	Q17	175.0747	-2.22	9	8	P18	175.4435	-1.59	5	2	P23	175.9656	-1.96	9	8	P32
174.6225	-3.10	16	-21	R10	174.8147	-1.71																		

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
176.3391	-4.90	15.18	Q	4	176.5740	-4.71	6-3	R	3	176.7500	-4.01	16-20	R	6	176.9214	-4.30	6-3	P	14	177.1466	-3.37	13-14	R	17
176.3416	-4.00	8-6	R	9	176.5744	-4.46	6-3	R	7	176.7503	-3.61	8-6	R	25	176.9229	-4.65	15-18	P	17	177.1506	-3.29	8-6	R	28
176.3428	-4.90	15.18	R	7	176.5745	-4.05	8-6	P	11	176.7524	-4.57	14-16	P	13	176.9259	-4.18	10-9	P	10	177.1523	-3.63	16-20	R	17
176.3435	-4.57	8-6	Q	1	176.5779	-4.81	6-3	R	2	176.7549	-3.43	8-6	Q	20	176.9294	-1.11	7-5	O	51	177.1527	-3.42	16-20	Q	15
176.3439	-3.90	8-6	R	12	176.5791	-4.41	6-3	R	8	176.7555	-4.83	10-9	P	3	176.9305	-3.98	6-3	R	25	177.1550	-3.68	8-6	P	24
176.3476	-4.35	8-6	Q	2	176.5810	-4.28	14-16	Q	11	176.7567	-1.38	7-5	R	54	176.9312	-3.54	13-14	Q	6	177.1555	-3.50	8-6	R	33
176.3479	-1.17	7-5	O	45	176.5812	-4.62	15-18	R	15	176.7568	-1.38	7-5	P	45	176.9336	-4.18	13-14	Q	4	177.1559	-4.37	14-16	P	20
176.3521	-5.55	15.18	P	3	176.5827	-1.87	9-8	P	39	176.7571	-3.96	16-20	Q	4	176.9340	-3.83	10-9	R	18	177.1586	-3.19	13-14	R	14
176.3535	-4.20	8-6	Q	3	176.5830	-4.44	14-16	R	14	176.7594	-4.02	10-9	R	11	176.9359	-3.57	13-14	R	10	177.1596	-3.96	10-9	P	16
176.3541	-3.97	8-6	R	10	176.5842	-4.94	6-3	R	1	176.7624	-3.98	6-3	Q	13	176.9362	-3.36	8-6	Q	24	177.1655	-4.13	6-3	P	20
176.3572	-4.81	15.18	O	5	176.5858	-4.37	6-3	R	9	176.7629	-4.02	10-9	Q	6	176.9363	-3.55	8-6	R	29	177.1729	-3.72	10-9	R	24
176.3607	-4.85	15.18	R	8	176.5876	-4.74	14-16	P	9	176.7632	-4.61	16-20	P	3	176.9387	-3.77	8-6	P	20	177.1730	-1.44	7-5	P	49
176.3616	-4.09	8-6	Q	4	176.5917	-5.11	6-3	R	0	176.7672	-4.51	6-3	P	9	176.9382	-3.82	6-3	Q	19	177.1763	-4.42	15-18	R	25
176.3657	-5.05	8-6	P	2	176.5935	-4.33	6-3	R	10	176.7684	-3.96	16-20	R	7	176.9430	-4.01	16-20	P	9	177.1791	-3.70	6-3	R	25
176.3676	-1.41	7-5	R	50	176.5973	-3.68	8-6	R	21	176.7730	-4.07	6-3	R	20	176.9461	-4.05	14-16	Q	19	177.1802	-3.61	13-14	P	12
176.3697	-3.93	8-6	R	11	176.5975	-3.53	8-6	Q	16	176.7732	-4.66	10-9	P	4	176.9498	-3.48	13-14	Q	7	177.1809	-1.35	7-5	R	58
176.3725	-5.37	15.18	P	4	176.5996	-4.85	15-18	P	11	176.7754	-3.87	16-20	Q	5	176.9509	-3.67	10-9	R	14	177.1867	-3.52	10-9	Q	20
176.3726	-4.00	8-6	Q	5	176.6017	-4.42	15-18	Q	13	176.7776	-3.99	10-9	R	12	176.9546	-3.74	16-20	R	13	177.1876	-3.35	13-14	R	18
176.3744	-5.04	14.16	R	2	176.6028	-2.76	11-11	P	28	176.7786	-3.96	10-9	Q	7	176.9546	-4.05	13-14	P	5	177.1921	-3.80	16-20	P	14
176.3749	-1.52	7-5	P	61	176.6031	-4.94	6-3	Q	1	176.7789	-4.53	15-18	R	19	176.9577	-4.27	6-3	P	15	177.1994	-3.16	13-14	P	15
176.3754	-4.95	14.16	R	3	176.6033	-4.30	6-3	R	11	176.7842	-4.43	16-20	P	4	176.9581	-3.55	16-20	Q	11	177.2000	-4.18	15-18	Q	23
176.3756	-5.17	14.16	R	1	176.6069	-4.71	6-3	Q	2	176.7870	-4.13	14-16	Q	16	176.9582	-3.54	13-14	R	11	177.2017	-3.97	14-16	Q	23
176.3759	-3.87	8-6	R	13	176.6092	-4.00	8-6	P	12	176.7874	-3.96	6-3	Q	14	176.9590	-4.14	10-9	P	11	177.2041	-4.55	15-18	P	21
176.3769	-4.74	15.18	Q	6	176.6119	-4.57	6-3	Q	3	176.7904	-3.91	16-20	R	8	176.9592	-1.46	7-5	P	47	177.2064	-3.93	10-9	P	17
176.3796	-4.87	14.16	R	4	176.6151	-4.27	6-3	R	12	176.7925	-3.84	8-6	P	17	176.9606	-4.27	14-16	R	22	177.2097	-3.27	8-6	Q	29
176.3799	-2.81	11.11	P	25	176.6164	-4.25	14-16	Q	12	176.7929	-4.53	10-9	P	5	176.9614	-4.47	15-18	R	22	177.2107	-3.39	16-20	P	19
176.3804	-5.34	14.16	R	0	176.6193	-4.46	6-3	Q	4	176.7938	-3.60	8-6	R	26	176.9646	-1.36	7-5	R	56	177.2108	-3.61	16-20	R	18
176.3809	-4.74	8-6	P	3	176.6197	-4.41	14-16	R	15	176.7946	-4.46	6-3	P	10	176.9651	-4.44	14-16	P	17	177.2124	-4.11	6-3	P	31
176.3826	-4.81	15.18	R	9	176.6246	-4.69	14-16	P	10	176.7960	-4.32	14-16	R	19	176.9680	-3.97	6-3	R	26	177.2145	-3.67	8-6	P	25
176.3845	-3.93	8-6	Q	6	176.6256	-1.14	7-5	O	48	176.7965	-3.91	10-9	Q	9	176.9681	-3.81	10-9	R	19	177.2158	-3.49	8-6	R	34
176.3868	-4.80	14.16	R	5	176.6258	-5.41	6-3	P	2	176.7967	-3.90	16-20	Q	6	176.9715	-3.42	13-14	Q	8	177.2206	-3.70	10-9	R	25
176.3879	-3.87	8-6	Q	7	176.6259	-4.59	15-18	R	16	176.7973	-3.41	8-6	Q	21	176.9737	-3.80	6-3	Q	20	177.2237	-3.57	13-14	P	13
176.3907	-5.25	15.18	P	5	176.6280	-4.37	6-3	Q	5	176.7981	-3.96	10-9	R	13	176.9787	-3.95	13-14	P	6	177.2255	-3.69	6-3	Q	26
176.3908	-5.17	14.16	Q	1	176.6287	-4.24	6-3	R	13	176.8008	-4.05	6-3	R	21	176.9827	-3.51	13-14	R	12	177.2257	-4.34	14-16	P	19
176.3945	-1.89	9-8	P	37	176.6327	-3.67	8-6	R	22	176.8011	-4.53	14-16	P	14	176.9846	-3.64	10-9	Q	15	177.2324	-3.33	13-14	R	17
176.3965	-4.95	14.16	Q	2	176.6380	-3.50	8-6	Q	17	176.8018	-4.31	15-18	P	17	176.9856	-3.96	16-20	P	10	177.2340	-3.50	10-9	Q	21
176.3969	-4.74	14.16	R	6	176.6385	-4.30	6-3	Q	6	176.8020	-4.70	15-18	Q	15	176.9861	-4.24	15-18	Q	10	177.2428	-3.13	13-14	P	16
176.3979	-4.57	8-6	P	4	176.6409	-5.11	6-3	P	3	176.8084	-4.31	16-20	P	5	176.9868	-3.34	8-6	Q	25	177.2530	-3.76	16-20	P	15
176.3995	-4.67	15.18	Q	7	176.6434	-3.93	8-6	P	14	176.8138	-3.92	6-3	Q	15	176.9878	-3.54	8-6	R	30	177.2534	-1.09	7-5	O	54
176.4027	-3.84	8-6	R	14	176.6437	-4.21	6-3	R	14	176.8151	-4.44	10-9	P	6	176.9884	-4.62	15-18	P	18	177.2549	-4.40	15-18	R	26
176.4057	-4.80	14.16	Q	3	176.6453	-4.81	15-18	P	12	176.8159	-3.87	16-20	R	9	176.9884	-3.74	8-6	P	21	177.2555	-3.91	10-9	R	16
176.4075	-4.77	15.18	R	10	176.6467	-4.39	15-18	Q	14	176.8166	-3.86	10-9	Q	9	176.9947	-4.09	10-9	P	12	177.2613	-4.09	6-3	P	32
176.4100	-4.69	14.16	R	7	176.6471	-3.97	8-6	P	13	176.8207	-3.93	10-9	R	14	176.9955	-4.24	6-3	P	16	177.2664	-3.26	8-6	Q	30
176.4117	-5.65	14.16	P	2	176.6510	-4.24	6-3	Q	7	176.8218	-3.74	16-20	Q	7	176.9960	-3.37	13-14	Q	9	177.2695	-3.54	13-14	P	14
176.4118	-3.82	8-6	Q	8	176.6546	-4.21	14-16	Q	13	176.8240	-4.41	6-3	P	11	176.9984	-3.71	16-20	R	14	177.2710	-3.69	10-9	R	26
176.4170	-4.44	8-6	P	5	176.6567	-1.38	7-5	R	53	176.8265	-1.12	7-5	O	50	177.0013	-3.51	16-20	Q	12	177.2720	-3.37	16-20	Q	17
176.4172	-4.69	14.16	Q	4	176.6572	-1.49	7-5	P	44	176.8306	-4.03	6-3	R	22	177.0044	-3.79	10-9	R	20	177.2735	-3.59	16-20	R	19
176.4192	-5.15	15.18	P	8	176.6573	-4.94	6-3	P	4	176.8368	-4.51	15-18	R	20	177.0054	-4.03	14-16	Q	20	177.2736	-3.96	14-16	Q	24
176.4254	-4.62	15.18	Q	6	176.6593	-4.39	14-16	R	16	176.8370	-4.21	16-20	P	6	177.0055	-3.87	13-14	P	7	177.2744	-3.67	6-3	Q	27
176.4260	-4.65	14.16	R	8	176.6609	-4.18	6-3	P	15	176.8371	-4.10	14-16	Q	17	177.0067	-3.95	6-3	R	27	177.2763	-3.65	8-6	P	26
176.4262	-3.82	8-6	R	15	176.6641	-4.65	14-16	P	11	176.8388	-3.81	10-9	Q	10	177.0100	-3.48	13-14	R	13	177.2779	-3.48	8-6	R	35
176.4278	-5.34	14.16	P	3	176.6651	-4.18	6-3	Q	8	176.8391	-3.82	8-6	P	17	177.0112	-3.78	6-3	Q	21	177.2789	-3.31	13-14	R	24
176.4316	-3.77	8-6	Q	9	176.6698	-3.65	8-6	R	23	176.8393	-3.58	8-6	R	27	177.0204	-3.62	10-9	P	16	177.2789	-4.16	15-18	Q	24
176.4317	-4.60	14.16	Q	5	176.6736	-4.57	15-18	R	17	176.8393	-4.36	10-9	P	7	177.0220	-4.25	14-16	Q	23	177.2825	-1.43	7-5	P	50
176.4354	-4.74	15.18	R	11	176.6758	-3.48	8-6	Q	18	176.8415	-3.39	8-6	Q	22	177.0231	-3.33	13-14	R	10	177.2829	-4.53	15-18	R	22
176.4391	-4.35	8-6	P	6																				

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ															
177.4796	-3.30	16-20	Q20	177.7389	-2.96	12-12	R 7	-178.1124	-1.38	7- 5	P57	178.5351	-2.68	9- 7	P 7	178.9421	-2.61	11-10	R 4	177.4807	-3.42	13-14	P18	177.7415	-1.46	4- 0	R24	178.1155	-2.80	12-12	P14	178.5361	-2.11	7- 4	R12	178.9435	-2.79	11-10	R 2
177.4815	-1.83	4- 0	R 9	177.7425	-3.21	12-12	Q 2	178.1200	-3.24	13-14	P27	178.5396	-2.20	5- 7	R16	178.9448	-1.62	7- 4	Q21	177.4892	-2.03	4- 0	R 5	-177.7426	-1.40	7- 5	P54	178.1202	-2.37	12-12	Q17	178.5398	-3.25	7- 4	P 2	178.9450	-2.55	11-10	R 5
177.4903	-1.97	4- 0	R 6	177.7500	-3.07	12-12	Q 3	178.1277	-1.13	4- 0	Q27	178.5438	-2.21	7- 4	Q 5	178.9474	-2.91	11-10	R 1	177.4909	-2.10	4- 0	R 4	177.7506	-2.91	12-12	R 8	178.1353	-2.55	12-12	R21	-178.5495	-3.43	8- 6	P42	178.9477	-1.99	9- 7	R27
177.4923	-1.80	4- 0	R10	177.7526	-3.18	13-14	R28	178.1390	-1.55	4- 0	P22	178.5496	-2.09	9- 7	Q11	178.9496	-1.79	7- 4	R27	177.4937	-3.24	13-14	R24	-177.7543	-3.17	8- 6	Q37	178.1441	-2.87	13-14	Q30	178.5502	-2.08	7- 4	R13	178.9502	-2.49	11-10	R 6
177.4940	-2.18	4- 0	R 3	177.7564	-1.33	4- 0	Q17	178.1617	-2.77	12-12	P15	178.5551	-2.14	7- 4	Q 6	178.9540	-3.09	11-10	R 0	177.4966	-1.92	4- 0	R 7	177.7593	-3.91	12-12	P 2	178.1626	-1.12	4- 0	Q28	178.5555	-2.95	7- 4	P 3	-178.9569	-3.39	8- 6	P46
177.4965	-3.63	10- 9	R30	177.7599	-2.94	13-14	P25	178.1653	-2.34	12-12	Q18	178.5571	-2.57	12-12	P22	178.9579	-2.44	11-10	R 7	177.4991	-2.27	4- 0	R 2	177.7601	-2.96	12-12	Q 4	-178.1657	-3.12	8- 6	O42	178.5582	-2.20	12-12	Q25	178.9640	-2.05	7- 4	P17
177.5020	-1.76	4- 0	R11	177.7609	-1.83	4- 0	O12	-178.1791	-3.48	8- 6	P38	178.5608	-2.61	9- 7	P 8	178.9650	-2.91	11-10	Q 1	177.5022	-3.02	13-14	Q21	-177.7641	-3.35	10- 9	Q30	178.1831	-2.53	12-12	R22	178.5635	-1.41	4- 0	P30	178.9678	-2.39	11-10	R 0
177.5051	-1.87	4- 0	R 8	177.7649	-2.87	12-12	R 9	178.1863	-1.53	4- 0	Q23	178.5658	-2.18	9- 7	R17	178.9695	-2.69	11-10	Q 2	177.5052	-3.41	10- 9	Q26	-177.7656	-3.54	8- 6	P33	-178.1861	-3.64	10- 9	P32	178.5670	-2.05	7- 4	R14	178.9767	-2.55	11-10	Q 3
177.5058	-2.40	4- 0	R 1	177.7725	-1.44	4- 0	R25	-178.1971	-3.36	8- 6	R47	178.5680	-2.08	7- 4	Q 7	178.9803	-2.35	11-10	R 9	177.5076	-1.42	7- 5	P52	177.7728	-2.87	12-12	Q 5	178.2053	-3.22	13-14	P28	178.5726	-2.78	7- 4	P 4	178.9822	-2.20	9- 7	P19
177.5126	-1.73	4- 0	R12	177.7750	-3.61	12-12	P 3	178.2104	-2.74	12-12	P16	178.5745	-2.06	9- 7	Q12	178.9858	-1.60	7- 4	Q22	177.5144	-2.57	4- 0	R 0	-177.7762	-3.40	8- 6	R42	178.2119	-1.10	4- 0	Q29	-178.5774	-3.32	8- 6	R51	178.9859	-2.44	11-10	Q 4
177.5249	-1.70	4- 0	R13	177.7817	-2.83	12-12	R10	178.2138	-2.32	12-12	Q19	178.5831	-2.02	7- 4	Q 8	178.9872	-3.39	11-10	P 2	177.5259	-2.40	4- 0	Q 1	177.7826	-3.94	6- 3	P31	-178.2149	-1.03	7- 5	O62	178.5850	-2.02	7- 4	R15	178.9883	-1.78	9- 7	Q23
177.5271	-1.32	7- 5	R61	177.7859	-1.31	4- 0	Q18	178.2321	-2.51	12-12	R23	178.5887	-2.55	7- 4	P 9	-178.9910	-3.29	8- 6	R55	177.5293	-2.18	4- 0	Q 2	177.7877	-2.80	12-12	Q 6	178.2350	-1.51	4- 0	P24	178.5917	-2.65	7- 4	P 5	178.9926	-1.78	7- 4	R28
177.5328	-4.00	6- 3	P27	177.7933	-3.43	12-12	P 4	-178.2412	-1.37	7- 5	P58	178.5943	-2.15	7- 4	R18	178.9950	-2.31	11-10	P10	177.5337	-3.66	16-20	P19	177.7940	-1.80	4- 0	P13	-178.2548	-3.11	8- 6	Q43	178.5995	-1.97	7- 4	Q 9	178.9951	-2.48	12-12	R28
177.5341	-2.03	4- 0	Q34	177.8010	-2.80	12-12	R11	178.2615	-2.71	12-12	P17	178.6016	-2.02	9- 7	Q13	-178.9963	-1.98	9- 7	R28	177.5355	-4.11	15-18	Q27	177.8053	-2.74	12-12	Q 7	-178.2686	-3.47	8- 6	P39	178.6127	-2.55	7- 4	P 6	179.0028	-3.09	11-10	P 3
177.5357	-3.79	10- 9	P23	177.8086	-3.31	13-14	Q23	178.2722	-3.63	10- 9	P33	178.6184	-1.93	7- 4	Q10	179.0071	-2.02	7- 4	P18	177.5364	-4.27	14-16	P25	177.8090	-1.43	4- 0	R26	178.2837	-2.50	12-12	R24	178.6184	-2.50	9- 7	P10	179.0115	-2.28	11-10	Q 6
177.5389	-4.47	15-18	R25	177.8142	-3.31	12-12	P 5	178.2856	-1.49	4- 0	P25	178.6240	-2.57	12-12	P23	179.0121	-2.28	11-10	R11	177.5401	-3.40	13-14	P19	177.8166	-1.28	4- 0	Q19	-178.2894	-3.35	8- 6	R48	178.6249	-2.13	9- 7	R19	179.0211	-2.91	11-10	P 4
177.5403	-1.67	4- 0	R14	177.8229	-2.77	12-12	R12	178.2919	-3.21	13-14	P29	178.6266	-2.19	12-12	Q26	179.0277	-2.21	11-10	Q 7	177.5407	-1.92	4- 0	Q 4	177.8240	-3.16	13-14	R29	178.3156	-2.68	12-12	P18	178.6269	-1.97	7- 4	R17	179.0294	-1.58	7- 4	Q23
177.5436	-3.58	8- 6	P30	177.8255	-2.68	12-12	Q 8	178.3180	-2.28	12-12	Q21	178.6306	-1.99	9- 7	Q14	179.0317	-2.24	11-10	R12	177.5477	-3.43	8- 6	R39	177.8273	-4.42	15-18	P28	178.3379	-1.48	4- 0	P26	-178.6328	-3.07	8- 6	O47	179.0334	-2.18	9- 7	P20
177.5489	-1.83	4- 0	Q 5	177.8280	-1.76	4- 0	P14	178.3404	-2.48	12-12	R25	178.6354	-2.47	7- 4	P 7	179.0374	-1.76	7- 4	R29	177.5494	-2.87	4- 0	P 2	177.8316	-2.93	13-14	Q26	-178.3467	-3.10	8- 6	O44	178.6388	-1.89	7- 4	Q11	179.0386	-1.77	9- 7	Q24
177.5498	-1.62	4- 0	R16	-177.8323	-3.16	8- 6	Q38	-178.3594	-3.45	8- 6	P40	-178.6485	-1.35	7- 5	P61	179.0413	-2.79	11-10	P 5	177.5547	-3.22	13-14	R25	-177.8344	-1.05	7- 5	O59	-178.3595	-3.62	10- 9	P34	-178.6488	-3.42	8- 6	P43	179.0465	-2.16	11-10	Q 8
177.5584	-3.62	10- 9	R31	-177.8350	-3.34	10- 9	Q31	-178.3716	-2.66	12-12	P19	178.6506	-2.46	9- 7	P11	-179.0484	-3.03	8- 6	Q51	177.5585	-1.76	4- 0	Q 6	177.8356	-1.41	4- 0	R27	-178.3731	-1.36	7- 5	P59	178.6507	-1.95	7- 4	R18	-179.0487	-1.96	9- 7	R29
177.5611	-1.64	4- 0	R15	177.8377	-3.21	12-12	P 6	178.3739	-2.26	12-12	Q22	178.6576	-2.11	9- 7	R20	179.0519	-2.00	7- 4	P19	177.5633	-3.00	13-14	Q22	-177.8432	-3.53	8- 6	P34	-178.3815	-3.4	8- 6	R49	178.6598	-2.41	7- 4	P 8	179.0539	-2.21	11-10	R13
177.5642	-2.57	4- 0	P 3	177.8474	-2.74	12-12	R13	178.3829	-3.19	13-14	P30	178.6604	-1.85	7- 4	Q12	179.0640	-2.69	11-10	P 6	177.5665	-3.40	10- 9	Q27	177.8480	-2.63	12-12	Q 9	178.3879	-2.68	9- 7	R 4	178.6619	-1.96	9- 7	Q15	-179.0647	-3.38	8- 6	P47
177.5705	-1.70	4- 0	Q 7	177.8490	-1.26	4- 0	Q20	178.3885	-2.76	9- 7	R 3	-178.6745	-3.31	8- 6	R52	179.0676	-2.11	11-10	Q 9	177.5719	-1.60	4- 0	R17	-177.8559	-3.39	8- 6	R43	178.3890	-2.61	9- 7	R 5	178.6764	-1.93	7- 4	R19	179.0734	-1.56	7- 4	Q24
177.5809	-2.40	4- 0	P 4	177.8635	-3.13	12-12	P 7	178.3914	-2.85	9- 7	R 2	178.6846	-2.41	9- 7	P12	179.0798	-2.48	15-17	R 2	177.5841	-1.64	4- 0	Q 8	177.8637	-1.73	4- 0	P15	178.3922	-2.55	9- 7	R 6	178.6852	-1.82	7- 4	Q13	179.0801	-2.96	12-12	P29
177.5927	-1.57	4- 0	R18	-177.8648	-1.39	7- 5	P55	178.3924	-1.46	4- 0	P27	178.6864	-2.35	7- 4	P 9	179.0802	-2.19	11-10	R14	177.5932	-3.98	6- 3	P28	177.8731	-2.59	12-12	Q10	178.3965	-2.98	9- 7	R 1	178.6875	-2.17	12-12	Q27	179.0820	-2.89	15-17	R 3
177.5987	-1.06	7- 5	O57	177.8732	-1.40	4- 0	R28	178.3968	-2.46	12-12	R26	178.6925	-2.09	9- 7	R21	179.0822	-3.11	15-17	R 1	177.5991	-2.27	4- 0	P 5	177.8744	-2.71	12-12	R14	178.4034	-3.15	9- 7	R 0	178.6953	-1.94	9- 7	Q16	179.0861	-3.28	15-17	R 4
177.5997	-1.60	4- 0	Q 9	177.8808	-3.29	13-14	P24	178.4048	-2.46	9- 7	R 8	178.7038	-1.91	7- 4	R20	179.0866	-2.15	9- 7	P21	177.6025	-3.37	13-14	P20	177.8825	-1.24	4- 0	Q21	178.4145	-2.41	9- 7	R 9	178.7109	-1.79	7- 4	Q14	179.0868	-2.81	15-17	R 7
177.6054	-3.19	8- 6	Q35	177.8919	-3.07	12-12	P 8	178.4146	-2.98	9- 7	Q 1	178.7143	-2.30	7- 4	P10	179.0891	-2.61	11-10	P 4	177.6130	-3.63	16-20	P20	177.9008	-2.55	12-12	Q11	178.4190	-2.76	9- 7	Q 2	178.7208	-2.38	9- 7	P13	179.0911	-2.07	11-10	Q10
177.6141	-1.55	4- 0	R19	177.9025	-1.70	4- 0	P16	178.4251	-2.61	9- 7	Q 3	178.7295	-2.08	9- 7	R22	179.0915	-1.75	9- 7	Q25	177.6154	-3.57	8- 6	P31	177.9038	-2.68	12-12	R15	178.4260	-2.38	9- 7	R10	178.7307	-1.91	9- 7	Q17	179.0950	-2.74	15-17	R 5
177.6180	-1.55	4- 0	Q10	177.9060	-2.91	13-14	Q27	178.4310	-2.63	12-12	P20	178.7330	-3.06	8- 6	O48	179.0968	-3.11	15-17	Q 1	177.6183	-3.21	13-14	R26	-177.9084	-3.32	10- 9	Q32	178.4326	-2.24	12-12	Q23	178.7333	-1.89	7- 4	R21	179.0987	-1.97	7	

Table 7. (Cont.)

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Table with multiple columns containing astronomical data points including wave numbers (e.g., 180.5968, 180.6011, 180.6022), LOGGF values (e.g., -1.92, -1.66, -2.21), and other parameters like VX, VA, XJ, and R. The data is organized in a grid-like fashion.

Table 7. (Cont.)

Table with multiple columns: WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ. Contains numerical data for various astronomical observations.

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Table 7. (Cont.)

Table with 14 columns: WAVE, LOGGF, VX, VA, XJ. The table contains astronomical data organized in groups, likely by wavelength ranges (e.g., 190.2181-190.2818, 190.2819-190.3456, etc.). Each row lists specific values for WAVE, LOGGF, VX, VA, and XJ.

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Table 7. (Cont.)

Table with multiple columns: WAVE, LOGGF, VX, VA, XJ. It contains a dense grid of data points representing astronomical observations.

