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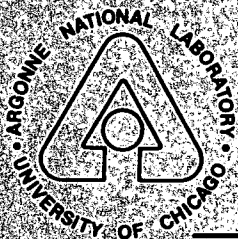
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THE ATOMIC SPECTRUM OF PLUTONIUM

by

Jean Blaise, Mark Fred,
and Ralph G. Gutmacher

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THE ATOMIC SPECTRUM OF PLUTONIUM

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This report contains plutonium wavelengths, energy level classifications, and other spectroscopic data accumulated over the past twenty years at Laboratoire Aime Cotton (LAC), Argonne National Laboratory (ANL), and Lawrence Livermore National Laboratory (LLNL). The primary purpose was term analysis: deriving the energy levels which account for the observed spectrum lines, interpreting the levels in terms of quantum numbers and electron configurations, and evaluating the Slater-Condon and other parameters from the levels.

The measurements have undergone a continuous revision since 1962, starting with photographic exposures of ^{240}Pu on the Argonne 9 meter spectrograph, supplemented by infrared Fourier Transform (FT) at LAC. The spectra were produced by microwave electrodeless discharge tubes operating in a resonant cavity. In addition to wavelengths it was essential for the analysis to obtain Zeeman data (J- and g-values) and isotope shifts. The Zeeman patterns were measured on photographic exposures taken on the Argonne spectrograph with a magnetic field of 24000 gauss produced by a well regulated NMR magnet. The isotope shifts (240-239) were measured on exposures of separated isotopes or mixtures of separated isotopes.

The term analysis began with the Zeeman data for the strong lines, which were expected to be transitions to low levels. The lowest configuration for Pu I was expected to be $5f^67s^2$, lowest term 7F having a g-value of 1.5 for all levels except for the lowest level with $J=0$. This is what was found, so the analysis was begun by inspection. The data were entered on punched cards, from which listings could be made. This enabled typographic errors to be revealed and new levels discovered by computer searching. The Zeeman and isotope shift data could also be verified.

The present line list contains 30000 lines, of which slightly more than half have been classified as shown in Table I. The levels are shown in Table II, described in more detail in a companion manuscript to be published in the Journal of Optical Society of America B.

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NOTES TO TABLE I.

<u>COLUMN</u>	<u>HEADING</u>	<u>ENTRY/INTERPRETATION</u>
1	C	Blank:Line unclassified (no levels) 1:Line classified with Pu I levels 2:Line classified with Pu II levels
2	WAVENUMBER	Wavenumber of line in cm^{-1}
3	I	Intensity: 0=0 1=1 2=3 3=10 4=30 5=100 6=300 7=1000 8=3000 9=10000 Shape: S=sharp R=reversed B=blend W=wide H=high J L=low J C=complex P=peculiar U=unsymmetrical
4	T2	Odd level, in cm^{-1}
5	T1	Even level, in cm^{-1}
6	O-C	Calculated error, in $\text{cm}^{-1} \times 10^{-3}$
7	OBS/J2	Observed J value of T2, from Zeeman data
8	OBS/J1	Observed J value of T1, from Zeeman data
9	TERM/J2	Assigned J value of T2
10	Term/J1	Assigned J value of T1
11	OBS/G2	Observed g-value of T2
12	OBS/G1	Observed g-value of T1

<u>COLUMN</u>	<u>HEADING</u>	<u>ENTRY/INTERPRETATION</u>
13	OBS/DG	(Observed difference of g-values) x 10 ⁻³
14	TERM/G2	Assigned g-value of T2
15	TERM/G1	Assigned g-value of T1
16	TERM/DG	(Difference of assigned g-values) x 10 ⁻³
17	OBS/IS	Observed isotope shift in cm ⁻¹ x 10 ⁻³
18	TERM/IS	(Upper level IS - lower level IS) in cm ⁻¹ x 10 ⁻³
19	WAVELENGTH	Wavelength in Å
20	NOTES	Q Value or interpretation questionable * Value approximate or perturbed f 1/2 Separation of peak sigma Zeeman components f Fourier transform value H High J L Low J 2JDG Total width of π Zeeman pattern DJ1 |J2-J1| = 1 DJ0 |J2-J1| = 0 SI Shade in, σ Zeeman pattern SO Shade out, σ Zeeman pattern SOO Shade out with overlapping TRIPL Triplet Zeeman pattern PB Paschen-Back Zeeman pattern C2 Line doubly classified C3 Line triply classified B Blend I Pu I line II Pu II line SP Pu II line 239 Pu 239 Q MN Q Manganese Q ZR Q Zirconium Q TI Q Titanium Q Fe Q Iron Q Ni Q Nickel Q SN Q Tin Q CU Q Copper Q