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Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
206.4884	-2.13	15-10	P21		206.8230	-4.77	8-0	Q 2		207.0085	-1.97	11-4	P11		207.4604	-2.51	20-18	R 9		-207.8591	-1.35	11-4	R40	
206.4905	-2.22	17-13	Q 8		206.8259	-2.27	11-4	Q 2		207.00925	-4.43	8-0	P12		-207.4612	-1.93	15-10	P33		207.8612	-2.14	21-20	Q14	
206.4941	-2.27	17-13	R13		206.8261	-4.15	8-0	R19		207.1008	-3.88	8-0	Q19		207.4622	-2.65	21-20	Q 4		207.8694	-2.02	17-13	P28	
206.4976	-2.57	22-23	R14		206.8265	-1.77	11-4	R14		207.1012	-1.54	11-4	R25		207.4642	-2.65	21-20	R 7		207.8838	-4.03	8-0	P23	
206.5043	-2.79	13-7	P20		206.8268	-1.90	17-13	Q17		207.1038	-2.00	17-13	R26		207.4706	-2.44	20-18	Q 6		207.8872	-1.55	11-4	P27	
206.5044	-2.55	13-7	R31		206.8277	-4.63	8-0	Q 3		-207.1076	-1.98	15-10	P29		-207.4713	-1.43	11-4	R33		-207.8879	-1.14	11-4	G33	
206.5130	-2.36	13-7	Q25		206.8317	-2.12	11-4	Q 3		-207.1100	-2.23	13-7	Q34		207.4727	-3.08	20-18	P 4		207.8958	-2.04	20-18	G16	
206.5135	-2.75	17-13	P 6		-206.8341	-1.65	15-10	Q30		207.1107	-1.43	11-4	Q17		207.4736	-3.30	21-20	P 3		-207.8979	-2.13	13-7	Q43	
206.5166	-2.17	17-13	Q 9		206.8343	-4.52	8-0	Q 4		207.1113	-2.62	13-7	P29		207.4773	-1.69	11-4	P20		207.8991	-2.32	21-20	R17	
206.5238	-2.24	17-13	R14		206.8396	-2.02	11-4	Q 4		207.1144	-1.80	17-13	Q22		207.4791	-1.71	17-13	Q27		207.8996	-2.23	20-18	R19	
206.5241	-2.34	22-23	Q13		206.8418	-1.74	11-4	R15		-207.1173	-2.44	13-7	R40		207.4836	-2.56	21-20	Q 5		-207.9017	-2.50	13-7	P38	
-206.5273	-1.22	12-6	Q53		206.8424	-4.43	8-0	Q 5		207.1242	-1.93	11-4	P12		207.4861	-1.25	11-4	Q26		207.9190	-2.44	20-18	P14	
206.5369	-2.73	22-23	P12		206.8427	-2.33	17-13	P14		207.1245	-2.54	22-23	P18		207.4873	-2.47	20-18	R10		207.9221	-2.52	21-20	P13	
206.5429	-1.71	15-10	Q26		206.8436	-2.03	15-10	P26		207.1297	-4.39	8-0	P13		207.4885	-2.60	21-20	R 8		207.9246	-2.11	21-20	Q15	
-206.5433	-1.91	15-10	R31		206.8444	-4.13	8-0	R20		207.1328	-3.86	8-0	Q20		207.4897	-3.70	8-0	Q29		-207.9277	-1.34	11-4	R41	
206.5445	-2.67	17-13	P 7		206.8494	-1.93	11-4	Q 5		207.1379	-1.52	11-4	R26		207.4941	-2.95	20-18	P 5		207.9486	-4.01	8-0	P30	
206.5451	-2.13	17-13	Q10		206.8503	-5.47	8-0	P 2		207.1428	-2.19	17-13	P19		207.4966	-2.38	20-18	Q 7		207.9536	-1.54	11-4	P28	
-206.5526	-1.58	12-6	P48		206.8512	-2.97	11-4	P 2		207.1446	-1.40	11-4	Q18		207.4995	-3.12	21-20	P 4		-207.9537	-1.13	11-4	G34	
206.5550	-2.11	15-10	P22		206.8518	-4.36	8-0	Q 6		207.1608	-1.89	11-4	P13		207.5006	-4.15	8-0	P22		207.9592	-2.01	20-18	R17	
206.5560	-2.22	17-13	R15		206.8591	-1.71	11-4	R16		207.1656	-3.84	8-0	Q21		-207.5007	-1.41	11-4	R34		207.9646	-2.21	20-18	Q20	
-206.5600	-2.53	13-7	R32		206.8608	-1.86	11-4	Q 6		207.1675	-4.36	8-0	P14		207.5086	-2.49	21-20	Q 6		207.9662	-2.30	21-20	R18	
206.5626	-2.76	13-7	P21		206.8629	-2.07	17-13	R22		-207.1703	-1.59	15-10	Q34		-207.5129	-2.17	13-7	Q39		207.9844	-2.41	20-18	P15	
206.5700	-2.34	13-7	Q26		206.8640	-4.30	8-0	Q 7		-207.1759	-1.53	12-6	P53		207.5163	-2.09	17-13	P24		207.9902	-2.49	21-20	P14	
206.5767	-2.09	17-13	Q11		206.8641	-4.11	8-0	R21		207.1761	-1.51	11-4	R27		207.5169	-2.56	21-20	R 9		207.9923	-2.08	21-20	Q16	
206.5772	-2.54	22-23	R15		206.8686	-5.17	8-0	P 3		-207.1805	-1.38	11-4	Q19		207.5177	-2.44	20-18	R11		-207.9968	-1.33	11-4	R42	
206.5786	-2.60	17-13	P 8		206.8704	-2.67	11-4	P 3		-207.1809	-1.97	15-10	P30		-207.5262	-2.55	13-7	P34		-207.9997	-2.12	13-7	Q44	
206.5911	-2.19	17-13	R16		206.8740	-1.79	11-4	Q 7		-207.1822	-1.78	17-13	Q23		207.5263	-2.32	20-18	Q 8		-208.0041	-2.48	13-7	P39	
206.6055	-2.31	22-23	Q14		206.8776	-4.24	8-0	Q 8		-207.1882	-2.60	13-7	P30		207.5291	-2.86	20-18	P 6		-208.0215	-1.12	11-4	Q35	
206.6110	-2.05	17-13	Q12		206.8782	-1.69	11-4	R17		-207.1897	-2.21	13-7	Q35		207.5292	-3.00	21-20	P 5		208.0216	-1.52	11-4	P29	
206.6126	-1.69	15-10	Q27		206.8788	-1.88	17-13	Q18		207.2001	-3.82	8-0	Q22		207.5301	-1.67	11-4	P21		208.0248	-2.96	19-16	R 3	
206.6143	-2.09	15-10	P23		206.8853	-4.09	8-0	R22		207.2012	-1.86	11-4	P14		207.5376	-1.23	11-4	Q27		208.0257	-3.05	19-16	R 2	
206.6153	-2.55	17-13	P 9		206.8878	-2.23	22-23	Q17		-207.2036	-2.43	13-7	R41		207.5379	-2.42	21-20	Q 7		208.0260	-1.99	20-18	Q18	
-206.6168	-1.90	15-10	R32		206.8879	-2.67	13-7	P26		207.2069	-4.33	8-0	P15		-207.5442	-2.39	13-7	R45		208.0275	-2.88	19-16	R 4	
206.6193	-2.69	22-23	P13		206.8888	-5.00	8-0	P 4		207.2115	-2.17	17-13	P20		207.5497	-2.52	21-20	R10		208.0289	-3.18	19-16	R 1	
-206.6227	-2.52	13-7	R33		206.8895	-1.74	11-4	Q 8		207.2169	-1.49	11-4	R28		207.5508	-4.13	8-0	Q23		208.0335	-2.19	20-18	R21	
206.6230	-2.74	13-7	P22		-206.8899	-2.27	13-7	Q31		207.2185	-1.36	11-4	Q20		207.5528	-2.41	20-18	R12		208.0339	-2.81	19-16	R 5	
206.6292	-2.17	17-13	R17		206.8910	-2.49	11-4	P 4		-207.2363	-3.80	8-0	Q23		-207.5564	-1.40	11-4	R35		208.0362	-3.35	19-16	R 0	
206.6294	-2.32	13-7	Q27		-206.8923	-2.47	13-7	R37		207.2421	-1.82	11-4	P15		207.5588	-2.28	20-18	Q 9		208.0381	-2.28	21-20	R19	
206.6484	-2.02	17-13	Q13		206.8934	-4.19	8-0	Q 9		207.2499	-4.30	8-0	P16		-207.5634	-1.91	15-10	P34		208.0434	-2.75	19-16	R 6	
-206.6510	-1.21	12-6	Q54		-206.8945	-1.20	12-6	Q56		207.2499	-2.52	22-23	P19		207.5640	-2.90	21-20	P 6		208.0500	-3.18	19-16	Q 1	
206.6553	-2.49	17-13	P10		206.8964	-2.30	17-13	P15		207.2525	-1.76	17-13	Q24		207.5654	-2.78	20-18	P 7		208.0536	-2.38	20-18	P16	
206.6646	-2.52	22-23	R16		206.8993	-1.67	11-4	R18		207.2580	-1.34	11-4	Q21		207.5714	-2.37	21-20	Q 8		208.0563	-2.70	19-16	R 7	
206.6699	-2.15	17-13	R18		206.9044	-2.59	22-23	P16		207.2596	-1.48	11-4	R29		-207.5787	-1.51	12-6	P56		208.0564	-2.96	19-16	Q 2	
-206.6718	-1.57	12-6	P49		206.9061	-1.69	11-4	Q 9		-207.2687	-2.20	13-7	Q36		207.5845	-1.65	11-4	P22		208.0628	-2.45	21-20	P15	
206.6859	-2.72	13-7	P23		206.9083	-4.08	8-0	R23		-207.2696	-2.59	13-7	P31		207.5867	-2.49	21-20	R11		208.0640	-2.06	21-20	Q17	
206.6882	-1.99	17-13	Q14		206.9107	-4.87	8-0	P 5		-207.2699	-1.95	15-10	P31		207.5907	-1.21	11-4	Q28		208.0670	-2.81	19-16	Q 3	
-206.6887	-1.89	15-10	R33		206.9123	-4.15	8-0	Q10		207.2740	-3.78	8-0	Q24		207.5910	-2.38	20-18	R13		-208.0693	-1.32	11-4	R43	
-206.6893	-2.51	13-7	R34		206.9137	-2.37	11-4	P 5		-207.2775	-2.42	13-7	R42		207.5958	-2.23	20-18	Q10		208.0726	-2.65	19-16	R 8	
206.6898	-2.07	15-10	P24		-206.9148	-1.63	15-10	Q31		207.2834	-2.15	17-13	P21		207.6007	-2.07	17-13	P25		208.0775	-3.65	19-16	P 2	
-206.6919	-1.68	15-10	Q28		206.9174	-1.55	12-6	P51		207.2858	-1.79	11-4	P16		207.6024	-2.82	21-20	P 7		208.0799	-2.70	19-16	Q 4	
206.6928	-2.31	13-7	Q28		-206.9193	-2.05	17-13	R23		207.2998	-4.27	8-0	P17		207.6026	-4.11	8-0	P24		-208.0907	-2.47	13-7	P40	
206.6943	-2.28	22-23	Q15		206.9225	-1.65	11-4	R19		207.2998	-1.32	11-4	Q22		207.6050	-2.71	20-18	P 8		208.0916	-2.61	19-16	R 9	
206.6977	-2.45	17-13	P11		206.9242	-2.02	15-10	P27		-207.3031	-1.53	12-6	P54		207.6091	-2.32	21-20	Q 9		208.0922	-1.51	11-4	P30	
206.7078	-2.66	22-23	P14		206.9255	-1.65	11-4	Q10		-207.3044	-1.46	11-4	R30		-207.6133	-1.39	11-4	R36		-208.0922	-1.11	11-4	Q36	
206.7140	-2.13	17-13	R19		206.9278	-4.04	8-0	Q13		207.3052	-4.24	8-0	P18		-207.6142	-2.16	13-7	Q40		208.0956	-1.96	20-18	Q19	
206.7317	-1.96	17-13	Q15		206.9330	-4.06	8-0	R24		207.3139	-3.77	8-												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
208.2580	-3.40	14	8	Q 5	208.5258	-2.92	14	8	Q 16	208.8378	-4.01	9	1	P 5	209.1449	-2.68	14	8	Q 28	209.4736	-1.74	12	5	P 15
208.2609	-3.26	14	8	R 13	208.5272	-2.31	19	16	R 20	208.8392	-3.21	14	8	P 18	209.1498	-1.56	12	5	Q 10	209.4747	-3.42	18	14	P 8
208.2634	-2.14	20	18	R 24	208.5276	-3.11	16	11	R 18	208.8410	-3.29	9	1	Q 10	209.1527	-3.11	16	11	P 21	209.4767	-2.90	18	14	Q 11
208.2655	-2.29	19	16	Q 11	208.5355	-2.43	13	7	P 44	208.8470	-3.24	16	11	P 16	209.1553	-3.47	9	1	P 15	209.4900	-0.95	11	4	Q 52
208.2692	-3.63	16	11	R 4	208.5408	-2.98	16	11	Q 13	208.8490	-2.27	20	18	P 25	209.1575	-1.56	12	5	R 19	209.4946	-1.32	11	4	P 46
208.2704	-3.71	16	11	R 3	208.5412	-1.26	11	4	R 49	208.8504	-3.23	9	1	R 22	209.1586	-2.71	16	11	Q 25	209.4985	-1.25	12	5	Q 21
208.2708	-3.57	16	11	R 5	208.5423	-2.54	19	16	P 14	208.8522	-2.80	16	11	Q 20	209.1610	-2.18	12	5	P 6	209.5012	-3.01	18	14	R 16
208.2718	-3.33	14	8	Q 6	208.5494	-2.23	20	18	P 22	208.8562	-2.98	16	11	R 25	209.1669	-2.96	9	1	Q 22	209.5079	-3.01	14	8	P 28
208.2742	-3.81	16	11	R 2	208.5498	-3.40	14	8	P 12	208.8593	-3.25	9	1	Q 11	209.1693	-2.88	14	8	R 34	209.5114	-2.83	9	1	Q 30
208.2742	-4.14	14	8	P 3	208.5502	-1.04	11	4	Q 42	208.8596	-2.77	14	8	Q 23	209.1717	-1.52	12	5	Q 11	209.5130	-3.36	18	14	P 9
208.2750	-3.51	16	11	R 6	208.5516	-3.04	14	8	R 23	208.8601	-2.95	14	8	R 29	209.1841	-1.54	12	5	R 20	209.5136	-2.86	18	14	Q 12
208.2784	-2.42	19	16	R 15	208.5548	-1.43	11	4	P 36	208.8624	-3.92	9	1	P 6	209.1864	-2.12	20	18	P 28	209.5181	-1.71	12	5	P 16
208.2808	-3.94	16	11	R 1	208.5559	-2.11	19	16	Q 17	208.8748	-3.22	9	1	R 23	209.1877	-2.11	12	5	P 7	209.5195	-2.61	14	8	Q 33
208.2809	-3.24	14	8	R 14	208.5621	-3.46	16	11	P 10	208.8789	-2.40	19	16	P 19	209.1890	-0.97	11	4	Q 49	209.5199	-1.39	12	5	R 29
208.2818	-3.46	16	11	R 7	208.5631	-2.90	14	8	Q 17	208.8796	-3.22	9	1	Q 12	209.1912	-1.35	11	4	P 43	209.5206	-3.27	9	1	P 23
208.2843	-2.30	20	18	P 19	208.5667	-3.09	16	11	R 19	208.8890	-3.84	9	1	P 7	209.1954	-1.49	12	5	Q 12	209.5313	-3.02	16	11	P 26
208.2879	-3.26	14	8	Q 7	208.5776	-2.95	16	11	Q 14	208.8904	-2.40	13	7	P 47	209.1954	-3.44	9	1	P 16	209.5415	-2.98	18	14	R 17
208.2896	-4.11	16	11	R 0	208.5880	-2.29	19	16	R 21	208.8919	-2.00	19	16	Q 22	209.2059	-2.94	9	1	Q 23	209.5423	-1.23	12	5	Q 22
208.2906	-2.75	19	16	P 9	208.5900	-2.30	21	20	P 21	208.8998	-1.00	11	4	Q 46	209.2101	-3.08	14	8	P 24	209.5528	-2.83	18	14	Q 13
208.2910	-3.41	16	11	R 8	208.5920	-3.36	14	8	P 13	208.9011	-2.75	14	8	Q 24	209.2104	-2.31	19	16	P 23	209.5545	-3.31	18	14	P 10
208.2945	-1.29	11	4	R 46	208.6027	-3.41	16	11	P 11	208.9013	-3.18	9	1	Q 13	209.2130	-1.52	12	5	R 21	209.5649	-1.68	12	5	P 17
208.2955	-3.96	14	8	P 4	208.6029	-2.51	19	16	P 15	208.9018	-3.20	9	1	R 24	209.2164	-2.04	12	5	P 8	209.5665	-1.38	12	5	R 30
208.3030	-3.37	16	11	R 9	208.6036	-1.85	20	18	Q 25	208.9019	-3.18	14	8	P 19	209.2203	-2.67	14	8	Q 29	209.5696	-2.99	14	8	P 29
208.3037	-3.21	14	8	R 15	208.6046	-3.02	14	8	R 24	208.9028	-1.23	11	4	R 53	209.2210	-1.45	12	5	Q 13	209.5741	-3.25	9	1	P 24
208.3038	-3.94	16	11	Q 1	208.6079	-3.07	16	11	R 20	208.9069	-1.38	11	4	P 40	209.2227	-3.09	16	11	P 22	209.5845	-1.31	11	4	P 47
208.3056	-2.26	19	16	Q 12	208.6154	-2.87	14	8	Q 18	208.9077	-2.87	14	8	Q 21	209.2278	-2.69	16	11	Q 26	209.5851	-2.96	18	14	R 18
208.3061	-3.21	14	8	Q 8	208.6161	-2.09	19	16	Q 18	208.9084	-3.21	16	11	P 17	209.2373	-3.41	9	1	P 17	209.5878	-0.94	11	4	Q 53
208.3062	-2.37	21	20	P 18	208.6183	-2.92	16	11	Q 15	208.9130	-2.93	14	8	R 30	209.2405	-2.87	14	8	R 35	209.5881	-1.21	12	5	Q 23
208.3070	-1.99	21	20	Q 20	208.6290	-1.25	11	4	R 50	208.9145	-2.97	16	11	R 26	209.2415	-2.92	9	1	Q 24	209.5945	-2.60	14	8	Q 34
208.3091	-3.71	16	11	Q 2	208.6357	-1.03	11	4	Q 43	208.9166	-3.77	9	1	P 8	209.2437	-1.50	12	5	R 22	209.5952	-2.80	18	14	Q 14
208.3097	-1.07	11	4	Q 39	208.6365	-3.33	14	8	P 14	208.9242	-3.15	9	1	Q 14	209.2472	-1.98	12	5	P 9	209.5990	-3.26	18	14	P 11
208.3131	-2.09	13	7	Q 47	208.6404	-1.41	11	4	P 37	208.9371	-3.18	9	1	R 25	209.2486	-1.42	12	5	Q 14	209.6135	-1.65	12	5	P 18
208.3139	-3.33	16	11	R 10	208.6422	-3.37	16	11	P 12	208.9468	-3.71	9	1	P 9	209.2517	-3.56	18	14	R 3	209.6149	-3.00	16	11	P 27
208.3161	-1.46	11	4	P 33	208.6457	-2.21	20	18	P 23	208.9482	-3.16	14	8	R 20	209.2526	-3.48	18	14	R 4	209.6229	-1.37	12	5	R 31
208.3168	-2.45	13	7	P 42	208.6517	-2.27	19	16	R 22	208.9489	-3.12	9	1	Q 15	209.2543	-3.66	18	14	R 2	209.6293	-3.23	9	1	P 25
208.3170	-3.57	16	11	Q 3	208.6522	-3.01	14	8	R 25	208.9541	-3.17	9	1	R 26	209.2566	-3.42	18	14	R 5	209.6332	-2.94	18	14	R 19
208.3194	-3.84	14	8	P 5	208.6523	-3.05	16	11	R 21	208.9542	-3.18	16	11	P 18	209.2592	-3.78	18	14	R 1	209.6361	-1.19	12	5	Q 24
208.3214	-2.40	19	16	R 16	208.6524	-2.42	13	7	P 45	208.9561	-2.38	19	16	P 20	209.2632	-3.36	18	14	R 6	209.6407	-2.77	18	14	Q 15
208.3269	-3.16	14	8	Q 9	208.6595	-2.85	14	8	Q 19	208.9583	-2.16	20	18	P 26	209.2662	-3.06	14	8	R 25	209.6461	-3.22	18	14	P 12
208.3274	-3.46	16	11	Q 4	208.6654	-2.89	16	11	Q 16	208.9644	-2.76	16	11	Q 22	209.2665	-3.96	18	14	R 0	209.6590	-2.98	14	8	P 30
208.3292	-3.18	14	8	R 16	208.6666	-2.48	19	16	P 16	208.9687	-2.73	14	8	Q 25	209.2733	-3.31	18	14	R 7	209.6644	-1.63	12	5	P 19
208.3323	-4.41	16	11	P 2	208.6794	-2.06	19	16	Q 19	208.9695	-1.98	19	16	Q 23	209.2768	-1.49	12	5	R 23	209.6684	-1.35	12	5	R 32
208.3324	-1.90	20	18	Q 22	208.6833	-3.29	14	8	P 15	208.9730	-2.92	14	8	R 31	209.2781	-1.39	12	5	Q 15	209.6786	-2.59	14	8	Q 35
208.3343	-3.30	16	11	R 11	208.6851	-3.61	9	1	R 8	208.9753	-3.10	9	1	Q 16	209.2801	-1.93	12	5	P 10	209.6829	-2.92	18	14	R 20
208.3345	-2.70	19	16	P 10	208.6851	-3.66	9	1	R 7	208.9776	-3.66	9	1	P 10	209.2804	-3.38	9	1	P 18	209.6859	-1.18	12	5	Q 25
208.3405	-3.37	16	11	Q 5	208.6857	-3.71	9	1	R 6	208.9853	-3.15	9	1	R 27	209.2806	-3.78	18	14	Q 1	209.6873	-3.22	9	1	P 26
208.3453	-3.74	14	8	P 6	208.6872	-3.57	9	1	R 9	208.9917	-0.99	11	4	Q 47	209.2834	-0.97	11	4	Q 50	209.6893	-2.74	18	14	Q 16
208.3472	-2.12	20	18	R 25	208.6889	-3.77	9	1	R 5	208.9918	-1.98	12	5	R 6	209.2843	-2.91	9	1	Q 25	209.6971	-3.18	18	14	P 13
208.3490	-2.22	19	16	Q 13	208.6901	-3.54	9	1	R 10	208.9925	-1.93	12	5	R 7	209.2866	-3.26	18	14	R 8	209.7020	-2.98	16	11	P 28
208.3498	-3.12	14	8	Q 10	208.6911	-3.33	16	11	P 13	208.9930	-2.04	12	5	R 5	209.2874	-3.56	18	14	Q 2	209.7049	-0.93	11	4	Q 54
208.3519	-4.11	16	11	P 3	208.6931	-3.84	9	1	R 4	208.9955	-1.88	12	5	R 8	209.2903	-1.34	11	4	P 44	209.7081	-1.30	11	4	P 48
208.3554	-3.27	16	11	R 12	208.6950	-3.50	9	1	R 11	208.9962	-2.11	12	5	R 4	209.2958	-3.07	16	11	Q 23	209.7130	-1.34	12	5	R 33
208.3564	-3.30	16	11	Q 6	208.6969	-2.87	16	11	Q 17	209.0001	-1.84	12	5	R 9	209.2965	-3.42	18	14	Q 3	209.7173	-1.60	12	5	P 20
208.3626	-3.16	14	8	R 17	208.6993	-3.92	9	1	R 3	209.0013	-2.18	12	5	R 3	209.3001	-2.65	14	8	Q 30	209.7373	-2.90	18	14	R 21
208.3677	-2.28	20	18	P 20	208.6994	-3.03	16	11	R 22	209.0030	-3.07	9	1	Q 17	209.3004	-2.67	16							

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
210.1437	-1.47	12	-5	P27	-210.8415	-1.34	12	-5	P36	211.1933	-2.95	17	-12	R15	211.3860	-2.84	17	-12	R20	211.6485	-2.75	17	-12	R25
-210.1552	-1.26	12	-5	R40	210.8477	-2.80	10	-2	Q 8	211.1977	-2.88	10	-2	P15	211.3870	-2.31	10	-2	Q26	211.6563	-1.72	15	-9	Q27
-210.1590	-1.06	12	-5	Q33	210.8498	-2.18	15	-9	Q 9	211.1992	-1.87	15	-9	Q19	211.3940	-3.24	22	-21	Q 7	211.6578	-1.37	13	-6	Q17
-210.1631	-1.26	11	-4	P52	210.8533	-2.69	10	-2	R20	211.2008	-2.86	17	-12	Q10	211.3951	-4.52	20	-17	P 6	211.6595	-4.18	20	-17	P12
-210.1905	-2.57	18	-14	Q24	-210.8561	-1.95	12	-5	Q42	211.2062	-2.03	15	-9	R25	211.3963	-1.27	13	-6	Q 7	211.6652	-3.92	20	-17	R18
210.1948	-2.78	18	-14	R28	210.8589	-2.21	15	-9	R16	211.2083	-3.41	17	-12	P 7	211.3966	-4.07	20	-17	R12	211.6701	-3.41	22	-21	P11
-210.2075	-2.90	14	-8	P36	210.8590	-3.55	10	-2	P 4	-211.2088	-1.29	12	-5	P40	211.3969	-1.80	13	-6	Q 6	211.6721	-2.98	17	-12	P17
210.2126	-2.96	18	-14	P21	210.8627	-2.75	10	-2	Q 9	211.2159	-2.32	15	-9	P15	211.4019	-1.66	13	-6	R16	211.6752	-1.87	13	-6	P12
-210.2129	-1.45	12	-5	P28	210.8663	-2.76	15	-9	P 6	211.2166	-2.38	10	-2	Q22	-211.4033	-3.14	12	-5	P42	211.6757	-3.18	22	-21	R15
210.2263	-1.25	12	-5	R41	210.8736	-2.14	15	-9	Q10	-211.2250	-2.92	12	-5	Q46	211.4034	-2.61	13	-6	P 3	211.6814	-3.73	20	-17	Q15
-210.2295	-1.04	12	-5	Q34	210.8758	-2.67	10	-2	R21	211.2263	-2.93	17	-12	R16	211.4052	-3.14	17	-12	P12	211.6829	-2.22	10	-2	Q32
210.2676	-2.55	18	-14	G25	210.8797	-2.71	10	-2	Q10	211.2312	-2.82	17	-12	Q11	211.4079	-1.79	15	-9	Q23	-211.6843	-1.48	13	-6	R25
210.2722	-2.77	18	-14	R29	-210.8800	-1.18	12	-5	R49	211.2362	-4.61	20	-17	R 2	211.4164	-3.72	22	-21	P 6	-211.6844	-1.11	12	-5	R57
-210.2831	-1.25	11	-4	P53	210.8805	-3.43	10	-2	P 5	211.2370	-4.52	20	-17	R 3	211.4168	-3.94	20	-17	Q 9	211.6861	-2.98	22	-21	Q13
210.2851	-1.44	12	-5	P29	210.8877	-2.18	15	-9	R17	211.2388	-2.85	10	-2	P16	-211.4170	-3.90	12	-5	Q48	211.6899	-2.65	10	-2	P25
-210.2907	-2.94	18	-14	P22	210.8953	-2.68	15	-9	P 7	211.2405	-4.44	20	-17	R 4	211.4187	-3.34	22	-21	R10	211.6905	-2.55	17	-12	Q21
-210.2992	-1.24	12	-5	R42	210.8983	-2.67	10	-2	Q11	211.2411	-4.74	20	-17	R 1	211.4202	-2.75	10	-2	P20	211.6924	-2.12	15	-9	P23
-210.3027	-1.03	12	-5	Q35	210.9003	-2.10	15	-9	Q11	211.2421	-3.34	17	-12	P 8	211.4244	-1.68	13	-6	Q 8	211.6980	-1.35	13	-6	Q18
-210.3083	-2.88	14	-8	P37	210.9003	-2.65	10	-2	R22	211.2474	-4.92	20	-17	Q 0	211.4247	-2.44	13	-6	P 4	211.7031	-1.80	13	-6	P14
-210.3478	-2.54	18	-14	Q26	210.9053	-3.33	10	-2	P 6	211.2476	-1.85	15	-9	Q20	211.4252	-2.67	17	-12	Q16	211.7076	-2.27	17	-12	R26
-210.3574	-1.42	12	-5	Q30	210.9184	-2.63	10	-2	Q12	211.2481	-4.37	20	-17	R 5	211.4254	-1.64	13	-6	R17	-211.7156	-1.24	12	-5	P45
-210.3716	-1.02	12	-5	P36	210.9188	-2.16	15	-9	R18	211.2510	-3.94	22	-21	R 1	-211.4256	-1.97	15	-9	R29	211.7163	-4.14	20	-17	P13
-210.3736	-2.92	18	-14	P23	-210.9252	-1.33	12	-5	P37	211.2511	-3.81	22	-21	R 0	211.4306	-3.18	22	-21	Q 8	211.7195	-1.84	13	-6	P13
-210.3765	-1.23	12	-5	R43	210.9270	-2.81	18	-14	P29	211.2548	-4.11	22	-21	R 0	211.4308	-4.44	20	-17	P 7	211.7214	-3.89	20	-17	R19
-210.3996	-1.25	11	-4	P54	210.9270	-2.62	15	-9	P 8	211.2559	-3.72	22	-21	R 3	211.4326	-4.04	20	-17	R13	211.7251	-1.71	15	-9	Q28
-210.4108	-2.87	14	-8	P38	210.9280	-2.63	10	-2	R23	211.2563	-2.36	10	-2	G23	211.4331	-2.82	17	-12	R21	-211.7263	-1.47	13	-6	R26
210.4311	-2.52	18	-14	Q27	210.9291	-2.06	15	-9	Q12	211.2574	-2.02	15	-9	R26	211.4344	-2.21	15	-9	P19	211.7341	-2.87	17	-12	P18
210.4353	-1.41	12	-5	P31	210.9308	-3.25	10	-2	P 7	211.2581	-4.31	20	-17	R 6	211.4365	-2.29	10	-2	Q27	-211.7347	-4.92	12	-5	Q51
-210.4434	-1.01	12	-5	Q37	210.9406	-2.60	10	-2	Q13	211.2613	-2.91	17	-12	R17	211.4458	-1.64	13	-6	P 0	211.7352	-3.37	22	-21	P12
-210.4532	-1.22	12	-5	R44	-210.9448	-0.94	12	-5	Q43	211.2615	-4.74	20	-17	Q 1	211.4483	-2.31	13	-6	P 5	211.7386	-1.32	13	-6	Q19
-210.4561	-2.90	18	-14	P24	210.9524	-2.14	15	-9	R19	211.2620	-1.14	12	-5	R53	211.4504	-3.89	20	-17	Q10	211.7388	-3.70	20	-17	Q16
-210.5121	-1.39	12	-5	P32	210.9587	-3.19	10	-2	P 8	211.2643	-2.79	17	-12	Q12	211.4508	-1.61	13	-6	R18	211.7416	-3.16	22	-21	R16
-210.5154	-2.51	18	-14	Q28	210.9604	-2.03	15	-9	Q13	211.2652	-3.64	22	-21	R 1	211.4529	-3.11	17	-12	P13	211.7512	-2.95	22	-21	Q14
-210.5162	-2.86	14	-8	P39	210.9611	-2.56	15	-9	P 9	211.2669	-2.29	15	-9	P16	211.4578	-3.64	22	-21	P 7	211.7522	-2.53	17	-12	Q22
-210.5232	-1.00	12	-5	Q38	210.9643	-2.57	10	-2	Q14	211.2685	-3.94	22	-21	Q 1	211.4606	-3.30	22	-21	R11	211.7588	-2.63	10	-2	P26
-210.5274	-1.24	11	-4	P55	210.9658	-2.62	10	-2	R24	211.2692	-4.52	20	-17	Q 2	-211.4657	-1.13	12	-5	R55	211.7632	-2.10	15	-9	P24
-210.5331	-1.21	12	-5	R45	-210.9701	-1.17	12	-5	R50	211.2728	-4.26	20	-17	Q 7	211.4661	-1.77	15	-9	Q24	211.7694	-1.77	13	-6	P15
-210.5447	-2.88	18	-14	P25	210.9726	-2.60	10	-2	R25	211.2784	-4.37	20	-17	Q 3	211.4689	-4.37	20	-17	P 8	-211.7701	-1.45	13	-6	R27
-210.5987	-1.38	12	-5	P33	210.9876	-3.13	10	-2	P 9	211.2785	-3.72	22	-21	Q 2	211.4698	-1.59	13	-6	Q10	211.7752	-2.72	17	-12	R27
-210.6036	-0.99	12	-5	Q39	210.9885	-2.12	15	-9	R20	211.2789	-3.28	17	-12	P 9	211.4699	-2.73	10	-2	P21	211.7765	-4.10	20	-17	P14
210.6051	-2.49	18	-14	Q29	210.9899	-2.54	10	-2	Q15	211.2792	-3.57	22	-21	P17	211.4705	-4.01	20	-17	R14	211.7810	-1.30	13	-6	Q20
-210.6170	-1.20	12	-5	R46	210.9942	-2.00	15	-9	Q14	211.2814	-2.89	10	-2	P17	211.4719	-3.14	22	-21	Q17	211.7923	-1.11	12	-5	R58
-210.6361	-2.86	18	-14	P26	210.9975	-2.51	15	-9	P10	211.2896	-5.22	20	-17	P 2	211.4727	-2.22	13	-6	P 6	211.7945	-1.69	15	-9	Q29
-210.6744	-1.37	12	-5	P34	211.0072	-2.58	10	-2	R26	211.2903	-4.01	13	-6	R 6	211.4754	-2.22	13	-6	P 6	211.7966	-2.62	10	-2	P27
-210.6855	-0.98	12	-5	Q40	211.0169	-2.51	10	-2	Q16	211.2903	-4.22	20	-17	R 8	211.4774	-1.55	13	-6	Q11	211.7983	-2.93	17	-12	P19
-210.6969	-2.48	18	-14	Q30	-211.0171	-1.32	12	-5	P38	211.2923	-3.57	22	-21	Q 3	211.4781	-1.59	13	-6	R19	211.7983	-2.93	17	-12	P19
-210.7026	-1.19	12	-5	R47	211.0180	-3.41	17	-12	R 4	211.2932	-4.26	20	-17	Q 4	211.4832	-2.80	17	-12	R22	211.7990	-3.67	20	-17	Q17
-210.7035	-2.62	15	-9	R 5	211.0182	-3.08	10	-2	P10	211.2941	-1.77	13	-6	R12	-211.4887	-1.96	15	-9	R30	211.8047	-3.34	22	-21	P13
210.7040	-2.68	15	-9	R 4	211.0185	-3.49	17	-12	R 3	211.2960	-4.14	22	-21	P 2	211.4906	-3.86	20	-17	Q11	211.8123	-3.14	22	-21	R17
210.7057	-2.56	15	-9	R 6	211.0199	-3.34	17	-12	R 5	211.2975	-2.34	10	-2	Q24	211.4950	-2.18	15	-9	P20	-211.8169	-1.44	13	-6	R28
210.7066	-2.76	15	-9	R 3	211.0219	-3.58	17	-12	R 2	211.2978	-3.51	22	-21	R 6	211.4963	-2.27	10	-2	Q28	211.8169	-2.51	17	-12	Q23
210.7102	-2.51	15	-9	R 7	211.0248	-3.28	17	-12	R 6	211.2985	-1.83	15	-9	Q21	211.5030	-2.14	13	-6	P 7	211.8215	-2.92	22	-21	Q15
210.7120	-2.86	15	-9	R 2	211.0272	-2.10	15	-9	R21	211.3003	-2.88	17	-12	R18	211.5036	-3.07	17	-12	P14	-211.8228	-1.23	12	-5	P46
210.7171	-2.46	15	-9	R 8	211.0280	-3.71	17	-12	R 1	211.3004	-2.75	17	-12	Q13	211.5040	-3.57	22	-21	P 8	211.8254	-1.28	13	-6	Q21
210.7193	-2.99	15	-9	R 1	211.0303	-1.97	15	-9	Q15	211.3032	-1.96	13	-6	R 7	-211.5047	-1.26	12	-5	P43	211.8274	-1.74	13	-6	P16
210.7230	-3.03	10	-2	R 8	211.0311	-2.80	18	-14	P30	-211.3035	-1.28	12												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
212.0714	-2.03	15	9	P28	212.5845	-3.42	19	15	P10	-213.0379	-1.14	12	5	P56	213.4618	-2.60	16	10	P 5	213.8800	-2.68	18	13	R 4
-212.0737	-0.85	12	5	Q54	212.5861	-3.09	19	15	R17	213.0387	-2.83	11	3	P 7	213.4709	-4.13	23	23	Q13	213.8800	-2.76	18	13	R 3
212.0782	-3.58	20	17	Q21	212.5883	-2.94	19	15	Q13	213.0392	-2.74	19	15	Q21	213.4726	-1.90	11	3	Q25	213.8815	-2.21	11	3	P26
-212.0786	-1.19	13	6	Q26	212.5957	-1.08	13	6	Q34	-213.0413	-1.40	13	6	P34	213.4752	-1.92	16	10	Q 9	213.8827	-2.61	18	13	R 5
-212.0800	-1.37	13	6	R33	212.6046	-2.74	17	12	P29	213.0454	-3.14	19	15	P18	213.4867	-4.52	23	23	P12	213.8830	-2.86	18	13	R 2
212.0868	-2.84	17	12	P23	-212.6127	-1.94	15	9	P34	213.0512	-2.21	11	3	R23	213.4893	-2.50	16	10	P 6	-213.8853	-1.10	12	5	P62
212.0901	-2.44	17	12	Q27	-212.6212	-1.28	13	6	R41	213.0525	-4.45	23	23	Q 6	213.4921	-1.94	16	10	R16	213.8856	-2.98	18	13	R 1
212.1000	-1.61	13	6	P21	212.6314	-3.37	19	15	P11	213.0533	-2.17	11	3	Q13	213.4945	-2.35	11	3	P19	213.8866	-2.56	18	13	R 6
-212.1078	-1.64	15	9	Q33	212.6331	-3.07	19	15	R18	213.0610	-4.96	23	23	P 5	213.5007	-1.88	16	10	Q10	213.8868	-1.73	14	7	Q11
212.1255	-2.54	10	2	P32	212.6334	-2.91	19	15	Q14	213.0670	-2.76	11	3	P 8	213.5032	-1.33	13	6	P39	213.8889	-1.59	16	10	Q20
212.1307	-3.21	22	21	P17	-212.6355	-1.47	13	6	P29	213.0706	-4.56	23	23	R 8	-213.5098	-1.19	13	6	R51	213.8971	-2.51	15	13	R 7
212.1319	-3.96	20	17	P19	-212.6487	-1.17	12	5	P53	-213.0782	-1.01	13	6	Q40	213.5191	-1.88	11	3	Q26	213.8977	-1.77	14	7	R19
-212.1362	-1.17	13	6	Q27	-212.6709	-1.06	13	6	Q35	213.0785	-2.14	11	3	Q14	213.5194	-2.42	16	10	P 7	213.8978	-3.16	18	13	R 0
212.1397	-1.36	13	6	R34	-212.6804	-0.81	12	5	Q59	-213.0794	-0.79	12	5	Q62	213.5230	-4.33	23	23	R15	213.8984	-2.31	14	7	P 7
-212.1443	-3.79	20	17	R25	212.6804	-3.84	20	17	P25	213.0807	-2.19	11	3	R24	213.5241	-1.92	16	10	R17	213.9089	-2.46	18	13	R 8
-212.1454	-1.08	12	5	R61	212.6806	-2.88	19	15	Q15	213.0913	-4.86	23	23	P 6	213.5286	-1.84	16	10	Q11	213.9098	-2.02	16	10	P16
212.1501	-2.82	22	21	Q19	212.6831	-3.33	19	15	P12	213.0947	-4.33	23	23	Q 7	213.5312	-3.01	19	15	P24	213.9125	-2.98	18	13	Q 1
212.1551	-2.02	15	9	P29	212.6835	-3.05	19	15	R19	213.0969	-2.70	11	3	P 9	-213.5422	-0.96	13	6	Q45	213.9149	-1.69	14	7	Q12
212.1571	-3.56	20	17	Q22	212.6955	-1.27	13	6	R42	213.1050	-2.11	11	3	Q15	213.5445	-2.33	11	3	P20	213.9153	-1.29	13	6	P43
212.1596	-1.59	13	6	P22	212.7032	-2.72	17	12	P30	213.1104	-2.72	19	15	Q22	213.5519	-2.35	16	10	P 8	-213.9180	-2.76	18	13	Q 2
-212.1635	-1.20	12	5	P49	-212.7128	-1.45	13	6	P30	213.1115	-2.17	11	3	R25	213.5556	-4.10	23	23	Q14	213.9187	-1.75	16	10	R26
212.1661	-2.82	17	12	P24	212.7303	-3.29	19	15	P13	213.1168	-4.52	23	23	R 9	213.5587	-1.90	16	10	R18	213.9233	-2.42	18	13	R 9
212.1819	-2.43	17	12	Q28	212.7323	-2.86	19	15	Q16	213.1181	-3.12	19	15	P19	213.5591	-1.80	16	10	Q12	213.9272	-2.61	18	13	Q 3
-212.1899	-0.84	12	5	Q55	212.7374	-3.03	19	15	R20	-213.1236	-1.22	13	6	R47	213.5687	-1.86	11	3	Q27	213.9285	-1.75	14	7	R20
-212.1950	-1.16	13	6	Q28	-212.7475	-1.05	13	6	Q36	213.1287	-2.65	11	3	P10	213.5726	-4.48	23	23	P13	213.9289	-2.25	14	7	P 8
212.1972	-2.52	10	2	P33	-212.7748	-1.16	12	5	P54	-213.1288	-1.38	13	6	P35	213.5872	-2.30	16	10	P 9	-213.9300	-1.16	13	6	R55
-212.2012	-1.35	13	6	R35	-212.7797	-1.26	13	6	R43	213.1337	-2.09	11	3	Q16	-213.5903	-1.11	12	5	P60	213.9389	-2.51	15	13	Q 4
212.2149	-3.94	20	17	P20	212.7844	-3.82	20	17	P26	213.1425	-4.33	23	23	Q 8	213.5920	-1.77	16	10	Q13	213.9407	-2.38	18	13	R10
212.2210	-1.57	13	6	P23	212.7864	-2.83	19	15	Q17	213.1454	-2.16	11	3	R26	213.5959	-2.30	11	3	P21	213.9419	-3.46	18	13	P 2
212.2244	-3.18	22	21	P18	212.7882	-3.26	19	15	P14	213.1492	-4.79	23	23	P 7	213.5986	-1.88	16	10	R19	213.9435	-1.66	14	7	Q13
212.2394	-3.54	20	17	Q23	-212.7913	-1.44	13	6	P31	213.1627	-2.60	11	3	P11	-213.6016	-1.32	13	6	P40	213.9438	-1.57	16	10	Q21
212.2395	-2.00	15	9	P30	212.7941	-3.01	19	15	R21	213.1640	-2.06	11	3	Q17	213.6072	-1.18	13	6	R52	213.9438	-2.19	11	3	P27
212.2450	-2.80	22	21	Q20	-212.8111	-0.80	12	5	Q60	-213.1669	-1.00	13	6	Q41	213.6138	-4.31	23	23	R16	213.9536	-2.62	18	13	Q 5
212.2465	-2.80	17	12	P25	-212.8265	-1.04	13	6	Q37	213.1686	-4.48	23	23	R10	213.6238	-2.99	19	15	P25	213.9545	-2.00	16	10	P17
-212.2571	-1.14	13	6	Q29	212.8301	-2.65	11	3	R 7	-213.1714	-1.14	12	5	P57	213.6250	-2.25	16	10	P10	213.9608	-2.35	18	13	R11
-212.2652	-1.33	13	6	R36	212.8306	-2.60	11	3	R 8	213.1801	-2.14	11	3	R27	213.6258	-1.85	11	3	Q28	213.9617	-2.19	14	7	P 9
212.2657	-2.61	17	12	Q29	212.8316	-2.70	11	3	R 6	213.1851	-2.70	19	15	Q23	213.6279	-1.74	16	10	Q14	213.9618	-1.73	14	7	R21
212.2722	-3.67	19	15	R 3	212.8331	-2.56	11	3	R 9	213.1940	-3.09	19	15	P20	213.6367	-1.86	16	10	R20	213.9622	-3.16	18	13	P 3
212.2743	-3.77	19	15	R 2	212.8347	-2.76	11	3	R 5	213.1949	-4.28	23	23	Q 9	-213.6446	-0.95	13	6	Q46	-213.9650	-0.92	13	6	Q49
212.2754	-3.60	19	15	R 4	212.8364	-2.52	11	3	R10	213.1959	-2.04	11	3	Q18	213.6481	-4.07	23	23	Q15	213.9664	-4.40	23	23	Q18
212.2781	-3.90	19	15	R 1	212.8399	-2.83	11	3	R 4	213.1973	-2.56	11	3	P12	213.6494	-2.28	11	3	P22	213.9710	-2.35	18	13	Q 6
-212.2811	-1.19	12	5	P50	212.8420	-2.49	11	3	R11	213.2052	-4.72	23	23	P 8	213.6649	-4.45	23	23	P14	213.9738	-1.63	14	7	Q14
212.2830	-3.53	19	15	R 5	212.8447	-2.81	19	15	Q18	-213.2174	-1.22	13	6	R48	213.6655	-2.20	16	10	P11	213.9807	-4.36	23	23	P17
212.2844	-3.47	19	15	R 6	212.8469	-2.91	11	3	R 3	213.2178	-2.13	11	3	R28	213.6662	-1.71	16	10	Q15	213.9842	-2.31	18	13	R12
212.2850	-1.55	13	6	P24	212.8478	-3.23	19	15	P15	-213.2190	-1.37	13	6	P36	213.6667	-1.84	16	10	R21	213.9861	-2.98	18	13	P 4
212.2854	-4.07	19	15	R 0	212.8495	-2.46	11	3	R12	213.2267	-4.45	23	23	R11	213.6689	-1.83	11	3	Q29	213.9907	-1.74	16	10	R27
212.2968	-3.42	19	15	R 7	212.8544	-2.99	19	15	R22	213.2301	-2.01	11	3	Q19	213.6988	-2.19	14	7	R 6	213.9916	-2.28	18	13	Q 7
212.2995	-3.92	20	17	P21	212.8550	-3.00	11	3	R 2	213.2343	-2.52	11	3	P13	213.6990	-2.25	14	7	R 5	213.9964	-2.14	14	7	P10
212.2998	-3.90	19	15	Q 1	212.8590	-2.43	11	3	R13	213.2539	-2.11	11	3	R29	213.7009	-2.14	14	7	R 7	213.9973	-1.71	14	7	R22
-212.3068	-3.67	19	15	Q 2	-212.8629	-1.25	13	6	R44	213.2550	-4.24	23	23	Q10	213.7014	-2.31	14	7	R 4	214.0012	-1.55	16	10	Q22
-212.3079	-0.83	12	5	Q56	212.8657	-3.13	11	3	R 1	-213.2575	-0.98	13	6	Q42	-213.7021	-1.31	13	6	P41	214.0068	-1.60	14	7	Q15
212.3118	-3.37	19	15	R 8	212.8698	-2.40	11	3	R14	213.2631	-2.68	19	15	Q24	213.7045	-2.26	11	3	P23	214.0092	-2.17	11	3	P28
-212.3148	-1.13	13	6	Q30	-212.8721	-1.42	13	6	P32	213.2658	-1.99	11	3	Q20	213.7050	-2.09	14	7	R 8	214.0099	-2.28	18	13	R13
212.3173	-3.53	19	15	Q 3	212.8775	-3.30	11	3	R 0	213.2669	-4.66	23	23	P 9	213.7055	-2.39	14	7	R 3	214.0125	-2.86	18	13	P 5
212.3230	-3.16	22	21	P19	212.8828	-2.37	11	3	R15	213.2732	-2.49	11	3	P14	213.7078	-1.68	16	10	Q16	214.0149	-2.23	18	13	Q 8
212.3269	-3.53	20	17	Q24	212.8931	-3.13	11	3																

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
-214.2494	-1.26	13	6	P46	214.7079	-2.91	21-18	R	9	215.1084	-2.25	12-4	Q	5	215.4400	-3.07	20-16	R	1	215.7121	-4.71	9	0	Q19			
-214.2506	-1.46	14	7	Q21	214.7132	-3.07	22-20	Q	8	-215.1108	-1.71	16-10	P	3	215.4410	-5.60	9	0	Q2	215.7135	-2.64	20-16	P	9			
214.2526	-1.92	14	7	P16	-214.7149	-1.32	14	7	Q29	215.1123	-3.29	12-4	P	2	215.4425	-1.82	12-4	R	28	-215.7184	-1.74	12-4	R	34			
-214.2527	-1.48	16-10	Q26	214.7192	-1.79	18-13	Q23	-215.1129	-1.20	13-6	P53	215.4425	-2.34	21-18	Q20	215.7213	-5.26	9	0	P12							
-214.2571	-1.61	14	7	R28	214.7193	-1.73	14	7	P24	215.1139	-3.00	22-20	R18	215.4431	-2.70	20-16	R	20	215.7243	-2.15	20-16	Q12					
214.2605	-1.97	18-13	Q15	214.7226	-2.84	21-18	Q	6	-215.1167	-1.46	14-7	R41	215.4431	-2.55	21-18	R23	215.7317	-2.29	20-16	R16							
214.2774	-2.12	18-13	R20	214.7248	-3.18	22-20	R11	215.1173	-2.02	12-4	R17	215.4457	-5.45	9	0	Q	3	215.7424	-1.57	12-4	Q26						
214.2796	-2.42	18-13	P12	214.7267	-3.47	21-18	P	4	215.1199	-2.18	12-4	Q	6	215.4480	-3.25	20-16	R	0	215.7434	-4.68	9	0	Q20				
214.2814	-1.88	16-10	P22	-214.7275	-1.22	13-6	P50	215.1249	-2.87	21-18	P13	215.4486	-4.94	9	0	R	21	215.7452	-2.65	21-18	P21						
214.2992	-1.44	14-7	Q22	-214.7337	-1.51	14-7	R36	215.1326	-2.99	12-4	P	3	215.4522	-5.34	9	0	Q	4	215.7558	-2.02	12-4	R	2				
-214.3010	-0.89	13-6	Q52	214.7351	-2.87	21-18	R10	215.1329	-2.12	12-4	Q	7	215.4523	-2.64	20-16	R	6	215.7589	-2.59	20-16	P10						
214.3031	-1.89	14-7	P17	214.7444	-1.77	16-10	P28	215.1372	-1.99	12-4	R18	-215.4556	-1.42	14-7	R45	215.7595	-5.22	9	0	P13							
-214.3038	-1.67	16-10	R32	214.7477	-3.52	22-20	P	7	-215.1391	-1.24	14-7	Q35	215.4601	-5.26	9	0	Q	5	-215.7672	-1.16	14-7	Q42					
214.3074	-1.94	18-13	Q16	214.7489	-3.35	21-18	P	5	215.1475	-2.78	22-20	Q16	215.4626	-3.07	20-16	Q	1	215.7687	-2.12	20-16	Q13						
-214.3089	-1.60	14-7	R29	214.7494	-2.77	21-18	Q	9	215.1484	-3.06	12-4	Q	8	-215.4632	-1.19	14-7	Q39	215.7717	-3.00	22-20	P21						
214.3233	-1.46	16-10	Q27	214.7522	-3.02	22-20	Q	9	215.1503	-3.18	22-20	P14	215.4650	-2.59	20-16	R	7	-215.7729	-1.73	12-4	R35						
214.3257	-2.10	18-13	R21	214.7614	-2.18	18-13	P20	215.1542	-2.82	12-4	P	4	215.4680	-4.92	9	0	R22	215.7757	-4.66	9	0	Q21					
214.3292	-2.38	18-13	P13	214.7658	-2.84	21-18	R11	215.1549	-2.63	21-18	R19	215.4692	-2.85	20-16	Q	2	215.7787	-2.27	20-16	R17							
214.3416	-1.86	16-10	P23	214.7669	-3.15	22-20	R12	215.1592	-1.97	12-4	R19	215.4694	-5.18	9	0	Q	6	-215.7853	-1.54	14-7	P37						
214.3501	-1.42	14-7	Q23	-214.7678	-1.31	14-7	Q30	215.1595	-2.43	21-18	P16	215.4707	-6.30	9	0	P	2	215.7888	-2.26	21-18	Q24						
214.3557	-1.86	14-7	P18	214.7800	-2.72	21-18	Q	8	215.1608	-2.08	18-13	P25	215.4723	-2.68	22-20	Q20	215.7937	-1.55	12-4	Q27							
214.3573	-1.92	18-13	Q17	-214.7829	-0.86	13-6	Q56	215.1643	-1.63	14-7	P30	215.4743	-2.18	12-4	P14	215.7982	-5.18	9	0	P14							
-214.3633	-1.59	14-7	R30	214.7853	-3.25	21-18	P	6	215.1649	-2.02	12-4	Q	9	215.4760	-1.68	12-4	Q20	215.8072	-2.55	20-16	P11						
-214.3662	-1.25	13-6	P47	214.7877	-1.71	14-7	P25	215.1780	-2.69	12-4	P	5	215.4777	-3.07	22-20	P18	215.8095	-4.64	9	0	Q22						
-214.3758	-1.66	16-10	R33	214.7909	-1.77	18-13	Q24	215.1826	-1.95	12-4	R20	215.4800	-2.70	20-16	Q	3	215.8095	-1.99	12-4	Q21							
214.3800	-2.08	18-13	R22	214.7922	-3.45	22-20	P	8	215.1842	-1.97	12-4	Q10	215.4811	-2.55	20-16	R	8	215.8165	-2.09	20-16	Q14						
214.3821	-2.35	18-13	P14	214.7953	-2.97	22-20	Q10	215.1878	-2.97	22-20	R19	215.4815	-5.12	9	0	Q	7	-215.8285	-1.71	12-4	R36						
214.4030	-1.40	14-7	Q24	-214.7959	-1.37	16-10	Q33	215.1894	-2.84	21-18	P14	215.4839	-1.80	12-4	R29	215.8288	-2.25	20-16	R18								
-214.4042	-1.44	16-10	Q28	214.8016	-2.80	21-18	R12	-215.1895	-1.45	14-7	R42	215.4839	-2.72	21-18	P18	215.8385	-5.15	9	0	P15							
214.4102	-1.89	18-13	Q18	-214.8067	-1.50	14-7	R37	215.2036	-2.59	12-4	P	6	215.4892	-4.90	9	0	R23	215.8406	-2.63	21-18	P22						
214.4105	-1.84	14-7	P19	214.8132	-2.67	21-18	Q	9	215.2050	-1.93	12-4	Q11	215.4900	-6.00	9	0	P	3	215.8450	-4.63	9	0	Q23				
-214.4138	-0.88	13-6	Q53	214.8136	-3.12	22-20	R13	-215.2070	-1.69	16-10	P33	215.4918	-3.55	20-16	P	2	215.8465	-1.54	12-4	Q28							
214.4189	-1.84	16-10	P24	214.8231	-3.17	21-18	P	7	215.2084	-1.93	12-4	R21	215.4932	-2.59	20-16	Q	8	-215.8512	-1.15	14-7	Q43						
-214.4219	-1.57	14-7	R31	214.8353	-2.16	18-13	P21	-215.2184	-1.23	14-7	Q36	215.4950	-5.07	9	0	Q	8	215.8588	-2.51	20-16	P12						
214.4369	-2.06	18-13	R23	-214.8376	-1.29	14-7	Q31	215.2213	-2.61	21-18	R20	215.5001	-2.51	20-16	R	9	215.8648	-1.97	12-4	Q22							
214.4374	-2.31	18-13	P15	214.8404	-2.77	21-18	R13	215.2215	-2.75	22-20	Q17	-215.5077	-1.57	14-7	P34	215.8675	-2.06	20-16	P15								
214.4587	-1.38	14-7	Q25	214.8409	-3.39	22-20	P	9	215.2247	-2.41	21-18	Q17	215.5101	-2.51	20-16	Q	5	215.8820	-4.61	9	0	Q24					
214.4659	-1.87	18-13	Q19	214.8429	-2.93	22-20	Q11	215.2255	-3.15	22-20	P15	215.5106	-5.02	9	0	Q	9	215.8826	-5.12	9	0	P16					
214.4678	-1.81	14-7	P20	-214.8468	-1.75	16-10	P29	215.2266	-1.90	12-4	Q12	215.5113	-5.82	9	0	P	4	215.8829	-2.23	20-16	R19						
-214.4693	-1.43	16-10	Q29	214.8513	-1.22	13-6	P51	215.2309	-2.52	12-4	P	7	215.5121	-4.88	9	0	R24	-215.8860	-1.70	12-4	R37						
-214.4767	-1.56	14-7	R32	-214.8513	-2.63	21-18	Q10	215.2371	-1.91	12-4	R22	215.5130	-3.25	20-16	P	3	215.8870	-2.24	21-18	Q25							
-214.4821	-1.24	13-6	P48	214.8588	-1.69	14-7	P26	-215.2412	-1.19	13-6	P54	215.5153	-1.66	12-4	Q21	-215.8887	-1.52	14-7	P38								
214.4961	-1.82	16-10	P25	-214.8626	-1.49	14-7	R38	-215.2470	-1.61	14-7	P31	215.5161	-2.15	12-4	P15	215.9019	-1.52	12-4	Q29								
214.4965	-2.28	18-13	P16	214.8642	-3.11	21-18	P	8	215.2508	-2.06	18-13	P26	-215.5204	-1.17	13-6	P56	215.9146	-2.47	20-16	P13							
214.4971	-2.04	18-13	R24	214.8647	-3.09	22-20	R14	215.2521	-1.86	12-4	Q13	215.5224	-2.47	20-16	R10	215.9212	-4.59	9	0	Q25							
214.5159	-1.37	14-7	Q26	214.8660	-1.75	18-13	Q25	215.2571	-2.80	21-18	P15	215.5234	-2.32	21-18	Q21	215.9223	-2.03	20-16	Q16								
214.5250	-1.85	18-13	Q20	214.8831	-2.75	21-18	R14	215.2598	-2.45	12-4	P	8	215.5267	-2.54	21-18	R24	215.9224	-1.95	12-4	Q23							
214.5273	-1.79	14-7	P21	-214.8885	-1.36	16-10	Q34	215.2656	-1.90	12-4	R23	-215.5274	-1.79	12-4	R30	215.9340	-5.09	9	0	P17							
-214.5384	-0.88	13-6	Q54	214.8930	-2.59	21-18	Q11	-215.2769	-1.44	14-7	R43	215.5295	-4.98	9	0	Q10	215.9369	-5.07	9	0	P18						
-214.5390	-1.55	14-7	R33	214.8941	-3.34	22-20	P10	215.2780	-1.83	12-4	Q14	215.5307	-2.43	20-16	Q	6	215.9401	-2.61	21-18	P23							
214.5414	-3.69	22-20	R	214.8950	-2.90	22-20	Q12	215.2912	-2.39	12-4	P	9	215.5342	-5.70	9	0	P	5	215.9404	-2.21	20-16	R20					
214.5426	-3.82	22-20	R	214.9092	-3.05	21-18	P	9	215.2916	-2.59	21-18	R21	215.5374	-4.87	9	0	R25	-215.9459	-1.69	12-4	R38						
214.5439	-3.60	22-20	R	-214.9101	-1.28	14-7	Q32	215.2933	-2.38	21-18	Q12	215.5385	-3.07	20-16	P	4	-215.9538	-1.14	14-7	Q44							
-214.5476	-1.41	16-10	Q30	214.9122	-2.14	18-13	P22	215.2970	-1.88	12-4	Q24	215.5405	-4.87	9	0	Q13	215.9592	-1.51	12-4	Q30							
214.5484	-4.00	22-20	R	214.9203	-3.07	22-20	R15	215.3008	-2.73	22-20	R18	-215.5455	-1.41	14-7	R46	215.9627	-4.57	9	0	Q26							

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
216.1589	-2.06	17	11	Q 7	216.4876	-1.86	20	16	Q24	217.0118	-2.15	19	14	R13	217.4098	-1.80	13	5	R17	217.7594	-1.60	13	5	R28					
216.1609	-2.76	17	11	P 4	216.4889	-2.16	17	11	P13	217.0125	-1.42	14	7	P48	217.4128	-4.50	10	1	Q 3	217.7648	-1.97	13	5	P14					
216.1666	-1.12	14	7	Q46	216.4967	-1.61	12	4	R46	217.0202	-1.73	12	4	P38	217.4151	-2.78	13	5	P 3	217.7755	-1.47	13	5	Q20					
216.1714	-2.34	20	16	P17	216.4974	-2.56	15	8	P10	217.0237	-1.52	17	11	Q26	217.4161	-1.90	13	5	Q 7	217.7843	-3.72	10	1	Q21					
216.1716	-1.88	12	4	P27	216.4980	-2.52	21	18	P28	217.0264	-1.99	15	8	R32	217.4207	-4.40	10	1	Q 4	217.7850	-2.05	19	14	P20					
216.1757	-1.94	20	16	Q20	216.5162	-2.03	15	8	Q15	217.0338	-2.63	19	14	P 6	217.4209	-4.03	10	1	R19	217.7893	-1.65	15	8	Q36					
216.1780	-2.04	17	11	R14	216.5206	-1.84	17	11	R23	217.0343	-1.92	17	11	P22	217.4256	-1.76	19	14	Q18	217.7913	-4.24	10	1	P14					
216.1802	-2.01	17	11	Q 8	216.5210	-2.14	15	8	R22	217.0361	-2.05	19	14	Q 9	217.4299	-4.31	10	1	Q 5	217.7935	-1.64	12	4	P46					
216.1862	-4.95	9	0	P23	216.5214	-4.85	9	0	P29	217.0432	-2.12	19	14	R14	217.4315	-1.78	13	5	R18	217.8032	-2.04	15	8	P31					
216.1867	-2.64	17	11	P 5	216.5277	-1.80	12	4	P32	217.0493	-2.22	15	8	P21	217.4318	-1.85	13	5	Q 8	217.8062	-1.59	13	5	R29					
216.1931	-2.67	15	8	R 5	216.5315	-1.46	14	7	P44	217.0507	-1.79	15	8	Q26	217.4353	-5.35	10	1	P 2	217.8084	-1.93	13	5	P15					
216.1939	-2.61	15	8	R 6	216.5359	-2.52	15	8	P11	217.0602	-1.33	12	4	Q45	217.4357	-1.82	17	11	P27	217.8156	-1.85	19	14	R28					
216.1948	-2.74	15	8	R 4	216.5365	-1.67	17	11	Q18	217.0671	-2.01	19	14	Q10	217.4369	-2.60	13	5	P 4	217.8170	-1.45	13	5	Q21					
216.1967	-2.56	15	8	R 7	216.5401	-2.13	17	11	P14	217.0672	-2.55	19	14	P 7	217.4382	-4.01	10	1	R20	217.8209	-3.70	10	1	Q22					
216.1989	-2.82	15	8	R 3	216.5414	-2.00	15	8	Q16	217.0777	-2.10	19	14	R15	217.4394	-1.30	12	4	Q49	217.8286	-1.64	19	14	Q24					
216.1995	-1.49	14	7	P41	216.5463	-1.40	12	4	R23	217.0949	-1.97	15	8	R33	217.4410	-4.24	10	1	Q 6	217.8304	-4.20	10	1	P15					
216.2021	-2.52	15	8	R 8	216.5625	-1.40	12	4	Q39	217.0961	-1.55	12	4	R53	217.4465	-2.18	19	14	P15	217.8361	-1.26	12	4	Q53					
216.2039	-1.96	17	11	Q 9	216.5710	-2.23	20	16	P22	217.0974	-1.50	17	11	Q27	217.4497	-1.80	13	5	Q 9	217.8516	-1.58	13	5	R30					
216.2043	-1.65	12	4	R42	216.5734	-1.82	17	11	R24	217.1006	-1.97	19	14	G11	217.4531	-4.17	10	1	Q 7	217.8539	-1.90	13	5	P16					
216.2050	-2.91	15	8	R 2	216.5769	-2.48	15	8	P12	217.1034	-2.48	19	14	P 8	217.4552	-1.76	13	5	R19	217.8594	-3.68	10	1	Q23					
216.2081	-1.45	12	4	Q34	216.5771	-1.60	12	4	R47	217.1092	-1.90	17	11	P23	217.4556	-5.05	10	1	P 3	217.8607	-1.43	13	5	Q22					
216.2096	-2.48	15	8	R 9	216.5789	-1.97	15	8	Q17	217.1096	-1.71	12	4	P39	217.4567	-3.99	10	1	R21	217.8637	-2.03	19	14	P21					
216.2108	-2.01	17	11	R15	216.5867	-4.83	9	0	P30	217.1143	-2.19	15	8	P22	217.4610	-2.48	13	5	P 5	217.8713	-4.17	10	1	P16					
216.2137	-3.04	15	8	R 1	216.5885	-1.65	17	11	Q19	217.1154	-2.07	19	14	R16	217.4631	-1.70	15	8	Q32	217.8793	-1.64	15	8	Q37					
216.2152	-2.54	17	11	P 6	216.5927	-2.09	17	11	P15	217.1186	-1.78	15	8	Q27	217.4678	-4.12	10	1	Q 8	217.8828	-1.63	12	4	P47					
216.2195	-2.44	15	8	R10	216.5995	-1.10	15	8	R24	217.1383	-1.93	19	14	Q12	217.4684	-1.93	19	14	R23	217.8866	-2.03	15	8	P32					
216.2248	-3.22	15	8	R 0	216.6054	-2.79	12	4	P33	217.1430	-2.43	19	14	P 9	217.4692	-1.76	13	5	Q10	217.8940	-1.84	19	14	R29					
216.2267	-1.98	17	11	R16	216.6202	-2.44	15	8	P13	217.1507	-1.33	12	4	Q46	217.4719	-2.10	15	8	P27	217.8940	-3.66	10	1	Q24					
216.2307	-1.92	17	11	Q10	216.6282	-1.81	17	11	R25	217.1558	-2.05	19	14	R17	217.4777	-3.97	10	1	R22	217.9017	-1.88	13	5	P17					
216.2317	-2.40	15	8	R11	216.6323	-1.95	15	8	Q10	217.1597	-1.96	15	8	R34	217.4789	-4.87	10	1	P 4	217.9063	-1.61	13	5	Q23					
216.2384	-4.94	9	0	P24	216.6411	-1.39	12	4	Q48	217.1645	-1.76	15	8	Q28	217.4807	-1.74	13	5	R20	217.9072	-1.62	19	14	Q25					
216.2389	-1.86	12	4	P28	216.6427	-1.63	17	11	Q20	217.1782	-1.90	19	14	Q13	217.4830	-4.07	10	1	Q 9	217.9074	-1.56	13	5	R31					
216.2403	-3.04	15	8	Q 1	216.6468	-2.09	15	8	R25	217.1817	-2.17	15	8	P23	217.4845	-1.74	19	14	Q19	217.9138	-4.51	10	1	P17					
216.2444	-2.32	20	16	P18	216.6493	-2.06	17	11	P16	217.1860	-2.37	19	14	P10	217.4869	-2.38	13	5	P 6	217.9362	-3.64	10	1	P25					
216.2448	-2.82	15	8	Q 2	216.6501	-1.45	14	7	P45	217.1869	-1.88	17	11	P24	217.4879	-1.67	12	4	P43	217.9440	-2.01	19	14	Q22					
216.2463	-2.37	15	8	R12	216.6567	-1.59	12	4	R48	217.1997	-2.03	19	14	R18	217.4910	-1.72	13	5	Q11	217.9513	-1.85	13	5	P18					
216.2465	-2.46	17	11	P 7	216.6623	-2.21	20	16	P23	217.2014	-1.70	12	4	P40	217.5003	-4.03	10	1	Q10	217.9513	-1.55	13	5	R32					
216.2480	-1.91	20	16	Q21	216.6659	-2.40	15	8	P14	217.2215	-1.87	19	14	Q14	217.5003	-3.95	10	1	R23	217.9535	-1.26	12	4	G54					
216.2516	-2.67	15	8	Q 3	216.6767	-1.93	15	8	Q19	217.2307	-1.95	15	8	R35	217.5034	-4.75	10	1	P 5	217.9542	-1.39	13	5	Q24					
216.2559	-1.88	17	11	Q11	216.6854	-1.78	12	4	P34	217.2319	-2.33	19	14	P11	217.5080	-2.15	19	14	P16	217.9577	-4.12	10	1	P18					
216.2610	-2.56	15	8	Q 4	216.6866	-1.79	17	11	R26	217.2410	-1.75	15	8	Q29	217.5083	-1.72	13	5	R21	217.9706	-1.63	15	8	Q38					
216.2627	-2.55	21	18	P26	216.6991	-1.61	17	11	Q21	217.2422	-1.32	12	4	Q47	217.5146	-1.68	13	5	Q12	217.9745	-3.63	10	1	Q26					
216.2631	-1.96	17	11	R17	216.6995	-2.07	15	8	R26	217.2482	-2.01	19	14	R19	217.5147	-2.30	13	5	P 7	217.9776	-2.01	15	8	P33					
216.2631	-2.34	15	8	R13	216.7126	-2.04	17	11	P17	217.2524	-2.16	15	8	P24	217.5183	-3.99	10	1	Q11	217.9891	-1.60	19	14	Q26					
216.2691	-1.11	14	7	Q47	216.7139	-2.37	15	8	P15	217.2668	-1.86	17	11	P25	217.5248	-1.81	17	11	P28	217.9940	-1.54	13	5	R33					
216.2714	-3.52	15	8	P 2	216.7203	-1.37	12	4	Q41	217.2679	-1.84	19	14	Q15	217.5257	-3.93	10	1	R24	218.0030	-4.09	10	1	P19					
216.2724	-2.48	15	8	Q 5	216.7222	-1.90	15	8	Q20	217.2806	-2.29	19	14	P12	217.5291	-4.65	10	1	P 6	218.0031	-1.82	13	5	P19					
216.2755	-1.64	12	4	R43	216.7300	-2.05	15	8	R27	217.2983	-1.99	19	14	R20	217.5319	-1.91	19	14	R24	218.0040	-1.37	13	5	Q25					
216.2756	-1.44	12	4	Q35	216.7395	-1.59	12	4	R49	217.2988	-1.69	12	4	P41	217.5331	-1.29	12	4	Q50	218.0084	-1.62	12	4	P48					
216.2804	-2.39	17	11	P 8	216.7566	-2.19	20	16	P24	217.3033	-1.94	15	8	R36	217.5379	-1.70	13	5	R22	218.0195	-3.61	10	1	Q27					
216.2825	-2.31	15	8	R14	216.7586	-1.59	17	11	Q22	217.3036	-2.13	13	5	R 7	217.5383	-3.95	10	1	Q12	218.0292	-1.99	19	14	P23					
216.2863	-2.40	15	8	Q 6	216.7589	-2.01	17	11	P18	217.3039	-2.18	13	5	R 6	217.5401	-1.65	13	5	Q13	218.0501	-4.07	10	1	P20					
216.2912	-1.84	17	11	Q12	216.7644	-2.34	15	8	P16	217.3055	-2.08	13	5	R 8	217.5428	-1.69	15	8	Q33	218.0554	-1.52	13	5	R34					
216.2914	-3.22	15	8	P 3	216.7699	-1.44	14	7	P46	217.3063	-2.24	13	5	R 5	217.5443	-2.24	13	5	P 8	218.0560	-1.36	13	5	Q26					
216.2924	-4.92	9	0	P25	216.7716	-1.88	15	8	Q21	217.3088	-2.14	15	8	P25	217.5481	-1.72	19	14	Q20	218.0569	-1.80	13	5	P20					
216.2999	-1.94	17	11	R18	216.7884	-1.76	12	4	P35	217.3090	-2																		

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
218.5457	-3.90	10.	1	P29	218.9088	-3.31	18-12	R	0	219.2162	-2.15	18-12	Q14	219.5687	-2.03	23-21	020	-219.8654	-1.46	13-	5	P43					
218.5464	-1.24	13.	5	Q34	218.9105	-4.38	16-	9	P	4	219.2195	-1.96	12-17	Q15	219.5710	-3.40	11-	2	0	219.8665	-2.26	14-	6	P	6		
218.5537	-2.86	23-21	R	4	218.9109	-3.63	16-	9	R15	219.2268	-3.78	16-	9	P13	219.5711	-2.17	18-12	R	26	219.8690	-1.61	14-	6	R	20		
218.5586	-3.16	23-21	Q	1	218.9120	-2.44	23-21	R14	219.2311	-3.44	16-	9	R24	219.5728	-4.20	11-	2	P	4	219.8760	-2.34	23-21	P	21			
218.5601	-1.65	13.	5	P28	218.9146	-2.69	23-21	P10	-219.2324	-1.36	13-	5	R50	219.5729	-1.98	18-12	Q21	219.8814	-3.56	11-	2	P14					
218.5677	-2.79	23-21	R	5	218.9159	-2.22	21-17	Q	8	219.2453	-2.61	18-12	P11	219.5767	-3.30	11-	2	R22	219.8815	-1.76	21-17	Q24					
218.5690	-2.94	23-21	Q	2	-218.9197	-1.18	13-	5	Q39	219.2480	-3.29	16-	9	P18	219.5777	-3.35	11-	2	O10	219.8823	-3.04	11-	2	Q21			
218.5702	-1.44	13.	5	R62	218.9201	-3.63	16-	9	Q	8	219.2488	-2.27	18-12	R20	219.5953	-4.07	11-	2	P	5	219.8838	-3.50	16-	9	P24		
218.5809	-1.94	15-	8	P39	218.9211	-2.30	21-17	R12	219.2507	-2.13	21-17	R19	219.5993	-2.03	21-17	R24	219.8947	-3.09	16-	9	Q29						
218.5833	-2.79	23-21	Q	3	218.9214	-2.57	18-12	R	9	219.2584	-2.12	18-12	Q15	219.6028	-3.28	11-	2	R23	219.8951	-2.18	14-	6	P	7			
218.5867	-2.74	23-21	R	6	218.9242	-3.14	18-12	Q	1	-219.2605	-1.14	13-	5	Q43	219.6060	-3.32	11-	2	Q11	219.8990	-1.60	14-	6	R21			
218.5872	-1.58	12.	4	P53	218.9280	-2.24	23-21	P12	219.2617	-2.37	21-17	P13	219.6093	-2.22	21-17	P18	219.9001	-1.56	14-	6	Q12						
218.5877	-3.64	23-21	P	2	218.9290	-2.75	21-17	Q	6	219.2741	-3.74	16-	9	P14	219.6099	-3.58	16-	9	P20	219.9095	-2.11	14-	6	P	8		
218.5963	-3.89	10.	1	P30	218.9296	-2.91	18-12	Q	2	219.2767	-2.49	23-21	P15	-219.6211	-1.33	13-	5	R54	219.9134	-2.29	18-12	P	22				
218.5971	-1.88	19.14	P29	218.9357	-4.26	16-	9	P	5	219.2767	-2.32	23-21	R19	219.6212	-3.98	11-	2	P	6	219.9194	-1.89	18-12	Q	26			
218.6025	-2.69	23-21	Q	4	218.9365	-3.60	16-	9	R16	219.2784	-1.93	21-17	Q16	-219.6234	-3.34	16-	9	R31	219.9196	-3.02	11-	2	Q22				
218.6099	-2.69	23-21	R	7	218.9368	-2.53	18-12	R10	219.2791	-3.43	16-	9	R25	219.6249	-3.15	16-	9	Q25	219.9215	-3.53	11-	2	P15				
218.6126	-3.34	23-21	P	3	218.9380	-2.77	18-12	Q	3	-219.2802	-1.52	13-	5	P37	219.6258	-3.28	11-	2	Q12	219.9279	-1.49	14-	6	Q14			
218.6197	-1.23	13.	5	Q35	218.9419	-3.58	16-	9	Q	9	219.2902	-2.10	23-21	Q17	219.6264	-1.82	21-17	Q21	219.9315	-1.58	14-	6	R22				
218.6263	-2.60	23-21	Q	5	218.9482	-2.17	21-17	Q	9	219.2917	-2.57	18-12	P12	219.6299	-2.38	18-12	P18	219.9363	-1.53	14-	6	Q13					
218.6332	-1.63	13.	5	P29	218.9493	-2.66	18-12	Q	4	219.2942	-3.27	16-	9	R19	219.6355	-1.96	18-12	Q22	-219.9399	-1.31	13-	5	R57				
218.6381	-2.64	23-21	R	8	-218.9512	-1.58	13-	5	P33	219.2959	-2.25	18-12	R21	-219.6391	-1.10	13-	5	Q47	-219.9422	-1.08	13-	5	Q50				
218.6415	-3.16	23-21	P	4	218.9550	-2.50	18-12	R11	219.3034	-2.09	18-12	Q16	219.6392	-2.15	18-12	R27	219.9547	-2.05	14-	6	P	9					
218.6465	-1.43	13.	5	R43	218.9550	-3.61	18-12	P	2	219.3127	-2.11	21-17	R20	219.6397	-3.26	11-	2	R24	219.9559	-2.13	21-17	P	22				
218.6549	-2.53	23-21	Q	6	218.9575	-2.27	21-17	R13	219.3240	-2.34	21-17	P14	219.6429	-3.25	11-	2	R25	219.9585	-3.48	16-	9	P25					
218.6719	-2.60	23-21	R	9	218.9635	-2.57	18-12	Q	5	219.3240	-3.71	16-	9	P15	219.6477	-3.25	11-	2	Q13	219.9587	-3.00	11-	2	Q23			
218.6728	-3.87	10.	1	P31	218.9637	-4.16	16-	9	P	6	-219.3270	-1.36	13-	5	R51	219.6477	-3.90	11-	2	P	7	219.9634	-3.50	11-	2	P16	
218.6752	-3.04	23-21	P	5	218.9647	-3.58	16-	9	R17	219.3299	-3.41	16-	9	R26	219.6555	-2.38	23-21	P	19	219.9657	-1.56	14-	6	R23			
218.6881	-1.22	13.	5	Q36	218.9659	-3.54	16-	9	Q10	219.3401	-1.91	21-17	Q17	219.6608	-1.81	14-	6	R12	-219.9695	-1.45	13-	5	P44				
218.6884	-2.46	23-21	Q	7	218.9661	-2.67	21-17	P	7	219.3408	-2.53	18-12	P13	-219.6624	-1.48	13-	5	P41	-219.9698	-3.07	16-	9	Q30				
218.7039	-1.87	19.14	P30	-218.9682	-1.39	13-	5	R47	219.3431	-3.25	16-	9	Q20	219.6664	-2.05	14-	6	R	6	219.9725	-1.47	14-	6	Q15			
218.7041	-1.57	12.	4	P54	218.9745	-2.41	23-21	R15	219.3461	-2.23	18-12	R22	219.6711	-3.21	11-	2	Q14	219.9733	-1.74	21-17	Q	25					
218.7064	-1.62	13.	5	P30	218.9758	-3.31	18-12	P	3	219.3516	-2.07	18-12	Q17	219.6746	-3.56	16-	9	P21	219.9844	-1.87	18-12	Q	27				
218.7104	-2.56	23-21	R10	218.9762	-2.47	18-12	R12	R12	-219.3537	-1.13	13-	5	Q44	219.6760	-3.23	11-	2	R26	219.9916	-2.27	18-12	P	23				
218.7136	-2.94	23-21	P	6	218.9776	-2.64	23-21	P11	219.3640	-2.46	23-21	P16	219.6766	-3.83	11-	2	P	8	219.9920	-2.00	14-	6	P10				
218.7221	-1.42	13.	5	R44	218.9801	-2.50	18-12	Q	6	-219.3731	-1.51	13-	5	P38	219.6792	-2.00	14-	6	R	7	219.9934	-2.89	20-15	R	3		
218.7263	-2.41	23-21	Q	8	218.9826	-2.13	21-17	Q10	219.3763	-3.68	16-	9	P16	219.6814	-2.02	21-17	R25	219.9957	-1.44	14-	6	Q16					
218.7534	-2.53	23-21	R11	218.9905	-2.21	23-21	Q13	219.3778	-2.07	23-21	Q18	219.6839	-1.96	14-	6	R	5	219.9961	-2.89	20-15	R	2					
218.7568	-2.86	23-21	P	7	218.9928	-3.50	16-	9	Q11	219.3786	-2.09	21-17	R21	219.6844	-2.11	14-	6	R	5	219.9961	-2.99	20-15	R	2			
218.7595	-1.21	13.	5	Q37	218.9938	-4.08	16-	9	P	7	219.3836	-3.40	16-	9	R27	219.6882	-2.18	14-	6	R	4	219.9993	-2.99	11-	2	Q24	
218.7617	-2.85	21-17	R	3	218.9951	-3.56	16-	9	R18	219.3903	-2.30	21-17	P15	219.6887	-3.13	16-	9	Q26	220.0006	-3.11	20-15	R	1				
218.7620	-2.75	21-17	R	2	218.9958	-2.25	21-17	R14	219.3929	-2.50	18-12	P14	-219.6906	-3.33	16-	9	R32	-220.0026	-1.54	14-	6	R24					
218.7651	-2.67	21-17	R	4	218.9997	-3.14	18-12	P	4	219.3944	-3.23	16-	9	Q21	219.6907	-1.92	14-	6	R	9	220.0034	-2.75	20-15	R	5		
218.7672	-2.97	21-17	R	1	218.9998	-2.44	18-12	Q	7	219.3973	-2.22	18-12	R23	219.6909	-2.19	21-17	P19	220.0039	-3.69	20-15	R	6					
218.7690	-2.36	23-21	Q	9	219.0003	-2.44	18-12	R13	219.4019	-2.04	18-12	Q13	219.6924	-2.26	14-	6	R	3	220.0067	-3.47	11-	2	P17				
218.7724	-2.60	21-17	R	5	-219.0015	-1.17	13-	5	Q40	219.4067	-1.88	21-17	Q18	219.6957	-2.36	18-12	P19	220.0086	-3.29	20-15	R	7					
218.7742	-3.15	21-17	Q	0	219.0057	-2.60	21-17	P	8	219.4210	-3.68	11-	2	R	8	219.6963	-3.19	11-	2	Q15	220.0160	-2.64	20-15	R	0		
218.7821	-2.55	21-17	R	6	219.0219	-3.46	16-	9	Q12	219.4210	-3.64	11-	2	R	9	219.6974	-1.78	14-	6	R13	220.0238	-3.11	20-15	Q	1		
218.7855	-1.60	13.	5	P31	219.0224	-2.38	18-12	Q	6	-219.4213	-1.35	13-	5	R52	219.6999	-1.88	14-	6	R10	220.0308	-2.59	20-15	R	8			
218.7890	-2.97	21-17	Q	1	219.0240	-2.09	21-17	Q11	219.4227	-3.60	11-	2	R10	219.7001	-2.36	14-	6	R	2	220.0310	-2.89	20-15	Q	2			
218.7891	-4.01	16-	9	R	5	219.0264	-3.01	18-12	P	5	219.4229	-3.72	11-	2	R	7	219.7012	-1.94	18-12	Q	23	220.0311	-1.96	14-	6	P11	
218.7905	-3.96	16-	9	R	6	219.0267	-4.01	16-	9	P	8	219.4258	-3.56	11-	2	R11	219.7064	-3.77	11-	2	P	9	220.0358	-3.46	16-	9	P26
218.7905	-4.08	16-	9	R	4	219.0271	-2.41	18-12	R14	219.4264	-3.77	11-	2	R	6	219.7073	-1.80	21-17	Q	22	-220.0408	-1.53	14-	6	R25		
218.7940	-4.16	16-	9	R	3	-219.0273	-1.56	13-	5	P34	219.4309	-3.83	11-	2	R	5	219.7084	-3.21	11-	2	R27	220.0413	-1.41	14-	6	Q17	
218.7942	-3.90	16-	9	R	7	219.0282	-3.54	16-	9	R19	219.4309	-3.65	16-	9	P17	219.7089	-2.14	18-12	R28	220.0418	-2.75	20-15	Q	3			
218.7967	-2.50	21-17	R	7	219.0397	-2.22	21-17	R15	219.4310	-3.53	11-	2	R12	219.7101	-2.44	14-	6	R	1	22							