TABLE I. Plutonium Spectrum Lines

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
2	42713.378	3	8198.666-50912.115	-71	.	.	.	.	2.5- 3.5	.	.	.	.	0.414	0.950*	536	.	.	2340.4696	
	42542.945	1																	2349.8467	
	42209.022	2																	2368.4383	
	42172.703	1																	2370.4781	
	42130.957	1																	2372.8271	
	42122.556	2																	2373.3004	
	42097.429	2																	2374.7171	
	42097.351	1																	2374.7215	
	42069.937	2																	2376.2690	
	42004.408	1																	2379.9764	
	41995.533	1																	2380.4794	
	41944.493	1																	2383.3764	
	41925.513	2																	2384.4551	
	41834.505	1																	2386.7902	
	41881.475	1																	2386.9628	
	41844.357	2																	2389.0804	
	41802.092	3																	2391.4961	
	41744.696	1																	2394.7845	
	41742.412	1																	2394.9155	
2	41722.837	7	10436.770-52159.630	-23	.	.	.	.	4.5- 3.5	.	.	.	.	0.724	0.000	0	.	.	2396.0392	
2	41711.774	3	41711.780- 0.000	-6	.	.	.	.	1.5- 0.5	.	.	.	.	1.130	3.150*	2020	.	.	2396.6748	HVLQ
2	41705.644	3	8198.666-49904.305	5	2.5-	3.5	2.5-	3.5						0.414	0.000*	0			2397.0271	SI
	41682.997	3																	2398.3295	
	41663.739	1																	2399.4382	
	41630.539	1																	2401.3518	
	41618.033	1																	2402.0735	
	41596.950	1																	2403.2911	
	41575.025	3																	2404.5586	
	41559.780	2H																	2405.4407	
2	41554.349	3	8198.666-49753.063	-48	.	.	.	.	2.5- 3.5	.	.	.	.	0.414	1.000*	586	.	.	2405.7551	
2	41543.810	3	8198.666-49742.440	36	.	.	.	.	2.5- 3.5	.	.	.	.	0.414	0.975	561	.	.	2406.3654	
	41462.160	1																	2411.1046	
	41443.641	1																	2412.1820	
	41424.206	2																	2413.3139	
2	41398.573	1	8709.640-50058.235	-22	.	.	.	.	3.5- 3.5	.	.	.	.	0.308	1.000*	692	.	.	2417.7285	
	41303.524	1																	2420.3657	
	41222.772	2																	2421.5824	
	41260.065	1																	2422.9152	
	41211.111	2																	2425.7936	
2	41194.618	1	8709.640-49904.305	-47	.	.	.	.	3.5- 3.5	.	.	.	.	0.308	0.000*	0	.	.	2426.7649	
	41192.020	2																	2426.9179	
	41188.183	1																	2427.1441	
2	41186.020	2	8198.666-49384.725	-39	.	.	.	.	2.5- 2.5	.	.	.	.	0.414	0.930*	516	.	.	2427.2715	
2	41157.174	1	44392.825- 3235.770	119	.	.	.	.	1.5- 0.5	.	.	.	.	0.950	0.299*	651	.	.	2428.9729	CQ
	41149.729	1																	2429.4124	
2	41133.936	2	41133.945- 0.000	-9	.	.	.	.	1.5- 0.5	.	.	.	.	1.210	3.150*	1940	.	.	2430.3452	
	41103.744	3																	2431.8346	
	41092.741	1																	2432.7818	
	41069.177	1																	2434.1777	
2	41062.187	1	41062.170- 0.000	17	.	.	.	.	1.5- 0.5	.	.	.	.	1.425	3.150	1725	.	.	2434.5921	
2	41043.430	1	8709.640-49753.063	57	.	.	.	.	3.5- 3.5	.	.	.	.	0.308	1.000*	692	.	.	2435.7018	
	41039.109	1																	2435.9613	
	41037.026	2																	2436.0849	
2	41034.739	2	8198.666-49233.475	-20	.	.	.	.	2.5- 3.5	.	.	.	.	0.414	0.980*	566	.	.	2436.2177	
2	41021.526	1	44257.315- 3235.770	-19	.	.	.	.	1.5- 0.5	.	.	.	.	1.185	0.299	886	.	.	2437.0055	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	G2		G1	DG	G2	G1	DG	IS	IS		
	41013.354	1																	2437.4911	
	41003.055	3																	2438.1034	
	40796.677	2																	2438.4827	
2	40979.154	2	8198.666	-	49177.890	-30	.	.	2.5- 3.5					0.414	1.040*	626			2439.5231	
	40963.323	1																	2440.1705	
	40912.575	1																	2443.4958	
	40909.953	2																	2443.6524	
	40908.429	3																	2443.7434	
	40885.908	1																	2445.0896	
	40883.699	1																	2445.2217	
	40860.718	2																	2446.5971	
	40857.718	2																	2446.7767	
	40850.521	1																	2447.2078	
	40837.380	1																	2447.9954	
	40832.130	3																	2448.3101	
	40797.053	1																	2450.4153	
	40788.451	2																	2450.9315	
	40786.913	3																	2451.0246	
	40773.728	1																	2451.8136	
	40770.720	1																	2451.9981	
2	40760.941	0	42775.870-		2014.966	37	.	.	2.5- 1.5					1.180	1.881	701			2452.5864	CQ
	40723.479	2																	2454.8427	
	40683.422	1																	2457.4412	
	40679.659	1																	2457.4873	
2	40675.033	2	8709.640	-	49384.725	-2	3.5-	2.5	3.5- 2.5	.31	.93	.62		0.308	0.930*	622			2457.7638	
	40656.574	2																	2458.8828	
2	40655.535	4	11504.095	-	52159.630	0	3.5-	3.5	3.5- 3.5			.066		0.859	0.000	0			2458.9456	DJO
	40653.665	6																	2459.0587	
	40650.509	1																	2459.2497	
	40645.098	3																	2459.5771	
	40639.606	1																	2459.9095	
	40635.212	3																	2460.1755	
	40625.461	2																	2460.7660	
	40621.361	4																	2461.0144	
	40618.973	1																	2461.1591	
	40616.843	1																	2461.2882	
	40607.894	1																	2461.8306	
	40605.693	3																	2461.9641	
	40593.202	3																	2462.7217	
	40587.790	5																	2463.0501	SO
	40572.134	2																	2463.9976	
2	40563.960	6	8198.666	-	48762.625	1	2.5-	3.5	2.5- 3.5	.40	.82	.42		0.414	0.820*	406			2464.4972	
	40558.991	2																	2464.7991	
	40557.738	1																	2464.8753	
2	40523.844	3	8709.640	-	49233.475	9	.	.	3.5- 3.5					0.308	0.980*	672			2466.9371	
	40512.009	1																	2467.6578	
	40506.527	1																	2467.9918	
	40500.556	3																	2468.3557	
2	40475.346	6	10436.770	-	50912.115	1	4.5-	3.5	4.5- 3.5	.72	.95	.23		0.724	0.950*	226			2469.8932	
	40474.824	3																	2469.9250	
2	40468.232	4	8709.640	-	49177.890	-18	3.5-	3.5	3.5- 3.5	.31	1.04	.73		0.308	1.040*	732			2470.3274	
	40466.938	4																	2470.4052	
	40447.880	1																	2471.5705	
	40432.617	1																	2472.5035	
2	40427.775	0	56714.368	-	16286.582	-11	.	.	1.5- 0.5					0.000-0.122		0			2472.7997	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG			IS	IS
	40416.836	4															2473.4690	
2	40393.423	5	8709.640-49103.065		-2		3.5-	2.5	3.5-	2.5	.305	.955	.650	0.308	0.955	647	2474.9028	
	40386.410	3															2475.3326	
	40383.879	3															2475.4877	
	40358.942	2															2477.0174	
2	40355.046	4	8198.666-48553.715		-3		.	.	2.5-	2.5	.	.	.	0.414	0.640*	226	2477.2566	
2	40344.950	3	8709.640-49054.605		-15		.	.	3.5-	4.5	.	.	.	0.308	1.020*	712	2477.8765	
	40331.984	1															2478.6732	
2	40331.973	1	40331.990-	0.000	-17		.	.	0.5-	0.5	.	.	.	1.920	3.150*	1230	2478.6738	
	40321.007	3															2479.3480	
	40299.392	3															2480.6779	
	40293.788	1															2481.0230	
	40283.324	4					3.5-	2.5			.31	.99	.68				2481.6675	
2	40279.633	5	8198.666-48478.270	29			2.5-	3.5	2.5-	3.5	.415	.970	.555	0.414	0.970	556	2481.8949	
	40268.449	4															2482.5843	
	40262.144	1															2482.9730	
	40257.211	7															2483.2773	
2	40254.571	1	40254.585-	0.000	-14		.	.	1.5-	0.5	.	.	.	1.140	3.150*	2010	2483.4402	
2	40253.737	2	8709.640-48963.485-108				.	.	3.5-	4.5	.	.	.	0.308	1.055	747	2483.4917	CQ
	40243.285	1															2484.1367	
	40235.710	2															2484.6044	
	40235.158	4															2484.6385	
	40234.451	2															2484.6822	
	40215.527	3															2485.8515	
	40212.851	1															2486.0169	
	40210.502	1															2486.1621	
2	40201.047	6	8198.666-48399.780	-67			2.5-	3.5	2.5-	3.5	.415	.950	.535	0.414	0.950	536	2486.7469	
	40199.753	2															2486.8270	
	40179.530	1															2488.0787	
	40171.821	2															2488.5562	
	40171.608	4															2488.5694	
	40167.784	2															2488.8063	
	40161.193	2															2489.2148	
	40145.085	1															2490.2137	
	40143.065	1															2490.3390	
	40138.108	6H															2490.6465	
	40134.400	6									-0.28						2490.8767	f 500
	40124.700	4															2491.4789	
	40120.686	3															2491.7282	
	40103.792	1															2492.7779	
	40034.530	3															2493.9758	
	40065.370	2															2495.1686	
2	40052.977	1	8709.640-48762.625	-8			.	.	3.5-	3.5	.	.	.	0.308	0.820*	512	2495.9407	
2	40051.424	2	43287.195- 3235.770	-1			.	.	1.5-	0.5	.	.	.	1.205	0.299	906	2496.0375	
	40046.862	1															2496.3218	
	40038.964	1															2496.8143	
	40035.529	1															2496.9661	
2	40035.444	2	42050.415- 2014.965	-5			.	.	1.5-	1.5	.	.	.	1.180	1.881*	701	2497.0338	C2Q
2	40035.444	2	40035.490-	0.000	-46		.	.	1.5-	0.5	.	.	.	1.180	3.150*	1970	2497.0338	C2Q
	40028.275	3															2497.4811	
2	40028.024	5	8709.640-48737.664	0			3.5-	2.5	3.5-	2.5	.31	.97	.66	0.308	0.970*	662	2497.4967	