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	
220.2023	-3.27	24-23	R 1		220.6227	-1.03	13-	5	O56	221.5278	-2.93	17-10	R10		221.8675	-2.71	12-	3	R26	222.1722	-2.45	15-	7	R 1	
220.2047	-3.45	24-23	R 0		220.6227	-2.15	18-12	P30		221.5376	-3.54	17-10	Q 1		221.8676	-3.26	12-	3	P 9	222.1744	-2.65	23-20	G 6		
220.2073	-2.91	11-	2	O29	220.6239	-2.39	24-23	P11		221.5424	-3.31	17-10	Q 2		221.8700	-4.14	19-13	R 8		222.1757	-2.72	23-20	R 9		
220.2086	-3.15	24-23	R 2		220.6291	-1.61	14-	6	P23	221.5427	-2.90	17-10	R11		221.8710	-2.63	17-10	R22		222.1785	-2.96	12-	3	P17	
220.2092	-1.32	14-	6	Q21	220.6392	-2.80	24-23	P10		221.5455	-1.33	13-	5	P57	221.8799	-4.66	19-13	Q 1		222.1806	-2.62	17-10	Q22		
220.2110	-1.03	16-	9	Q33	220.6410	-1.19	14-	6	Q29	221.5496	-1.43	14-	6	P35	221.8839	-4.10	19-13	R 9		222.1820	-2.47	12-	3	Q24	
220.2172	-1.47	14-	6	R29	220.6410	-2.19	20-15	R23		221.5503	-3.17	17-10	Q 3		221.8845	-2.50	17-10	Q16		222.1840	-2.63	15-	7	R 0	
220.2193	-3.27	24-23	Q 1		220.6429	-2.00	20-15	P19		221.5511	-1.04	14-	6	Q41	221.8855	-4.44	19-13	Q 2		222.1840	-1.78	15-	7	R12	
220.2215	-2.36	20-15	R15		220.6484	-1.39	13-	5	P50	221.5515	-1.26	14-	6	R48	221.8919	-2.64	12-	3	Q16		222.1886	-3.68	19-13	Q14	
220.2235	-3.05	24-23	R 3		220.6505	-3.35	16-	9	P33	221.5603	-3.06	17-10	Q 4		221.8949	-4.30	19-13	Q 3		222.1891	-3.82	19-13	R19		
220.2258	-2.97	24-23	R 4		220.6571	-2.41	20-15	P16		221.5604	-2.87	17-10	R12		221.8951	-2.97	17-10	P12		222.1901	-2.52	17-10	K28		
220.2274	-1.78	14-	6	P16	220.6595	-3.23	11-	2	P29	221.5695	-4.01	17-10	P 2		221.9004	-3.21	12-	3	P10		222.1980	-1.75	15-	7	R13
220.2314	-3.05	24-23	Q 2		220.6637	-2.57	24-23	R13		221.5729	-2.97	17-10	Q 5		221.9005	-2.70	12-	3	R27		222.2001	-3.16	23-20	P 5	
220.2325	-2.75	20-15	P 8		220.6762	-1.37	14-	6	R37	221.5761	-2.49	24-23	P19		221.9010	-4.06	19-13	R10		222.2004	-2.45	15-	7	Q 1	
220.2348	-2.23	20-15	Q11		220.6942	-1.60	14-	6	P24	221.5805	-3.16	12-	3	R 8	221.9067	-4.19	19-13	Q 4		222.2050	-2.23	15-	7	Q 2	
220.2401	-2.22	18-12	P26		220.6983	-1.17	14-	6	Q30	221.5811	-2.84	17-10	R13		221.9112	-5.14	19-13	P 2		222.2056	-2.58	23-20	Q 7		
220.2485	-3.75	24-23	P 2		220.6989	-2.35	24-23	Q12		221.5814	-3.21	12-	3	R 7	221.9177	-2.62	17-10	R23		222.2098	-2.68	23-20	R10		
220.2503	-3.35	11-	2	P22	220.7086	-2.18	20-15	R24		221.5818	-3.12	12-	3	R 9	221.9207	-4.03	19-13	R11		222.2113	-2.78	17-10	P18		
220.2523	-2.90	24-23	Q 3		220.7091	-1.98	20-15	Q20		221.5836	-3.08	12-	3	R10	221.9217	-4.10	19-13	Q 5		222.2115	-2.08	15-	7	Q 3	
220.2554	-1.30	14-	6	Q22	220.7164	-2.75	24-23	P11		221.5842	-3.26	12-	3	R 6	221.9218	-2.62	12-	3	Q17		222.2131	-4.14	19-13	P11	
220.2564	-2.07	21-17	P25		220.7252	-2.39	20-15	P17		221.5878	-3.05	12-	3	R11	221.9265	-1.00	14-	6	Q45		222.2146	-1.72	15-	7	R14
220.2572	-2.90	24-23	R 5		220.7261	-3.21	11-	2	P30	221.5881	-2.90	17-10	Q 6		221.9283	-1.38	14-	6	P39		222.2202	-1.97	15-	7	Q 4
220.2614	-2.33	20-15	R16		220.7429	-1.36	14-	6	R38	221.5887	-3.32	12-	3	R 5	221.9305	-2.47	17-10	Q17		222.2253	-2.93	12-	3	P18	
220.2664	-1.45	14-	6	R30	220.7454	-2.55	24-23	R14		221.5903	-3.71	17-10	P 3		221.9325	-4.84	19-13	P 3		222.2265	-2.45	12-	3	Q25	
220.2669	-2.89	11-	2	Q30	220.7457	-1.02	13-	5	O57	221.5938	-3.01	12-	3	R12	221.9353	-3.16	12-	3	P11		222.2315	-1.89	15-	7	Q 5
220.2725	-1.05	13-	5	O53	220.7496	-3.34	16-	9	P34	221.5951	-3.38	12-	3	R 4	221.9365	-2.68	12-	3	R28		222.2332	-2.93	15-	7	P 2
220.2749	-2.19	20-15	Q12		220.7609	-1.58	14-	6	P25	221.6019	-2.98	12-	3	R13	221.9376	-1.22	14-	6	R52		222.2334	-1.70	15-	7	R15
220.2752	-2.69	20-15	P 9		220.7676	-1.16	14-	6	Q31	221.6033	-3.46	12-	3	R 3	221.9394	-4.03	19-13	Q 6		222.2338	-3.65	19-13	G15		
220.2752	-3.45	24-23	P 3		220.7703	-1.38	13-	5	P51	221.6059	-2.84	17-10	Q 7		221.9401	-2.45	17-10	Q18		222.2363	-1.34	14-	6	P42	
220.2780	-1.29	13-	5	R60	220.7790	-1.96	20-15	Q21		221.6070	-2.87	17-10	R14		221.9420	-2.93	17-10	P13		222.2365	-3.80	19-13	R20		
220.2812	-1.75	14-	6	P17	220.7804	-2.32	24-23	Q13		221.6112	-2.96	12-	3	R14	221.9438	-4.00	19-13	R12		222.2373	-0.97	14-	6	Q48	
220.2819	-2.80	24-23	Q 4		220.7958	-2.36	20-15	P18		221.6127	-3.56	12-	3	R 2	221.9533	-2.59	12-	3	Q18		222.2374	-2.34	17-10	Q23	
220.2835	-3.41	16-	9	P29	220.7958	-3.20	11-	2	P31	221.6142	-3.54	17-10	P 4		221.9575	-4.66	19-13	P 4		222.2380	-3.06	23-20	P 6		
220.2865	-2.85	24-23	R 8		220.7995	-2.71	24-23	P12		221.6203	-2.78	17-10	R15		221.9604	-3.97	19-13	Q 7		222.2412	-2.53	23-20	Q 8		
220.2975	-1.42	13-	5	P47	220.8117	-1.34	14-	6	R39	221.6228	-2.93	12-	3	R15	221.9674	-2.60	17-10	R24		222.2444	-1.81	15-	7	Q 6	
220.2987	-2.71	24-23	Q 5		220.8303	-1.56	14-	6	P26	221.6246	-3.68	12-	3	R 1	221.9674	-1.31	13-	5	P60		222.2484	-2.65	23-20	R11	
220.3042	-1.29	14-	6	Q23	220.8312	-2.52	24-23	R15		221.6264	-2.78	17-10	Q 8		221.9692	-3.97	19-13	R13		222.2503	-2.52	17-10	R29		
220.3045	-3.33	11-	2	P23	220.8371	-1.14	14-	6	Q32	221.6359	-2.91	12-	3	R16	221.9706	-2.67	12-	3	R29		222.2542	-2.63	15-	7	R16
220.3056	-2.31	20-15	Q22		220.8517	-1.94	20-15	Q22		221.6375	-3.86	12-	3	R 0	221.9708	-3.12	12-	3	P12		222.2580	-1.20	14-	6	R55
220.3107	-3.27	24-23	P 4		220.8580	-3.19	11-	2	P32	221.6401	-3.41	17-10	P 5		221.9840	-3.91	19-13	Q 8		222.2596	-1.75	15-	7	Q 7	
220.3181	-1.44	14-	6	R31	220.8686	-2.29	24-23	Q14		221.6409	-1.41	14-	6	P36	221.9851	-4.54	19-13	P 5		222.2596	-1.75	15-	7	Q 7	
220.3185	-2.16	20-15	P13		220.8707	-2.33	20-15	P19		221.6418	-1.03	14-	6	Q42	221.9871	-2.57	12-	3	P19		222.2616	-4.10	19-13	P12	
220.3205	-2.64	20-15	Q10		220.8723	-1.01	13-	5	O58	221.6433	-1.25	14-	6	R49	221.9917	-2.90	17-10	P14		222.2647	-1.29	13-	5	P62	
220.3216	-2.80	24-23	R 7		220.8859	-1.33	14-	6	R40	221.6494	-2.73	17-10	Q 9		221.9987	-3.94	19-13	R14		222.2689	-3.18	22-18	R 3		
220.3229	-2.88	11-	2	Q31	220.8892	-2.67	24-23	P13		221.6505	-2.88	12-	3	R17	222.0087	-3.08	12-	3	P13		222.2725	-2.44	12-	3	G26
220.3320	-2.20	18-12	P27		220.8917	-1.37	13-	5	P52	221.6520	-2.76	17-10	R16		222.0110	-3.86	19-13	Q 9		222.2736	-2.91	12-	3	P19	
220.3352	-1.73	14-	6	P18	220.9011	-1.54	14-	6	P27	221.6544	-3.68	12-	3	Q 1	222.0112	-2.42	17-10	O19		222.2749	-2.76	17-10	P19		
220.3448	-2.64	24-23	Q 6		220.9069	-1.13	14-	6	Q33	221.6583	-3.46	12-	3	Q 2	222.0157	-4.44	19-13	P 6		222.2764	-3.28	22-18	R 2		
220.3530	-2.29	20-15	R18		220.9256	-2.49	24-23	R16		221.6632	-3.32	12-	3	Q 3	222.0194	-2.58	17-10	R25		222.2765	-3.10	22-18	R 4		
220.3546	-1.27	14-	6	Q24	220.9280	-1.92	20-15	Q23		221.6675	-2.86	12-	3	R18	222.0223	-2.55	12-	3	Q20		222.2771	-2.45	15-	7	P 4
220.3548	-3.15	24-23	P 5		220.9302	-3.17	11-	2	P33	221.6687	-3.17	17-10	P 6		222.0277	-1.37	14-	6	P40		222.2771	-1.70	15-	7	Q 8
220.3608	-3.32	11-	2	P24	220.9488	-2.31	20-15	P20		221.6707	-3.21	12-	3	Q 4	222.0292	-0.99	14-	6	Q46		222.2773	-1.65	15-	7	R17
220.3616	-2.75	24-23	R 8		220.9617	-1.32	14-	6	R41	221.6752	-2.69	17-10	Q10		222.0307	-3.91	19-13	R15		222.2792	-3.40	22-18	R 1		
220.3634	-2.05	21-17	P26		220.9650	-2.26	24-23	Q15		221.6793	-3.12	12-	3	Q 5	222.0406	-3.82	19-13	Q10		222.2795	-2.98	23-20	P 7		
220.3646	-2.13	20-15	Q16		220.9746	-1.53	14-	6	P28	221.6835	-2.73	17-10	R17		222.0444	-2.87	17-10	P15		222.2814	-2.48	23-20	G 9		
220.36																									

Table 7. (Cont.)

WAVE	LOGGF	Vx	VA	XJ	WAVE	LOGGF	Vx	VA	XJ	WAVE	LOGGF	Vx	VA	XJ	WAVE	LOGGF	Vx	VA	XJ	WAVE	LOGGF	Vx	VA	XJ	WAVE	LOGGF	Vx	VA	XJ
222.3971	-1.50	15	-7	Q13	222.7750	-1.72	15	-7	P17	223.3498	-3.73	19	-13	P27	223.9532	-3.46	13	-4	P3	-224.4910	-1.35	15	-7	P39					
222.4041	-2.71	22	-18	Q7	222.7755	-2.61	23	-20	P15	223.3513	-4.48	21	-16	P30	223.9549	-1.25	15	-7	R46	224.4922	-2.07	18	-11	Q10					
222.4058	-3.28	22	-18	P5	222.7835	-2.62	17	-10	P26	223.3528	-3.70	21	-16	R10	223.9570	-3.19	21	-16	Q19	224.5044	-2.05	13	-4	Q25					
222.4130	-2.71	17	-10	P21	222.7859	-1.42	15	-7	R30	223.3656	-1.12	15	-7	Q32	223.9611	-3.61	21	-16	P16	224.5099	-2.12	18	-11	R17					
222.4152	-2.77	22	-18	R11	222.7941	-2.73	12	-3	P28	-223.3659	-1.32	15	-7	R39	223.9651	-2.53	13	-4	O8	224.5141	-2.62	18	-11	P7					
-222.4166	-1.29	13	-5	P63	222.7959	-2.80	22	-18	P13	223.3677	-3.67	21	-16	Q6	-223.9653	-1.22	14	-6	P56	-224.5163	-.97	15	-7	Q45					
222.4202	-2.39	12	-3	Q29	-222.7992	-.93	14	-6	Q53	223.3713	-2.43	22	-18	R26	223.9710	-2.48	22	-18	P26	224.5175	-2.03	13	-4	Q11					
222.4241	-4.00	19	-13	P15	-222.8005	-1.29	14	-6	P47	223.3755	-2.21	22	-18	Q23	223.9716	-2.41	13	-4	R20	-224.5371	-2.19	13	-4	R35					
222.4248	-2.03	15	-7	P9	222.8044	-1.26	15	-7	Q23	223.3780	-4.31	21	-16	P4	223.9730	-3.38	21	-16	R23	224.5384	-3.44	21	-16	P23					
222.4273	-1.55	15	-7	R22	222.8110	-2.56	22	-18	R19	223.3793	-3.67	21	-16	R11	223.9759	-3.28	13	-4	P4	224.5402	-2.50	13	-4	P19					
222.4275	-1.47	15	-7	Q14	222.8158	-2.21	17	-10	Q31	223.3921	-3.61	21	-16	Q7	223.9814	-2.48	13	-4	Q9	224.5464	-2.09	18	-11	R18					
222.4287	-2.36	23	-20	Q12	222.8253	-2.36	22	-18	Q16	223.4070	-4.18	21	-16	P5	223.9959	-2.40	13	-4	R21	224.5492	-2.55	18	-11	P8					
222.4306	-2.84	12	-3	P22	222.8287	-1.70	15	-7	P18	223.4092	-3.64	21	-16	R12	-223.9994	-1.41	15	-7	P34	224.5533	-2.03	13	-4	Q26					
222.4317	-2.81	23	-20	P10	222.8329	-3.84	19	-13	P21	-223.4199	-1.25	14	-6	P52	224.0006	-2.43	13	-4	Q10	224.5535	-2.00	18	-11	Q12					
222.4348	-2.29	17	-10	Q26	-222.8438	-1.41	15	-7	R31	223.4200	-3.55	21	-16	Q8	224.0008	-3.15	13	-4	P5	224.5563	-6.15	10	-0	R9					
222.4355	-2.65	22	-18	Q8	222.8474	-2.19	23	-20	Q18	223.4207	-1.51	15	-7	P27	224.0211	-2.40	13	-4	Q11	224.5630	-6.12	10	-0	R10					
222.4427	-3.55	19	-13	Q19	222.8497	-3.43	19	-13	Q25	-223.4268	-2.51	17	-10	P33	224.0229	-1.02	15	-7	Q40	224.5670	-6.08	10	-0	R11					
222.4438	-3.18	22	-18	P6	222.8574	-1.24	15	-7	Q24	223.4369	-2.58	22	-18	R21	224.0231	-2.38	13	-4	Q22	224.5693	-5.94	10	-0	R16					
222.4485	-2.53	23	-20	R15	222.8581	-2.58	23	-20	P16	223.4397	-4.08	21	-16	P6	224.0274	-3.17	21	-16	Q20	224.5713	-6.05	10	-0	R12					
222.4514	-2.74	22	-18	R12	222.8607	-2.71	12	-3	P29	223.4426	-3.61	21	-16	R13	224.0275	-3.06	13	-4	P6	224.5771	-6.02	10	-0	R13					
-222.4552	-1.32	14	-6	P44	222.8627	-2.77	22	-18	P14	-223.4431	-1.10	15	-7	Q33	224.0328	-3.58	21	-16	P17	224.5777	-1.34	15	-7	P40					
-222.4572	-1.95	14	-6	Q50	222.8676	-2.60	17	-10	R27	223.4444	-1.31	15	-7	R40	224.0425	-2.36	13	-4	Q12	224.5850	-2.07	18	-11	R19					
222.4572	-3.73	19	-13	R24	222.8787	-2.54	22	-18	R20	223.4492	-3.71	19	-13	P28	224.0500	-2.36	13	-4	R23	224.5866	-5.92	10	-0	R17					
-222.4592	-2.48	17	-10	R32	222.8846	-1.67	15	-7	P19	223.4515	-3.50	21	-16	Q9	224.0559	-2.98	13	-4	P7	224.5869	-5.99	10	-0	R14					
222.4605	-1.44	15	-7	Q15	222.8923	-2.34	22	-18	Q17	223.4716	-2.19	22	-18	Q24	224.0678	-2.33	13	-4	Q13	224.5870	-2.49	18	-11	P9					
222.4606	-1.97	15	-7	P10	-222.8945	-2.20	17	-10	Q32	223.4764	-4.00	21	-16	P7	224.0798	-2.34	13	-4	R24	224.5899	-1.96	18	-11	Q13					
222.4639	-1.53	15	-7	R23	222.8974	-1.40	15	-7	R32	223.4792	-3.58	21	-16	R14	224.0858	-2.91	13	-4	P8	-224.5910	-2.18	13	-4	R36					
222.4696	-2.60	22	-18	Q9	222.9119	-3.82	19	-13	P22	223.4858	-3.46	21	-16	Q10	224.0895	-2.47	22	-18	P27	224.5927	-2.48	13	-4	P20					
222.4750	-2.38	12	-3	Q30	222.9132	-1.22	15	-7	Q25	223.4913	-1.50	15	-7	P28	224.0934	-2.29	13	-4	Q14	224.5954	-6.24	10	-0	R7					
222.4827	-2.69	17	-10	P22	-222.9173	-1.29	14	-6	P48	-223.5145	-1.09	15	-7	Q34	224.0940	-1.40	15	-7	P35	224.5959	-6.29	10	-0	R6					
222.4832	-3.10	22	-18	P7	-222.9244	-.92	14	-6	Q54	223.5163	-3.94	21	-16	P8	224.1013	-3.15	21	-16	Q21	224.6004	-6.35	10	-0	R8					
222.4850	-3.97	19	-13	P16	222.9244	-3.42	19	-13	Q26	223.5196	-3.55	21	-16	R15	224.1032	-1.21	14	-6	P57	224.6009	-5.89	10	-0	R18					
222.4864	-2.82	12	-3	P23	222.9305	-2.70	12	-3	P30	223.5235	-3.42	21	-16	Q11	224.1080	-3.55	21	-16	P18	224.6037	-6.19	10	-0	R8					
222.4868	-2.33	23	-20	Q13	222.9327	-2.74	22	-18	P15	-223.5305	-1.29	15	-7	R41	224.1116	-2.33	13	-4	R25	224.6040	-2.02	13	-4	Q27					
222.4908	-2.71	22	-18	R13	222.9332	-2.17	23	-20	Q19	-223.5334	-2.50	17	-10	P34	224.1182	-2.85	13	-4	P9	224.6044	-5.96	10	-0	R15					
222.4912	-2.76	23	-20	P11	222.9431	-1.65	15	-7	P20	223.5355	-2.56	22	-18	P22	224.1193	-1.01	15	-7	Q41	224.6084	-6.42	10	-0	R4					
222.4957	-1.41	15	-7	Q16	222.9453	-2.56	23	-20	P17	-223.5542	-1.24	14	-6	P53	224.1220	-2.27	13	-4	Q15	224.6150	-5.87	10	-0	R19					
222.4991	-1.93	15	-7	P11	222.9505	-2.52	22	-18	R21	223.5598	-3.88	21	-16	P9	224.1454	-2.31	13	-4	R26	224.6177	-6.50	10	-0	R3					
222.5028	-3.53	19	-13	Q20	222.9552	-2.58	17	-10	P28	223.5635	-3.53	21	-16	R16	224.1515	-2.24	13	-4	Q16	-224.6255	-.96	15	-7	Q46					
222.5032	-1.51	15	-7	R24	-222.9590	-1.38	15	-7	R33	223.5656	-3.38	21	-16	Q12	224.1516	-2.80	13	-4	P10	224.6258	-2.05	18	-11	R20					
222.5062	-2.27	17	-10	Q27	222.9627	-2.31	22	-18	Q18	223.5720	-1.48	15	-7	P29	224.1796	-3.13	21	-16	Q22	224.6273	-2.44	18	-11	P10					
222.5087	-2.56	22	-18	Q10	222.9706	-1.20	15	-7	Q26	223.5726	-2.17	22	-18	Q25	224.1807	-2.29	13	-4	R27	224.6276	-1.93	18	-11	Q14					
222.5098	-2.51	23	-20	R16	-222.9838	-2.19	17	-10	Q33	223.5951	-1.08	15	-7	Q35	224.1832	-2.21	13	-4	Q17	224.6291	-6.59	10	-0	R2					
222.5162	-3.71	19	-13	R25	222.9918	-3.80	19	-13	P23	-223.6018	-1.28	15	-7	R42	224.1867	-3.53	21	-16	P19	224.6295	-5.85	10	-0	R20					
222.5259	-3.04	22	-18	P8	222.9984	-2.68	12	-3	P31	223.6069	-3.83	21	-16	P10	224.1878	-2.76	13	-4	P11	224.6354	-3.42	21	-16	P24					
-222.5311	-2.47	17	-10	R33	223.0037	-1.63	15	-7	P21	223.6110	-3.50	21	-16	R17	224.1928	-1.38	15	-7	P36	224.6418	-6.72	10	-0	R1					
-222.5330	-1.38	15	-7	Q17	223.0067	-2.71	22	-18	P16	223.6111	-3.95	21	-16	Q13	224.2138	-2.45	22	-18	P28	224.6454	-5.83	10	-0	R21					
222.5342	-2.68	22	-18	R14	223.0079	-3.40	19	-13	Q27	-223.6376	-2.48	17	-10	P35	224.2166	-2.19	13	-4	Q18	-224.6467	-2.17	13	-4	R37					
222.5394	-1.89	15	-7	P12	223.0243	-2.15	23	-20	Q20	223.6381	-2.54	22	-18	P23	224.2187	-2.28	13	-4	R28	224.6472	-2.46	13	-4	Q21					
222.5435	-2.67	17	-10	P23	223.0244	-2.50	22	-18	R22	-223.6511	-1.47	15	-7	P30	224.2253	-2.72	13	-4	P12	224.6563	-2.00	13	-4	Q28					
222.5442	-2.80	12	-3	P24	-223.0246	-1.37	15	-7	R34	223.6568	-3.78	21	-16	P11	-224.2256	-1.00	15	-7	Q42	224.6567	-6								

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
224.7947	-1.81	16	8	R14	225.0890	-6.05	10	0	P15	225.5639	-2.37	20	14	Q19	226.2717	-1.55	16	8	P30	226.6787	-5.69	11	1	Q 1
224.7997	-1.97	16	8	0	225.0894	-1.72	18	11	Q23	225.5808	-1.29	16	8	Q26	226.2757	-6.40	24	21	P 2	226.6802	-4.83	11	1	R20
224.8002	-5.72	10	0	R28	225.0938	-2.09	13	4	R44	225.5912	-1.47	16	8	R33	226.2793	-3.44	14	5	P 2	226.6802	-5.40	24	21	P11
224.8007	-3.01	16	8	P 2	225.1025	-1.60	16	8	R24	225.5954	-2.95	20	14	R24	226.2802	-2.33	14	5	Q 6	226.6825	-5.94	14	1	Q 2
224.8007	-5.73	10	0	Q14	225.1043	-2.76	20	14	R14	225.5988	-2.75	20	14	P16	226.2849	-2.14	14	5	R18	226.6870	-1.47	14	5	R30
224.8015	-1.83	18	11	Q18	225.1044	-5.50	10	0	Q24	225.6006	-1.71	16	8	P21	226.2883	-5.45	24	21	Q 4	226.6892	-5.32	14	1	Q 3
224.8026	-6.50	10	0	P 6	225.1064	-1.47	16	8	Q17	225.6021	-5.80	10	0	P26	226.2931	-5.45	24	21	R 7	226.6896	-4.97	24	21	Q13
-224.8117	-1.32	15	7	P42	225.1073	-2.68	20	14	Q 9	-225.6032	-1.83	13	4	Q42	226.2937	-2.27	14	5	Q 7	226.6916	-1.81	14	5	Q21
224.8136	-1.90	16	8	Q 6	225.1091	-3.26	20	14	P 6	225.6288	-2.33	20	14	Q20	226.2966	-3.14	14	5	P 3	226.6966	-4.81	11	1	R21
224.8158	-1.78	16	8	R15	225.1099	-2.14	18	11	P19	-225.6369	-2.23	13	4	P35	226.2999	-6.10	24	21	P 3	226.6972	-5.21	14	1	Q 5
224.8170	-2.28	18	11	P14	225.1175	-1.97	16	8	Q12	225.6465	-2.00	18	11	P26	226.3071	-2.12	14	5	R19	226.7023	-2.30	14	1	P14
224.8184	-1.98	18	11	R24	225.1340	-6.02	10	0	P16	-225.6494	-1.27	16	8	Q27	226.3093	-2.21	14	5	Q 8	226.7063	-5.13	11	1	Q 5
224.8206	-5.80	10	0	Q12	225.1388	-2.73	20	14	R15	-225.6498	-2.03	13	4	R51	226.3130	-5.36	24	21	Q 5	226.7142	-6.17	11	1	P 2
224.8218	-2.71	16	8	P 8	225.1388	-2.64	20	14	Q10	-225.6551	-1.46	16	8	R34	226.3147	-2.58	20	14	P25	226.7146	-3.38	22	17	R 3
224.8227	-2.40	13	4	P24	225.1425	-5.49	10	0	Q25	225.6604	-5.78	10	0	P27	226.3195	-2.97	14	5	P 4	226.7148	-3.48	22	17	R 2
-224.8242	-2.13	13	4	R40	225.1438	-3.19	20	14	P 7	225.6628	-2.53	20	14	R25	226.3218	-5.40	24	21	R 8	226.7154	-4.79	11	1	R22
-224.8269	-1.96	13	4	Q31	-225.1481	-2.08	13	4	R45	225.6653	-2.76	20	14	P17	-226.3223	-1.15	16	8	Q36	226.7170	-2.52	20	14	P29
224.8285	-5.70	10	0	Q15	-225.1492	-1.58	16	8	R25	225.6670	-1.69	16	8	P22	226.3271	-2.16	14	5	Q 9	226.7172	-3.30	22	17	R 4
224.8299	-6.42	10	0	P 7	225.1508	-2.31	13	4	P29	-225.6880	-1.82	13	4	Q43	-226.3280	-1.75	13	4	Q50	226.7172	-5.05	11	1	Q 6
224.8300	-1.84	16	8	Q 7	-225.1515	-1.89	13	4	Q36	-225.6921	-2.32	13	4	P36	-226.3301	-5.92	24	21	P 4	226.7211	-3.60	22	17	R 1
224.8399	-1.76	16	8	R16	225.1548	-1.70	18	11	Q24	-225.6940	-1.26	16	8	Q28	-226.3311	-2.10	14	5	R20	226.7241	-3.24	22	17	R 0
224.8452	-2.53	16	8	P 4	-225.1557	-1.28	15	7	P45	225.6951	-2.33	20	14	Q21	-226.3381	-2.13	13	4	P43	226.7287	-3.78	22	17	R 7
224.8484	-1.78	16	8	Q18	225.1609	-1.44	16	8	Q18	-225.7255	-1.44	16	8	R35	-226.3426	-5.29	24	21	Q 6	226.7291	-4.99	11	1	G 7
224.8541	-1.80	18	11	Q19	225.1620	-1.93	16	8	P13	225.7265	-5.76	10	0	P28	-226.3447	-2.84	14	5	P 5	-226.7331	-2.09	13	4	P47
224.8552	-5.68	10	0	Q16	225.1730	-2.60	20	14	Q11	-225.7322	-2.02	13	4	R52	-226.3451	-2.19	20	14	Q29	226.7335	-3.18	22	17	R 6
224.8607	-6.35	10	0	P 8	225.1765	-2.71	20	14	R16	225.7332	-2.52	20	14	R26	-226.3464	-2.12	14	5	Q10	226.7350	-1.79	14	5	Q22
224.8694	-1.73	16	8	Q 9	225.1789	-2.12	18	11	P20	225.7338	-1.98	18	11	P27	-226.3565	-5.36	24	21	R 9	226.7358	-4.77	11	1	R23
224.8709	-2.25	18	11	P15	225.1813	-3.12	20	14	P 8	225.7350	-2.73	20	14	P18	226.3573	-2.08	14	5	R21	226.7358	-5.87	11	1	P 3
224.8713	-2.41	16	8	P 5	225.1831	-5.47	10	0	Q26	225.7357	-1.67	16	8	P23	-226.3653	-5.80	24	21	P 5	226.7371	-5.15	24	21	R16
224.8728	-1.73	16	8	R17	225.1869	-5.96	10	0	P18	225.7666	-2.31	20	14	Q22	-226.3678	-1.53	16	8	P31	-226.7409	-1.48	16	8	P35
224.8730	-1.96	18	11	R25	225.1869	-5.99	10	0	P17	-225.7695	-1.81	13	4	Q44	226.3681	-2.08	14	5	Q11	-226.7419	-1.93	14	5	R31
224.8821	-5.65	10	0	Q17	-225.2010	-1.88	13	4	Q37	-225.7715	-1.24	16	8	Q29	226.3717	-2.74	14	5	P 6	226.7437	-4.94	11	1	Q 8
224.8837	-2.38	13	4	P22	225.2015	-1.56	16	8	R26	225.7755	-5.75	10	0	P29	226.3772	-5.22	24	21	Q 7	226.7446	-3.60	22	17	Q 1
-224.8856	-1.94	13	4	Q32	225.2055	-1.42	16	8	Q16	-225.7802	-2.20	13	4	P37	226.3854	-2.06	14	5	R22	-226.7454	-1.72	13	4	Q54
224.8864	-1.71	16	8	R18	225.2089	-1.90	16	8	P14	-225.7976	-1.43	16	8	R36	226.3915	-2.05	14	5	Q12	226.7479	-3.13	22	17	R 7
-224.8899	-2.12	13	4	R41	225.2114	-2.57	20	14	Q12	225.8045	-2.50	20	14	R27	226.3959	-5.32	24	21	R10	226.7487	-2.27	14	5	P16
224.8925	-1.69	16	8	Q10	225.2170	-2.68	20	14	R17	225.8075	-2.71	20	14	P19	226.4005	-2.67	14	5	P 7	226.7506	-5.36	24	21	Q12
224.8955	-6.29	10	0	P 9	225.2223	-3.06	20	14	P 9	225.8078	-1.65	16	8	P24	226.4054	-5.70	24	21	P 6	226.7527	-3.38	22	17	Q 2
224.8994	-2.31	16	8	P 6	225.2228	-2.29	13	4	P30	225.8249	-1.96	18	11	P28	226.4110	-2.57	20	14	P26	226.7586	-4.89	11	1	R24
224.9090	-1.78	18	11	Q20	225.2236	-1.69	18	11	Q25	-225.8272	-2.02	13	4	R53	226.4129	-1.14	16	8	Q37	226.7591	-4.75	11	1	Q 9
224.9101	-5.63	10	0	Q18	-225.2297	-1.55	16	8	R27	225.8272	-2.29	20	14	Q23	226.4159	-2.05	14	5	R23	226.7593	-4.94	24	21	P14
224.9180	-1.65	16	8	R11	-225.2369	-5.45	10	0	Q27	225.8412	-5.73	10	0	P30	226.4163	-5.17	24	21	Q 8	226.7622	-3.24	22	17	Q 3
224.9190	-1.69	16	8	Q19	225.2395	-5.94	10	0	P19	-225.8538	-1.23	16	8	Q30	226.4168	-2.01	14	5	Q13	226.7652	-3.08	22	17	R 8
224.9269	-6.19	10	0	P11	-225.2409	-2.08	13	4	R46	-225.8591	-1.80	13	4	Q45	226.4313	-2.60	14	5	P 8	226.7652	-3.08	22	17	R 8
224.9291	-2.22	18	11	P16	225.2501	-2.09	18	11	P21	225.8643	-1.63	16	8	P25	-226.4330	-1.74	13	4	Q51	226.7755	-4.85	11	1	Q10
224.9299	-2.23	16	8	P 7	225.2511	-1.40	16	8	Q20	-225.8682	-2.19	13	4	P38	-226.4383	-2.12	13	4	P44	226.7762	-4.08	22	17	P 2
-224.9312	-1.31	15	7	P43	225.2521	-2.53	20	14	Q13	-225.8726	-1.42	16	8	R37	-226.4400	-5.29	24	21	R11	226.7778	-3.13	22	17	Q 4
224.9314	-1.95	18	11	R26	225.2581	-1.87	16	8	P15	225.8816	-2.49	20	14	R28	226.4404	-2.18	20	14	Q30	226.7803	-1.77	14	5	Q23
224.9320	-3.19	20	14	R 4	225.2610	-2.66	20	14	R18	225.8836	-2.68	20	14	P20	226.4442	-1.98	14	5	Q14	-226.7836	-1.91	14	5	R32
224.9342	-3.26	20	14	R 3	225.2629	-5.44	10	0	Q28	225.9144	-2.27	20	14	Q24	226.4481	-2.03	14	5	R24	226.7845	-3.04	22	17	R 9
224.9367	-3.12	20	14	R 5	225.2667	-3.01	20	14	P10	225.9185	-1.21	16	8	Q31	226.4504	-5.62	24	21	P 7	226.7861	-5.57	11	1	P 5
224.9382	-3.36	20	14	R 2	-225.2770	-1.28	15	7	P46	-225.9488	-1.79	13	4	Q46	-226.4521	-1.52	16	8	P32	226.7916	-4.74	11	1	R25
224.9391	-5.60	10	0	Q19	225.2891	-5.92	10	0	P20	225.9510	-1.61	16	8	P26	226.4605	-5.12	24	21	Q 9	226.7932	-4.81	11	1	Q11
224.9391	-6.24	10	0	P10	-225.2894	-1.87	13	4	Q38	-225.9581	-2.18	13	4	P39	226.4640	-2.54	14	5	P 9	226.7963	-3.04	22	17	Q 5
224.9422	-3.06	20	14	R 6	-225.2896	-1.53	16	8	R28	225.9607	-2.47	20	14	R29	226.4734	-1.95	14	5	Q15	226.7973	-2.24	14	5	P17
224.9447	-3.49	20	14	R 1	225.2946	-1.67	18	11	Q26	225.9646	-2.66	20												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
226.9785	-5.08	24	-21	R19	227.3943	-4.87	11	-1	P21	227.7629	-2.12	19	-12	P14	228.2026	-1.74	17	-9	R31	228.6515	-2.73	15	-6	R1
226.9824	-1.70	14	-5	Q27	227.3957	-2.56	17	-9	R3	227.7674	-2.80	22	-17	P20	228.2069	-1.52	19	-12	Q25	228.6598	-1.46	17	-9	Q31
226.9852	-2.72	22	-17	Q11	227.3971	-2.25	17	-9	R8	227.7697	-1.86	17	-9	R23	228.2081	-2.74	21	-15	Q2	228.6645	-2.91	15	-6	P13
226.9890	-4.58	11	-1	Q19	227.3977	-2.00	19	-12	R15	227.7705	-1.74	17	-9	Q16	228.2086	-4.15	25	-23	R11	228.6654	-2.36	21	-15	P10
226.9910	-5.25	24	-21	P15	227.4014	-1.95	19	-12	Q9	227.7710	-1.95	14	-5	P32	228.2181	-1.49	14	-5	Q44	228.6686	-1.98	15	-6	R15
226.9924	-2.85	22	-17	R15	227.4031	-2.65	17	-9	R2	227.7718	-2.41	22	-17	Q23	228.2183	-1.93	19	-12	P21	228.6716	-3.77	25	-23	Q15
226.9934	-1.86	14	-5	R36	227.4044	-2.21	17	-9	R9	227.7759	-1.75	14	-5	R47	228.2192	-2.59	21	-15	Q3	228.6743	-1.86	17	-9	P26
226.9996	-4.86	24	-21	Q17	227.4067	-2.70	22	-17	R22	227.7806	-4.74	11	-1	P28	228.2195	-2.40	21	-15	R9	228.6773	-1.83	14	-5	P42
227.0068	-5.13	11	-1	P12	227.4124	-2.78	17	-9	R1	227.7865	-1.55	14	-5	Q39	228.2206	-1.71	14	-5	R52	228.6819	-2.73	15	-6	Q2
227.0120	-2.14	14	-5	P21	227.4146	-2.18	17	-9	R10	227.7903	-1.81	19	-12	R24	228.2319	-2.49	21	-15	Q4	228.6862	-2.51	15	-6	Q1
227.0170	-3.18	22	-17	P9	227.4150	-2.53	19	-12	P6	227.8017	-2.21	17	-9	P12	228.2331	-3.44	21	-15	P2	228.6879	-2.08	21	-15	R21
227.0202	-4.55	11	-1	Q20	227.4159	-1.60	14	-5	Q34	227.8120	-1.71	17	-9	Q17	228.2353	-1.55	17	-9	Q25	228.6890	-1.95	15	-6	R16
227.0354	-2.68	22	-17	Q12	227.4178	-4.38	11	-1	Q30	227.8146	-1.84	17	-9	R24	228.2400	-1.98	17	-9	P20	228.6924	-2.37	15	-6	Q3
227.0391	-1.69	14	-5	Q28	227.4241	-2.95	17	-9	R0	227.8158	-1.64	19	-12	Q19	228.2424	-2.36	21	-15	R10	228.6963	-4.15	25	-23	P14
227.0397	-2.83	22	-17	R16	227.4271	-2.14	17	-9	R11	227.8194	-2.08	19	-12	P15	228.2449	-3.94	25	-23	Q10	228.6965	-1.45	14	-5	G49
227.0442	-5.09	11	-1	P13	227.4299	-1.91	19	-12	Q10	227.8432	-4.72	11	-1	P29	228.2488	-2.40	21	-15	Q5	228.7008	-2.26	15	-6	Q4
227.0480	-1.44	16	-8	P38	227.4302	-1.97	19	-12	R16	227.8478	-2.18	17	-9	P13	228.2567	-3.14	21	-15	P3	228.7074	-1.90	21	-15	Q17
227.0526	-4.53	11	-1	Q21	227.4393	-2.90	22	-17	P16	227.8511	-1.80	19	-12	R25	228.2598	-2.33	21	-15	R11	228.7104	-1.93	15	-6	R17
227.0545	-1.85	14	-5	R37	227.4409	-2.78	17	-9	Q1	227.8563	-1.69	17	-9	Q18	228.2620	-2.70	22	-17	P25	228.7129	-2.17	15	-6	Q5
227.0661	-3.13	22	-17	P10	227.4411	-2.04	13	-4	P53	227.8573	-2.78	22	-17	P21	228.2622	-4.36	25	-23	P9	228.7166	-3.21	15	-6	P2
227.0704	-2.12	14	-5	P22	227.4419	-2.11	17	-9	R12	227.8602	-1.74	14	-5	R48	228.2692	-1.72	17	-9	R32	228.7220	-2.03	15	-6	Q7
227.0765	-2.65	22	-17	Q13	227.4451	-4.85	11	-1	P22	227.8604	-1.94	14	-5	P33	228.2700	-2.33	21	-15	Q6	228.7252	-1.81	19	-12	P27
227.0818	-5.22	24	-21	P16	227.4460	-2.56	17	-9	Q2	227.8619	-1.82	17	-9	R25	228.2779	-4.12	25	-23	R12	228.7253	-2.10	15	-6	Q6
227.0829	-5.05	11	-1	P14	227.4483	-2.45	19	-12	P7	227.8638	-2.39	22	-17	Q24	228.2843	-2.96	21	-15	P4	228.7271	-2.33	21	-15	P14
227.0854	-2.07	13	-4	P50	227.4496	-2.49	22	-17	Q19	227.8678	-1.54	14	-5	Q40	228.2845	-1.88	14	-5	P38	228.7312	-1.67	14	-5	R57
227.0884	-4.51	11	-1	Q22	227.4535	-2.41	17	-9	Q3	227.8720	-1.62	19	-12	Q20	228.2855	-1.51	19	-12	Q26	228.7314	-4.34	12	-2	R10
227.0902	-4.83	24	-21	Q18	227.4594	-2.08	17	-9	R13	227.8764	-4.79	25	-23	R1	228.2890	-2.29	21	-15	R12	228.7314	-4.37	12	-2	R9
227.0920	-2.80	22	-17	P17	227.4608	-1.79	14	-5	R43	227.8788	-2.05	19	-12	P16	228.2936	-2.26	21	-15	Q7	228.7327	-4.30	12	-2	R11
227.0956	-1.67	14	-5	Q29	227.4611	-1.87	19	-12	Q11	227.8792	-4.96	25	-23	Q1	228.2969	-1.91	19	-12	P22	228.7329	-4.42	12	-2	R8
227.1170	-3.08	22	-17	P11	227.4630	-2.30	17	-9	Q4	227.8828	-4.66	25	-23	R2	228.2994	-1.53	17	-9	Q26	228.7335	-1.91	15	-6	R18
227.1197	-1.84	14	-5	R38	227.4647	-1.95	19	-12	R17	227.8927	-4.71	11	-1	P30	228.3060	-1.95	17	-9	P21	228.7362	-4.27	12	-2	R12
227.1227	-5.02	11	-1	P15	227.4649	-2.01	14	-5	P28	227.8946	-4.79	25	-23	Q1	228.3081	-1.48	14	-5	Q45	228.7365	-4.46	12	-2	R7
227.1261	-4.50	11	-1	Q23	227.4746	-3.25	17	-9	P2	227.8964	-2.14	17	-9	P14	228.3129	-2.84	21	-15	P5	228.7380	-3.99	25	-23	R17
227.1297	-2.62	22	-17	Q14	227.4754	-2.21	17	-9	Q5	227.8982	-4.57	25	-23	R3	228.3161	-3.90	25	-23	Q11	228.7384	-2.91	15	-6	P3
227.1310	-2.10	14	-5	P23	227.4793	-2.05	17	-9	R14	227.8999	-4.49	25	-23	R4	228.3191	-1.70	14	-5	R53	228.7403	-1.44	17	-9	Q32
227.1484	-2.78	22	-17	R18	227.4828	-2.68	22	-17	R23	227.9027	-1.66	17	-9	Q19	228.3199	-2.26	21	-15	R13	228.7411	-4.24	12	-2	R13
227.1567	-1.43	16	-8	P39	227.4847	-2.38	19	-12	P8	227.9073	-4.57	25	-23	Q2	228.3239	-2.21	21	-15	Q8	228.7416	-4.51	12	-2	R6
227.1583	-1.66	14	-5	Q30	227.4889	-1.59	14	-5	Q35	227.9102	-1.78	19	-12	R26	228.3345	-4.31	25	-23	P10	228.7475	-4.57	12	-2	R5
227.1594	-4.48	11	-1	Q24	227.4898	-2.14	17	-9	Q6	227.9121	-1.81	17	-9	R26	228.3414	-2.16	21	-15	Q9	228.7479	-4.21	12	-2	R14
227.1642	-4.99	11	-1	P16	227.4952	-1.83	19	-12	Q12	227.9255	-5.27	25	-23	Q2	228.3476	-2.74	21	-15	P6	228.7495	-2.06	21	-15	R22
227.1754	-3.04	22	-17	P12	227.4960	-5.12	24	-21	P20	227.9291	-4.42	25	-23	Q3	228.3506	-1.49	19	-12	Q27	228.7519	-1.98	15	-6	Q8
227.1772	-5.20	24	-21	P17	227.4965	-2.95	17	-9	P3	227.9327	-4.42	25	-23	R5	228.3541	-2.24	21	-15	R14	228.7554	-1.84	17	-9	P27
227.1810	-1.83	14	-5	R39	227.4970	-4.83	11	-1	P23	227.9340	-1.60	19	-12	Q21	228.3543	-4.09	25	-23	R13	228.7559	-4.18	12	-2	R15
227.1855	-2.59	22	-17	Q15	227.5014	-2.02	17	-9	R15	227.9366	-1.93	14	-5	P34	228.3665	-1.51	17	-9	Q27	228.7559	-4.64	12	-2	R4
227.1862	-4.81	24	-21	Q19	227.5033	-1.93	19	-12	R18	227.9409	-2.03	19	-12	P17	228.3722	-2.68	22	-17	P26	228.7585	-1.89	15	-6	R19
227.1936	-2.08	14	-5	P24	227.5070	-2.08	17	-9	Q7	227.9476	-2.11	17	-9	P15	228.3746	-1.93	17	-9	P22	228.7619	-2.73	15	-6	P4
227.2006	-2.06	13	-4	P51	227.5157	-2.88	22	-17	P17	227.9479	-1.74	14	-5	R49	228.3770	-1.89	19	-12	Q23	228.7647	-4.72	12	-2	R3
227.2007	-4.46	11	-1	Q25	227.5208	-2.78	17	-9	P4	227.9512	-1.52	14	-5	Q41	228.3777	-2.12	21	-15	Q10	228.7659	-4.16	12	-2	R16
227.2063	-2.76	22	-17	R19	227.5235	-2.47	22	-17	Q20	227.9518	-1.64	17	-9	Q20	228.3803	-1.86	14	-5	P39	228.7682	-1.87	21	-15	Q18
227.2074	-4.96	11	-1	P17	227.5241	-2.33	19	-12	P9	227.9523	-2.76	22	-17	P22	228.3870	-2.66	21	-15	P7	228.7738	-1.93	15	-6	Q9
227.2237	-1.64	14	-5	Q31	227.5261	-2.00	17	-9	R16	227.9536	-4.96	25	-23	P3	228.3917	-2.21	21	-15	R15	228.7764	-3.75	25	-23	Q16
227.2342	-2.45	19	-12	R4	227.5265	-2.02	17	-9	Q8	227.9580	-2.37	22	-17	Q25	228.3943	-3.87	25	-23	Q12	228.7771	-4.81	12	-2	R2
227.2345	-2.38	19	-12	R4	227.5324	-1.80	19	-12	Q13	227.9600	-4.31	25	-23	Q4	228.4036	-1.48	14	-5	Q46	228.7775	-4.14	12	-2	R17
227.2361	-3.00	22	-17	P13	227.5346	-1.78	14	-5	R44	227.9630	-4.36	25	-23	R6	228.4152	-7.07	25	-23	P11	228.7801	-1.82	14	-5	P43
227.2362	-2.53	19	-12	R3	227.5389	-2.00	14	-5	P29	227.9651	-1.79	17	-9	R27	228.4158	-2.08	21	-15	Q11	228.7853	-1.87	15	-6	R20
227.2376	-4.44	11	-1	Q26	227.5431	-1.91	19	-12	R19	227.9703	-4.69	11	-1	P31	228.4172	-1.70	14	-5						