	40020.513	1															2497.9655	
	40017.329	3															2498.1643	
2	40014.651	5	8198.666-48213.315	2			2.5-	3.5	2.5-	3.5	.41	1.04	.63	0.414	1.040*	626	2498.3315	
	40013.071	1															2498.4301	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		TERM	IS	IS	HAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1						DG	IS	IS
	40012.261	1																				2498.4307		
	40008.293	1																					2498.7285	
	39998.116	1																					2499.3643	
	39989.641	1																					2499.8941	
	39977.577	4																					2500.6485	
	39977.229	3																					2500.6703	
	39969.745	3																					2501.1385	
2	39968.648	4	56714.368	-	16745.720	0	1.5-	2.5	1.5-	2.5		1.65	.83	0.000	1.671	0						2501.2072	f	
	39966.492	1																					2501.3421	
	39962.130	4					4.5-	4.5					255										2501.6152	2JDG
	39953.882	1																					2502.1316	
2	39952.738	7	8198.666	-	48151.405	-1	2.5-	3.5	2.5-	3.5	.415	1.010	.595	0.414	1.010	596						2502.2033		
2	39940.361	4	11504.095	-	51444.460	-4	.	.	3.5-	2.5				0.859	0.910*	51						2502.9787		
	39936.848	4																					2503.1989	
	39930.170	3																					2503.6176	
2	39924.115	1	41939.060	-	2014.966	21	.	.	2.5-	1.5				1.030	1.881*	851						2503.9973		
	39915.017	2																					2504.5681	
	39912.133	2																					2504.7460	
2	39910.013	1	8709.640	-	48619.650	3	.	.	3.5-	4.5				0.308	1.000*	692						2504.8822		
2	39892.365	4	8198.666	-	48091.025	6	2.5-	2.5	2.5-	2.5	.41	1.11	.70	0.414	1.100	686						2505.9904		
	39889.098	3																					2506.1956	
	39868.368	2																					2507.4988	
	39867.069	3																					2507.5805	
2	39860.746	1	43830.510	-	3969.846	82	.	.	3.5-	2.5				1.020	1.670*	650						2507.9783		
	39860.242	2																					2508.0101	
	39851.117	3																					2508.5844	
	39819.193	3																					2508.7055	
2	39844.107	7	8709.640	-	48553.715	32	3.5-	2.5	3.5-	2.5	.31	.65	.34	0.308	0.640*	332						2509.0258		
	39826.503	4									1.80		.95										2510.1349	f SI2JDG
	39815.363	2																					2510.8372	
	39813.133	3																					2510.9779	
	39810.820	2																					2511.1238	
	39810.316	2																					2511.1556	
	39809.505	3																					2511.2067	
	39799.872	2																					2511.8146	
	39799.500	2																					2511.8380	
	39797.202	4																					2511.9831	
2	39794.702	7	8709.640	-	48504.345	-3	3.5-	2.5	3.5-	2.5	.31	.79	.48	0.308	0.790*	482						2512.1409		
	39792.254	2																					2512.2955	
	39779.646	2																					2513.0918	
	39763.640	4																					2514.1034	
	39754.138	3																					2514.7044	
	39742.746	2																					2515.4253	
	39732.680	4																					2516.0626	
	39729.019	4																					2516.2945	
	39723.514	2																					2516.6432	
2	39704.363	2	39704.305	-	0.000	58	.	.	1.5-	0.5				1.220	3.150*	1930						2517.8572		
2	39701.557	1	45203.680	-	5502.060	-63	.	.	2.5-	1.5				1.150	1.169*	19						2518.0351		
2	39696.770	1	41711.780	-	2014.966	-44	.	.	1.5-	1.5				1.130	1.881*	751						2518.3388		
2	39695.669	4	12048.548	-	51744.190	27*	1.5-	1.5	1.5-	1.5	-0.05	.75	.80	-0.054	0.750*	804						2518.4086		
	39688.837	3																					2518.8422	
2	39687.806	2	45405.840	-	5717.976	22	.	.	4.5-	3.5				1.090	1.596*	506						2518.9025		
	39681.995	3																					2519.2765	
	39681.132	3					4.5-	4.5															2519.3313	
	39679.053	4																					2519.4633	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	D6	G2	G1			D6	IS	IS
	39678.663	4																	2519.4881	
2	39673.428	6	8198.666	-	47872.094	0	2.5-	1.5	2.5-	1.5	.41	.76	.35	0.414	0.760*	346			2519.8206	
	39662.718	3																	2520.5010	
	39662.217	4																	2520.5329	
2	39631.070	1	8709.640	-	48340.695	15	.	.	3.5-	4.5	.	.	.	0.308	1.260*	952			2522.5139	
	39625.774	6																	2522.8511	FE I
2	39621.498	6	10436.770	-	50053.235	33	4.5-	3.5	4.5-	3.5	.72	1.00	.28	0.724	1.000*	276			2523.1234	
2	39611.935	5	8198.666	-	47810.565	36	2.5-	3.5	2.5-	3.5	.415	1.160	.745	0.414	1.160	746			2523.7326	
	39609.522	3																	2523.8863	
2	39606.528	1	41621.445	-	2014.966	49	.	.	2.5-	1.5	.	.	.	1.065	1.881	816			2524.0771	
	39591.133	3																	2525.0587	
	39576.072	4																	2526.0197	
	39573.108	3																	2526.2089	
	39560.852	1																	2526.9915	
2	39559.242	1	43529.065	-	3969.846	23	.	.	1.5-	2.5	.	.	.	1.040	1.670*	630			2527.0944	
	39553.898	3																	2527.4359	
2	39553.339	1	42789.075	-	3235.770	34	.	.	1.5-	0.5	.	.	.	1.215	0.299	916			2527.4716	
	39538.373	6																	2528.4283	
	39537.072	0																	2528.5115	SILICONQ
	39530.430	3																	2528.9364	
	39511.942	3																	2530.1198	
2	39510.275	3	39510.275	-	0.000	0	0.5-	0.5	0.5-	0.5	.29	3.15	2.86	0.290	3.150*	2860			2530.2266	
2	39488.353	3	8198.666	-	47687.019	0	2.5-	2.5	2.5-	2.5	.	.	.	0.414	0.000*	0			2531.6313	
	39477.116	3					1.5-	0.5			1.05	.30	.75						2532.3520	
	39471.751	4																	2532.6962	
2	39467.547	4	10436.770	-	49904.305	12	.	.	4.5-	3.5	.	.	.	0.724	0.000*	0			2532.9660	
2	39446.369	3	8709.640	-	48156.010	-1	3.5-	2.5	3.5-	2.5	.31	.93	.62	0.308	0.920	612			2534.3260	
2	39441.759	2	8709.640	-	48151.405	-6	.	.	3.5-	3.5	.	.	.	0.308	1.010	702			2534.6222	
2	39439.490	2	8709.640	-	48149.055	75	.	.	3.5-	3.5	.	.	.	0.308	0.980*	672			2534.7680	
	39426.925	3																	2535.5759	
2	39408.062	3	11504.095	-	50912.115	42	.	.	3.5-	3.5	.	.	.	0.859	0.950*	91			2536.7897	DJO
2	39381.412	5	8709.640	-	48091.025	27	3.5-	2.5	3.5-	2.5	.31	1.10	.79	0.308	1.100	792			2538.5065	
	39375.348	4																	2538.8974	
2	39336.970	1	39336.975	-	0.000	-5	.	.	1.5-	0.5	.	.	.	0.780	3.150*	2370			2541.3746	
2	39316.293	5	10436.770	-	49753.063	0	4.5-	3.5	4.5-	3.5	.72	1.00	.28	0.724	1.000*	276			2542.7112	
2	39310.806	1	41325.730	-	2014.966	42	.	.	0.5-	1.5	.	.	.	0.560	1.881*	1321			2543.0662	
2	39305.773	4	8709.640	-	48015.425	-12	3.5-	3.5	3.5-	3.5	.31	1.08	.77	0.308	1.080*	772			2543.3918	
	39303.029	3																	2543.5694	
	39293.410	4																	2544.1921	
	39292.679	4																	2544.2394	
2	39282.818	4	8198.666	-	47431.485	-1	2.5-	3.5	2.5-	3.5	.415	1.000	.585	0.414	1.000	586			2544.8782	
2	39279.664	2	41294.660	-	2014.966	-30	.	.	2.5-	1.5	.	.	.	1.180	1.881	701			2545.0825	
	39272.002	4																	2545.5791	
	39271.770	4																	2545.5941	
	39271.136	4																	2545.6352	
	39264.164	4																	2546.0873	
	39220.184	4																	2548.9425	
	39218.153	3																	2549.0746	
	39213.084	3																	2549.4041	
	39195.906	3																	2550.5215	
	39192.968	3																	2550.7127	
	39183.269	3																	2551.3441	
	39170.298	4																	2552.1890	
2	39166.960	1	12992.644	-	52159.630	-26	.	.	2.5-	3.5	.	.	.	0.643	0.000	0			2552.4065	
	39162.876	3																	2552.6727	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
	39158.955	3																	2552.9283	
	39156.585	6																	2553.0829	
	39145.892	5																	2553.7803	
	39143.069	5																	2553.9645	
	39135.673	3																	2554.4472	
2	39132.764	6	46411.689-		7278.862	-63	.	.	3.5-	4.5	.	.	.	1.080	1.545*	465		2554.6371		
	39131.118	3																	2554.7446	
	39122.537	5																	2555.3017	
	39117.865	3																	2555.6101	
	39117.413	3																	2555.6397	
2	39113.159	3	44831.060-		5717.976	75	.	.	4.5-	3.5	.	.	.	1.085	1.596	511		2555.9177		
2	39101.832	5	39101.810-		0.000	22	1.5-	0.5	1.5-	0.5	.98	3.14	2.16	0.980	3.150*	2170	-46*	2556.6581		
	39083.944	4																	2557.8283	
	39033.289	4																	2557.8712	
	39063.760	3																	2559.1500	
	39061.855	3																	2559.2748	
2	39043.207	2	44766.125-		5717.976	58	.	.	4.5-	3.5	.	.	.	1.090	1.596*	506		2560.1694		
	39043.251	4					3.5-	3.5					193					2560.4944	DJO 2JDG	
2	39042.807	3	39042.775-		0.000	32	.	.	1.5-	0.5	.	.	.	1.050	3.150	2100		2560.5235		
	39038.067	3																	2560.8344	
	39035.995	3																	2560.9704	
2	39028.677	0	44746.615-		5717.976	38	.	.	4.5-	3.5	.	.	.	1.095	1.596	501		2561.4506		
	39016.835	3					2.5-	2.5					.630					2562.2281		
	39012.034	3																	2562.5434	
2	39003.184	1	8198.666-		47201.830	20	.	.	2.5-	3.5	.	.	.	0.414	0.895	481		2563.1249		
2	38977.578	0	8709.640-		47687.019	-1	.	.	3.5-	2.5	.	.	.	0.308	0.000*	0		2564.8220		
2	38974.161	6	8709.640-		47683.770	31	3.5-	3.5	3.5-	3.5	.31	1.09	.677	0.308	1.090*	782		2565.0337		
	38972.624	3																	2565.1349	
	38968.363	4									1.27								2565.4154	f
2	38966.729	0	13192.903-		52159.630	2	.	.	2.5-	3.5	.	.	.	0.372	0.000	0		2565.5230		
2	38962.256	3	42932.085-		3969.846	17	.	.	3.5-	2.5	.	.	.	1.170	1.670	500		2565.8175		
	38958.527	4																	2566.0631	
	38949.269	3																	2566.6731	
2	38936.198	1	40951.155-		2014.966	9	.	.	2.5-	1.5	.	.	.	1.015	1.881	866		2567.5348		
	38934.632	3																	2567.6381	ZR Q
2	38930.797	7	8198.666-		47129.430	33	2.5-	2.5	2.5-	2.5	.414	.920	.506	0.414	0.920	506		2567.8910		
	38926.612	3																	2568.1671	
	38915.892	4																	2568.8746	ZR Q
2	38912.501	5	10436.770-		49349.270	1	4.5-	4.5	4.5-	4.5	.725	1.110	.385	0.724	1.110	386		2569.0985		
	38907.126	5									.77		.32						2569.4534	f S02JDG
2	38890.763	3	44392.825-		5502.060	-2	.	.	1.5-	1.5	.	.	.	0.950	1.169*	219		2570.5346		
2	38880.971	7	8198.666-		47079.610	27	2.5-	2.5	2.5-	2.5	.415	.965	.550	0.414	0.960*	546		2571.1820		
	38879.631	3																	2571.2706	
	38877.770	3																	2571.3937	ZR Q
	38876.776	4																	2571.4594	
	38870.911	3					1.0-	1.0			1.15	1.495	.345					2571.8474	DJO	
	38859.842	4																	2572.5801	DJO
2	38841.050	1	8198.666-		47039.640	76	2.5-	2.5	2.5-	1.5	.	.	.	0.414	1.020*	606		2573.8248	ZQ	
	38838.365	4B					4.5-	5.5			.725	1.040	.315					2574.0028		
	38834.769	3																	2574.2411	
	38834.166	3																	2574.2811	
2	38832.887	4	12992.644-		51825.555	-4	.	.	2.5-	2.5	.	.	.	0.643	0.990*	347		2574.3659	DJO	
	38828.852	3																	2574.6334	
	38820.857	3																	2575.1637	
2	38819.268	2	42789.075-		3969.846	39	.	.	1.5-	2.5	.	.	.	1.215	1.670	455		2575.2691		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES	
	38815.467	3																		2575.5213	
	38814.898	3B																		2575.5591	
2	38814.657	3	42050.415-		3235.770	12	1.5-	0.5	1.5-	0.5	1.19	.30	.89	1.180	0.299*	881			2575.5751		
	38809.498	3																		2575.9175	
2	38805.188	8	8198.666-		47003.320	34	2.5-	3.5	2.5-	3.5	.410	.935	.525	0.414	0.935	521			2576.2036		
	38800.270	3																		2576.5301	
	38787.453	5																		2577.3816	
2	38782.816	1	42752.670-		3969.846	-8	. -	.	1.5-	2.5	.	.	.	1.200	1.670*	470			2577.6898		
	38779.673	3																		2577.8987	
2	38771.852	3	8709.640-		47481.485	7	. -	.	3.5-	3.5	.	.	.	0.308	1.000	692			2578.4187		
	38758.299	4																		2579.3204	
2	38755.256	4	44257.315-		5502.060	1	. -	.	1.5-	1.5	.	.	.	1.185	1.169	16			2579.5229		
	38751.555	5																		2579.7693	
	38748.147	3																		2579.9962	
	38744.382	4																		2580.2470	
	38742.245	3																		2580.3893	
	38730.485	6					2.5-	2.5					.59							2581.1728	
	38719.679	6					4.5-	4.5					133							2581.8933	JQ 2JDG
	38716.169	3																		2582.1273	
2	38712.785	4	38712.675-		0.000	110	. -	.	0.5-	0.5	.	.	.	1.313	3.150	1837			2582.3531		
	38712.006	4																		2582.4050	
	38709.408	4																		2582.5784	
	38707.308	4																		2582.7185	
	38695.699	3																		2583.4934	
2	38695.077	5	8198.666-		46893.745	-2	2.5-	1.5	2.5-	1.5	.415	.670	.255	0.414	0.670*	256			2583.5349		
2	38688.943	8	8198.666-		46387.595	14	2.5-	3.5	2.5-	3.5	.410	.930	.520	0.414	0.930	516			2583.9445		
	38687.699	3																		2584.0276	
	38675.625	3																		2584.8344	
	38670.165	3																		2585.1994	
2	38664.554	3	10436.770-		49101.285	39	. -	.	4.5-	4.5	.	.	.	0.724	1.050*	326			2585.5745		
	38661.691	3																		2585.7650	
2	38660.445	2	42630.250-		3969.846	41	. -	.	2.5-	2.5	.	.	.	1.150	1.670*	520			2585.8494		
	38655.050	3																		2586.2096	
	38654.247	4																		2586.2640	
2	38652.401	1	40667.340-		2014.966	27	. -	.	0.5-	1.5	.	.	.	1.925	1.881	44			2586.3876		
2	38642.979	3	46141.340-		7498.364	3	. -	.	1.5-	2.5	.	.	.	0.960	1.321*	361			2587.0182		
2	38632.631	4	13192.903-		51825.535	-1	2.5-	2.5	2.5-	2.5	.37	.99	.625	0.372	0.990*	618			2587.7112		
2	38629.275	4	38629.265-		0.000	10	. -	.	0.5-	0.5	.	.	.	1.380	3.150*	1770			2587.9360		
	38624.112	4					1.5-	1.5			.85	1.88	103							2588.2820	
	38620.210	4																		2588.5435	
2	38617.837	7	10436.770-		49054.605	2	4.5-	4.5	4.5-	4.5	.72	1.02	.30	0.724	1.020*	296			2588.7026		
2	38600.730	4	44102.745-		5502.060	45	. -	.	1.5-	1.5	.	.	.	1.160	1.169*	9			2589.8499		
	38597.697	4																		2590.0534	
	38593.905	4																		2590.3079	
	38592.989	3																		2590.3694	
	38584.978	3																		2590.9073	
	38583.499	3																		2591.0066	
2	38580.101	1	40595.070-		2014.966	-3	. -	.	1.5-	1.5	.	.	.	0.825	1.881	1056			2591.2348		
	38560.660	5																		2592.5413	
	38555.465	5																		2592.8906	
	38553.489	3																		2593.0235	
2	38551.297	3	13192.903-		51744.190	10*	. -	.	2.5-	1.5	.	.	.	0.372	0.750*	378			2593.1710		
2	38551.063	3	40566.005-		2014.966	24	. -	.	0.5-	1.5	.	.	.	1.170	1.881*	711			2593.1867		
2	38550.003	7	8198.666-		46748.670	-1	2.5-	3.5	2.5-	3.5	.415	1.015	.600	0.414	1.000*	586			2593.2580		
2	38548.214	2	40563.165-		2014.966	15	. -	.	2.5-	1.5	.	.	.	0.995	1.881	886			2593.3784		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG			IS	IS
2	38542.017	6	8198.666	-	46740.710	-27	2.5-	1.5	2.5-	1.5	.415	.933	.518	0.414	0.930*	516	2593.7954	
	38538.812	3									.	.	.				2594.0111	
	38537.329	5									.	.	.				2594.1110	
	38536.485	5									.	.	.				2594.1678	DJO
2	38526.716	7	10436.770	-	48963.485	1	4.5-	4.5	4.5-	4.5	.724	1.056	.332	0.724	1.055	331	2594.8256	
	38525.429	4									.	.	.				2594.9123	
	38521.645	3									.	.	.				2595.1672	
	38518.787	4									1.04	.	.28				2595.3598	fDJ02JDG
	38510.886	4									.	.	.				2595.8923	
	38505.802	5									.	.	.				2596.2350	
	38503.360	3									.	.	.				2596.3997	
	38501.970	4									.	.	.				2596.4935	
2	38492.194	9	8709.640	-	47201.830	4	3.5-	3.5	3.5-	3.5	.307	.896	.589	0.308	0.895	587	2597.1529	
	38491.527	4									.	.	.				2597.1979	
	38487.912	4									.	.	.				2597.4419	
	38482.260	4									.	.	.				2597.8234	
	38481.273	3									.	.	.				2597.8901	
	38478.866	5									.	.	.				2598.0526	
	38477.343	4									.	.	.				2598.1554	
2	38476.072	4	41711.780	-	3235.770	62	1.5-	0.5	1.5-	0.5	1.14	.30	.84	1.130	0.299*	831	2598.2412	
	38473.279	3									.	.	.				2598.4299	
	38471.597	5									1.05	.	.				2598.5435	f
	38464.029	4									.	.	.				2599.0548	
	38463.457	3H									.	.	.				2599.0935	
	38459.012	3H									.	.	.				2599.3939	
	38456.306	3									.	.	.				2599.5768	
2	38451.818	4	12992.644	-	51444.460	2	.	.	2.5-	2.5	.	.	.	0.643	0.910*	267	2599.8802	
	38447.101	3									.	.	.				2600.1992	
	38445.938	5									.	.	.				2600.2779	
	38445.501	3									.	.	.				2600.3074	
2	38441.919	1	43943.935	-	5502.060	44	.	.	1.5-	1.5	.	.	.	1.095	1.169	74	2600.5497	
	38423.638	3									.	.	.				2601.4486	
	38426.507	4									.	.	.				2601.5928	
	38422.607	4									.	.	.				2601.8569	
	38420.734	3									.	.	.				2601.9838	
2	38419.812	5	8709.640	-	47129.430	22	3.5-	2.5	3.5-	2.5	.31	.92	.61	0.308	0.920	612	2602.0462	
2	38401.417	3	47643.785	-	9242.356	-12	.	.	4.5-	3.5	.	.	.	1.100	1.369*	269	2603.2927	
2	38400.566	4	42370.412	-	3969.846	0	3.5-	2.5	3.5-	2.5	.	.	.	0.000	1.670	0	2603.3504	SI
	38393.668	3									.	.	.				2603.8182	
2	38392.418	4	8198.666	-	46591.055	29	2.5-	3.5	2.5-	3.5	.415	1.100	.685	0.414	1.100	686	2603.9030	
	38387.355	4									.	.	.				2604.2464	
2	38385.947	4	40400.905	-	2014.966	8	2.5-	1.5	2.5-	1.5	.	.	.77	1.100	1.881	781	2604.3419	
	38381.962	3									.	.	.				2604.6123	
2	38378.982	8	8198.666	-	46577.625	23	2.5-	3.5	2.5-	3.5	.41	.75	.34	0.414	0.750*	336	2604.8146	
2	38369.983	5	8709.640	-	47079.610	13	3.5-	2.5	3.5-	2.5	.31	.96	.65	0.308	0.960*	652	2605.4256	
	38366.289	3									.	.	.				2605.6764	
2	38359.008	2	38359.000	-	0.000	8	.	.	1.5-	0.5	.	.	.	0.995	3.150	2155	2606.1710	
2	38349.714	0	13209.910	-	52159.630	-6	.	.	4.5-	3.5	.	.	.	0.657	0.000	0	2606.8027	
2	38348.846	5	40363.785	-	2014.966	27	.	.	2.5-	1.5	.	.	.	1.080	1.881*	801	2606.8617	
	38343.359	5									.	.	.				2606.8948	
2	38337.469	4	38337.450	-	0.000	19	.	.	1.5-	0.5	.	.	.	1.160	3.150	1990	2607.6353	
	38335.395	4									.	.	.				2607.7764	
2	38329.913	2	42299.740	-	3969.846	19	.	.	2.5-	2.5	.	.	.	1.065	1.670	605	2608.1494	
2	38323.593	2	40341.970	-	2014.966	-11	.	.	1.5-	1.5	.	.	.	0.890	1.881*	991	2608.3481	
2	38317.026	5	40331.990	-	2014.966	2	.	.	0.5-	1.5	.	.	.	1.920	1.881*	39	2609.0267	