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
228.9223	-4.00	12	-2	R24	-229.4803	-1.39	14	-5	O56	-230.2492	-1.35	14	-5	O62	230.5109	-2.86	18	-10	P10	230.9436	-3.82	13	-3	R 8
228.9262	-4.81	12	-2	P 5	229.4905	-4.14	12	-2	P20	230.2505	-2.86	18	-10	O 4	230.5142	-2.72	24	-20	P12	230.9459	-3.71	13	-3	R11
228.9264	-1.81	17	-9	P29	-229.5042	-1.63	15	-6	R36	230.2580	-2.64	18	-10	R13	-230.5182	-1.50	15	-6	R49	230.9461	-3.87	13	-3	R 7
228.9275	-2.24	21	-15	P17	229.5079	-3.66	12	-2	O28	230.2618	-3.82	18	-10	P 2	230.5228	-2.48	24	-20	R17	230.9502	-3.67	13	-3	R12
228.9286	-4.05	12	-2	Q11	229.5140	-3.64	12	-2	O29	230.2633	-2.78	18	-10	O 5	230.5248	-2.29	23	-18	O 8	230.9504	-3.92	13	-3	R 6
228.9361	-1.69	15	-6	Q16	229.5141	-2.08	21	-15	P24	-230.2650	-1.72	15	-6	P32	230.5268	-1.98	20	-13	Q11	230.9558	-1.91	20	-13	R25
228.9468	-2.26	15	-6	P10	-229.5179	-1.45	15	-6	O28	230.2721	-2.44	24	-20	O10	-230.5274	-1.68	15	-6	P35	230.9564	-3.97	13	-3	R 5
228.9478	-4.02	12	-2	Q12	229.5328	-1.89	15	-6	P22	230.2755	-2.92	24	-20	P 8	230.5341	-2.38	23	-18	R12	230.9565	-3.64	13	-3	R13
-228.9489	-1.66	14	-5	R59	229.5414	-4.11	12	-2	P21	230.2760	-3.91	12	-2	P33	230.5348	-2.33	18	-10	Q15	230.9574	-2.17	20	-13	P16
-228.9502	-1.78	15	-6	R25	-229.5674	-1.75	14	-5	P50	230.2786	-2.70	18	-10	O 6	230.5365	-2.82	23	-18	P 6	-230.9625	-1.24	15	-6	Q46
228.9523	-3.97	12	-2	R26	-229.5685	-1.62	15	-6	R37	230.2798	-2.58	24	-20	R13	230.5410	-2.44	18	-10	R22	230.9628	-1.73	20	-13	Q20
228.9533	-4.72	12	-2	P 6	229.5732	-3.63	12	-2	O30	230.2834	-2.61	18	-10	R14	230.5436	-2.07	20	-13	R17	230.9640	-3.62	13	-3	R14
228.9692	-3.98	12	-2	Q13	-229.5798	-1.44	15	-6	O29	230.2837	-3.52	18	-10	P 3	230.5459	-2.50	20	-13	P 8	230.9643	-4.04	13	-3	R 4
228.9710	-4.81	21	-15	Q21	229.5943	-4.09	12	-2	P22	230.2894	-2.57	20	-13	R 4	230.5541	-2.82	18	-10	P11	230.9684	-2.18	23	-18	R20
228.9808	-4.64	12	-2	P 7	-229.5963	-1.87	15	-6	P23	230.2907	-2.50	20	-13	R 5	230.5598	-2.24	23	-18	O 9	230.9708	-2.41	23	-18	P14
228.9823	-1.67	15	-6	Q17	-229.6029	-1.38	14	-5	O57	230.2910	-2.65	20	-13	R 3	230.5627	-1.95	20	-13	Q12	230.9738	-3.59	13	-3	R15
228.9826	-3.95	12	-2	R27	229.6118	-2.06	21	-15	P25	230.2950	-2.59	18	-10	R15	230.5725	-2.27	24	-20	Q15	230.9740	-4.12	13	-3	R 3
228.9872	-2.21	15	-6	P11	-229.6284	-3.62	12	-2	O31	230.2953	-2.44	20	-13	R 6	230.5739	-2.35	23	-18	R13	230.9847	-4.22	13	-3	R 2
-228.9898	-1.76	15	-6	R26	-229.6337	-1.61	15	-6	R38	230.2956	-2.74	20	-13	R 2	-230.5764	-1.28	15	-6	O42	230.9850	-3.56	13	-3	R16
228.9921	-3.95	12	-2	Q14	-229.6363	-1.42	15	-6	O30	230.2964	-2.64	18	-10	O 7	230.5773	-2.30	18	-10	Q16	-230.9855	-2.31	18	-10	R30
-228.9943	-1.80	14	-5	P45	229.6490	-4.07	12	-2	P23	230.3026	-2.39	20	-13	R 7	230.5774	-2.74	23	-18	P 7	230.9888	-2.56	18	-10	P19
229.0001	-2.21	21	-15	P18	-229.6623	-1.85	15	-6	P24	230.3027	-2.87	20	-13	R 1	230.5844	-2.04	20	-13	R18	230.9926	-2.15	24	-20	Q20
229.0107	-4.57	12	-2	P 8	229.6826	-3.60	12	-2	O32	230.3088	-3.34	18	-10	P 4	230.5856	-2.68	24	-20	P13	230.9936	-1.98	23	-18	Q17
229.0135	-3.94	12	-2	R28	-229.6898	-1.74	14	-5	P51	-230.3117	-1.31	15	-6	Q39	230.5866	-2.44	20	-13	P 9	230.9972	-1.23	18	-10	Q24
229.0136	-1.79	17	-9	P30	-229.7009	-1.60	15	-6	R39	230.3134	-2.34	20	-13	R 8	230.5872	-2.42	18	-10	R23	230.9978	-3.54	13	-3	R17
229.0167	-3.92	12	-2	O15	-229.7056	-1.41	15	-6	Q31	230.3138	-3.04	20	-13	O 8	230.5952	-2.46	24	-20	R18	230.9981	-4.34	13	-3	R 1
229.0176	-3.70	25	-23	Q18	229.7057	-4.05	12	-2	P24	230.3171	-2.59	18	-10	O 8	230.5995	-2.78	18	-10	P12	-231.0097	-1.62	15	-6	P40
-229.0213	-1.42	14	-5	O52	229.7129	-2.04	21	-15	P26	230.3228	-2.40	24	-20	Q11	230.5999	-2.20	23	-18	Q10	231.0122	-4.52	13	-3	R 0
229.0226	-1.77	19	-12	P30	-229.7291	-1.38	14	-5	O58	230.3262	-2.56	18	-10	R16	230.6022	-1.91	20	-13	Q13	231.0129	-3.52	13	-3	R18
229.0228	-1.64	15	-6	Q18	-229.7299	-1.83	15	-6	P25	230.3267	-2.30	20	-13	R 9	-230.6084	-1.69	14	-5	P58	231.0134	-2.53	24	-20	P18
229.0302	-2.17	15	-6	P12	229.7658	-4.04	12	-2	P25	230.3282	-2.86	24	-20	P 9	230.6137	-1.49	15	-6	R50	-231.0211	-1.46	15	-6	R54
-229.0311	-1.75	15	-6	R27	-229.7738	-1.59	15	-6	R40	230.3304	-2.87	20	-13	O 1	230.6179	-2.32	23	-18	R14	231.0227	-2.14	20	-13	P17
229.0405	-4.06	25	-23	P17	-229.7749	-1.40	15	-6	O32	230.3333	-2.56	24	-20	R14	-230.6196	-1.67	15	-6	P36	231.0239	-1.90	20	-13	R26
229.0415	-4.51	12	-2	P 9	-229.8003	-1.81	15	-6	P26	-230.3334	-1.70	14	-5	P56	230.6218	-2.68	23	-18	P 8	231.0269	-1.71	20	-13	Q21
229.0426	-3.90	12	-2	O16	-229.8117	-1.74	14	-5	P52	230.3358	-3.22	18	-10	P 5	230.6238	-2.27	18	-10	Q17	231.0294	-3.50	13	-3	R19
229.0452	-1.79	21	-15	Q22	-229.8375	-4.02	12	-2	P26	230.3361	-2.65	20	-13	O 2	230.6286	-2.02	20	-13	R19	231.0304	-4.34	13	-3	Q 1
229.0476	-3.92	12	-2	R29	-229.8444	-1.38	15	-6	O33	-230.3363	-1.52	15	-6	R67	230.6307	-2.39	20	-13	P10	231.0343	-4.12	13	-3	Q 2
229.0530	-2.10	15	-6	P14	-229.8483	-1.58	15	-6	R41	230.3403	-2.54	18	-10	O 9	230.6308	-2.25	18	-10	Q18	231.0390	-3.97	13	-3	Q 3
229.0633	-1.62	15	-6	Q19	-229.8511	-1.37	14	-5	O59	230.3432	-2.27	20	-13	R10	230.6363	-2.40	18	-10	R24	-231.0399	-1.67	14	-5	P61
-229.0644	-1.65	14	-5	R60	-229.8719	-1.80	15	-6	P27	230.3457	-2.50	20	-13	O 3	230.6438	-2.16	23	-18	Q11	231.0416	-2.16	23	-18	R21
229.0705	-3.87	12	-2	Q17	-229.8720	-4.00	12	-2	P27	-230.3502	-1.71	15	-6	P33	230.6438	-2.16	23	-18	Q14	231.0431	-2.38	23	-18	P15
229.0734	-3.91	12	-2	R30	-229.9168	-1.37	15	-6	O34	230.3514	-2.82	23	-18	R 3	230.6468	-2.24	24	-20	Q16	231.0464	-3.87	13	-3	Q 4
229.0738	-4.46	12	-2	P10	-229.9243	-1.57	15	-6	R42	230.3517	-2.54	18	-10	R17	230.6477	-2.74	18	-10	P13	231.0478	-3.48	13	-3	R20
-229.0756	-1.73	15	-6	R28	-229.9391	-3.98	12	-2	P28	230.3577	-2.39	20	-13	O 4	230.6616	-2.65	24	-20	P14	-231.0506	-2.30	18	-10	R31
229.0772	-2.18	21	-15	P19	-229.9396	-1.73	14	-5	P53	230.3588	-2.74	23	-18	R 4	230.6661	-2.29	23	-18	R15	231.0548	-3.78	13	-3	Q 5
229.0772	-2.13	15	-6	P13	-229.9464	-1.78	15	-6	P28	230.3599	-2.92	23	-18	R 2	-230.6698	-1.27	15	-6	Q43	231.0566	-2.54	18	-10	P20
229.1000	-3.85	12	-2	O18	-229.9815	-1.36	14	-5	O60	230.3624	-2.23	20	-13	R11	230.6703	-2.23	23	-18	P 9	231.0629	-2.11	18	-10	Q25
-229.1028	-1.79	14	-5	P46	-229.9918	-1.36	15	-6	O35	230.3634	-3.05	23	-18	R 1	230.6731	-2.44	24	-20	R19	231.0649	-3.71	13	-3	Q 6
229.1056	-1.60	15	-6	Q20	-229.9995	-3.16	24	-20	R 2	230.3638	-3.34	20	-13	P 2	230.6759	-2.00	20	-13	R20	231.0650	-1.23	15	-6	Q47
-229.1064	-1.78	17	-9	P31	230.0013	-3.06	24	-20	R 3	230.3656	-3.12	18	-10	P 6	230.6775	-2.34	20	-13	P11	231.0659	-1.95	23	-18	Q18
229.1082	-4.42	12	-2	P11	230.0016	-3.28	24	-20	R 1	230.3663	-2.50	18	-10	Q10	230.6878	-2.39	18	-10	R25	231.0666	-4.82	13	-3	P 2
229.1098	-3.90	12	-2	R31	-230.0020	-1.56	15	-6	R43	230.3674	-2.68	23	-18	R 5	230.6897	-1.85	20	-13	Q15	231.0679	-3.46	13	-3	R21
-229.1210	-1.72	15	-6	R29	230.0053	-3.97	12	-2	P29	230.3716	-3.22	23	-18	O 0	230.6913	-2.12	23	-18	Q12	231.0771	-3.64	13	-3	Q 7
229.1231	-1.77	21	-15	Q23	230.0087	-3.46	24	-20	R 0	230.3729	-2.30	20	-13	O 5	230.6988	-2.70	18	-10	P14	231.0886	-4.52	13	-3	P 3
229.1250	-2.06	15	-6	P15	230.0090	-2.98	24	-20	R 4	230.3782	-2.36	24	-20	Q12	230.7041	-2.23	18	-10	Q19	231.0899	-3.44	13	-3	R22
229.1312	-3.82	12	-2	O19	230.0204	-2.92	24	-20	R 5	230.3795	-2.62	23	-18	R										

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
231.2220	-3.97	13	-3	P 8	231.5938	-2.40	18	-10	P27	-232.0990	-1.16	15	-6	O56	-233.2357	-1.12	16	-7	Q42	233.5945	-3.38	14	-4	P10	233.5945	-3.38	14	-4	P10	233.5945	-3.38	14	-4	P10
231.2232	-1.91	23	-18	Q20	231.5946	-2.01	18	-10	Q32	232.1042	-1.73	16	-7	P22	233.2370	-5.72	19	-11	P 5	233.6003	-2.86	14	-4	R28	233.6003	-2.86	14	-4	R28	233.6003	-2.86	14	-4	R28
231.2248	-2.21	16	-7	O 3	231.5978	-2.71	22	-16	O 2	232.1058	-1.30	16	-7	O28	233.2376	-5.07	19	-11	R16	233.6099	-3.38	14	-4	P 4	233.6099	-3.38	14	-4	P 4	233.6099	-3.38	14	-4	P 4
231.2272	-3.36	13	-3	R27	231.5992	-2.40	22	-16	R 8	232.1151	-2.12	23	-18	P26	233.2453	-1.51	16	-7	P36	233.6101	-2.79	14	-4	Q17	233.6101	-2.79	14	-4	Q17	233.6101	-2.79	14	-4	Q17
231.2273	-1.82	16	-7	R15	231.6092	-2.56	22	-16	O 3	-232.1178	-1.47	16	-7	R36	233.2457	-5.05	19	-11	O 9	233.6108	-2.68	21	-14	Q 7	233.6108	-2.68	21	-14	Q 7	233.6108	-2.68	21	-14	Q 7
231.2336	-2.10	16	-7	O 4	231.6101	-1.97	16	-7	P13	232.1260	-3.40	13	-3	P27	233.2472	-3.33	14	-4	R 8	233.6141	-5.21	19	-11	P14	233.6141	-5.21	19	-11	P14	233.6141	-5.21	19	-11	P14
231.2353	-3.33	13	-3	P15	231.6139	-1.59	16	-7	R27	232.1279	-2.04	22	-16	R17	233.2479	-3.29	14	-4	R 9	233.6196	-2.68	21	-14	R13	233.6196	-2.68	21	-14	R13	233.6196	-2.68	21	-14	R13
231.2368	-2.07	20	-13	Q20	231.6178	-2.36	22	-16	R 9	232.1321	-1.86	22	-16	Q21	233.2495	-3.38	14	-4	R 9	233.6317	-3.33	14	-4	P11	233.6317	-3.33	14	-4	P11	233.6317	-3.33	14	-4	P11
231.2375	-1.65	20	-13	Q24	-231.6182	-1.19	15	-6	Q52	232.1424	-2.29	22	-16	P14	233.2498	-3.26	14	-4	R10	-233.6325	-1.46	16	-7	P40	-233.6325	-1.46	16	-7	P40	-233.6325	-1.46	16	-7	P40
231.2448	-2.01	16	-7	O 5	231.6187	-3.59	13	-3	P18	-232.1553	-1.52	15	-6	P50	233.2525	-3.22	14	-4	R11	-233.6327	-4.89	19	-11	R25	-233.6327	-4.89	19	-11	R25	-233.6327	-4.89	19	-11	R25
231.2469	-1.80	16	-7	R16	231.6230	-2.45	22	-16	O 4	-232.1632	-2.31	18	-10	P33	233.2526	-3.43	14	-4	R 6	-233.6344	-1.08	16	-7	Q46	-233.6344	-1.08	16	-7	Q46	-233.6344	-1.08	16	-7	Q46
231.2489	-3.05	16	-7	P 2	231.6239	-3.40	22	-16	P 2	232.1705	-1.71	16	-7	P23	233.2581	-3.49	14	-4	R 5	-233.6363	-2.62	21	-14	Q 8	-233.6363	-2.62	21	-14	Q 8	-233.6363	-2.62	21	-14	Q 8
231.2538	-3.92	13	-3	P 9	231.6266	-1.46	16	-7	Q19	-232.1829	-1.28	16	-7	Q29	233.2593	-3.19	14	-4	R12	233.6379	-2.84	14	-4	R29	233.6379	-2.84	14	-4	R29	233.6379	-2.84	14	-4	R29
231.2577	-1.94	16	-7	O 6	231.6362	-3.10	13	-3	Q26	-232.1892	-1.46	16	-7	R37	233.2652	-3.56	14	-4	R 4	233.6380	-4.73	19	-11	Q19	233.6380	-4.73	19	-11	Q19	233.6380	-4.73	19	-11	Q19
231.2611	-3.34	13	-3	R28	231.6398	-2.33	22	-16	R10	232.1924	-3.39	13	-3	R22	233.2662	-3.16	14	-4	R13	233.6390	-3.25	21	-14	P 5	233.6390	-3.25	21	-14	P 5	233.6390	-3.25	21	-14	P 5
231.2629	-2.48	18	-10	P23	231.6406	-2.36	22	-16	O 5	232.1943	-2.02	22	-16	R28	233.2678	-5.62	19	-11	P 6	233.6430	-2.77	14	-4	Q18	233.6430	-2.77	14	-4	Q18	233.6430	-2.77	14	-4	Q18
231.2631	-3.30	13	-3	O16	231.6473	-3.10	22	-16	P 3	232.1966	-1.84	22	-16	P18	233.2730	-5.00	19	-11	Q10	233.6506	-2.65	21	-14	R14	233.6506	-2.65	21	-14	R14	233.6506	-2.65	21	-14	R14
231.2686	-1.77	16	-7	R17	231.6563	-1.94	16	-7	P14	232.2090	-2.26	22	-16	Q15	233.2735	-5.05	19	-11	R17	233.6553	-2.58	21	-14	Q 9	233.6553	-2.58	21	-14	Q 9	233.6553	-2.58	21	-14	Q 9
231.2711	-2.75	16	-7	P 3	231.6568	-1.96	20	-13	P25	-232.2335	-1.27	16	-7	Q30	233.2739	-3.64	14	-4	R 3	233.6695	-5.18	19	-11	P15	233.6695	-5.18	19	-11	P15	233.6695	-5.18	19	-11	P15
231.2728	-1.88	16	-7	O 7	-231.6586	-1.58	16	-7	R28	232.2373	-2.11	23	-18	P27	233.2761	-3.13	14	-4	R14	233.6702	-3.29	14	-4	P12	233.6702	-3.29	14	-4	P12	233.6702	-3.29	14	-4	P12
231.2831	-1.21	15	-6	O49	231.6621	-2.29	22	-16	O 6	232.2390	-1.69	16	-7	P24	233.2844	-3.73	14	-4	R 2	233.6718	-3.16	21	-14	P 6	233.6718	-3.16	21	-14	P 6	233.6718	-3.16	21	-14	P 6
231.2854	-2.29	23	-18	P18	231.6657	-2.20	23	-18	P22	-232.2401	-1.45	16	-7	R38	233.2869	-3.10	14	-4	R15	-233.6776	-2.63	14	-4	K30	-233.6776	-2.63	14	-4	K30	-233.6776	-2.63	14	-4	K30
231.2866	-2.11	23	-18	R24	231.6662	-2.29	22	-16	R11	232.2593	-3.37	13	-3	P29	233.2970	-3.86	14	-4	R 1	233.6778	-2.74	14	-4	Q19	233.6778	-2.74	14	-4	Q19	233.6778	-2.74	14	-4	Q19
231.2872	-2.06	18	-10	Q28	231.6677	-3.56	13	-3	P19	232.2642	-1.81	22	-16	Q19	233.2982	-4.96	19	-11	Q11	233.6849	-2.62	21	-14	R15	233.6849	-2.62	21	-14	R15	233.6849	-2.62	21	-14	R15
231.2876	-3.87	13	-3	O10	-231.6695	-1.56	15	-6	P46	232.2653	-2.01	22	-16	R23	233.2998	-3.08	14	-4	R16	233.6907	-4.88	19	-11	R26	233.6907	-4.88	19	-11	R26	233.6907	-4.88	19	-11	R26
231.2902	-1.82	16	-7	O 8	231.6706	-1.44	16	-7	Q20	232.2718	-2.30	18	-10	P34	233.3017	-5.55	19	-11	P 7	233.6934	-4.71	19	-11	Q20	233.6934	-4.71	19	-11	Q20	233.6934	-4.71	19	-11	Q20
231.2924	-3.28	13	-3	Q17	231.6753	-2.93	22	-16	P 4	232.2789	-2.23	22	-16	P16	233.3094	-5.02	19	-11	R18	233.6973	-2.53	21	-14	Q10	233.6973	-2.53	21	-14	Q10	233.6973	-2.53	21	-14	Q10
231.2927	-3.33	13	-3	R29	231.6831	-2.39	18	-10	P28	-232.2807	-1.51	15	-6	P51	233.3109	-4.03	14	-4	R 0	233.7078	-2.77	14	-4	P 7	233.7078	-2.77	14	-4	P 7	233.7078	-2.77	14	-4	P 7
231.2929	-1.75	16	-7	R18	231.6844	-3.08	13	-3	Q27	-232.3034	-1.25	16	-7	Q31	233.3144	-3.06	14	-4	R17	233.7094	-3.26	14	-4	P23	233.7094	-3.26	14	-4	P23	233.7094	-3.26	14	-4	P23
231.2951	-2.58	16	-7	P 4	-231.6849	-1.99	18	-10	Q33	232.3096	-1.67	16	-7	P25	-233.3175	-1.11	16	-7	Q43	233.7146	-2.72	14	-4	Q10	233.7146	-2.72	14	-4	Q10	233.7146	-2.72	14	-4	Q10
231.3085	-1.89	23	-18	Q21	231.6871	-2.23	22	-16	O 7	-232.3288	-1.44	16	-7	R39	233.3291	-3.86	14	-4	O 1	-233.7197	-2.82	14	-4	R31	-233.7197	-2.82	14	-4	R31	-233.7197	-2.82	14	-4	R31
231.3095	-1.77	16	-7	O 9	231.6921	-1.81	23	-18	Q25	232.3294	-3.36	13	-3	P30	233.3310	-3.03	14	-4	R18	233.7225	-2.60	21	-14	R16	233.7225	-2.60	21	-14	R16	233.7225	-2.60	21	-14	R16
231.3146	-2.04	20	-13	Q29	231.6961	-2.26	22	-16	R12	232.3362	-1.79	22	-16	Q17	-233.3330	-1.50	16	-7	P37	233.7293	-5.15	19	-11	P16	233.7293	-5.15	19	-11	P16	233.7293	-5.15	19	-11	P16
231.3151	-1.64	20	-13	Q25	231.7041	-1.91	16	-7	P15	232.3527	-2.20	22	-16	P17	233.3336	-3.64	14	-4	O 2	233.7321	-2.49	21	-14	Q11	233.7321	-2.49	21	-14	Q11	233.7321	-2.49	21	-14	Q11
231.3194	-1.73	16	-7	R19	231.7055	-2.80	22	-16	P 5	232.3655	-2.09	23	-18	P28	233.3347	-4.93	19	-11	Q12	-233.7361	-1.08	16	-7	Q47	-233.7361	-1.08	16	-7	Q47	-233.7361	-1.08	16	-7	Q47
231.3215	-2.45	16	-7	P 5	-231.7083	-1.56	16	-7	R29	-232.3761	-1.24	16	-7	Q32	233.3381	-5.48	19	-11	P 8	233.7467	-3.01	21	-14	P 6	233.7467	-3.01	21	-14	P 6	233.7467	-3.01	21	-14	P 6
231.3233	-3.25	13	-3	Q18	231.7156	-2.17	22	-16	O 8	-232.3778	-2.29	18	-10	P35	233.3392	-3.49	14	-4	O 3	233.7510	-4.69	19	-11	Q21	233.7510	-4.69	19	-11	Q21	233.7510	-4.69	19	-11	Q21
231.3234	-3.82	13	-3	P11	231.7167	-1.42	16	-7	Q21	232.3830	-1.66	16	-7	P26	233.3470	-3.38	14	-4	O 4	233.7528	-3.22	14	-4	P14	233.7528	-3.22	14	-4	P14	233.7528	-3.22	14	-4	P14
231.3288	-2.46	24	-20	P21	231.7190	-3.54	13	-3	P20	232.3973	-3.34	13	-3	P31	233.3475	-5.00	19	-11	R19	233.7528	-2.70	14	-4	Q21	233.7528	-2.70	14	-4	Q21	233.7528	-2.70	14	-4	Q21
-231.3294	-1.59	15	-6	P43	231.7296	-2.23	22	-16	R13	-232.4063	-1.43	16	-7	R40	233.3496	-3.01	14	-4	R19	-233.7569	-1.45	16	-7	P41										

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ				
233.9848	-5.05	19-11	P20		234.4548	-1.47	17-8	R30		235.1317	-3.04	23-17	R4		235.7407	-2.28	23-17	Q17		236.1770	-2.84	20-12	Q4
233.9907	-3.08	14-4	P19		234.4627	-4.93	19-11	P26		235.1342	-2.08	25-21	Q17		235.7429	-3.09	15-5	Q3		236.1776	-2.40	15-5	Q21
233.9909	-1.43	16-4	P43		234.4631	-1.39	16-4	P47		235.1377	-3.34	23-17	R1		235.7478	-2.64	15-5	R18		236.1804	-2.32	15-5	R31
233.9921	-2.78	21-14	P13		234.4649	-2.58	25-21	R9		235.1382	-2.98	23-17	R5		235.7507	-2.98	15-5	Q4		236.1812	-1.41	17-8	P38
233.9949	-2.28	17-8	P6		234.4686	-2.92	14-4	P27		235.1461	-3.52	23-17	R0		235.7548	-2.46	23-17	R21		236.1818	-2.64	20-12	R12
234.0064	-1.61	17-8	Q11		234.4702	-2.58	21-14	P20		235.1472	-2.92	23-17	R6		235.7604	-2.90	15-5	Q5		236.1864	-3.79	20-12	P2
234.0081	-2.74	14-4	R37		234.4728	-1.77	17-8	P17		235.1483	-2.59	14-4	R53		235.7673	-1.46	17-8	P34		236.1883	-2.77	26-23	R9
234.0111	-4.62	19-11	Q25		234.4802	-3.02	25-21	P5		235.1510	-2.79	14-4	P36		235.7682	-2.61	15-5	R19		236.1899	-2.67	14-4	P47
234.0112	-2.31	21-14	Q17		234.4861	-2.16	21-14	Q24		235.1511	-1.56	17-8	P27		235.7707	-3.94	15-5	P2		236.1916	-2.75	20-12	Q5
234.0157	-1.63	17-8	R20		234.4883	-2.66	14-4	R45		235.1613	-2.87	23-17	R7		235.7719	-2.82	15-5	Q6		236.2047	-2.61	20-12	R13
234.0165	-2.47	17-8	R22		234.4904	-2.45	25-21	Q7		235.1629	-3.34	23-17	Q1		235.7776	-2.32	25-21	Q2		236.2085	-2.68	20-12	Q6
234.0240	-2.59	14-4	Q27		234.4940	-2.48	14-4	Q35		235.1633	-1.15	17-8	Q33		235.7852	-2.76	15-5	Q7		236.2094	-3.49	20-12	P3
234.0266	-2.20	17-8	P7		234.4966	-1.30	17-8	Q23		235.1711	-2.39	14-4	Q44		235.7904	-2.59	15-5	R20		236.2108	-2.79	15-5	P15
234.0343	-1.58	17-8	Q12		234.5053	-2.55	25-21	R10		235.1713	-3.12	23-17	Q2		235.7926	-3.64	15-5	P3		236.2144	-2.15	23-17	Q23
234.0439	-3.06	14-4	P20		234.5100	-2.36	21-14	R29		235.1784	-2.82	23-17	R8		235.7967	-2.71	14-4	P43		236.2195	-2.41	15-5	R32
234.0499	-1.61	17-8	R21		234.5125	-1.46	17-8	R31		235.1809	-2.98	23-17	Q3		235.8005	-2.71	15-5	Q8		236.2203	-2.28	15-5	Q22
234.0505	-2.74	21-14	P14		234.5220	-2.93	25-21	P6		235.1965	-3.82	23-17	Q2		235.8105	-2.25	23-17	Q18		236.2226	-2.54	23-17	P20
234.0577	-5.02	19-11	P21		234.5308	-2.40	25-21	Q8		235.1969	-2.87	23-17	Q4		235.8114	-2.67	23-17	P15		236.2251	-2.58	26-23	Q8
234.0608	-2.13	17-8	P8		234.5315	-1.75	17-8	P18		235.1973	-2.78	23-17	R9		235.8147	-2.58	15-5	R21		236.2287	-2.61	20-12	Q7
234.0638	-2.73	14-4	R38		234.5350	-1.29	17-8	Q24		235.2158	-2.78	23-17	Q5		235.8167	-3.46	15-5	P4		236.2305	-2.59	20-12	R14
234.0645	-1.54	17-8	Q13		234.5369	-2.90	14-4	P28		235.2186	-2.42	21-14	P28		235.8181	-2.66	15-5	Q9		236.2356	-3.31	20-12	P4
234.0686	-2.29	21-14	Q18		234.5505	-2.51	25-21	R11		235.2218	-3.52	23-17	P3		235.8256	-2.32	14-4	Q51		236.2381	-3.03	26-23	P7
234.0754	-2.58	14-4	Q28		234.5518	-4.91	19-11	P27		235.2240	-2.74	23-17	R10		235.8263	-2.44	23-17	R22		236.2461	-2.73	26-23	R10
234.0780	-2.46	21-14	R23		234.5533	-2.55	21-14	P21		235.2256	-2.45	25-21	P16		235.8372	-2.61	15-5	Q10		236.2519	-2.56	20-12	Q8
234.0827	-4.60	19-11	Q26		234.5630	-2.47	14-4	Q36		235.2279	-2.06	25-21	Q18		235.8410	-2.56	15-5	R22		236.2568	-2.39	15-5	R33
234.0877	-1.60	17-8	R22		234.5676	-2.15	21-14	Q25		235.2380	-1.14	17-8	Q34		235.8431	-3.34	15-5	P5		236.2580	-2.76	15-5	P16
234.0955	-1.42	16-4	P44		234.5690	-2.85	25-21	P7		235.2382	-2.78	14-4	P37		235.8585	-2.58	15-5	Q11		236.2590	-2.56	20-12	R15
234.0970	-2.07	17-8	P9		234.5726	-1.44	17-8	R32		235.2386	-1.54	17-8	P28		235.8695	-2.54	15-5	R23		236.2647	-3.19	20-12	P5
234.0970	-1.51	17-8	Q14		234.5765	-2.35	25-21	Q9		235.2391	-2.71	23-17	Q6		235.8705	-1.44	17-8	P35		236.2650	-2.27	15-5	Q23
234.0990	-3.03	14-4	P21		234.5801	-2.65	14-4	R46		235.2483	-3.34	23-17	P4		235.8712	-2.54	15-5	P6		236.2775	-2.21	20-12	Q9
234.1083	-1.58	17-8	R23		234.5862	-1.38	16-4	P48		235.2530	-2.71	23-17	R11		235.8816	-2.54	15-5	Q12		236.2843	-2.53	26-23	Q9
234.1124	-2.71	21-14	P15		234.5995	-1.72	17-8	P19		235.2596	-2.38	14-4	Q45		235.8841	-2.64	23-17	P16		236.2909	-2.53	20-12	R16
234.1257	-2.72	14-4	R39		234.6009	-2.48	25-21	R12		235.2649	-2.64	23-17	Q7		235.8847	-2.23	23-17	Q19		236.2912	-1.40	17-8	P39
234.1295	-2.56	14-4	Q29		234.6058	-1.27	17-8	Q25		235.2811	-3.22	23-17	P5		235.8969	-2.20	14-4	P44		236.2969	-3.09	20-12	P7
234.1296	-2.26	21-14	Q19		234.6066	-2.89	14-4	Q29		235.2857	-2.67	23-17	R12		235.8998	-2.52	15-5	R24		236.3022	-2.97	26-23	P8
234.1326	-5.00	19-11	P22		234.6096	-2.46	14-4	P37		235.2959	-2.59	23-17	Q8		235.9011	-3.16	15-5	P7		236.3063	-2.47	20-12	Q10
234.1330	-1.48	17-8	Q15		234.6212	-2.78	25-21	P10		235.2995	-1.53	17-8	P29		235.9036	-2.42	23-17	R23		236.3076	-2.73	15-5	P17
234.1359	-2.02	17-8	P10		234.6283	-2.30	25-21	Q10		235.3168	-3.12	23-17	P6		235.9066	-2.51	15-5	Q13		236.3087	-2.13	23-17	Q24
234.1424	-2.44	21-14	R24		234.6379	-2.53	21-14	R22		235.3227	-1.64	23-17	R13		235.9236	-2.31	14-4	Q52		236.3111	-2.70	26-23	R11
234.1556	-3.01	14-4	P22		234.6399	-1.43	17-8	R33		235.3236	-2.12	17-8	Q35		235.9323	-2.51	15-5	R25		236.3120	-2.25	15-5	Q24
234.1563	-1.46	17-8	Q16		234.6447	-4.89	19-11	P28		235.3247	-2.41	21-14	P29		235.9329	-3.09	15-5	P8		236.3152	-2.52	23-17	P21
234.1581	-4.58	19-11	Q27		234.6463	-1.70	17-8	P20		235.3247	-2.42	25-21	P17		235.9336	-2.47	15-5	Q14		236.3156	-2.38	15-5	R34
234.1613	-1.56	17-8	R24		234.6525	-2.13	21-14	Q26		235.3264	-2.77	14-4	P38		235.9602	-2.21	23-17	Q20		236.3186	-2.66	14-4	P48
234.1767	-1.98	17-8	P11		234.6563	-2.64	14-4	R47		235.3272	-2.03	25-21	Q19		235.9623	-2.45	15-5	Q15		236.3248	-2.51	20-12	R17
234.1775	-2.68	21-14	P16		234.6566	-2.45	25-21	R13		235.3298	-2.54	23-17	Q9		235.9629	-2.62	23-17	P17		236.3314	-3.01	20-12	P7
234.1782	-2.71	14-4	R40		234.6691	-1.25	17-8	Q26		235.3480	-2.37	14-4	Q46		235.9668	-3.03	15-5	P9		236.3379	-2.43	20-12	Q11
234.1853	-2.55	14-4	Q30		234.6780	-1.72	25-21	P9		235.3570	-3.04	23-17	P7		235.9668	-2.49	15-5	R26		236.3522	-2.49	26-23	Q10
234.1937	-1.43	17-8	Q17		234.6791	-2.87	14-4	P30		235.3615	-2.62	23-17	R14		235.9675	-3.33	26-23	R1		236.3589	-2.71	15-5	P18
234.1956	-2.24	21-14	Q20		234.6851	-2.26	25-21	Q11		235.3656	-2.50	23-17	Q10		235.9690	-1.43	17-8	P36		236.3607	-2.23	15-5	Q25
234.2102	-1.54	17-8	R25		234.6982	-2.45	14-4	Q38		235.3948	-1.51	17-8	P30		235.9707	-3.51	26-23	R0		236.3630	-2.49	20-12	R18
234.2107	-2.42	21-14	R25		234.7025	-1.42	17-8	R34		235.3997	-2.98	23-17	P8		2								