C	WAVENUMBER	I	T2	-	T1	O-C	G/S	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	G6	G2	G1	G6	IS	IS		
2	38312.677	4	42232.525-		3969.846	-2	.	.	3.5-	2.5	.	.	.	1.360	1.670	310	.	.	2609.3228	
	38305.122	5					.	.			.	.	.				.	.	2609.8375	
2	38303.198	5	43805.265-		5502.060	-7	.	.	1.5-	1.5	.	.	.	1.090	1.169	79	.	.	2609.9686	
2	38294.212	8	8709.640-		47663.820	32	3.5-	3.5	3.5-	3.5	.305	.935	.630	0.308	0.935	627	.	.	2610.5811	
2	38289.340	5	8193.666-		46488.000	6	2.5-	2.5	2.5-	2.5	.41	1.00	.59	0.414	1.000*	586	.	.	2610.9133	
	38283.805	3M					.	.			.	.	.				.	.	2611.2908	
	38282.868	3					.	.			.	.	.				.	.	2611.3547	
	38275.797	3					.	.			.	.	.				.	.	2611.8372	
	38272.684	3					.	.			.	.	.				.	.	2612.0496	
	38271.719	4					3.5-	4.5			.31	1.06	.75				.	.	2612.1155	
	38268.845	3					.	.			.	.	.				.	.	2612.3117	
2	38267.187	1	42236.985-		3969.846	48	.	.	3.5-	2.5	.	.	.	1.035	1.670	635	.	.	2612.4249	
2	38263.621	2	43765.665-		5502.060	16	.	.	2.5-	1.5	.	.	.	1.110	1.169*	59	.	.	2612.6683	
	38263.241	4					.	.			.	.	.				.	.	2612.6943	
2	38262.337	5	41493.165-		3235.770	-8	.	.	0.5-	0.5	.31	.31		0.325	0.299	26	.	.	2612.7526	
	38260.395	3					.	.			.	.	.				.	.	2612.8886	
2	38251.560	4	13192.903-		51444.460	3	2.5-	2.5	2.5-	2.5	.37	.91	.535	0.372	0.910*	538	.	.	2613.4922	
	38249.503	3					.	.			.	.	.				.	.	2613.6324	
2	38248.954	3	11504.095-		49753.063	-14	.	.	3.5-	3.5	.	.	.	0.859	1.000*	141	.	.	2613.6703	
	38246.878	3					.	.			.	.	.				.	.	2613.8121	
	38245.867	4					.	.			.	.	.				.	.	2613.8812	
	38244.167	4					.	.			.	.	.				.	.	2613.9974	
2	38238.353	4	11504.095-		49742.440	13	3.5-	3.5	3.5-	3.5	.86	.96	.10	0.859	0.975	116	.	.	2614.3946	
	38231.667	3					.	.			.	.	.				.	.	2614.8521	
	38230.400	6					1.10				1.10						.	.	2614.9388	f
2	38228.455	3	41464.210-		3235.770	15	1.5-	0.5	1.5-	0.5	1.05	.30	.75	1.065	0.299	766	.	.	2615.0719	
	38218.966	5					.	.			.	.	.				.	.	2615.7212	
2	38215.815	1	38215.850-		0.000	-35	.	.	0.5-	0.5	.	.	.	0.996	3.150	2154	.	.	2615.9368	
	38212.046	6					.	.			.94		.67				.	.	2616.1949	fDJ02J06
	38210.721	5					.	.			.	.	.				.	.	2616.2856	DJ0
2	38196.509	3	56714.368-		18517.872	13	.	.	1.5-	0.5	.	.	.	0.000	2.755	0	.	.	2617.2591	
2	38195.826	4	45474.760-		7278.862	-72	.	.	4.5-	4.5	.	.	.	1.090	1.545	455	.	.	2617.3059	CQ
	38190.700	4					.880				.	.	.				.	.	2617.6572	f
2	38182.902	5	10436.770-		48619.650	22	4.5-	3.5	4.5-	4.5	.724	1.010	.286	0.724	1.000*	276	.	.	2618.1919	
2	38181.280	6	10436.770-		48618.050	0	4.5-	3.5	4.5-	3.5	.	.	.	0.724	0.920*	196	.	.	2618.3031	
2	38177.985	7	8709.640-		46287.595	30	3.5-	3.5	3.5-	3.5	.305	.930	.625	0.308	0.930	622	.	.	2618.5291	
	38176.471	3					.	.			.	.	.				.	.	2618.6330	
	38171.365	3					.	.			.	.	.				.	.	2618.9833	
2	38163.314	3	38163.310-		0.000	4	.	.	1.5-	0.5	.	.	.	1.220	3.150	1930	.	.	2619.5358	
2	38156.788	4	8198.666-		46355.430	24	2.5-	3.5	2.5-	3.5	.415	.940	.525	0.414	0.950	536	.	.	2619.9838	
	38136.629	3					.	.			.	.	.				.	.	2621.3588	
2	38126.979	1	45405.840-		7278.852	1	.	.	4.5-	4.5	.	.	.	1.090	1.545*	455	.	.	2622.0324	
2	38116.096	8	8198.666-		46314.760	2	2.5-	3.5	2.5-	3.5	.415	1.155	.740	0.414	1.055	641	.	.	2622.7811	
	38114.317	7					1.21				.35						.	.	2622.9035	fDJ02J06
2	38105.944	6	8198.666-		46304.585	25	2.5-	2.5	2.5-	2.5	.41	.98	.57	0.414	0.980*	566	.	.	2623.4798	
2	38105.081	5	43823.020-		5717.976	37	.	.	4.5-	3.5	.	.	.	1.235	1.596	361	.	.	2623.5393	
	38104.754	4					.	.			.	.	.				.	.	2623.5618	
2	38103.763	2	8709.640-		46213.360	43	.	.	3.5-	2.5	.	.	.	0.308	1.070*	762	.	.	2623.6300	
2	38099.396	3	42069.210-		3969.846	32	.	.	3.5-	2.5	.	.	.	1.190	1.670	480	.	.	2623.9308	
	38093.592	3					.	.			.	.	.				.	.	2624.3306	
2	38089.999	4	41325.730-		3235.770	39	0.5-	0.5	0.5-	0.5	.50	.30	.20	0.560	0.299*	261	.	.	2624.5781	
2	38089.386	2	40104.340-		2014.966	12*	.	.	2.5-	1.5	.	.	.	1.000	1.881	881	.	.	2624.6204	
	38088.599	3					.	.			.	.	.				.	.	2624.6746	
	38076.795	4					.	.			.	.	.				.	.	2625.4833	
	38064.682	4					.	.			.	.	.				.	.	2626.3239	

C	WAVENUMBER	I	T2	-	T1	O-C	OSS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	38050.992	3																		2626.5785	
2	38050.134	1	42029.980-		3969.846	0	.	.	3.5-	2.5	.	.	.	1.060	1.670*	610			2626.6377		
	38059.250	4																		2626.6960	
2	38056.022	7	43553.060-		5502.060	22	0.5-	1.5	0.5-	1.5	1.58	1.17	.41	1.580	1.169*	411			2626.9215		
	38047.898	3																		2627.4825	
2	38047.722	2	43765.665-		5717.976	33	.	.	2.5-	3.5	.	.	.	1.110	1.596*	486			2627.4946		
	38041.799	3																		2627.9037	
2	38041.514	3	10436.770-		48478.270	14	.	.	4.5-	3.5	.	.	.	0.724	0.970	246			2627.9234		
	38040.627	5																		2627.9847	
2	38039.033	7	8709.640-		46748.670	3	3.5-	3.5	3.5-	3.5	.308	1.001	.693	0.308	1.000*	692			2628.0948		
	38028.781	3																		2628.8034	
2	38020.528	5	40035.490-		2014.966	4	1.5-	1.5	1.5-	1.5	1.16	1.88	.72	1.180	1.881*	701			2629.3740		
	38018.692	4											1745							2629.5010	DJO 2JD6
2	38017.013	2	38016.965-		0.000	48	.	.	0.5-	0.5	.	.	.	1.390	3.150	1760			2629.6172		
2	38015.739	1	45294.550-		7278.862	41	.	.	5.5-	4.5	.	.	.	1.090	1.545*	455			2629.7053		
	38006.213	3																		2630.3645	
	38001.025	3																		2630.7236	
2	38000.731	3	8198.666-		46199.395	52	.	.	2.5-	3.5	.	.	.	0.414	0.955	541			2630.7405		
2	37999.847	3	45278.700-		7278.862	9	.	.	4.5-	4.5	.	.	.	1.090	1.545	455			2630.8051		
	37999.560	3																		2630.8250	
2	37994.073	0	8198.666-		46192.700	39	2.5-	3.5	2.5-	3.5	.415	.950	.535	0.414	0.950	536			2631.2050		
2	37989.087	8	8198.666-		46137.750	3	2.5-	1.5	2.5-	1.5	.415	.738	.323	0.414	0.740	326			2631.5503		
	37985.038	3																		2631.8309	
	37984.784	3																		2631.8485	
	37979.603	4									1.00	.	.27							2632.2075	fDJO2JD6
	37975.062	7																		2632.5223	
	37973.649	3																		2632.6202	
	37973.173	3																		2632.6532	
	37971.851	3																		2632.7449	
2	37959.247	3H	41939.060-		3969.846	33	.	.	2.5-	2.5	.	.	.	1.030	1.670*	640			2632.9255		
2	37957.143	4	41202.885-		3235.770	28	.	.	1.5-	0.5	.	.	.	1.070	0.299*	771			2633.0714		
	37959.691	3																		2633.5883	
	37956.850	3																		2633.7827	
2	37955.630	5	8198.666-		46154.290	6	2.5-	3.5	2.5-	3.5	.410	.965	.555	0.414	1.090*	676			2633.8701		
	37946.941	3																		2634.4733	
	37942.357	3																		2634.7916	
	37941.350	3																		2634.8608	
	37926.828	3																		2635.8663	
	37924.034	3H																		2636.0612	
	37920.819	3																		2636.2381	
	37919.968	4																		2636.3473	
2	37919.501	4	12992.644-		50912.115	30	.	.	2.5-	3.5	.	.	.	0.643	0.950*	307			2636.3798		
	37908.755	6									.83	.	.23							2637.1271	f S02JD6
	37904.469	3																		2637.4254	
2	37903.944	6	10436.770-		48340.695	19	4.5-	4.5	4.5-	4.5	.725	1.260	.535	0.724	1.260*	536			2637.4619		
	37902.619	4																		2637.5541	
	37899.323	5																		2637.7835	
2	37898.219	5	41133.945-		3235.770	44	1.5-	0.5	1.5-	0.5	1.21	.30	.91	1.210	0.299*	911			2637.8603		
	37897.153	4																		2637.9342	
	37894.160	5											1.42							2638.1429	DJO 2JD6
	37893.623	3																		2638.1758	
	37892.136	6											2.31							2638.2838	DJO 2JD6
2	37826.216	4	47594.160-		9707.980	36	.	.	5.5-	6.5	.	.	.	1.090	1.485	395			2638.6961		
2	37821.445	6	8709.640-		46591.055	30	3.5-	3.5	3.5-	3.5	.31	1.10	.786	0.308	1.100	792			2639.0285		
2	37820.659	1	11504.095-		49334.725	29	.	.	3.5-	2.5	.	.	.	0.859	0.930*	71			2639.0832		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	37874.505	4	37874.470-		0.000	35	.	.	1.5-	0.5	.	.	.	1.030	3.150	2120	.	.	2639.5121	
	37873.613	3					.	.			.	.	.				.	.	2639.5742	
	37873.261	3					.	.			.	.	.				.	.	2639.5928	
	37872.116	4					.	.			.	.	.				.	.	2639.6786	
2	37868.690	3	43370.680-		5592.060	70	.	.	2.5-	1.5	.	.	.	1.265	1.169	96	.	.	2639.9174	
2	37855.367	6	8709.640-		46565.005	2	3.5-	4.5	3.5-	4.5	.31	1.04	.73	0.308	1.040*	732	.	.	2640.8465	
2	37854.442	4	41824.260-		3969.846	28	.	.	3.5-	2.5	.	.	.	1.120	1.670	550	.	.	2640.9111	
	37852.026	4					.	.			.	.	.				.	.	2641.0797	
	37851.741	3H					.	.			.	.	.				.	.	2641.0995	
	37833.749	4					.	.			.	.	.				.	.	2642.0064	
	37836.279	4					.	.			.	.	.				.	.	2642.1789	
2	37832.799	4	8198.666-		46031.465	0	2.5-	2.5	2.5-	2.5	.415	.815	.400	0.414	0.800*	386	.	.	2642.4220	
2	37826.349	2	41052.170-		3235.770	-51	.	.	1.5-	0.5	.	.	.	1.425	0.299	1126	.	.	2642.8726	
2	37818.409	4	8198.666-		46017.075	0	2.5-	2.5	2.5-	2.5	.	.	.61	0.414	0.000*	0	.	.	2643.4275	
2	37807.940	3	45036.735-		7278.852	67	.	.	5.5-	4.5	.	.	.	1.120	1.545*	425	.	.	2644.1595	
	37804.394	3					.	.			.	.	.				.	.	2644.4075	
	37800.254	3					.	.			.	.	.				.	.	2644.6971	
2	37798.578	6	45296.930-		7498.364	12	1.5-	2.5	1.5-	2.5	1.25	1.32	.07	1.245	1.321	76	.	.	2644.8144	
	37786.559	3					.	.			.	.	.				.	.	2645.6557	
2	37785.279	0	43287.195-		5502.060	144	.	.	1.5-	1.5	.	.	.	1.205	1.169	36	.	.	2645.7454	
2	37778.361	5	8709.640-		46488.000	1	3.5-	2.5	3.5-	2.5	.31	1.00	.69	0.308	1.000*	692	.	.	2646.2299	
2	37771.448	5	37771.420-		0.000	28	.	.	1.5-	0.5	.	.	.	1.470	3.150*	1680	.	.	2646.7142	
	37760.726	3					.	.			.	.	.				.	.	2647.4658	
	37753.280	4					.	.			.	.	.				.	.	2647.9459	
	37753.463	4					.	.			.	.	.				.	.	2647.9751	
2	37737.583	5	46973.325-		3235.770	28	.	.	0.5-	0.5	.	.	.	0.485	0.299	186	.	.	2649.0895	
	37735.735	3					.	.			.	.	.				.	.	2649.2192	
	37734.155	4					.	.			.	.	.				.	.	2649.3301	
	37732.272	4					.	.			.	.	.				.	.	2649.4624	
2	37729.382	4	11504.095-		49233.475	2	.	.	3.5-	3.5	.	.	.	0.859	0.980*	121	.	.	2649.6653	
2	37727.591	3	41677.420-		3969.846	17	.	.	3.5-	2.5	.	.	.	1.130	1.670*	540	.	.	2649.7911	
2	37719.251	3	13192.903-		50912.115	39	.	.	2.5-	3.5	.	.	.	0.372	0.950*	578	.	.	2650.3770	ZR Q
	37716.382	3					.	.			.	.	.				.	.	2650.5787	
2	37714.661	4	10436.770-		48151.405	26	.	.	4.5-	3.5	.	.	.	0.724	1.010	286	.	.	2650.6996	
	37713.595	3					.	.			.	.	.				.	.	2650.7745	
	37711.794	5					.	.			.	.	.				.	.	2650.9011	
	37707.893	7					.	.			.	.	.				.	.	2651.1754	
2	37705.311	3	45203.680-		7498.364	-5	.	.	2.5-	2.5	.	.	.	1.150	1.321*	171	.	.	2651.3570	
	37703.469	3					.	.			.	.	.				.	.	2651.4865	
	37702.290	3H					.	.			.	.	.				.	.	2651.5694	
	37691.991	6					.	.			.	.	.				.	.	2652.2940	
2	37639.387	4	39704.305-		2014.966	48	.	.	1.5-	1.5	.	.	.	1.220	1.881*	661	.	.	2652.4772	
	37688.644	3					.	.			.	.	.				.	.	2652.5281	
	37688.204	4					.	.			.	.	.				.	.	2652.5605	
2	37683.463	0	14476.135-		52159.630	-32	.	.	4.5-	3.5	.	.	.	1.060	0.000	0	.	.	2652.8942	
2	37681.937	2	39696.890-		2014.966	13	.	.	0.5-	1.5	.	.	.	0.900	1.881	981	.	.	2653.0017	
	37663.064	3					.	.			.	.	.				.	.	2654.3312	
	37654.611	3					.	.			.	.	.				.	.	2654.9271	
	37653.053	3					.	.			.	.	.				.	.	2655.0369	
2	37652.714	3	43370.680-		5717.976	10	.	.	2.5-	3.5	.	.	.	1.265	1.596	331	.	.	2655.0608	
2	37651.598	3	41621.445-		3969.846	-1	.	.	2.5-	2.5	.	.	.	1.065	1.670	605	.	.	2655.1395	
2	37645.800	7	8709.640-		46355.430	10	3.5-	3.5	3.5-	3.5	.31	.95	.64	0.308	0.950	642	.	.	2655.5485	
	37640.964	3					.	.			.	.	.				.	.	2655.8897	
2	37636.180	5	8709.640-		46345.820	0	3.5-	4.5	3.5-	4.5	.31	1.03	.72	0.308	1.030	722	.	.	2656.2273	
	37635.895	4					.	.			.	.	.				.	.	2656.2474	