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
236.5689	-6.28	12	1	R 4	236.8317	-1.63	18	9	R21	237.1428	-5.35	12	-1	Q25	-237.8028	-2.19	15	-5	R54	238.4475	-3.42	25	-20	Q 5
236.5708	-1.91	18	9	R10	236.8328	-5.57	12	1	Q15	237.1428	-5.05	22	-15	P 9	-237.8062	-2.37	15	-5	P38	-238.4770	-1.92	15	-5	Q52
236.5747	-5.76	12	1	R18	236.8331	-5.17	22	-15	R 4	-237.1443	-2.60	14	-9	P55	237.8084	-4.28	22	-15	Q23	238.4890	-2.10	16	-6	Q16
236.5762	-2.17	15	5	Q29	236.8356	-2.33	20	-12	R27	237.1552	-1.51	18	9	R28	237.8210	-5.62	12	-1	P29	238.4976	-3.42	25	-20	R 9
236.5789	-2.51	18	9	R 1	236.8359	-5.35	22	-15	R 6	237.1580	-2.24	26	-23	Q18	-237.8314	-1.19	18	-9	Q31	238.5024	-3.99	25	-20	P 4
236.5792	-6.36	12	1	R 3	236.8378	-5.05	22	-15	R 6	237.1720	-2.07	20	-12	Q26	237.8396	-2.34	18	-9	P12	238.5045	-2.17	16	-6	R26
236.5821	-1.87	18	9	R11	236.8388	-2.59	20	-12	P17	237.1735	-1.36	18	-9	Q21	237.8586	-4.67	22	-15	P20	238.5056	-3.35	25	-20	Q 6
236.5844	-2.61	15	5	P22	236.8397	-5.10	22	-15	R 7	237.1750	-4.52	22	-15	Q13	-237.8681	-1.97	15	-5	Q46	-238.5108	-1.48	18	-9	P33
236.5856	-5.74	12	1	R19	236.8408	-6.22	12	1	P 8	237.1778	-5.34	12	-1	Q26	237.8690	-5.60	12	-1	P30	238.5168	-2.66	16	-6	P10
236.5893	-2.25	20	-12	Q17	236.8417	-2.54	15	-5	P26	-237.1781	-2.25	15	-5	R47	237.8757	-1.59	18	-9	P26	-238.5179	-2.29	15	-5	P45
236.5905	-6.46	12	1	R 2	236.8418	-5.47	22	-15	R 1	-237.1791	-2.05	15	-5	Q38	237.8912	-4.26	22	-15	Q24	238.5329	-3.39	25	-20	R17
236.5948	-2.69	18	9	R 0	236.8455	-2.42	23	-17	P26	237.1836	-4.65	22	-15	R18	-237.9003	-2.18	15	-5	R55	238.5358	-2.07	16	-6	Q10
236.5962	-2.39	20	-12	R23	236.8492	-4.99	22	-15	R 7	237.1839	-5.86	12	-1	P17	-237.9023	-2.36	15	-5	P39	238.5376	-3.86	25	-20	P 5
236.5958	-1.84	18	9	R12	236.8515	-5.65	22	-15	R 0	237.1862	-2.61	26	-23	P17	-237.9120	-1.18	18	-9	Q32	238.5388	-3.29	25	-20	Q 7
236.5964	-2.38	26	-23	Q13	236.8573	-5.54	12	-1	Q16	237.1896	-1.81	18	-9	P16	237.9448	-4.65	22	-15	P21	-238.5440	-2.15	16	-6	R27
236.5983	-5.72	12	1	R20	236.8578	-2.09	18	-9	P 9	237.1914	-4.99	22	-15	P10	237.9451	-2.53	20	-12	P30	-238.5507	-2.14	15	-5	R61
236.6009	-2.71	20	-12	P13	236.8618	-2.53	26	-23	R17	237.2035	-2.47	20	-12	P22	237.9474	-5.59	12	-1	P31	238.5584	-2.61	16	-6	P11
236.6013	-2.32	15	5	R39	236.8632	-4.95	22	-15	R 8	237.2122	-2.46	15	-5	P31	237.9581	-1.57	18	-9	P27	238.5731	-3.35	25	-20	R11
236.6029	-6.59	12	1	R 1	236.8643	-1.53	18	-9	Q14	237.2131	-1.50	18	-9	R29	-237.9653	-1.96	15	-5	Q47	238.5762	-2.05	16	-6	Q18
236.6098	-2.51	18	9	Q 1	236.8688	-5.47	22	-15	Q 1	237.2205	-5.32	12	-1	Q27	237.9775	-4.24	22	-15	Q25	238.5767	-3.23	25	-20	Q 8
236.6120	-5.70	12	1	R21	236.8705	-1.61	18	-9	R22	237.2229	-4.49	22	-15	Q14	-237.9973	-1.16	18	-9	Q33	238.5789	-3.77	25	-20	P 6
236.6122	-1.81	18	9	R13	-236.8721	-2.28	15	-5	R43	237.2278	-1.34	18	-9	Q22	-238.0027	-2.35	15	-5	P40	-238.5866	-2.14	16	-6	R28
236.6149	-2.29	18	9	Q 2	236.8743	-6.16	12	1	P 9	237.2288	-5.83	12	-1	P18	-238.0031	-2.17	15	-5	R56	-238.5882	-1.91	15	-5	G53
236.6183	-6.76	12	1	R 0	236.8764	-5.25	22	-15	Q 2	237.2351	-4.63	22	-15	R19	238.0349	-4.63	22	-15	P22	238.6027	-2.57	16	-6	P12
236.6206	-2.46	23	-17	P24	236.8803	-2.14	20	-12	Q22	237.2370	-2.05	20	-12	Q27	238.0436	-1.56	18	-9	P28	-238.6129	-1.47	18	-9	P34
236.6225	-2.14	18	9	Q 3	236.8805	-4.91	22	-15	R 9	237.2433	-4.95	22	-15	P11	-238.0550	-1.95	15	-5	Q48	238.6163	-2.02	16	-6	Q19
236.6233	-2.77	26	-23	P12	236.8830	-5.52	12	1	Q17	237.2468	-1.78	18	-9	P17	-238.0986	-2.34	15	-5	P41	238.6280	-3.32	25	-20	R12
236.6281	-5.68	12	1	R22	236.8877	-5.10	22	-15	Q 3	-237.2581	-2.04	15	-5	Q39	-238.1098	-2.17	15	-5	R57	238.6194	-3.19	25	-20	Q 9
236.6310	-1.78	18	9	R14	-236.8924	-2.10	15	-5	Q34	237.2600	-2.24	15	-5	R48	238.1185	-2.47	16	-6	R12	238.6220	-2.50	16	-6	P14
236.6320	-2.03	18	9	Q 4	236.8978	-2.03	18	-9	P10	237.2637	-5.31	12	-1	Q28	238.1280	-4.61	22	-15	P23	238.6240	-3.69	25	-20	P 7
236.6375	-6.59	12	1	Q 1	-236.8986	-2.62	14	-4	P53	237.2727	-4.46	22	-15	Q15	238.1319	-1.54	18	-9	P29	-238.6264	-2.28	15	-5	P46
236.6383	-2.15	15	5	Q30	236.9006	-4.99	22	-15	Q 4	-237.2749	-1.48	18	-9	R30	238.1476	-2.71	16	-6	R 6	-238.6301	-2.12	16	-6	R29
236.6407	-2.22	20	-12	Q18	236.9010	-1.50	18	-9	Q15	237.2750	-5.81	12	-1	P19	238.1563	-2.44	16	-6	R13	238.6312	-2.53	16	-6	P13
236.6413	-6.36	12	1	Q 2	236.9031	-4.87	22	-15	R10	237.2847	-1.32	18	-9	Q23	-238.1571	-1.94	15	-5	Q49	238.6383	-2.00	16	-6	Q20
236.6433	-2.58	26	-23	R15	236.9033	-5.95	22	-15	P 2	237.2855	-2.45	20	-12	P23	238.1599	-2.66	16	-6	R 7	238.6667	-3.14	25	-20	P10
236.6444	-1.95	18	9	Q 5	236.9056	-2.31	20	-12	R28	237.2903	-4.61	22	-15	R20	238.1623	-2.61	16	-6	R 6	238.6678	-3.29	25	-20	R13
236.6457	-2.59	15	5	P23	236.9060	-2.56	20	-12	P18	-237.2909	-2.45	15	-5	P32	238.1666	-2.57	16	-6	R 9	238.6741	-3.62	25	-20	P 8
236.6459	-2.99	18	9	P 2	236.9063	-2.29	26	-23	Q16	237.2925	-5.29	12	-1	Q29	238.1712	-2.77	16	-6	R 5	-238.6760	-2.11	16	-6	R30
236.6459	-5.66	12	1	R23	236.9080	-6.11	12	1	P10	237.3006	-4.91	22	-15	P12	238.1735	-2.53	16	-6	R10	-238.6972	-2.47	16	-6	P15
236.6475	-2.37	20	-12	R24	236.9100	-5.49	12	1	Q18	237.3065	-1.76	18	-9	P18	238.1776	-2.84	16	-6	R 4	238.7021	-1.98	16	-6	Q21
236.6480	-6.22	12	1	Q 3	236.9112	-2.52	15	-5	P27	237.3217	-2.58	26	-23	P18	238.1829	-2.41	16	-6	R14	-238.7030	-1.90	15	-5	Q54
236.6520	-1.76	18	9	R15	236.9117	-1.59	18	-9	R23	237.3229	-5.78	12	-1	P20	238.1841	-2.92	16	-6	R 3	238.7175	-5.12	13	-2	R11
236.6559	-6.11	12	1	Q 4	236.9178	-4.91	22	-15	Q 5	237.3276	-4.43	22	-15	Q16	238.1846	-2.50	16	-6	R11	238.7182	-5.16	13	-2	R10
236.6561	-2.68	20	-12	P14	236.9197	-4.84	22	-15	R11	237.3278	-2.03	20	-12	Q28	238.1944	-3.01	16	-6	R 2	238.7189	-5.09	13	-2	R12
-236.6583	-2.84	14	-4	P51	236.9282	-5.65	22	-15	P 3	-237.3367	-1.47	18	-9	R31	-238.2002	-2.32	15	-5	P42	238.7189	-3.10	25	-20	Q11
236.6587	-1.87	18	9	Q 6	236.9387	-5.47	12	1	Q19	-237.3384	-2.03	15	-5	Q40	238.2019	-2.38	16	-6	R15	238.7202	-5.20	13	-2	R 9
236.6648	-6.02	12	1	Q 5	236.9389	-2.67	26	-23	P15	237.3439	-1.30	18	-9	Q24	238.2070	-3.14	16	-6	R 1	238.7217	-5.06	13	-2	R13
-236.6658	-2.31	15	5	R40	236.9396	-4.84	22	-15	Q 6	-237.3455	-2.23	15	-5	R49	-238.2117	-2.16	15	-5	R58	238.7225	-3.26	25	-20	R14
236.6666	-5.65	12	1	R24	236.9400	-1.99	18	-9	P11	237.3485	-4.59	22	-15	R21	238.2203	-1.53	18	-9	P30	238.7237	-5.24	13	-2	R 8
236.6690	-2.69	18	9	P 3	236.9401	-1.47	18	-9	Q16	237.3516	-5.28	12	-1	Q30	238.2209	-2.36	16	-6	R16	-238.7244	-2.10	16	-6	R31
236.6756	-1.73	18	9	R16	236.9435	-2.27	15	-5	R44	237.3518	-4.87	22	-15	P13	238.2213	-3.31	16	-6	R 0	238.7262	-5.03	13	-2	P14
236.6756	-5.95	12	1	Q 6	236.9437	-6.06	12	1	P11	237.3689	-1.73	18	-9	P19	238.2248	-4.59	22	-15	P24	238.7289	-3.56	25	-20	P 9
236.6759	-7.06	12	1	P 2	236.9477	-2.12	20	-12	Q23	237.3706	-2.43	20	-12	Q24	238.2400	-3.14	16	-6	Q 1	238.7291	-5.28	13	-2	R 7
236.6760	-1.81	18	9	Q 7	236.9488	-4.80	22	-15	R12	237.3722	-5.76	12	-1	P21	238.2407	-2.34	16	-6	R17	238.7320	-5.01	13	-2	R15
236.6872	-5.89	12	1	Q 7	236.9556	-1.57	18	-9	R24	237.3814	-2.43	15	-5	P33	238.2443	-2.92	16	-6	Q 2	238.7361	-5.33	13	-2	R 6
236.6922	-2.35	26	-23	Q14	236.9568	-5.47	22	-15	P 4	-237.3849	-4.41	22	-15	P1										

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
238.9165	-3.19	25-20	R17		239.3002	-1.86	15-5	Q59		239.5958	-1.84	19-10	Q9		240.0803	-1.90	16-6	R50	
238.9178	-5.80	24-18	R10		239.3026	-4.55	13-2	Q24		239.5970	-2.52	19-10	P5		240.0823	-1.64	19-10	R28	
238.9221	-3.42	25-20	P12		239.3068	-2.88	21-13	Q1		239.5998	-2.28	24-18	R21		240.0884	-1.94	19-10	P16	
238.9252	-6.34	24-18	R0		239.3079	-5.21	24-18	Q13		239.6068	-4.44	13-2	Q31		240.0937	-2.13	21-13	P18	
238.9274	-4.78	13-2	R27		239.3097	-2.28	21-13	R10		-239.6083	-2.17	16-6	P29		240.0962	-4.78	13-2	P30	
238.9296	-5.74	24-18	R6		239.3125	-2.66	21-13	Q0		-239.6112	-1.75	16-6	Q36		240.1149	-1.68	16-6	Q42	
238.9308	-4.88	13-2	Q11		239.3127	-2.87	25-20	Q19		239.6185	-4.92	13-2	P22		240.1167	-2.08	16-6	P35	
238.9312	-2.36	16-6	P19		239.3128	-2.23	16-6	P25		239.6201	-2.40	21-13	P10		240.1328	-1.47	19-10	Q22	
-238.9331	-1.88	15-5	Q56		-239.3209	-1.80	16-6	Q32		239.6219	-1.80	19-10	Q10		240.1330	-2.18	15-5	P58	
238.9385	-5.64	13-2	P5		239.3222	-5.01	21-13	Q3		239.6237	-5.50	24-18	P15		240.1344	-1.92	19-10	P17	
-238.9401	-2.05	16-6	R35		239.3259	-2.56	13-2	P16		239.6243	-1.90	21-13	Q14		240.1409	-1.63	19-10	R29	
238.9424	-6.16	24-18	R0		239.3283	-5.36	24-18	R17		239.6251	-1.82	19-10	R18		240.1506	-1.69	21-13	Q23	
238.9455	-5.69	24-18	R7		239.3283	-2.24	21-13	R11		239.6280	-2.42	19-10	P6		240.1616	-5.34	24-18	P21	
238.9494	-4.84	13-2	Q12		-239.3337	-1.98	16-6	R41		239.6378	-2.02	21-13	R20		240.1662	-4.76	13-2	P31	
238.9506	-5.94	24-18	Q2		239.3345	-2.40	21-13	Q4		239.6379	-5.07	24-18	R18		240.1670	-2.10	21-13	P19	
-238.9517	-1.89	16-6	Q26		-239.3361	-2.23	15-5	P52		-239.6440	-1.94	16-6	R45		240.1740	-4.95	24-18	Q24	
238.9554	-4.76	13-2	R28		239.3415	-3.26	25-20	P17		239.6504	-1.76	19-10	Q11		240.1783	-1.89	16-6	R51	
238.9637	-5.80	24-18	Q3		239.3425	-3.36	21-13	P2		239.6526	-3.19	25-20	P20		240.1899	-1.45	19-10	Q23	
238.9642	-5.64	24-18	R8		239.3435	-4.53	13-2	Q25		239.6595	-4.42	13-2	Q32		240.2017	-1.89	19-10	P18	
238.9668	-5.54	13-2	P6		239.3491	-5.64	24-18	P11		239.6617	-2.34	19-10	P7		240.2074	-1.67	16-6	Q43	
238.9701	-4.81	13-2	Q13		239.3498	-2.32	21-13	Q5		239.6639	-1.80	19-10	R19		240.2093	-1.61	19-10	R30	
238.9710	-5.69	24-18	Q4		239.3504	-2.21	21-13	R12		239.6684	-2.36	21-13	P11		240.2095	-2.07	16-6	P36	
-238.9725	-2.26	15-5	P49		239.3654	-5.18	24-18	Q14		239.6707	-1.87	21-13	Q15		240.2257	-1.67	21-13	Q24	
238.9764	-2.97	25-20	Q15		239.3660	-3.06	21-13	P3		239.6735	-4.90	13-2	P23		240.2269	-4.75	13-2	P32	
238.9768	-6.64	24-18	P2		239.3680	-2.24	21-13	Q6		239.6763	-5.26	24-18	R22		240.2432	-2.08	21-13	P20	
238.9868	-4.75	13-2	R29		239.3703	-5.03	13-2	P17		239.6816	-1.72	19-10	Q12		240.2552	-1.43	19-10	Q24	
238.9881	-5.60	24-18	R9		239.3747	-2.18	21-13	R13		239.6856	-2.00	21-13	R21		240.2666	-5.32	24-18	P22	
238.9900	-2.34	16-6	P20		-239.3839	-2.22	16-6	P26		-239.6884	-2.15	16-6	P30		240.2683	-1.86	19-10	P19	
238.9907	-3.16	25-20	R18		239.3867	-4.51	13-2	Q26		239.6892	-1.74	16-6	Q37		240.2700	-1.88	16-6	R52	
238.9922	-4.78	13-2	Q14		239.3882	-5.34	24-18	R18		-239.6948	-1.84	15-5	Q62		240.2735	-1.60	19-10	R31	
238.9953	-5.46	13-2	P7		239.3896	-2.18	21-13	Q7		239.6978	-2.27	19-10	P8		240.2770	-2.17	15-5	P59	
238.9954	-5.60	24-18	Q5		-239.3897	-1.79	16-6	Q33		239.6998	-1.78	19-10	R20		240.2805	-4.93	24-18	Q25	
238.9963	-3.39	25-20	P13		239.3935	-2.88	21-13	P4		239.7027	-5.47	24-18	P16		240.2989	-4.73	13-2	P33	
-238.9997	-2.03	16-6	R36		239.4034	-2.15	21-13	R14		239.7151	-5.05	24-18	Q19		240.3032	-1.66	16-6	Q44	
239.0002	-6.34	24-18	P3		-239.4077	-1.97	16-6	R42		239.7153	-1.69	19-10	Q13		240.3040	-2.06	16-6	P37	
-239.0086	-1.87	16-6	Q27		239.4097	-2.85	25-20	Q20		239.7198	-1.84	21-13	Q16		240.3046	-1.65	21-13	Q25	
239.0089	-4.73	13-2	R30		239.4113	-5.60	24-18	P12		239.7199	-2.32	21-13	P12		240.3212	-1.41	19-10	Q25	
239.0160	-5.56	24-18	R10		239.4139	-2.13	21-13	Q8		-239.7239	-1.93	16-6	R46		240.3230	-2.06	21-13	P21	
239.0160	-4.75	13-2	Q15		239.4167	-5.01	13-2	P18		239.7250	-1.76	19-10	R21		240.3377	-1.84	19-10	P20	
239.0208	-5.53	24-18	Q6		239.4236	-2.76	21-13	P5		-239.7250	-2.20	15-5	P55		240.3423	-3.08	23-16	R3	
239.0263	-5.39	13-2	P8		239.4240	-2.22	19-10	R6		239.7304	-4.88	13-2	P24		240.3426	-3.00	23-16	R4	
239.0324	-6.16	24-18	P4		239.4244	-2.27	19-10	R5		239.7369	-2.22	19-10	P9		240.3458	-3.17	23-16	R2	
239.0411	-4.72	13-2	Q16		239.4266	-2.17	19-10	R7		239.7402	-1.98	21-13	R22		240.3471	-2.93	23-16	R5	
239.0423	-4.72	13-2	R31		239.4271	-5.15	24-18	Q15		239.7520	-1.66	19-10	Q14		240.3471	-1.59	19-10	R32	
239.0474	-5.53	24-18	R11		239.4273	-2.34	19-10	R4		239.7603	-5.24	24-18	R23		240.3517	-3.30	23-16	R1	
239.0498	-5.47	24-18	Q7		-239.4294	-1.85	15-5	Q60		239.7667	-3.16	25-20	P21		240.3550	-2.87	23-16	R6	
239.0507	-2.31	16-6	P21		239.4316	-2.12	19-10	R8		-239.7693	-2.14	16-6	P31		240.3623	-3.48	23-16	R0	
239.0531	-2.95	25-20	Q17		239.4327	-2.42	19-10	R3		-239.7699	-1.73	16-6	Q38		240.3665	-2.82	23-16	R7	
-239.0545	-1.88	15-5	O56		239.4340	-4.50	13-2	Q27		239.7712	-1.74	19-10	R22		240.3759	-5.30	24-18	P23	
239.0569	-6.04	24-18	P5		239.4346	-2.13	21-13	R15		239.7720	-1.81	21-13	Q17		240.3760	-1.87	16-6	R53	
239.0580	-5.33	13-2	P9		239.4395	-2.08	19-10	R9		239.7742	-2.28	21-13	P13		240.3799	-3.30	23-16	Q1	
-239.0621	-2.02	16-6	R37		239.4398	-3.23	25-20	P18		239.7784	-2.17	19-10	P10		240.3809	-1.63	21-13	Q26	
-239.0665	-1.86	16-6	Q28		239.4410	-2.52	19-10	R2		239.7861	-5.44	24-18	P17		240.3817	-2.78	23-16	R8	
239.0681	-4.69	13-2	Q17		239.4417	-2.08	21-13	Q9		239.7909	-4.86	13-2	P25		240.3869	-3.08	23-16	Q2	
239.0706	-3.14	25-20	R19		239.4497	-2.04	19-10	R10		239.7912	-1.63	19-10	Q15		240.3888	-4.92	24-18	Q26	
239.0751	-3.35	25-20	P14		239.4511	-2.64	19-10	R1		239.7975	-1.96	21-13	R23		240.3901	-1.40	19-10	Q26	
239.0829	-5.41	24-18	Q8		239.4550	-5.32	24-18	R19		239.7993	-5.03	24-18	Q20		-240.3957	-1.66	16-6	Q45	
239.0845	-5.50	24-18	R12		-239.4562	-2.20	16-6	P27		239.8092	-1.92	16-6	R47		240.3986	-2.93	23-16	Q3	
239.0913	-5.28	13-2	P10		239.4568	-2.66	21-13	P6		239.8165	-1.72	19-10	R23		240.3999	-2.73	23-16	R9	
-239.0917	-2.25	15-5	P50		-239.4614	-1.78	16-6	Q34		239.8229	-1.12	19-10	P11		240.4011	-2.05	16-6	P38	
239.0966	-4.67	13-2	Q18		239.4627	-2.01	19-10	R11		239.8274	-1.79	21-13	Q18		240.4059	-2.04	21-13	P22	
239.0985	-5.94	24-18	P6		-239.4641	-2.22	15-5	P53		239.8320	-2.24	21-13	P14		240.4126	-2.04	23-16	Q4	
239.1133	-2.29	16-6	P22		239.4645	-2.82	19-10	R0		239.8340	-1.60	19-10	Q16		240.4131	-1.82	19-10	P21	
239.1187	-5.36	24-18	Q9		239.4646	-4.98	13-2	P19		239.8494	-5.23	24-18	R24		240.4150	-3.78	23-16	P2	
239.1248	-5.47	24-18	R13		239.4689	-2.10	21-13	R16		-239.8525	-1.72	16-6	Q39		240.4163	-1.17	15-5	P60	
-239.1251	-2.01	16-6	R38		239.4721	-2.04	21-13	Q10		-239.8526	-2.12	16-6	P32		240.4177	-1.58	19-10	R33	
239.1265	-5.24	13-2	P11		239.4773	-5.56	24-18	P13		239.8580	-2.20	15-5	P56		240.4216	-2.70	23-16	R10	
239.1268	-4.65	13-2	Q19		239.4787	-1.97	19-10	R12		239.8583	-1.94	21-13	R24		240.4305	-2.73	23-16	Q5	
-239.1279	-1.84	16-6	Q29		239.4828	-2.64	19-10	Q1		239.8637	-4.84	13-2	P26		240.4396	-3.48	23-16	P3	
239.1343</																			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
241.0670	-2.19	23-16	Q19	-241.6177	-1.79	17-7	R35	242.5922	-2.98	22-14	R 0	243.0976	-2.26	20-11	P16	243.5332	-2.00	18-8	R13										
241.0763	-1.94	17-7	R24	-241.6240	-1.93	16-6	P49	242.5932	-2.16	20-11	Q 0	243.1015	-1.80	20-11	Q21	243.5377	-3.69	15-4	Q10										
241.0797	-4.21	14-3	R21	-241.6247	-1.56	16-6	Q56	242.6011	-2.16	20-11	R17	243.1030	-2.99	26-21	Q 8	243.5382	-1.75	17-7	P42										
241.0856	-5.09	14-3	Q 1	241.6295	-2.08	17-7	P20	242.6041	-2.24	22-14	R 9	243.1037	-1.73	22-14	Q17	243.5412	-2.87	18-8	R 0										
241.0871	-1.67	19-10	P29	241.6302	-3.86	14-3	Q25	242.6103	-2.80	22-14	Q 1	243.1049	-1.79	17-7	P38	243.5491	-1.97	18-8	R14										
241.0878	-2.46	17-7	P 9	241.6436	-4.37	14-3	P17	242.6178	-2.50	22-14	Q 2	243.1180	-3.11	26-21	R11	243.5504	-2.73	26-21	Q15										
241.0894	-4.87	14-3	Q 2	241.6634	-1.62	17-7	Q27	242.6207	-2.11	20-11	Q10	243.1369	-1.40	17-7	Q45	243.5523	-3.14	26-21	P13										
241.0937	-2.60	23-16	P16	241.6739	-3.85	14-3	Q26	242.6212	-2.20	22-14	R10	243.1457	-3.45	26-21	P 7	243.5546	-4.41	15-4	P 5										
241.0940	-4.72	14-3	Q 3	241.6816	-1.59	19-10	P35	242.6221	-2.74	20-11	P 6	243.1502	-2.94	26-21	Q 9	243.5570	-3.58	15-4	R25										
241.0992	-4.19	14-3	R22	241.6872	-1.78	17-7	R36	242.6243	-1.85	17-7	P33	243.1504	-1.88	22-14	R23	243.5575	-3.65	15-4	Q11										
241.0993	-1.87	17-7	Q15	241.6916	-4.34	14-3	P18	242.6276	-2.43	22-14	Q 3	243.1561	-2.16	22-14	P14	243.5603	-2.69	18-8	Q 1										
241.1012	-4.62	14-3	Q 4	241.6921	-2.06	17-7	P21	242.6362	-2.14	20-11	R18	243.1619	-1.71	22-14	Q18	243.5647	-2.47	18-8	Q 2										
241.1093	-4.53	14-3	Q 5	241.7057	-2.43	23-16	P23	242.6398	-2.32	22-14	Q 4	243.1627	-1.78	20-11	Q22	243.5677	-1.94	18-8	R15										
241.1192	-4.46	14-3	Q 6	241.7208	-3.83	14-3	Q27	242.6427	-2.16	22-14	R11	243.1668	-2.23	20-11	P17	243.5715	-2.33	18-8	Q 3										
241.1205	-4.17	14-3	R23	241.7273	-1.60	17-7	Q28	242.6457	-2.07	20-11	Q11	243.1696	-3.08	26-21	R12	243.5777	-3.61	15-4	Q12										
241.1210	-1.93	17-7	R25	241.7411	-4.31	14-3	P19	242.6466	-3.28	22-14	P 2	243.2001	-3.38	26-21	P18	243.5809	-2.22	18-8	Q 4										
241.1246	-5.57	14-3	P 10	241.7514	-1.92	16-6	P50	242.6469	-1.45	17-7	Q40	243.2038	-2.90	26-21	Q10	243.5836	-1.79	22-14	R29										
241.1258	-2.41	17-7	P10	241.7568	-2.04	17-7	P22	242.6559	-2.24	22-14	Q 5	243.2127	-1.78	17-7	P39	243.5837	-4.31	15-4	P 6										
241.1310	-4.39	14-3	Q 7	241.7570	-1.77	17-7	R37	242.6573	-2.66	20-11	P 7	243.2140	-2.21	20-11	P18	243.5858	-1.59	22-14	Q24										
241.1342	-1.84	17-7	Q16	241.7769	-3.81	14-3	Q28	242.6665	-2.13	22-14	R12	243.2150	-1.86	22-14	R24	243.5861	-3.56	15-4	R26										
241.1405	-2.16	23-16	Q20	241.7929	-4.29	14-3	P20	242.6722	-2.98	22-14	P 3	243.2197	-2.13	22-14	P15	243.5872	-2.00	22-14	P20										
241.1435	-4.15	14-3	R24	241.8045	-1.76	17-7	R38	242.6755	-2.11	20-11	R19	243.2238	-1.69	22-14	Q19	243.5894	-1.92	18-8	R16										
241.1443	-4.34	14-3	Q 8	241.8050	-1.59	17-7	Q29	242.6755	-2.16	22-14	Q 6	243.2267	-3.05	26-21	R13	243.5897	-2.09	20-11	P23										
241.1477	-1.97	16-6	P45	241.8083	-2.41	23-16	P24	242.6827	-2.04	20-11	Q12	243.2270	-1.76	20-11	Q23	243.5923	-2.13	18-8	R 5										
241.1479	-5.27	14-3	P 3	241.8142	-3.80	14-3	Q29	242.6938	-2.10	22-14	R13	243.2459	-1.39	17-7	Q46	243.5962	-2.92	26-21	R18										
241.1482	-1.59	16-6	Q52	241.8240	-2.02	17-7	P23	242.6951	-2.59	20-11	P 8	243.2593	-3.32	26-21	P 9	243.5984	-3.17	18-8	R 2										
241.1546	-1.91	17-7	R26	241.8459	-4.27	14-3	P21	242.6967	-1.87	16-6	P57	243.2626	-2.86	26-21	Q11	243.6023	-3.58	15-4	Q13										
241.1595	-4.29	14-3	Q 9	241.8538	-1.57	17-7	Q30	242.6973	-2.10	22-14	Q 7	243.2829	-1.85	22-14	R25	243.6062	-2.06	18-8	Q 6										
241.1619	-1.66	19-10	P30	241.8667	-3.78	14-3	Q30	242.7001	-2.80	22-14	P 4	243.2865	-2.18	20-11	P19	243.6143	-4.23	15-4	P 7										
241.1665	-2.36	17-7	P11	241.8770	-1.92	16-6	P51	242.7120	-1.84	17-7	P34	243.2867	-2.10	22-14	P16	243.6165	-3.55	15-4	R27										
241.1677	-4.14	14-3	R25	241.8927	-1.75	17-7	R39	242.7129	-2.09	20-11	R20	243.2897	-3.02	26-21	R14	243.6209	-1.89	18-8	R17										
241.1698	-2.57	23-16	P17	241.8935	-2.00	17-7	P24	242.7200	-2.01	20-11	Q13	243.2909	-1.67	22-14	Q20	243.6219	-2.87	18-8	P 3										
241.1710	-1.82	17-7	Q17	241.9009	-4.25	14-3	Q22	242.7232	-2.05	22-14	Q 8	243.2934	-1.75	20-11	Q24	243.6224	-2.00	18-8	Q 7										
241.1720	-5.09	14-3	P 4	241.9157	-2.40	23-16	P25	242.7245	-2.07	22-14	R14	243.2980	-1.77	17-7	P40	243.6267	-3.55	15-4	Q14										
241.1767	-4.25	14-3	Q10	241.9232	-1.56	17-7	Q31	242.7304	-2.68	22-14	P 5	243.3239	-2.67	26-21	P10	243.6294	-1.87	18-8	R18										
241.1943	-4.21	14-3	Q11	241.9575	-4.23	14-3	P23	242.7355	-2.53	20-11	P 9	243.3263	-2.83	26-21	Q12	243.6357	-2.70	26-21	P16										
241.1953	-4.12	14-3	R26	241.9649	-1.98	17-7	P25	242.7432	-1.44	17-7	Q41	243.3410	-3.97	15-4	R 9	243.6388	-3.11	26-21	P14										
241.1988	-4.97	14-3	P 5	241.9685	-1.74	17-7	R40	242.7526	-2.00	22-14	Q 9	243.3411	-3.93	15-4	R10	243.6407	-1.94	18-8	Q 8										
241.1996	-1.90	17-7	R27	241.9955	-1.55	17-7	Q32	242.7556	-2.07	20-11	R21	243.3417	-3.90	15-4	R11	243.6464	-4.17	15-4	P 8										
241.2091	-2.32	17-7	P12	242.0082	-1.91	16-6	P52	242.7583	-1.97	20-11	Q14	243.3422	-4.01	15-4	R 8	243.6478	-2.69	18-8	P 4										
241.2099	-1.79	17-7	Q18	242.0160	-4.21	14-3	Q24	242.7584	-2.05	22-14	R15	243.3463	-4.06	15-4	R 7	243.6497	-3.53	15-4	R28										
241.2142	-4.17	14-3	Q12	242.0392	-1.96	17-7	P26	242.7646	-2.58	22-14	P 6	243.3465	-1.38	17-7	Q47	243.6542	-3.52	15-4	Q15										
241.2176	-2.14	23-16	Q21	242.0526	-1.73	17-7	R41	242.7784	-2.48	20-11	P10	243.3466	-3.87	15-4	R12	243.6598	-1.85	18-8	R19										
241.2232	-4.11	14-3	R27	242.0730	-1.53	17-7	Q33	242.7852	-1.96	22-14	Q10	243.3511	-4.11	15-4	R 6	243.6605	-1.74	17-7	P43										
241.2264	-4.87	14-3	P 6	242.0763	-4.19	14-3	P25	242.7956	-2.02	22-14	R16	243.3514	-3.84	15-4	R13	243.6617	-1.89	18-8	Q 9										
241.2361	-4.14	14-3	Q13	242.1190	-1.72	17-7	R42	242.8010	-1.95	20-11	Q15	243.3540	-1.83	22-14	R26	243.6686	-1.57	22-14	Q25										
241.2423	-1.88	17-7	R28	242.1218	-1.94	17-7	P27	242.8013	-2.06	20-11	R22	243.3570	-2.07	22-14	P17	243.6726	-2.07	20-11	P24										
241.2496	-2.55	23-16	P18	242.1383	-4.17	14-3	P26	242.8021	-2.50	22-14	P 7	243.3577	-2.99	26-21	R15	243.6727	-1.98	22-14	P21										
241.2515	-1.77	17-7	Q19	242.1429	-1.52	17-7	Q34	242.8087	-1.83	17-7	P35	243.3584	-4.17	15-4	R 5	243.6764	-2.57	18-8	P 5										
241.2538	-2.78	17-7	P13	242.1440	-1.90	16-6	P53	242.8204	-1.92	22-14	Q11	243.3588	-2.16	20-11	P20	243.6809	-4.11	15-4	P 9										
241.2543	-4.09	14-3	R28	242.1931	-1.93	17-7	P28	242.8244	-2.44	20-11	P11	243.3593	-3.81	15-4	R14	243.6825	-3.49	15-4	Q16										
241.2558	-4.79	14-3	P 7	242.2005	-4.15	14-3	P27	242.8357	-2.00	22-14	R17	243.3593	-1.64	22-14	Q21	243.6846	-3.52	15-4	R29										
241.2573	-1.64	19-10	P31	242.2031	-1.71	17-7	R43	242.8423	-2.43	22-14	P 8	243.3634	-1.73	20-11	Q25	243.6846	-1.85	18-8	Q10										
241.2585	-1.58	16-6	Q53	242.2231	-1.51	17-7	Q35	242.8491	-2.04	20-11	R23	243.3671	-4.23	15-4	R 4	243.6874	-2.90	26-21	R19										
241.2597	-4.11	14-3	Q14	242.2680	-4.14	14-3	P28	242.8505	-1.43	17-7	Q42	243.3680	-3.78	15-4	R15	243.6902	-1.83	18-8	R20										
241.2642	-1.96	16-6	P46	242.2733	-1.89	16-6	P54	242.8516	-1.92	20-11	Q16	243.3774	-4.31	15-4	R 3	243.7068	-2.47	18-8	P 6										
241.2829	-4.08	14-3	R29	242.2760	-1.91	17-7	P29	242.8600	-1.88	22-14	Q12	243.3787	-3.76	15-4	R16	243.7100	-1.81	18-8	Q11										
241.2845	-4.08	14-3	Q15	242.2881	-1.70	17-7	R44	242.8680	-2.40	20-11	P12	243.3895	-4.41	15-4	R 2	243.7129	-3.47	15-4	Q17										
241.2871	-4.72	14-3	P 8	242.3015	-1.50	17-7	Q36	242.8794	-1.98	22-14	R18	243.3911	-3.73	15-4	R17	243.7162	-4.06	15-4	P10										
241.2903	-1.87	17-7	R29	242.3350	-4.12	14-3	Q29	242.8802	-1.98	20-11	Q17	243.3949	-3.22	26-21	P11	243.7216	-3.51	15-4	R30										
241.2952	-1.75	17-7	Q20	242.3566	-1.90	17-7	P30	242.8864	-2.38	22-14	P 9	243.3954	-2.79	26-21	Q13	243.7229	-1.81</												