C	HAVENUMBER	I	T2	-	T1	O-C	OES		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	J2 - J1							IS	IS		
	37634.772	3																	2656.3267	
	37628.076	3																	2656.7994	
	37616.709	4																	2657.6023	
2	37605.122	6	8709.640-46314.760		2		3.5- 3.5	3.5- 3.5				.838	0.308	1.055	747			2658.4212		
	37604.498	5																	2658.4653	
	37604.202	4																	2658.4853	
	37601.276	3																	2658.6931	
	37597.549	3																	2658.9567	
2	37597.220	5	11504.095-49101.225		30		. - .	3.5- 4.5					0.859	1.050*	191			2658.9800		
2	37594.945	4	8709.640-46304.535		0		. - .	3.5- 2.5					0.308	0.980*	672			2659.1409		
	37593.919	4																	2659.2135	
	37585.581	4																	2659.8034	
	37579.767	3																	2660.2150	
	37571.023	3																	2660.8341	
2	37569.951	4	8198.666-45768.610		7		2.5- 2.5	2.5- 2.5	.415	.755	.340		0.414	0.755	341			2660.9100		
2	37566.243	7	8198.666-45764.910		-1		2.5- 1.5	2.5- 1.5	.415	.660	.245		0.414	0.660*	246			2661.1727		
	37560.001	3																	2661.6150	
	37557.416	3																	2661.7982	
2	37552.020	4	39566.980- 2014.966		6		. - .	1.5- 1.5					1.180	1.881*	701			2662.1807		
2	37550.520	5	11504.095-49054.605		10		. - .	3.5- 4.5					0.859	1.020*	161			2662.2870		
	37549.576	5																	2662.3540	
2	37548.256	1	41518.100- 3969.846		2		. - .	2.5- 2.5					1.160	1.670	510			2662.4476		
2	37547.095	1	47735.510-10188.463		48		. - .	1.5- 0.5					1.095	2.402	1307			2662.5299		
2	37546.159	5	8198.666-45744.825		0		2.5- 3.5	2.5- 3.5					0.414	0.000*	0			2662.5963		
	37543.817	4																	2662.7624	
	37543.192	4																	2662.8067	
	37533.253	4																	2663.5119	
	37532.756	3																	2663.5471	
	37532.370	3																	2663.5745	
	37527.548	3																	2663.9168	
	37526.539	5																	2663.9884	
	37525.807	3																	2664.0404	
	37519.768	3																	2664.4692	
2	37519.383	6	8198.666-45718.025		24		2.5- 3.5	2.5- 3.5	.415	1.060	.645		0.414	1.065	651			2664.4966		
	37515.757	4					2.5- 1.5												2664.7541	
	37514.092	7																	2664.8720	SO
	37502.317	4																	2665.7092	
	37498.065	3																	2666.0114	
2	37495.324	1	39510.275- 2014.966		15		. - .	0.5- 1.5					0.290	1.831*	1591			2666.2064		
2	37494.396	3	41464.210- 3969.846		32		. - .	1.5- 2.5					1.065	1.670	605			2666.2723		
2	37489.755	5	8709.640-46199.395		0		3.5- 3.5	3.5- 3.5	.310	.955	.645		0.308	0.955	647			2666.6024		
2	37483.075	6	8709.640-46192.700		15		3.5- 3.5	3.5- 3.5	.308	.955	.647		0.308	0.950	642			2667.0777		
	37481.611	4																	2667.1819	
	37478.371	4																	2667.4125	
	37472.680	3																	2667.8176	ZR Q
	37471.634	3																	2667.8921	
	37465.436	5																	2668.3334	
	37455.244	5																	2668.3471	
	37462.646	4							1.09										2668.5322	f
2	37459.393	4	11504.095-48963.485		3		. - .	3.5- 4.5					0.859	1.055	196			2668.7639		
	37457.107	4																	2668.9268	
	37452.270	3																	2669.2715	
2	37450.203	3	39465.195- 2014.966		-26		. - .	2.5- 1.5					1.070	1.881	811			2669.4189		
	37448.787	5																	2669.5198	
	37447.884	4																	2669.5842	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	37444.643	6	8709.640-46154.290			-7	3.5-	3.5	3.5-	3.5	.310	.975	.665	0.308	1.090*	782			2669.8152	
	37444.274	3																	2669.8416	
2	37439.686	2	37439.680-		0.000	6	.	.	0.5-	0.5	.	.	.	1.110	3.150*	2040			2670.1687	
	37435.619	4																	2670.4589	
	37434.997	3																	2670.5032	
	37434.250	3																	2670.5565	
2	37431.571	4	40667.340-		3235.770	1	0.5-	0.5	0.5-	0.5	1.95	.30	165	1.925	0.299	1626			2670.7477	
2	37427.655	3	43145.645-		5717.976	-14	.	.	3.5-	3.5	.	.	.	1.195	1.596	401			2671.0271	
	37427.330	3																	2671.0467	
	37417.357	3																	2671.7623	
	37415.815	4																	2671.8724	
	37414.597	4																	2671.9594	
	37412.944	4																	2672.0774	
	37412.225	5																	2672.1288	
	37411.470	4																	2672.1827	
	37397.438	5																	2673.1854	
	37389.427	3																	2673.7582	
	37387.264	3																	2673.9129	
2	37379.733	5	39394.720-		2014.966	-21	.	.	2.5-	1.5	.	.	.	1.100	1.881	781			2674.4517	
	37376.166	4																	2674.7069	
	37375.212	3																	2674.7752	
	37373.828	5																	2674.8742	
	37359.873	3																	2675.8734	
2	37359.237	5	40595.070-		3235.770	-63	.	.	1.5-	0.5	.	.	.	0.825	0.299	526			2675.9190	
	37358.964	5																	2675.9385	
2	37357.096	1	43075.060-		5717.976	12	.	.	4.5-	3.5	.	.	.	1.080	1.596	516			2676.0724	
	37347.417	4					2.5-	3.5					.560						2676.7659	
	37338.375	3																	2677.4142	
	37336.063	3																	2677.5800	
	37333.231	3																	2677.7831	
2	37330.222	6	40566.005-		3235.770	-13	0.5-	0.5	0.5-	0.5	1.17	.30	.87	1.170	0.299*	871			2677.9990	
	37328.617	3																	2678.1141	
2	37321.828	6	8709.640-46031.465			3	3.5-	2.5	3.5-	2.5	.310	.795	.485	0.308	0.800*	492			2678.6013	
	37310.905	3																	2679.3855	
	37310.221	3																	2679.4347	
2	37307.443	1	8709.640-46017.075			8	.	.	3.5-	2.5	.	.	.	0.308	0.000*	0			2679.6342	
	37306.247	4																	2679.7201	
2	37300.215	5	8709.640-46009.840			15	3.5-	4.5	3.5-	4.5	.31	1.05	.74	0.308	1.050	742			2680.1535	
	37298.187	3																	2680.2992	
	37296.856	3																	2680.3949	
	37293.490	4					4.5-	4.5					305						2680.6368	JQ 2JQG
	37289.920	3																	2680.8935	
2	37237.035	2	42789.075-		5502.060	20	.	.	1.5-	1.5	.	.	.	1.215	1.169	46			2681.1009	
	37225.850	5																	2681.1839	
	37284.135	3																	2681.3094	
2	37281.408	3	37281.410-		0.000	-2	.	.	0.5-	0.5	.	.	.	0.730	3.150*	2420			2681.5056	
2	37274.197	1	39289.160-		2014.966	3	.	.	2.5-	1.5	.	.	.	1.020	1.881	861			2682.0244	
	37273.132	4H																	2682.1010	
	37272.756	4																	2682.1281	
	37272.528	4																	2682.1445	
	37267.318	3																	2682.5195	
	37257.236	7									1.15	.	.						2683.2454	f
2	37252.730	2	45890.950-		8638.233	13	.	.	5.5-	5.5	.	.	.	1.070	1.514*	444			2683.5700	
	37252.397	3																	2683.5940	
	37251.147	3																	2683.6840	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
2	37250.616	3	42752.670-		5502.060	6	.	.	1.5-	1.5	.	.	.	1.200	1.169*	31			2683.7223	
	37249.943	5					.	.			.	.	.						2683.7708	
	37236.815	4					.	.			.	.	.						2684.7170	
2	37233.578	2	11504.095-	48737.664		9	.	.	3.5-	2.5	.	.	.	0.859	0.970*	111			2684.9504	
2	37233.242	4	40469.010-	3235.770		2	.	.	1.5-	0.5	.	.	.	1.250	0.299*	951			2684.9747	
	37232.565	6W					.	.			.	.	.						2685.0235	
	37226.267	3					.	.			.	.	.						2685.4778	
	37224.950	4					.	.			.	.	.						2685.5728	
	37222.938	5					.	.			.89	.	.63						2685.7179	
2	37214.134	3	42932.085-	5717.976		25	.	.	3.5-	3.5	.	.	.	1.170	1.596	426			2686.3534	
2	37213.236	2	41183.055-	3969.846		27	.	.	3.5-	2.5	.	.	.	1.100	1.670	570			2686.4182	
	37210.880	3					.	.			.	.	.						2686.5883	
	37207.195	5					.	.			.	.	.						2686.8544	
	37202.043	3					.	.			.	.	.						2687.2265	
	37194.161	4					.	.			.	.	.						2687.7960	
	37191.384	4					.	.			.	.	.						2687.9967	
	37182.300	6					.	.			1.20	.	.						2688.6534	f
2	37172.264	1	39187.220-	2014.966		10	.	.	2.5-	1.5	.	.	.	1.170	1.881*	711			2689.3794	f
	37168.492	6					.	.			1.16	.	.						2689.6523	f
2	37165.890	6	45804.115-	8638.233		8	5.5-	5.5	5.5-	5.5	1.10	1.52	.42	1.105	1.514	409			2689.8406	
2	37164.121	3	41133.945-	3969.846		22	.	.	1.5-	2.5	.	.	.	1.210	1.670*	460			2689.9687	
	37160.838	3					.	.			.	.	.						2690.2063	
	37152.652	5					.	.			.	.	.						2690.7991	
	37151.596	5					.	.			.	.	.						2690.8756	
	37145.180	3W					.	.			.	.	.						2691.3404	
2	37138.825	6	40374.595-	3235.770		0	0.5-	0.5	0.5-	0.5	.96	.30	.66	0.960	0.299*	661			2691.8010	
2	37128.220	4	42630.250-	5502.060		30	.	.	2.5-	1.5	.	.	.	1.150	1.169*	19			2692.5699	
	37126.531	3					.	.			.	.	.						2692.6924	
	37126.204	3					.	.			.	.	.						2692.7161	
	37120.471	5					.	.			.	.	.27						2693.1320	SOJ4555Q
2	37115.611	8	11504.095-	48619.650		56	3.5-	4.5	3.5-	4.5	.860	.995	.135	0.859	1.000*	141			2693.4847	
2	37113.987	6	11504.095-	48618.050		32	3.5-	3.5	3.5-	3.5	.86	.92	.06	0.859	0.920*	61			2693.6025	
	37113.162	3					.	.			.	.	.						2693.6624	
2	37106.250	6H	40341.970-	3235.770		50	1.5-	0.5	1.5-	0.5	.90	.30	.60	0.890	0.299*	591			2694.1642	
	37105.748	3					.	.			.	.	.						2694.2006	
	37102.696	5					.	.			.	.	.						2694.4223	
	37101.471	4					.	.			.	.	.						2694.5112	
	37098.869	5					.	.			.	.	.						2694.7002	
2	37092.325	6	41062.170-	3969.846		1	1.5-	2.5	1.5-	2.5	1.44	1.67	.23	1.425	1.670	245			2695.1757	
2	37088.998	4	37038.890-	0.000		108	.	.	0.5-	0.5	.	.	.	0.890	3.150*	2260			2695.4175	
2	37086.864	8	39101.810-	2014.966		20	1.5-	1.5	1.5-	1.5	.98	1.88	.90	0.980	1.881*	901			2695.5726	-49*
	37081.422	3					.	.			.	.	.						2695.9682	
2	37076.584	6	8709.640-	45786.224		0	3.5-	2.5	3.5-	2.5	.308	.895	.587	0.308	0.895	587			2696.3200	
2	37065.603	3	12992.644-	50058.235		12	.	.	2.5-	3.5	.	.	.	0.643	1.000*	357			2697.1188	
2	37065.183	5	39080.135-	2014.966		14	2.5-	1.5	2.5-	1.5	.	.	.	1.255	1.881	626			2697.1494	
2	37060.287	2	41030.115-	3969.846		18	.	.	3.5-	2.5	.	.	.	1.100	1.670*	570			2697.5057	
2	37058.971	7	8709.640-	45768.610		1	3.5-	2.5	3.5-	2.5	.	.	.	0.308	0.755	447			2697.6015	
2	37058.528	4	37058.525-	0.000		3	.	.	1.5-	0.5	.	.	.	1.180	3.150	1970			2697.6338	
2	37057.903	6	42775.870-	5717.976		9	2.5-	3.5	2.5-	3.5	.	.	.	1.180	1.596	416			2697.6793	SI
	37052.692	3					.	.			.	.	.						2698.0587	
	37052.269	3					.	.			.	.	.						2698.0895	
	37048.072	3					.	.			.	.	.						2698.3952	
2	37044.707	4	10436.770-	47481.485		-8	.	.	4.5-	3.5	.	.	.	0.724	1.000	276			2698.6403	
	37044.424	4					.	.			.	.	.						2698.6609	
	37043.907	4					.	.			.	.	.						2698.6986	