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
243.9392	-2.13	18	-8	P12	-244.4386	-1.43	18	-8	Q27	245.0716	-2.79	27	-23	Q12	245.8301	-3.76	16	-5	R 4	246.2236	-2.97	16	-5	Q18																														
243.9426	-1.92	22	-14	P24	-244.4491	-3.35	15	-4	R44	-245.0765	-3.08	15	-4	Q42	245.8396	-3.31	16	-5	R15	-246.2305	-3.36	16	-5	P46																														
-243.9462	-1.71	18	-8	R27	-244.4628	-1.87	18	-8	P21	245.0867	-2.18	24	-17	P19	245.8405	-3.84	16	-5	R 3	-246.2329	-3.03	16	-5	R30																														
243.9515	-1.60	18	Q18	-244.4682	-3.19	15	-4	Q33	245.1007	-3.18	27	-23	P11	245.8519	-3.28	16	-5	R16	246.2331	-2.79	23	-15	P 6																															
243.9696	-3.84	15	-4	P16	-244.4627	-1.83	22	-14	P29	245.1074	-1.31	18	-8	Q36	245.8526	-3.94	16	-5	R 2	246.2424	-2.26	23	-15	R15																														
243.9760	-3.32	15	-4	Q24	-244.4690	-3.63	15	-4	P25	245.1119	-2.98	27	-23	R14	245.8571	-2.79	21	-12	Q13	246.2425	-3.04	21	-12	P16																														
-243.9811	-3.43	15	-4	R36	-244.4793	-1.42	18	-8	Q28	-245.1185	-3.27	15	-4	R53	245.8663	-3.26	16	-5	R17	246.2537	-2.17	23	-15	Q10																														
243.9861	-2.09	18	-8	P13	-244.4798	-2.13	24	-17	R18	-245.1214	-3.49	15	-4	P34	245.8668	-3.32	21	-12	P 9	246.2566	-2.76	21	-12	R27																														
243.9960	-1.58	18	Q19	-244.4843	-3.34	15	-4	R45	-245.1325	-1.71	18	-8	P30	245.8670	-4.06	16	-5	R 1	246.2598	-2.95	16	-5	Q19																															
-244.0048	-1.69	18	-8	R28	-244.4857	-1.97	24	-17	Q14	-245.1580	-1.76	24	-17	Q23	245.8724	-2.88	21	-12	R20	246.2641	-3.50	16	-5	P12																														
-244.0101	-1.71	17	-7	P46	-244.4872	-2.43	24	-17	P11	-245.1584	-3.07	15	-4	Q43	245.8768	-3.00	15	-4	Q51	246.2667	-2.59	21	-12	Q21																														
244.0176	-3.81	15	-4	P17	-244.4921	-1.59	18	-8	R36	245.1639	-2.75	27	-23	Q13	245.8827	-3.24	16	-5	R18	246.2760	-2.71	23	-15	P 7																														
244.0209	-2.30	15	-4	Q25	-244.5075	-3.71	27	-23	R 1	245.1807	-2.15	24	-17	P20	245.8836	-4.24	16	-5	R 0	246.2822	-2.23	23	-15	R16																														
244.0304	-1.51	22	-14	Q29	-244.5108	-3.17	15	-4	Q34	245.1956	-3.14	27	-23	P12	245.8979	-2.76	21	-12	Q14	-246.2845	-3.02	16	-5	R31																														
-244.0314	-3.42	15	-4	R37	-244.5111	-3.88	27	-23	R 0	-245.1981	-1.30	18	-8	Q37	245.9009	-3.22	16	-5	R19	246.2933	-2.13	23	-15	Q11																														
244.0318	-2.01	20	-11	P28	-244.5115	-1.85	18	-8	P22	245.2082	-2.95	27	-23	R15	245.9034	-4.06	16	-5	Q 1	246.2979	-2.93	16	-5	Q20																														
244.0354	-2.06	18	-8	P14	-244.5140	-3.58	27	-23	R 2	-245.2310	-3.48	15	-4	P35	245.9068	-3.84	16	-5	Q 2	246.3066	-3.46	16	-5	P20																														
244.0356	-2.61	26	-21	Q20	-244.5285	-3.71	27	-23	Q 1	-245.2322	-1.69	18	-8	P31	245.9115	-3.27	21	-12	P10	246.3078	-3.02	21	-12	P17																														
244.0407	-1.99	26	-21	P18	-244.5306	-3.49	27	-23	R 3	-245.2361	-3.06	15	-4	Q44	245.9122	-3.69	16	-5	Q 3	246.3096	-2.64	23	-15	P 6																														
244.0408	-1.90	22	-14	P25	-244.5308	-3.41	27	-23	R 4	245.2546	-1.74	24	-17	Q24	245.9184	-2.86	21	-12	R21	246.3148	-3.35	15	-4	P47																														
244.0412	-1.56	18	Q20	-244.5337	-3.61	15	-4	P26	245.2639	-2.72	27	-23	Q14	245.9200	-3.59	16	-5	Q 4	-246.3201	-3.01	16	-5	R32																															
244.0459	-2.73	24	-17	R 3	-244.5390	-2.11	24	-17	R19	245.2760	-2.13	24	-17	P21	245.9208	-3.20	16	-5	R20	246.3264	-2.74	21	-12	R28																														
244.0473	-2.65	24	-17	R 4	-244.5422	-3.49	27	-23	Q 2	-245.2824	-3.47	15	-4	P36	245.9258	-3.39	15	-4	P43	246.3267	-2.21	23	-15	R17																														
244.0474	-2.83	24	-17	R 2	-244.5440	-1.94	24	-17	Q15	-245.2897	-1.28	18	-8	Q38	245.9260	-2.95	27	-23	P18	246.3269	-2.15	19	-9	R 6																														
244.0532	-2.59	24	-17	R 5	-244.5498	-2.39	24	-17	P12	245.2981	-3.11	27	-23	P13	-245.9271	-1.60	18	-8	P38	246.3271	-2.10	19	-9	R 7																														
244.0555	-2.96	24	-17	R 1	-244.5580	-1.40	18	-8	Q29	245.3147	-2.93	27	-23	P16	245.9294	-3.50	16	-5	Q 5	246.3289	-2.21	19	-9	R 5																														
244.0616	-2.53	24	-17	R 6	-244.5632	-4.18	27	-23	P 2	-245.3177	-1.68	18	-8	P32	245.9406	-3.43	16	-5	Q 6	246.3297	-2.05	19	-9	R 2																														
244.0648	-3.13	24	-17	R 0	-244.5645	-1.58	18	-8	R37	-245.3229	-3.05	15	-4	Q45	245.9416	-2.73	21	-12	Q15	246.3315	-2.57	21	-12	Q22																														
-244.0661	-1.68	18	-8	R29	-244.5661	-3.34	27	-23	Q 3	245.3531	-1.73	24	-17	Q25	245.9429	-3.18	16	-5	R21	246.3339	-2.27	19	-9	R 4																														
244.0677	-3.78	15	-4	P18	-244.5665	-3.34	27	-23	R 5	-245.3695	-3.46	15	-4	P37	245.9432	-4.54	16	-5	P 2	246.3344	-2.01	19	-9	R 9																														
244.0678	-3.29	15	-4	Q26	-244.5744	-3.33	15	-4	R46	245.3733	-2.69	27	-23	Q15	245.9448	-2.02	24	-17	P27	246.3360	-2.09	23	-15	Q12																														
244.0754	-2.48	24	-17	R 7	-244.5752	-3.16	15	-4	Q35	245.3768	-2.11	24	-17	P22	245.9536	-3.36	16	-5	Q 7	246.3375	-2.91	16	-5	Q21																														
244.0827	-2.96	24	-17	Q 1	-244.5774	-1.82	22	-14	P30	245.4080	-3.07	27	-23	P14	245.9593	-3.22	21	-12	P11	246.3408	-2.35	19	-9	R 3																														
-244.0841	-3.41	15	-4	R38	-244.5825	-1.83	18	-8	R23	-245.4093	-3.04	15	-4	Q46	245.9664	-4.24	16	-5	P 3	246.3422	-1.97	19	-9	R10																														
244.0868	-2.03	18	-8	P15	-244.5943	-3.88	27	-23	P 3	-245.4122	-1.67	18	-8	P33	245.9668	-3.16	16	-5	R22	246.3507	-2.45	19	-9	R 2																														
244.0907	-1.54	18	Q21	-244.5989	-3.28	27	-23	R 6	245.4359	-2.91	27	-23	R17	245.9675	-2.84	21	-12	R22	246.3509	-3.43	16	-5	P14																															
244.0913	-2.73	24	-17	Q 2	-244.6000	-3.23	27	-23	Q 4	-245.4575	-3.44	15	-4	P38	245.9686	-3.31	16	-5	Q 8	246.3521	-1.94	19	-9	R11																														
244.0921	-2.43	24	-17	R 8	-244.6003	-3.60	15	-4	P27	-245.4576	-1.71	24	-17	Q28	-245.9722	-2.99	15	-4	Q52	-246.3537	-3.00	16	-5	R33																														
244.1011	-2.59	24	-17	Q 3	-244.6036	-2.09	24	-17	R20	245.4818	-2.09	24	-17	P23	245.9858	-3.26	16	-5	Q 9	246.3572	-2.59	23	-15	P 9																														
244.1107	-2.39	24	-17	R 9	-244.6072	-1.91	24	-17	Q16	245.4872	-2.67	27	-23	Q16	245.9880	-2.70	21	-12	Q16	246.3625	-2.57	19	-9	R 1																														
-244.1133	-1.67	18	-8	R30	-244.6147	-2.35	24	-17	P13	-245.4965	-3.03	15	-4	Q47	245.9918	-4.06	16	-5	P 4	246.3645	-1.91	19	-9	R12																														
244.1165	-3.27	15	-4	Q27	-244.6176	-3.14	27	-23	Q 5	-245.5091	-1.65	18	-8	P34	245.9929	-3.14	16	-5	R23	246.3745	-2.19	23	-15	R18																														
244.1175	-2.48	24	-17	Q 4	-244.6356	-3.71	27	-23	P 4	245.5256	-3.04	27	-23	P15	246.0045	-3.22	16	-5	Q10	246.3766	-2.99	21	-12	P18																														
244.1185	-3.43	24	-17	P 2	-244.6378	-3.23	27	-23	R 7	245.5414	-3.38	21	-12	R 5	246.0100	-3.18	21	-12	P12	246.3767	-2.75	19	-9	R 0																														
244.1195	-3.76	15	-4	P19	-244.6420	-1.39	18	-8	Q30	245.5429	-3.32	21	-12	R 6	246.0173	-2.82	21	-12	R23	246.3794	-2.89	16	-5	Q22																														
244.1286	-1.49	22	-14	Q30	-244.6427	-3.15	15	-4	Q36	245.5431	-3.44	21	-12	R 4	246.0194	-3.94	16	-5	P 5	246.3795	-1.88	19	-9	R13																														
-244.1345	-1.70	17	-7	P47	-244.6474	-3.32	15	-4	R47	245.5471	-3.52	21	-12	R 3	246.0208	-3.12	16	-5	R24	246.3822	-2.06	23	-15	Q13																														
244.1368	-2.39	24	-17	Q 5	-244.6572	-1.81	18	-8	P24	-245.5472	-3.43	15	-4	P39	-246.0254	-3.38	15	-4	P44	246.3960	-2.57	19	-9	G 1																														
244.1373	-2.35	24	-17	R10	-244.6688	-3.58	15	-4	P28	245.5476	-3.27	21	-12	R 7	246.0254	-3.18	16	-5	Q11	246.3968	-1.85	19	-9	R14																														
244.1409	-2.00	18	-8	P16	-244.6707	-3.07	27	-23	Q 6	245.5542	-3.62	21	-12	R 2	246.0295	-2.79	23	-15	R 3	246.3973	-3.39	16	-5	P15																														
244.1419	-1.88	22	-14	P26	-244.6724	-2.07	24	-17	R21	245.5547	-3.22	21	-12	R 8	246.0304	-2.71	23	-15	R 4	246.3995	-2.55	21	-12	Q23																														
244.1425	-1.52	18	-8	Q22	-244.6734	-1.89	24	-17	Q17	245.5643	-3.74	21	-12	R 1	246.0331	-2.59	23	-15	R 2	246.4011	-2.35	19	-9	Q 2																														
-244.1433	-3.40	15	-4	R39	-244.6821	-3.18	27	-23	R 8	245.5649	-3.18	21	-12	R 9	246.0348	-2.89	23	-15	R 6	246.4075	-2.53	23	-15	P10																														
244.1451	-3.13	24	-17	P 3	-244.6834	-2.32	24	-17	P14	245.5775	-3.92	21	-12	R 0	246.0364	-2.64	23	-15	R 5	246.4086	-2.21	19	-9	Q 3																														
244.1553	-2.97	26	-21	P19	-244.6857	-3.14	15	-4	Q37	-245.5780	-3.14	21	-12	R10	246.0379																																							

Table with 16 columns: WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ. Contains astronomical data for various wave frequencies and flux densities.

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Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ			
249.2939	-2.01	20.10	R	8	249.6148	-1.63	20.10	R22	249.9213	-1.86	20.10	P15	250.5092	-5.78	14.2	P24	251.4051	-2.90	18.7	P	9						
249.2948	-2.23	20.10	R	4	249.6155	-5.67	14.2	R27	249.9362	-2.45	17.6	R47	250.5269	-3.06	24.16	P17	251.4100	-2.36	18.7	R	26						
249.3005	-1.97	20.10	R	9	249.6195	-6.02	14.2	Q	6	249.9362	-5.50	14.2	Q21	250.5358	-1.65	20.10	P24	251.4110	-2.50	17.6	P	45					
249.3016	-2.31	20.10	R	3	249.6220	-2.49	17.6	R43	249.9383	-6.10	14.2	P12	250.5613	-2.63	24.16	Q21	251.4354	-2.28	18.7	R	16						
249.3073	-2.84	17.6	P21		249.6229	-2.11	20.10	P	9	249.9421	-2.95	22.13	Q26	250.5657	-3.25	22.13	P28	251.4438	-2.11	17.6	P	53					
249.3094	-1.93	20.10	R10		249.6262	-1.55	20.10	Q14	249.9472	-2.90	24.16	Q11	-250.5666	-1.22	20.10	Q30	251.4442	-2.85	18.7	P	10						
249.3112	-2.41	20.10	R	2	249.6307	-5.96	14.2	Q	7	249.9476	-1.38	20.10	Q21	-250.5670	-1.22	20.10	P37	251.4530	-2.50	18.7	R	27					
249.3211	-1.90	20.10	R11		249.6317	-7.14	14.2	P	2	-249.9497	-2.68	17.6	P30	250.5697	-5.76	14.2	P25	251.4717	-2.26	18.7	G	17					
249.3226	-2.53	20.10	R	1	249.6359	-3.02	22.13	Q22	249.9514	-3.01	24.16	R16	-250.5857	-2.39	17.6	R54	251.4860	-2.80	18.7	P	11						
249.3268	-3.13	22.13	Q17		249.6400	-5.66	14.2	R28	249.9578	-3.42	24.16	P	8	-250.5937	-2.18	17.6	P45	251.4933	-2.33	18.7	R	28					
249.3276	-3.28	22.13	R23		249.6424	-5.91	14.2	Q	8	249.9700	-5.48	14.2	Q22	-250.6004	-2.77	16.5	P60	251.4938	-1.49	20.10	P	34					
249.3358	-1.86	20.10	R12		249.6435	-2.74	17.6	P26	-249.9757	-1.52	20.10	R29	250.6091	-3.03	24.16	P18	251.5100	-2.23	18.7	G	18						
249.3374	-2.71	20.10	R.0		249.6532	-2.82	16.5	P53	249.9769	-6.06	14.2	P13	250.6192	-1.63	20.10	P25	251.5275	-2.49	17.6	P	46						
-249.3396	-2.53	17.6	R39		249.6554	-6.84	14.2	P	3	-249.9781	-2.25	17.6	P38	250.6435	-5.74	14.2	P22	251.5297	-2.76	18.7	P	12					
249.3426	-3.60	22.13	P13		249.6557	-5.86	14.2	Q	9	249.9841	-1.83	20.10	Q16	250.6447	-2.61	24.16	Q26	251.5390	-2.31	18.7	R	29					
-249.3468	-2.37	17.6	Q29		-249.6582	-2.45	16.5	Q61	249.9850	-2.13	25.18	P27	-250.6511	-1.21	20.10	Q31	251.5510	-2.21	18.7	P	19						
249.3535	-1.83	20.10	R13		249.6589	-1.61	20.10	R23	249.9904	-3.35	22.13	P22	-250.6642	-2.57	17.6	P38	251.5674	-2.10	17.6	P	54						
249.3569	-2.53	20.10	Q	1	249.6655	-3.49	24.16	R	4	249.9919	-2.87	24.16	Q12	250.6727	-5.72	14.2	P27	251.5754	-2.72	18.7	P	13					
249.3617	-2.31	20.10	Q	2	249.6655	-1.52	20.10	Q15	249.9996	-2.98	24.16	R17	-250.6828	-2.38	17.6	R55	251.5874	-2.30	18.7	R	30						
249.3699	-2.16	20.10	Q	3	249.6658	-2.06	20.10	P10	250.0054	-5.47	14.2	Q23	-250.6943	-2.17	17.6	P46	251.5941	-2.19	18.7	G	20						
249.3705	-2.82	17.6	P22		249.6659	-3.56	24.16	R	3	250.0063	-3.36	24.16	P	9	250.6950	-3.01	24.16	P19	251.6026	-1.48	20.10	P	35				
249.3764	-1.83	25.18	Q25		249.6679	-5.65	14.2	R29	250.0067	-1.36	20.10	Q22	250.7057	-1.61	20.10	P26	251.6237	-2.69	18.7	P	14						
249.3771	-2.22	25.18	P22		249.6692	-3.42	24.16	R	5	250.0177	-6.02	14.2	P14	-250.7296	-1.20	20.10	Q32	251.6392	-2.17	18.7	G	21					
249.3771	-1.81	20.10	R14		249.6704	-3.66	24.16	R	2	-250.0232	-2.44	17.6	R48	250.7311	-2.59	24.16	Q23	251.6406	-2.28	18.7	R	31					
249.3798	-2.06	20.10	Q	4	249.6707	-3.45	22.13	P18	250.0293	-2.94	22.13	Q17	250.7402	-5.71	14.2	P28	251.6468	-2.48	17.6	P	47						
249.3828	-3.11	22.13	Q18		249.6707	-5.81	14.2	Q10	250.0304	-1.81	20.10	P27	-250.7480	-2.76	16.5	P61	251.6735	-2.66	18.7	P	15						
249.3842	-1.78	20.10	R15		-249.6746	-2.30	17.6	Q34	250.0309	-2.66	17.6	P31	-250.7642	-2.56	17.6	P39	251.6868	-2.15	18.7	G	22						
249.3882	-3.26	22.13	R24		249.6764	-3.36	24.16	R	6	250.0403	-2.83	24.16	Q13	250.7843	-2.98	24.16	P20	251.6878	-2.27	18.7	P	32					
249.3926	-1.97	20.10	Q	5	249.6772	-3.79	24.16	R	1	250.0421	-5.45	14.2	Q24	-250.7944	-2.16	17.6	P47	251.6879	-2.09	17.6	P	55					
249.3961	-3.01	20.10	P	2	249.6809	-6.66	14.2	P	4	-250.0434	-1.50	20.10	R30	250.7945	-1.59	20.10	P27	251.7261	-2.63	18.7	P	16					
-249.4004	-2.35	17.6	Q30		249.6855	-5.63	14.2	R30	-250.0451	-2.80	16.5	P56	250.8061	-5.69	14.2	P29	251.7366	-2.13	18.7	G	23						
-249.4011	-2.46	16.5	Q59		249.6872	-5.78	14.2	Q11	250.0511	-2.96	24.16	R18	-250.8208	-1.18	20.10	Q33	251.7443	-2.26	18.7	P	33						
249.4021	-3.56	22.13	P14		249.6873	-3.31	24.16	R	7	250.0585	-3.31	24.16	P10	250.8225	-2.57	24.16	Q24	251.7638	-2.47	17.6	P	48					
-249.4045	-2.84	16.5	P51		249.6889	-3.96	24.16	R	0	-250.0593	-2.24	17.6	P39	-250.8648	-2.55	17.6	P40	251.7644	-5.26	15.3	R	12					
249.4080	-1.90	20.10	Q	6	249.6982	-2.48	17.6	R44	250.0597	-5.99	14.2	P25	250.8724	-5.67	14.2	P30	251.7645	-5.29	15.3	R	11						
-249.4081	-2.52	17.6	R40		-249.7020	-3.26	24.16	R	8	250.0636	-1.34	20.10	Q13	250.8782	-2.96	24.16	P21	251.7661	-5.23	15.3	R	10					
249.4139	-1.75	20.10	R16		249.7049	-5.74	14.2	Q12	250.0759	-3.33	22.13	P23	250.8869	-1.58	20.10	P28	251.7664	-5.32	15.3	R	14						
249.4205	-2.71	20.10	P	3	249.7061	-1.59	20.10	R24	250.0813	-5.43	14.2	Q25	-250.8969	-2.15	17.6	P48	251.7688	-5.20	15.3	P	10						
249.4259	-1.83	20.10	Q	7	249.7067	-6.54	14.2	P	5	250.0922	-2.80	24.16	P14	-250.8979	-2.75	16.5	P62	251.7707	-5.36	15.3	R	9					
249.4354	-2.80	17.6	P23		249.7076	-3.79	24.16	Q	1	250.0993	-1.78	20.10	Q18	250.9171	-1.17	20.10	Q34	251.7738	-5.17	15.3	P	15					
249.4416	-3.09	22.13	Q19		249.7083	-1.49	20.10	Q16	250.1034	-5.96	14.2	P16	250.9419	-5.66	14.2	P31	251.7751	-5.40	15.3	R	8						
249.4427	-1.73	20.10	R17		249.7094	-3.01	22.13	Q23	-250.1061	-1.49	20.10	R31	-250.9673	-2.54	17.6	P41	251.7801	-5.15	15.3	P	16						
249.4460	-3.25	22.13	R25		249.7115	-2.01	20.10	P11	250.1072	-2.94	24.16	R19	250.9757	-2.94	24.16	P22	251.7808	-2.60	18.7	P	17						
249.4467	-1.78	20.10	Q	8	249.7147	-3.56	24.16	Q	2	-250.1079	-2.43	17.6	R49	251.0011	-5.65	14.2	P32	251.7816	-5.45	15.3	R	7					
249.4482	-2.53	20.10	P	4	249.7152	-5.62	14.2	R31	250.1138	-3.26	24.16	P11	-251.0012	-1.56	20.10	P29	251.7877	-5.12	15.3	P	17						
249.4532	-5.99	14.2	R12		-249.7163	-2.72	17.6	P27	-250.1145	-2.65	17.6	P32	-251.0085	-2.14	17.6	P49	251.7883	-2.11	18.7	G	24						
249.4534	-5.96	14.2	R13		249.7197	-3.22	24.16	R	9	250.1213	-2.11	25.18	P28	-251.0498	-2.75	16.5	P63	251.7899	-5.50	15.3	R	6					
249.4543	-6.02	14.2	R11		249.7247	-5.71	14.2	Q13	250.1228	-5.41	14.2	Q26	251.0586	-2.80	18.7	R	8	251.7977	-5.10	15.3	R	18					
249.4554	-5.93	14.2	R14		249.7267	-3.42	24.16	Q	3	250.1291	-1.32	20.10	Q24	251.0599	-2.76	18.7	R	9	251.7996	-5.56	15.3	R	5				
249.4575	-6.06	14.2	R10		249.7272	-2.16	25.18	P25	-250.1432	-2.23	17.6	P40	251.0601	-2.85	18.7	R	7	-251.8050	-2.09	17.6	P	56					
249.4584	-5.91	14.2	R15		249.7363	-6.44	14.2	P	6	250.1476	-2.77	24.16	Q15	251.0629	-2.72	18.7	R	10	-251.8054	-2.25	18.7	P	34				
249.4618	-6.10	14.2	R	9	249.7409	-3.18	24.16	R10	250.1482	-5.93	14.2	P17	251.0634	-2.90	18.7	R	6	251.8088	-5.08	15.3	P	19					
249.4633	-5.88	14.2	R16		249.7409	-3.31	24.16	Q	4	250.1669	-2.92	24.16	R20	251.0681	-2.69	18.7	R	11	251.8113	-5.62	15.3	R	4				
249.4638	-3.53	22.13	P15		249.7451	-4.26	24.16	P	2	250.1674	-1.75	20.10	P19	251.0689	-2.96	18.7	R	5									

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ									
252,0299	-2.20	18	7	R38	252,4310	-1.91	21-11	R12	252,8520	-2.02	21-11	P12	253,6184	-1.83	18	7	Q47	254,1008	-3.45	25-17	P13	254,1008	-3.45	25-17	P13								
252,0381	-4.97	15	3	Q13	252,4352	-2.94	23-14	P 6	252,8599	-2.22	23-14	R24	253,6226	-3.42	25-17	R11	254,1019	-2.15	19	8	R22	254,1019	-2.15	19	8	R22							
252,0431	-5.70	15	3	P 6	252,4409	-2.58	21-11	Q 1	252,8668	-2.31	18	7	P32	253,6236	-3.89	28-23	P 3	254,1039	-2.17	18	7	P44	254,1039	-2.17	18	7	P44						
252,0450	-3.65	27-21	P 3	252,4432	-2.38	23-14	R16	252,8902	-1.63	21-11	R25	253,6252	-3.29	28-23	R 6	254,1159	-2.13	19	8	R23	254,1159	-2.13	19	8	R23								
252,0522	-2.96	27-21	R 8	252,4465	-2.36	21-11	Q 2	252,8940	-2.04	23-14	Q19	253,6267	-3.42	25-17	Q 6	254,1179	-2.13	19	8	Q12	254,1179	-2.13	19	8	Q12								
252,0552	-2.91	27-21	R 5	252,4495	-1.88	21-11	R13	252,9029	-1.49	21-11	Q18	253,6288	-3.24	28-23	Q 4	254,1206	-2.79	28-23	Q12	254,1206	-2.79	28-23	Q12	254,1206	-2.79	28-23	Q12						
252,0608	-4.94	15	3	Q14	252,4499	-2.31	23-14	Q10	252,9030	-5.02	15	3	P25	253,6350	-2.21	18	7	P40	254,1314	-2.75	19	8	P 7	254,1314	-2.75	19	8	P 7					
252,0736	-5.62	15	3	P 7	252,4547	-2.22	21-11	Q 3	252,9052	-2.49	23-14	P15	253,6422	-4.05	25-17	P 4	254,1315	-2.17	19	8	R21	254,1315	-2.17	19	8	R21							
252,0798	-3.48	27-21	P 4	252,4554	-2.39	18	7	P27	252,9094	-1.98	21-11	P13	253,6465	-2.27	23-14	P24	254,1477	-2.10	19	8	Q13	254,1477	-2.10	19	8	Q13							
252,0845	-4.91	15	3	Q15	252,4581	-4.68	15	3	Q26	252,9152	-2.39	27-21	Q18	253,6467	-3.15	28-23	Q 5	254,1502	-2.99	25-17	Q17	254,1502	-2.99	25-17	Q17	254,1502	-2.99	25-17	Q17				
252,0865	-2.48	18	7	P22	252,4656	-2.11	21-11	Q 4	252,9275	-1.89	18	7	Q40	253,6535	-3.35	25-17	Q 7	254,1546	-3.19	28-23	P14	254,1546	-3.19	28-23	P14	254,1546	-3.19	28-23	P14				
252,0879	-2.84	27-21	Q 6	252,4691	-5.20	15	3	P17	252,9278	-2.20	23-14	R25	253,6552	-3.38	25-17	R12	254,1579	-2.99	28-23	R11	254,1579	-2.99	28-23	R11	254,1579	-2.99	28-23	R11					
252,0892	-2.91	27-21	R 9	252,4717	-2.52	27-21	Q13	252,9282	-2.78	27-21	R16	253,6654	-3.24	28-23	P 4	254,1675	-2.11	19	8	R 24	254,1675	-2.11	19	8	R 24	254,1675	-2.11	19	8	R 24			
252,0984	-2.03	18	7	Q29	252,4727	-1.86	21-11	R14	252,9466	-1.61	21-11	P26	253,6671	-3.71	28-23	P 4	254,1681	-2.68	19	8	P 8	254,1681	-2.68	19	8	P 8	254,1681	-2.68	19	8	P 8		
252,1060	-5.56	15	3	P 8	252,4741	-2.86	23-14	P 7	252,9566	-2.39	17	6	P57	253,6743	-1.70	21-11	P24	254,1718	-3.42	25-17	P14	254,1718	-3.42	25-17	P14	254,1718	-3.42	25-17	P14				
252,1105	-4.88	15	3	Q16	252,4768	-2.96	27-21	P11	252,9568	-1.47	21-11	Q19	253,6781	-3.93	25-17	P 5	254,1784	-2.19	23-14	P29	254,1784	-2.19	23-14	P29	254,1784	-2.19	23-14	P29					
252,1171	-2.19	18	7	R39	252,4792	-2.02	21-11	Q 5	252,9608	-2.30	18	7	P33	253,6859	-3.30	25-17	Q 8	254,1787	-4.66	16	4	R11	254,1787	-4.66	16	4	R11	254,1787	-4.66	16	4	R11	
252,1201	-3.35	27-21	P 5	252,4806	-3.06	21-11	P 2	252,9621	-2.02	23-14	Q20	253,6923	-3.35	25-17	R13	254,1797	-2.06	19	8	Q14	254,1797	-2.06	19	8	Q14	254,1797	-2.06	19	8	Q14			
252,1262	-2.78	27-21	Q 7	252,4827	-2.36	23-14	R17	252,9649	-5.00	15	3	P26	253,7024	-3.08	28-23	Q 6	254,1805	-4.70	16	4	R10	254,1805	-4.70	16	4	R10	254,1805	-4.70	16	4	R10		
252,1315	-2.88	27-21	R10	252,4855	-2.27	23-14	Q11	252,9668	-1.95	21-11	P16	253,7110	-1.87	23-14	Q29	254,1813	-4.63	16	4	R12	254,1813	-4.63	16	4	R12	254,1813	-4.63	16	4	R12			
252,1378	-4.86	15	3	Q17	252,4959	-1.95	21-11	Q 6	252,9741	-2.46	23-14	P16	253,7112	-3.19	28-23	R 8	254,1827	-4.74	16	4	R 9	254,1827	-4.74	16	4	R 9	254,1827	-4.74	16	4	R 9		
252,1391	-2.44	17	6	P51	252,4997	-2.14	18	7	R44	252,9988	-2.19	23-14	R26	253,7170	-3.83	25-17	P 6	254,1836	-4.60	16	4	R13	254,1836	-4.60	16	4	R13	254,1836	-4.60	16	4	R13	
252,1399	-5.50	15	3	P 9	252,5006	-2.70	27-21	R16	253,0128	-1.45	21-11	Q20	253,7211	-3.59	28-23	P 5	254,1860	-4.78	16	4	R 8	254,1860	-4.78	16	4	R 8	254,1860	-4.78	16	4	R 8		
252,1448	-2.02	18	7	Q30	252,5033	-4.66	15	3	Q27	253,0215	-2.36	27-21	Q19	253,7212	-3.25	25-17	Q 9	254,1891	-4.57	16	4	R14	254,1891	-4.57	16	4	R14	254,1891	-4.57	16	4	R14	
252,1544	-2.46	18	7	P23	252,5041	-1.83	21-11	R15	253,0229	-1.88	18	7	Q41	253,7312	-3.33	25-17	R14	254,1922	-4.82	16	4	R 7	254,1922	-4.82	16	4	R 7	254,1922	-4.82	16	4	R 7	
252,1659	-3.26	27-21	P 6	252,5060	-2.76	21-11	P 3	253,0250	-1.91	21-11	P15	253,7470	-2.26	23-14	P25	254,1951	-4.55	16	4	R15	254,1951	-4.55	16	4	R15	254,1951	-4.55	16	4	R15			
252,1664	-4.83	15	3	Q18	252,5095	-1.95	18	7	Q35	253,0279	-4.99	15	3	P27	253,7543	-3.01	28-23	Q 7	254,1991	-4.87	16	4	R 6	254,1991	-4.87	16	4	R 6	254,1991	-4.87	16	4	R 6
252,1694	-2.72	27-21	Q 8	252,5115	-1.81	21-11	R16	253,0314	-2.00	23-14	Q21	253,7574	-3.49	28-23	P 6	254,2032	-4.52	16	4	R16	254,2032	-4.52	16	4	R16	254,2032	-4.52	16	4	R16			
252,1756	-5.45	15	3	P10	252,5152	-1.88	21-11	Q 7	253,0351	-2.75	27-21	P17	253,7584	-3.21	25-17	Q10	254,2046	-3.15	25-17	R22	254,2046	-3.15	25-17	R22	254,2046	-3.15	25-17	R22	254,2046	-3.15	25-17	R22	
252,1788	-2.84	27-21	R11	252,5159	-2.79	23-14	P 8	253,0463	-2.43	23-14	P17	253,7605	-3.75	25-17	P10	254,2067	-2.62	19	8	P 9	254,2067	-2.62	19	8	P 9	254,2067	-2.62	19	8	P 9			
252,1904	-2.18	18	7	R40	252,5175	-5.17	15	3	P18	253,0486	-2.28	18	7	P34	253,7609	-1.68	21-11	P25	254,2084	-4.93	16	4	R 5	254,2084	-4.93	16	4	R 5	254,2084	-4.93	16	4	R 5
252,1974	-4.81	15	3	Q19	252,5257	-2.24	23-14	Q12	253,0703	-2.17	23-14	R27	253,7631	-2.20	18	7	P41	254,2100	-2.10	19	8	R25	254,2100	-2.10	19	8	R25	254,2100	-2.10	19	8	R25	
252,2133	-5.40	15	3	P11	252,5260	-2.33	23-14	R18	253,0709	-1.43	21-11	Q21	253,7666	-3.15	28-23	R 9	254,2129	-4.50	16	4	R17	254,2129	-4.50	16	4	R17	254,2129	-4.50	16	4	R17		
252,2133	-2.00	18	7	Q31	252,5268	-2.37	18	7	P28	253,0879	-1.88	21-11	P16	253,7766	-3.30	25-17	R15	254,2154	-2.04	19	8	R17	254,2154	-2.04	19	8	R17	254,2154	-2.04	19	8	R17	
252,2171	-3.18	27-21	P 7	252,5340	-2.58	21-11	P 4	253,0942	-4.97	15	3	P28	253,8040	-3.17	25-17	Q11	254,2170	-2.76	28-23	Q13	254,2170	-2.76	28-23	Q13	254,2170	-2.76	28-23	Q13	254,2170	-2.76	28-23	Q13	
252,2182	-2.68	27-21	Q 9	252,5342	-2.42	17	6	P54	253,1065	-1.98	23-14	Q22	253,8065	-3.68	25-17	P 8	254,2191	-5.00	16	4	R 4	254,2191	-5.00	16	4	R 4	254,2191	-5.00	16	4	R 4		
252,2222	-2.86	23-14	R 4	252,5371	-1.83	21-11	Q 8	253,1219	-2.41	23-14	P18	253,8105	-1.85	23-14	Q30	254,2233	-2.96	25-17	Q18	254,2233	-2.96	25-17	Q18	254,2233	-2.96	25-17	Q18	254,2233	-2.96	25-17	Q18		
252,2224	-2.79	23-14	R 4	252,5460	-1.78	21-11	R17	253,1302	-1.87	18	7	Q42	253,8131	-2.96	28-23	Q 8	254,2244	-4.48	16	4	R18	254,2244	-4.48	16	4	R18	254,2244	-4.48	16	4	R18		
252,2246	-2.44	18	7	P24	252,5488	-2.49	27-21	Q14	253,1323	-1.41	21-11	Q22	253,8250	-2.26	25-17	R16	254,2266	-2.16	18	7	P45	254,2266	-2.16	18	7	P45	254,2266	-2.16	18	7	P45		
252,2253	-2.94	23-14	R 6	252,5561	-2.91	27-21	P12	253,1341	-2.34	27-21	Q20	253,8287	-3.11	28-23	R10	254,2312	-5.08	16	4	R 3	254,2312	-5.08	16	4	R 3	254,2312	-5.08	16	4	R 3			
252,2254	-2.73	23-14	R 6	252,5582	-4.65	15	3	Q28	253,1459	-2.27	18	7	P35	253,8316	-3.41	28-23	P 7	254,2356	-2.01	19	8	Q16	254,2356	-2.01	19	8	Q16	254,2356	-2.01	19	8	Q16	
252,2295	-4.79	15	3	Q20	252,5615	-2.73	23-14	P 9	253,1483	-2.16	23-14	R28	253,8505	-2.24	23-14	P26	254,2379	-4.46	16	4	R19	254,2379	-4.46	16	4	R19	254,2379	-4.46	16	4	R19		
252,2318	-2.81	27-21	R12	252,5615	-1.78	21-11	Q 9	253,1483	-2.72	27-21	P18	253,8512	-1.66	21-11																			

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
254.4847	-5.00	16	-4	P 7	-255.3019	-1.69	19	-8	Q34	255.9851	-2.11	24	-15	Q 8	256.7177	-4.03	17	-5	R14	256.9899	-3.15	27	-20	R14
254.4879	-2.38	19	-8	P15	-255.3338	-3.94	16	-4	Q34	255.9858	-2.74	24	-15	P 5	256.7212	-4.33	17	-5	R 6	256.9913	-1.99	20	-9	P40
-254.4925	-2.01	19	-8	R31	255.3447	-3.13	25	-17	P26	255.9944	-2.29	22	-12	P10	256.7214	-3.40	17	-20	Q 4	-256.9971	-4.13	16	-4	Q15
254.4953	-3.30	25	-17	P18	255.3498	-4.40	16	-4	P25	-255.9997	-4.26	16	-4	P34	256.7257	-4.01	17	-5	R15	256.9989	-1.63	24	-15	Q25
254.4954	-2.91	28	-23	R17	-255.3611	-4.09	16	-4	R47	255.0010	-2.06	24	-15	Q 9	256.7259	-3.36	17	-20	R 8	256.9990	-3.76	17	-5	R28
-254.5028	-4.27	16	-4	Q30	-255.3868	-1.68	19	-8	Q35	256.0098	-1.86	22	-12	R22	256.7300	-4.39	17	-5	R 5	257.0037	-3.00	27	-20	Q11
254.5075	-4.29	16	-4	R15	-255.3888	-2.10	19	-8	P28	256.0121	-1.75	22	-12	Q15	256.7354	-3.98	17	-5	R16	257.0042	-2.04	24	-15	P21
254.5179	-4.93	16	-4	P 8	-255.3961	-3.93	16	-4	Q35	256.0127	-2.11	24	-15	R15	256.7406	-4.46	17	-5	R 4	257.0089	-4.46	17	-5	P 7
254.5183	-1.87	19	-8	Q22	255.4144	-4.38	16	-4	P26	256.0252	-2.64	24	-15	P 6	256.7422	-2.11	24	-15	P18	257.0118	-3.78	17	-5	Q14
-254.5347	-4.26	16	-4	Q16	-255.4281	-4.08	16	-4	R48	-256.0311	-2.00	19	-8	P35	256.7423	-1.69	24	-15	Q22	257.0161	-1.95	20	-9	R21
254.5386	-4.26	16	-4	R31	-255.4473	-2.08	19	-8	P29	-256.0342	-3.83	16	-4	Q44	256.7443	-4.06	17	-20	P 3	257.0182	-1.95	20	-9	Q11
-254.5430	-2.35	19	-8	P16	-255.4615	-3.91	16	-4	Q36	256.0397	-2.02	24	-15	Q10	256.7472	-3.96	17	-5	R17	257.0197	-2.61	20	-9	P 6
-254.5488	-2.00	19	-8	R32	255.4710	-3.11	25	-17	P27	256.0437	-2.24	22	-12	P11	-256.7472	-3.76	16	-4	Q52	257.0250	-3.46	27	-20	P 9
254.5528	-2.88	25	-17	Q22	-255.4728	-1.66	19	-8	Q36	256.0520	-2.09	24	-15	R16	256.7473	-3.32	17	-20	Q 5	257.0390	-3.75	17	-5	Q15
254.5536	-4.87	16	-4	P 9	255.4984	-4.36	16	-4	P27	256.0585	-1.85	22	-12	R23	256.7529	-4.54	17	-5	R 3	257.0394	-3.75	17	-5	R29
254.5544	-2.67	28	-23	Q16	-255.4984	-4.07	16	-4	R49	256.0588	-1.73	22	-12	Q16	256.7569	-3.32	17	-20	R 9	257.0429	-4.39	17	-5	P 8
254.5640	-4.23	16	-4	Q17	-255.4999	-3.90	16	-4	Q37	256.0700	-2.56	24	-15	P 7	256.7609	-3.94	17	-5	R18	257.0461	-1.86	22	-12	P25
254.5733	-1.85	19	-8	Q23	-255.5460	-2.06	19	-8	P30	256.0801	-1.98	24	-15	Q11	256.7645	-1.50	22	-12	Q27	257.0472	-1.91	20	-9	Q12
-254.5767	-4.25	16	-4	R32	255.5493	-4.35	16	-4	P28	256.0959	-2.20	22	-12	P12	256.7668	-4.64	17	-5	R 2	257.0517	-1.93	20	-9	R22
254.5877	-3.27	25	-17	P19	-255.5629	-1.65	19	-8	Q37	256.0962	-2.06	24	-15	R17	256.7764	-3.92	17	-5	R19	257.0522	-3.13	27	-20	R15
254.5898	-4.82	16	-4	P10	-255.5730	-4.06	16	-4	R50	256.1045	-2.50	24	-15	P 8	256.7772	-3.25	17	-20	Q 6	257.0547	-2.53	20	-9	P 7
254.5949	-4.21	16	-4	Q18	-255.5876	-3.89	16	-4	Q38	256.1090	-1.70	22	-12	Q17	256.7785	-3.88	17	-20	P 4	257.0644	-2.96	27	-20	Q12
-254.5978	-2.13	18	-7	P48	255.6025	-2.40	22	-12	R 6	256.1099	-1.83	22	-12	R24	256.7797	-2.36	20	-9	R 7	257.0684	-3.72	17	-5	Q16
254.5993	-3.04	28	-23	P15	255.6028	-2.34	22	-12	R 6	-256.1113	-4.25	16	-4	P35	256.7808	-2.31	20	-9	R 8	-257.0749	-3.73	17	-5	R30
254.6010	-2.32	19	-8	P17	255.6054	-2.47	22	-12	R 4	-256.1185	-3.82	16	-4	Q45	256.7811	-2.41	20	-9	R 6	257.0786	-1.88	20	-9	Q13
254.6027	-1.84	19	-8	Q24	255.6062	-2.29	22	-12	R 7	256.1234	-1.94	24	-15	Q12	256.7829	-1.92	22	-12	P22	257.0789	-4.33	17	-5	P 9
-254.6131	-1.98	19	-8	R33	255.6107	-2.54	22	-12	R 3	-256.1306	-1.98	19	-8	P36	256.7830	-4.76	17	-5	R 1	257.0896	-3.40	27	-20	P10
254.6276	-4.19	16	-4	Q19	255.6121	-2.24	22	-12	R 8	256.1438	-2.04	24	-15	R18	256.7838	-2.27	20	-9	R 9	257.0896	-1.91	20	-9	R23
254.6290	-4.78	16	-4	P11	255.6188	-4.33	16	-4	P29	256.1510	-2.16	22	-12	P13	256.7847	-2.46	20	-9	R 5	257.0926	-2.46	20	-9	P 8
254.6452	-2.86	25	-17	Q23	255.6191	-2.64	22	-12	R 2	256.1540	-2.44	24	-15	P 9	256.7900	-2.23	20	-9	R10	257.0973	-4.12	16	-4	P46
-254.6455	-4.23	16	-4	R33	255.6211	-2.20	22	-12	R 9	-256.1590	-4.23	16	-4	P36	256.7913	-2.53	20	-9	R 4	257.0991	-2.02	24	-15	P22
254.6512	-4.22	16	-4	R34	255.6305	-2.77	22	-12	R 1	256.1610	-1.68	22	-12	Q18	256.7932	-3.28	17	-20	R10	257.0995	-3.69	17	-5	G17
254.6620	-2.30	19	-8	P18	255.6331	-2.16	22	-12	R10	256.1695	-1.81	22	-12	R25	256.7935	-3.90	17	-5	R20	257.1127	-1.48	20	-9	Q14
254.6622	-4.17	16	-4	Q20	255.6451	-2.94	22	-12	R 0	256.1704	-1.91	24	-15	Q13	-256.7962	-4.15	16	-4	P43	257.1171	-4.28	17	-5	P10
254.6693	-4.74	16	-4	P12	-255.6473	-2.05	19	-8	P31	256.1951	-2.02	24	-15	R19	256.7982	-2.20	20	-9	R11	257.1192	-3.10	27	-20	R16
-254.6714	-1.97	19	-8	R34	255.6479	-2.13	22	-12	R11	-256.2021	-3.81	16	-4	Q46	256.7997	-2.61	20	-9	R 3	-257.1239	-3.72	17	-5	R31
254.6799	-1.82	19	-8	Q25	-255.6495	-4.05	16	-4	R51	256.2061	-2.39	24	-15	P10	256.8012	-4.94	17	-5	R 0	257.1301	-2.93	27	-20	Q13
254.6840	-2.65	28	-23	Q17	-255.6538	-1.64	19	-8	Q38	256.2093	-2.13	22	-12	P14	256.8089	-2.16	20	-9	R12	257.1302	-1.89	20	-9	R24
254.6846	-3.25	25	-17	P20	-255.6589	-3.88	16	-4	Q39	256.2177	-1.65	22	-12	Q19	256.8112	-2.71	20	-9	R 2	257.1326	-3.67	17	-5	Q18
-254.6954	-4.21	16	-4	R35	255.6652	-2.77	22	-12	Q 1	256.2198	-1.88	24	-15	Q14	256.8125	-3.18	17	-20	Q 7	257.1328	-2.41	20	-9	P 9
254.6981	-4.14	16	-4	Q21	255.6658	-2.10	22	-12	R12	256.2244	-1.80	22	-12	R26	256.8127	-3.88	17	-5	R21	257.1379	-1.85	22	-12	P26
254.7100	-4.70	16	-4	P13	255.6707	-2.54	22	-12	Q 2	-256.2377	-1.97	19	-8	P37	256.8170	-3.76	17	-20	P 5	257.1490	-1.82	20	-9	Q15
254.7323	-3.01	28	-23	P16	255.6794	-2.40	22	-12	Q 3	-256.2456	-4.22	16	-4	P37	256.8222	-2.13	20	-9	R13	-257.1554	-3.71	17	-5	R32
254.7336	-2.27	19	-8	P19	255.6867	-2.07	22	-12	R13	256.2504	-2.00	24	-15	R20	256.8247	-4.76	17	-5	Q 1	257.1566	-4.24	17	-5	P11
254.7363	-4.12	16	-4	Q22	255.6911	-4.32	16	-4	P30	256.2615	-2.34	24	-15	P11	256.8243	-1.67	24	-15	Q23	257.1590	-3.36	27	-20	P11
-254.7372	-1.96	19	-8	R35	255.6912	-2.29	22	-12	Q 4	256.2705	-2.10	22	-12	P15	256.8244	-2.83	20	-9	R 1	257.1678	-3.65	17	-5	Q19
-254.7402	-4.20	16	-4	R36	255.7054	-3.24	22	-12	P 2	256.2711	-1.85	24	-15	Q15	256.8259	-4.54	17	-5	Q 2	257.1731	-1.88	20	-9	R25
-254.7427	-1.80	19	-8	Q26	255.7060	-2.20	22	-12	Q 5	256.2751	-1.63	22	-12	Q20	256.8260	-2.09	24	-15	P19	257.1753	-2.36	20	-9	P10
254.7440	-2.84	25	-17	Q24	255.7105	-2.04	22	-12	R14	-256.2864	-3.80	16	-4	Q47	256.8311	-4.39	17	-5	Q 3	-257.1783	-4.12	16	-4	P47
254.7552	-4.66	16	-4	P14	-255.7196	-4.05	16	-4	R52	256.2944	-1.78	22	-12	R27	-256.8330	-3.75	16	-4	Q53	-257.1843	-3.69	17	-5	R33
254.7775	-4.11	16	-4	Q23	255.7231	-2.13	22	-12	Q 6	256.3086	-1.98	24	-15	R21	256.8337	-3.86	17	-5	R22	-257.1877	-1.79	20	-9	Q16
254.7798	-2.25	19	-8	P20	255.7310	-2.94	22	-12	P 3	256.3229	-2.30	24	-15	P12	256.8347	-3.25	17	-20	R11	257.1926	-3.08	27	-20	R17
254.7827	-3.23	25	-17	P21	-255.7319	-3.87	16	-4	Q40	256.3278	-1.82	24	-15	Q16	256.8378	-2.11	20	-9	R14	257.1970	-2.00	24	-15	P23
-254.7866	-4.19	16	-4	R37	-255.7329	-2.04	19	-8	P32	-256.3328	-4.21	16	-4	P38	256.8387	-4.28	17	-5	Q 4	257.1983	-4.20	17	-5	P12
254.8000	-4.63	16	-4	P15	255.7370	-2.01	22	-12	R15	256.3346	-2.07	22	-12	P16	256.8401	-3.01	20	-9	R 0	257.2010	-2.90	27	-20	Q14
-254.8045	-1.95	19	-8	R36	255.7436	-2.07	22	-12	Q 7	256.3390	-1.61													

Table 7. (Cont.)

WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ				
257.5154	-3.50	17	-5	Q27	258.1278	-2.58	26	-18	P12	259.1998	-2.96	23	-13	P	6	259.6670	-2.20	26	-18	P27	260.0691	-2.02	25	-16	R20	260.0691	-2.02	25	-16	R20			
257.5289	-1.64	20	-9	Q23	258.1419	-3.06	27	-20	P21	259.2018	-2.34	23	-13	Q10	259.6707	-2.25	25	-16	R11	260.0695	-1.87	25	-16	Q15	260.0695	-1.87	25	-16	Q15				
257.5292	-4.09	16	-4	P50	258.1506	-1.50	20	-9	Q32	259.2270	-3.23	17	-5	Q50	259.6736	-3.28	18	-6	Q15	260.0725	-3.56	18	-6	P17	260.0725	-3.56	18	-6	P17				
257.5377	-2.79	27	-20	Q18	258.1649	-3.53	17	-5	R49	259.2273	-3.64	17	-5	P41	259.6744	-2.32	25	-16	Q	5	260.0729	-2.45	21	-10	P	6	260.0729	-2.45	21	-10	P	6	
257.5406	-3.98	17	-5	P19	258.1902	-1.91	20	-9	P26	259.2350	-2.36	23	-13	R18	259.6793	-3.29	18	-6	R28	260.0780	-1.79	21	-10	Q11	260.0780	-1.79	21	-10	Q11				
257.5412	-2.11	20	-9	P17	258.1919	-3.79	17	-5	P29	259.2361	-2.30	23	-13	Q11	259.6858	-2.05	23	-13	Q20	260.0859	-3.06	18	-6	Q25	260.0859	-3.06	18	-6	Q25				
257.5489	-3.61	17	-5	R40	258.1937	-3.35	17	-5	Q38	259.2388	-2.88	23	-13	P	7	259.6893	-3.06	25	-16	P	3	260.0879	-1.79	21	-10	R21	260.0879	-1.79	21	-10	R21		
257.5508	-1.78	20	-9	R32	258.1961	-2.10	26	-18	Q16	259.2571	-1.88	26	-18	Q27	259.6908	-3.25	18	-6	Q16	260.0910	-3.56	17	-5	P49	260.0910	-3.56	17	-5	P49				
257.5539	-1.78	22	-12	P30	258.1985	-2.54	26	-18	P13	259.2731	-2.26	23	-13	Q12	259.6973	-2.25	25	-16	Q	6	260.1020	-3.18	18	-6	R37	260.1020	-3.18	18	-6	R37			
257.5688	-3.48	17	-5	Q28	258.1988	-2.27	26	-18	R20	259.2749	-2.26	26	-18	P24	259.6998	-2.21	25	-16	R12	260.1061	-3.17	17	-5	Q58	260.1061	-3.17	17	-5	Q58				
257.5696	-2.92	26	-18	R	3	258.2356	-1.48	20	-9	Q33	259.2775	-2.34	23	-13	R19	259.7171	-3.28	18	-6	R29	260.1064	-2.32	25	-16	P12	260.1064	-2.32	25	-16	P12			
257.5761	-2.84	26	-18	R	4	258.2416	-3.52	17	-5	R50	259.2776	-3.44	17	-5	R61	259.7195	-3.86	18	-6	P	9	260.1091	-1.76	21	-10	Q12	260.1091	-1.76	21	-10	Q12		
257.5824	-3.02	26	-18	R	2	258.2660	-3.78	17	-5	P30	259.2788	-3.62	18	-6	R12	259.7216	-2.88	25	-16	Q	7	260.1092	-2.38	21	-10	P	7	260.1092	-2.38	21	-10	P	7
257.5834	-2.77	26	-18	R	5	258.2691	-3.34	17	-5	Q39	259.2813	-2.82	23	-13	P	8	259.7237	-2.18	25	-16	Q	4	260.1158	-2.36	23	-13	P21	260.1158	-2.36	23	-13	P21	
257.5843	-3.18	27	-20	P16	258.2702	-2.07	26	-18	Q17	259.3138	-2.23	23	-13	Q13	259.7313	-2.49	23	-13	P16	260.1270	-1.94	23	-13	Q26	260.1270	-1.94	23	-13	Q26				
257.5875	-1.62	20	-9	Q24	258.2748	-1.89	20	-9	P27	259.3175	-3.59	18	-6	R13	259.7326	-2.18	25	-16	R13	260.1301	-1.84	25	-16	Q16	260.1301	-1.84	25	-16	Q16				
257.5881	-3.14	26	-18	R	1	258.2751	-2.50	26	-18	P14	259.3232	-2.32	23	-13	R20	259.7383	-3.22	18	-6	Q17	260.1308	-3.54	18	-6	P18	260.1308	-3.54	18	-6	P18			
257.5943	-2.71	26	-18	R	6	258.2757	-2.26	26	-18	R21	259.3264	-2.76	23	-13	P	9	259.7491	-3.58	17	-5	P46	260.1319	-1.77	21	-10	R22	260.1319	-1.77	21	-10	R22		
257.5973	-3.96	17	-5	P20	258.3252	-3.51	17	-5	R51	259.3279	-3.63	17	-5	P42	259.7519	-2.03	23	-13	Q21	260.1339	-2.00	25	-16	R21	260.1339	-2.00	25	-16	R21				
257.5990	-3.32	26	-18	R	0	258.3456	-3.33	17	-5	Q40	259.3281	-3.23	17	-5	Q51	259.7539	-2.13	25	-16	Q	8	260.1378	-3.04	18	-6	Q26	260.1378	-3.04	18	-6	Q26		
257.6032	-2.08	20	-9	P18	258.3473	-3.76	17	-5	P31	259.3401	-3.86	18	-6	R	6	259.7561	-2.76	25	-16	P	5	260.1426	-1.72	21	-10	Q13	260.1426	-1.72	21	-10	Q13		
257.6080	-3.60	17	-5	R41	258.3479	-2.05	26	-18	Q18	259.3425	-3.56	18	-6	R14	259.7573	-3.26	18	-6	R30	260.1480	-2.31	21	-10	P	8	260.1480	-2.31	21	-10	P	8		
257.6096	-2.66	26	-18	R	7	258.3544	-2.24	26	-18	R22	259.3505	-3.77	18	-6	R	8	259.7581	-3.19	17	-5	Q55	260.1586	-3.17	18	-6	R38	260.1586	-3.17	18	-6	R38		
257.6185	-3.14	26	-18	Q	1	258.3551	-2.47	26	-18	P15	259.3513	-3.81	18	-6	R	7	259.7619	-3.81	18	-6	P10	260.1721	-2.28	25	-16	P13	260.1721	-2.28	25	-16	P13		
257.6213	-3.47	17	-5	Q29	258.3623	-1.88	20	-9	P28	259.3514	-3.73	18	-6	R	9	259.7689	-2.16	25	-16	R14	260.1743	-1.76	21	-10	R23	260.1743	-1.76	21	-10	R23			
257.6271	-2.92	26	-18	Q	2	258.4074	-3.51	17	-5	R52	259.3549	-3.69	18	-6	R10	259.7776	-3.20	18	-6	Q18	260.1793	-1.69	21	-10	Q14	260.1793	-1.69	21	-10	Q14			
257.6275	-2.62	26	-18	R	8	258.4241	-3.32	17	-5	Q41	259.3566	-2.20	23	-13	Q14	259.7880	-2.08	25	-16	Q	9	260.1896	-3.51	18	-6	P19	260.1896	-3.51	18	-6	P19		
257.6347	-2.77	27	-20	Q19	258.4256	-3.75	17	-5	P32	259.3580	-3.54	18	-6	R15	259.7947	-2.66	25	-16	P	6	260.1928	-2.25	21	-10	P	9	260.1928	-2.25	21	-10	P	9	
257.6409	-2.77	26	-18	Q	3	258.4289	-2.03	26	-18	Q19	259.3629	-3.65	18	-6	R11	259.8000	-3.25	18	-6	R31	260.1924	-3.03	18	-6	Q27	260.1924	-3.03	18	-6	Q27			
257.6418	-4.08	16	-4	P51	258.4396	-2.44	26	-18	P16	259.3709	-3.92	18	-6	R	5	259.8018	-2.46	23	-13	P17	260.1945	-1.82	25	-16	Q17	260.1945	-1.82	25	-16	Q17			
257.6475	-2.66	26	-18	Q	4	258.4413	-2.22	26	-18	R23	259.3709	-3.92	18	-6	R	5	259.8062	-3.77	18	-6	P11	260.2017	-1.98	25	-16	R22	260.2017	-1.98	25	-16	R22		
257.6488	-1.60	20	-9	Q25	258.4528	-1.86	20	-9	P29	259.3730	-3.51	18	-6	R16	259.8075	-2.19	26	-18	P28	260.2025	-2.34	23	-13	P22	260.2025	-2.34	23	-13	P22				
257.6513	-2.58	26	-18	R	9	258.4965	-3.50	17	-5	R53	259.3753	-2.71	23	-13	P10	259.8094	-2.13	25	-16	R15	260.2085	-3.55	17	-5	P50	260.2085	-3.55	17	-5	P50			
257.6557	-3.94	17	-5	P21	258.5051	-3.31	17	-5	Q42	259.3809	-3.99	18	-6	R	4	259.8162	-3.18	18	-6	Q19	260.2151	-1.92	23	-13	Q27	260.2151	-1.92	23	-13	Q27			
257.6575	-3.62	26	-18	P	2	258.5173	-2.00	26	-18	Q20	259.3884	-3.49	18	-6	R17	259.8185	-2.01	23	-13	Q22	260.2172	-3.16	18	-6	R39	260.2172	-3.16	18	-6	R39			
257.6679	-2.05	20	-9	P19	258.5176	-3.73	17	-5	P33	259.3904	-4.07	18	-6	R	3	259.8250	-2.04	25	-16	Q10	260.2183	-1.66	21	-10	Q15	260.2183	-1.66	21	-10	Q15			
257.6686	-3.59	17	-5	R42	258.5286	-2.41	26	-18	P17	259.4013	-2.24	26	-18	P25	259.8324	-2.20	21	-10	R	7	260.2199	-1.74	21	-10	R24	260.2199	-1.74	21	-10	R24			
257.6736	-2.58	26	-18	Q	5	258.5336	-2.20	26	-18	R24	259.4040	-2.17	23	-13	Q15	259.8327	-2.25	21	-10	R	6	260.2205	-3.16	17	-5	Q59	260.2205	-3.16	17	-5	Q59		
257.6790	-2.54	26	-18	R10	258.5430	-1.85	20	-9	P30	259.4040	-4.17	18	-6	R	2	259.8345	-2.15	21	-10	R	6	260.2340	-2.20	21	-10	P10	260.2340	-2.20	21	-10	P10		
257.6811	-3.45	17	-5	Q30	258.5843	-3.49	17	-5	R54	259.4054	-3.47	18	-6	R18	259.8359	-2.31	21	-10	R	5	260.2414	-2.25	25	-16	P14	260.2414	-2.25	25	-16	P14			
257.6852	-3.15	27	-20	P17	258.5882	-3.30	17	-5	Q43	259.4199	-4.29	18	-6	R	1	259.8377	-2.58	25	-16	P	7	260.2478	-3.01	18	-6	Q28	260.2478	-3.01	18	-6	Q28		
257.6856	-3.32	26	-18	P	3	258.5918	-3.72	17	-5	P34	259.4229	-2.28	23	-13	R22	259.8396	-2.11	21	-10	R	9	260.2499	-3.49	18	-6	P20	260.2499	-3.49	18	-6	P20		
257.7004	-2.50	26	-18	Q	6	258.6092	-1.98	26	-18	Q21	259.4242	-3.45	18	-6	R19	259.8416	-2.38	21	-10	R	4	260.2611	-1.63	21	-10	Q16	260.2611	-1.63	21	-10	Q16		
257.7104	-2.50	26	-18	R11	258.6224	-2.39	26	-18	P18	259.4266	-2.66	23	-13	P11	259.8453	-3.24	18	-6	R32	260.2627	-1.79	25	-16	Q18	260.2627	-1.79	25	-16	Q18				
257.7125	-1.59	20	-9	Q26	258.6276	-2.19	26	-18	R25	259.4299	-3.61	17	-5	P43	259.8469	-2.09	27	-20	P10	260.2676	-1.72	21	-10	R25	260.2676	-1.72	21	-10	R25				
257.7156	-3.92	17	-5	P22	258.6395	-1.83																											

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WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ	WAVE	LOGGF	VX	VA	XJ
-260.7006	-3.51	17	-5	P54	261.3818	-6.59	15	-2	Q16	262.1046	-3.46	19	-7	R 6	262.6361	-4.67	24	14	P 3	263.1551	-3.86	24	14	P14
-260.7058	-3.09	18	-6	R46	261.3834	-1.74	21	-10	P27	262.1113	-3.18	19	-7	R13	262.6375	-2.75	19	-7	Q20	263.1604	-2.76	22	11	P 3
-260.7230	-3.35	18	-6	P27	-261.3858	-3.24	18	-6	P35	262.1120	-3.51	19	-7	R 5	262.6458	-3.28	19	-7	P13	263.1637	-3.04	19	-7	P22
260.7364	-2.08	25	16	P20	261.4066	-6.57	15	-2	Q17	262.1210	-3.16	19	-7	R14	-262.6471	-3.11	18	-6	P47	263.1651	-1.89	22	11	Q 7
260.7452	-1.45	21	10	Q25	-261.4061	-3.02	18	-6	R54	262.1216	-3.58	19	-7	R 4	262.6496	-3.77	24	14	R14	263.1683	-1.79	22	11	R17
-260.7466	-1.61	21	10	R33	261.4120	-7.26	15	-2	P 8	262.1274	-6.75	15	-2	P24	262.6517	-2.04	28	-21	Q19	263.1740	-2.86	29	23	P 3
260.7470	-1.90	21	10	P19	261.4315	-6.54	15	-2	Q18	262.1326	-3.66	19	-7	R 3	262.6549	-3.80	24	-14	Q 7	263.1759	-3.46	29	23	P 6
260.7563	-1.67	25	16	Q24	-261.4346	-2.82	18	-6	Q44	262.1328	-3.13	19	-7	R15	-262.6629	-2.83	19	-7	R32	-263.1759	-2.57	19	-7	Q30
-260.7698	-2.90	18	-6	Q36	261.4456	-7.21	15	-2	P 9	-262.1350	-2.76	18	-6	Q51	262.6668	-4.50	24	-14	P 4	263.1806	-2.81	29	23	Q 4
-260.7842	-3.08	18	-6	R47	261.4585	-6.52	15	-2	Q19	262.1461	-3.76	19	-7	R 2	262.6753	-2.43	28	-21	P17	263.1832	-2.33	28	-21	P21
260.7895	-2.23	23	-13	P28	-261.4648	-1.31	21	-10	Q34	262.1464	-3.10	19	-7	R16	262.6812	-6.60	15	-2	P33	263.1870	-1.83	22	11	Q 8
-260.7988	-3.34	18	-6	P28	261.4772	-1.72	21	-10	P28	262.1619	-3.88	19	-7	R 1	262.6814	-3.75	24	-14	Q 8	263.1899	-2.59	22	11	P 4
260.8139	-1.43	21	10	Q26	-261.4785	-3.22	18	-6	P36	262.1621	-3.08	19	-7	R17	262.6816	-2.73	19	-7	Q21	263.1933	-3.38	24	-14	Q19
260.8192	-1.87	21	10	P20	261.4806	-7.16	15	-2	P10	262.1627	-2.17	28	-21	Q14	262.6822	-3.75	24	-14	R15	263.1973	-3.54	24	-14	R25
-260.8326	-3.51	17	-5	P55	261.4869	-6.50	15	-2	Q20	262.1771	-2.59	28	-21	P12	262.6950	-3.25	19	-7	P14	263.1986	-2.72	29	23	Q 5
260.8329	-2.06	25	16	P21	-261.4986	-3.01	18	-6	R55	262.1792	-4.06	19	-7	R 0	262.6999	-4.37	24	-14	P 5	263.2010	-1.76	22	11	R18
-260.8445	-2.89	18	-6	Q37	-261.5121	-3.47	17	-5	P60	262.1803	-3.06	19	-7	R18	-262.7064	-2.71	18	-6	O56	263.2113	-1.79	22	11	Q 9
-260.8675	-3.07	18	-6	R48	261.5166	-6.48	15	-2	Q21	262.1874	-2.35	28	-21	R17	262.7115	-3.70	24	-14	Q 9	263.2157	-2.81	29	23	R 7
-260.8741	-3.32	18	-6	P29	261.5174	-7.11	15	-2	P11	262.1876	-6.73	15	-2	P25	-262.7165	-2.82	19	-7	R33	-263.2194	-2.73	19	-7	R41
260.8865	-1.41	21	10	Q27	-261.5225	-2.81	18	-6	Q45	-262.1893	-3.14	18	-6	P43	262.7180	-3.72	24	-14	R16	263.2217	-3.29	29	23	P 4
260.8921	-1.85	21	10	P21	261.5426	-3.03	28	-21	R 2	262.2007	-3.04	19	-7	R19	262.7281	-2.71	19	-7	Q22	263.2221	-2.46	22	11	P 5
-260.9220	-2.88	18	-6	Q38	261.5453	-3.15	28	-21	R 1	-262.2008	-1.62	21	-10	P35	262.7371	-4.28	24	-14	P 6	263.2224	-3.83	24	-14	P15
260.9331	-2.04	25	16	P22	261.5456	-2.93	28	-21	R 3	262.2011	-3.88	19	-7	Q 1	262.7448	-3.65	24	-14	Q10	263.2322	-3.02	19	-7	P23
-260.9481	-3.06	18	-6	R49	261.5483	-6.46	15	-2	Q22	262.2056	-3.66	19	-7	Q 2	262.7458	-3.21	19	-7	P15	263.2357	-1.74	22	11	R19
-260.9568	-3.31	18	-6	P30	261.5525	-3.33	28	-21	R 0	262.2117	-3.51	19	-7	Q 3	262.7567	-3.70	24	-14	R17	263.2388	-1.74	22	11	Q10
-260.9632	-3.50	17	-5	P56	261.5542	-2.85	28	-21	R 4	262.2201	-3.41	19	-7	Q 4	-262.7630	-3.10	18	-6	P48	-263.2431	-2.56	19	-7	Q31
-260.9730	-1.40	21	10	Q28	261.5555	-7.07	15	-2	P12	262.2229	-3.02	19	-7	R20	262.7683	-2.02	28	-21	Q20	263.2570	-2.37	22	11	P 6
260.9730	-1.83	21	10	P22	261.5684	-2.79	28	-21	R 5	262.2310	-3.32	19	-7	Q 5	-262.7748	-2.80	19	-7	R34	263.2571	-2.65	29	23	Q 6
-261.0012	-2.87	18	-6	Q39	261.5721	-3.15	28	-21	Q 1	262.2432	-3.25	19	-7	Q 6	262.7769	-2.69	19	-7	Q23	263.2623	-1.36	24	-14	Q20
261.0199	-6.88	15	-2	R15	-261.5727	-3.21	18	-6	P37	262.2448	-4.36	19	-7	P 2	262.7776	-2.40	24	-14	P 7	263.2629	-1.70	22	11	Q11
261.0202	-6.91	15	-2	R14	261.5816	-6.44	15	-2	Q23	262.2476	-3.00	19	-7	R21	262.7808	-3.61	24	-14	Q11	263.2630	-2.76	29	23	R 8
261.0214	-6.93	15	-2	R13	261.5846	-2.93	28	-21	Q 2	-262.2481	-2.75	18	-6	O52	262.7929	-2.40	28	-21	P18	-263.2655	-3.06	18	-6	P52
261.0215	-6.85	15	-2	R16	261.5884	-2.73	28	-21	R 6	262.2488	-2.14	28	-21	Q15	262.7992	-3.18	19	-7	P16	263.2679	-3.53	24	-14	R26
261.0243	-6.96	15	-2	R12	-261.5943	-1.71	21	-10	P29	262.2576	-3.18	19	-7	Q 7	262.7993	-3.67	24	-14	R18	263.2723	-1.72	22	11	R20
261.0244	-6.83	15	-2	R17	261.5947	-7.03	15	-2	P13	262.2622	-6.71	15	-2	P26	-262.8167	-2.79	19	-7	R35	-263.2775	-2.72	19	-7	R42
261.0283	-7.00	15	-2	R11	261.6015	-2.79	28	-21	Q 3	262.2650	-2.55	28	-21	P13	262.8209	-4.13	24	-14	P 8	263.2787	-3.16	29	23	P 5
261.0289	-6.81	15	-2	R18	261.6114	-3.63	28	-21	P 2	262.2713	-4.06	19	-7	P 3	262.8214	-3.58	24	-14	Q12	263.2931	-3.80	24	-14	P16
261.0344	-7.03	15	-2	R10	261.6134	-2.68	28	-21	R 7	262.2742	-3.13	19	-7	Q 8	262.8274	-2.67	19	-7	Q24	263.2950	-2.29	22	11	P 7
-261.0348	-3.05	18	-6	R50	261.6160	-6.42	15	-2	Q24	262.2746	-2.98	19	-7	R22	262.8474	-3.65	24	-14	R19	263.3007	-1.67	22	11	Q12
-261.0348	-6.79	15	-2	R19	-261.6210	-2.80	18	-6	Q46	262.2775	-2.33	28	-21	R18	262.8547	-3.16	19	-7	P17	263.3029	-3.00	19	-7	P24
261.0348	-1.81	21	10	P23	261.6241	-2.68	28	-21	Q 4	262.2876	-6.69	15	-2	P27	262.8643	-3.54	24	-14	P13	263.3113	-2.59	29	23	Q 7
-261.0349	-1.38	21	10	Q29	261.6359	-7.00	15	-2	P14	262.2925	-3.08	19	-7	Q 9	262.8682	-4.07	24	-14	Q 9	263.3124	-1.70	22	11	R21
-261.0379	-3.29	18	-6	P31	261.6435	-3.33	28	-21	P 8	262.2992	-3.88	19	-7	P 4	262.8809	-2.65	19	-7	Q25	-263.3132	-2.55	19	-7	Q32
261.0383	-2.02	25	16	P23	261.6441	-2.63	28	-21	R 8	-262.3002	-3.13	18	-6	P44	-262.8816	-2.78	19	-7	R36	263.3164	-3.07	29	23	P 6
261.0416	-7.07	15	-2	R 9	261.6523	-2.59	28	-21	Q 5	262.3033	-2.96	19	-7	R23	-262.8848	-3.09	18	-6	P49	263.3204	-2.72	29	23	R 1
261.0427	-6.77	15	-2	R20	261.6530	-6.40	15	-2	Q25	262.3136	-3.04	19	-7	Q10	262.8966	-3.63	24	-14	R20	263.3322	-3.34	24	-14	Q21
261.0501	-7.11	15	-2	R 8	-261.6581	-3.46	17	-5	P61	262.3295	-3.76	19	-7	P 5	262.9108	-3.51	24	-14	Q14	263.3356	-2.22	22	11	P 8
261.0521	-6.75	15	-2	R21	261.6681	-1.69	21	-10	P30	262.3349	-2.96	19	-7	R24	262.9121	-3.13	19	-7	P18	263.3383	-1.63	22	11	Q13
261.0604	-7.16	15	-2	R 7	-261.6696	-3.20	18	-6	P38	262.3363	-3.00	19	-7	Q11	262.9167	-2.38	28	-21	P19	263.3388	-3.51	24	-14	R27
261.0634	-6.73	15	-2	R22	261.6783	-0.96	15	-2	P15	262.3402	-2.11	28	-21	Q16	262.9190	-4.02	24	-14	P10	263.3555	-1.68	22	11	R22
261.0721	-7.21	15	-2	R 6	261.6800	-3.15	28	-21	P 4	-262.3530	-2.74	18	-6	O53	262.9355	-2.64	19	-7	Q26	-263.3561	-2.71	19	-7	R43
261.0785	-6.71	15	-2	R23	261.6818	-2.59	28	-21	R 9	262.3548	-6.68	15	-2	P28	-262.9463	-2.77	19	-7	R37	263.3672	-3.77	24	-14	P17
-261.0831	-2.86	18	-6	Q40	261.6862	-2.52	28	-21	Q 6	262.3586	-2.52	28	-21	P14	262.9518	-3.61	24	-14	R21	263.3727	-2.53	29	23	Q 8
261.0841	-7.26	15	-2	R 5	261.6921	-6.39	15	-2	Q26	262.3612	-2.96	19	-7	Q12	262.9606	-3.48	24	-14	Q15	263.3754	-2.98	19	-7	P25
261.0884	-6.68	15	-2	R25	-261.7187	-2.79	18	-6	Q47	262.3623	-3.66	19	-7	P 6	262.9715	-3.10	19	-7	P19	263.3766	-1.60	22	11	Q14
-261.0955	-3.49	17	-5	P57	261.7																			

Table 7. (Cont.)

Table with columns: WAVE, LOGGF, VX VA, XJ, WAVE, LOGGF, VX VA, XJ, WAVE, LOGGF, VX VA, XJ. Contains astronomical data points with numerical values and identifiers.

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Table 7. (Cont.)

Table with columns: WAVE, LOGGF, VX VA, XJ, WAVE, LOGGF, VX VA, XJ, WAVE, LOGGF, VX VA, XJ, WAVE, LOGGF, VX VA, XJ. It contains multiple rows of numerical data.

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Table with columns: WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ, WAVE, LOGGF, VX VA XJ. Contains astronomical data for various wavelengths and flux densities.

Table 7. (Cont.)

Table with 16 columns: WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ. The table contains astronomical data for various celestial objects, organized in 16 columns.

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Table 7. (Cont.)

Table with 20 columns: WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ, WAVE, LOGGF, VX, VA, XJ. Contains astronomical data entries in a tabular format.

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