C	WAVELENGTH	NUMBER	I	T2	-	T1	0-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	37043.480	3																		2698.7297	
	37040.939	4																		2698.9148	
	37035.012	4																		2699.3468	
	37030.386	3																		2699.6840	
	37024.754	4																		2700.0947	
	37024.244	4																		2700.1319	ZR Q
	37023.341	3																		2700.1978	
	37019.657	3H																		2700.4665	
2	37018.815	6		40254.585-	3235.770	0	1.5-	0.5	1.5-	0.5	1.14	.30	.84	1.140	0.299*	841			2700.5279		
	37016.336	3																		2700.7088	
2	37008.401	3		8709.640-	45718.025	16	3.5-	3.5	3.5-	3.5	.308	1.065	.757	0.308	1.065	757			2701.2879		
	37003.600	3																		2701.6384	
	37000.058	4																		2701.8970	
	36998.435	5																		2702.0155	
	36993.233	3																		2702.0303	
2	36996.134	2		40965.950-	3969.846	30	. -	.	3.5-	2.5				1.105	1.670	565			2702.1836		
	36993.692	3																		2702.3620	
	36990.581	4																		2702.5893	
	36988.030	3																		2702.7720	
	36987.072	5																		2702.8457	
2	36981.302	4		40951.155-	3969.846	-7	. -	.	2.5-	2.5				1.015	1.670	655			2703.2674	C2	
2	36931.302	4		42699.235-	5717.976	43	. -	.	4.5-	3.5				1.195	1.596	401			2703.2674	C2	
2	36978.162	5		38993.130-	2014.966	-2	. -	.	2.5-	1.5				1.025	1.881	856			2703.4970		
	36977.975	3B																		2703.5107	
	36977.432	3																		2703.5504	
2	36975.467	9		8709.640-	45685.090	17	3.5-	4.5	3.5-	4.5	.308	.955	.647	0.308	0.955	647			2703.6940		
	36974.583	3																		2703.7587	
2	36974.213	6		11504.095-	48478.270	38	3.5-	3.5	3.5-	3.5	.86	.98	.12	0.859	0.970	111			2703.7857		
	36969.594	4												.80		.18				2704.1236	f S02JDG
	36969.222	3																		2704.1508	
	36967.631	3																		2704.2672	
	36965.776	4																		2704.6956	
	36956.970	4																		2705.0473	
2	36953.639	7		36953.625-	0.000	14	0.5-	0.5	0.5-	0.5	.86	3.14	228	0.920	3.150*	2230			2705.2912		
	36946.865	4																		2705.7872	
2	36945.345	7		36945.320-	0.000	25	1.5-	0.5	1.5-	0.5	1.04	3.15	211	1.030	3.150	2120			2705.8985		
	36944.347	3																		2705.9716	
2	36942.041	5		8198.666-	45140.685	22	2.5-	2.5	2.5-	2.5	.415	.840	.425	0.414	0.850	436			2706.1405		
	36941.153	6																		2706.2052	
	36934.642	3																		2706.6827	
2	36933.057	8		38948.000-	2014.966	23	2.5-	1.5	2.5-	1.5	1.08	1.88	.80	1.090	1.881	791			2706.7988		
	36926.857	3																		2707.2533	
	36925.221	4																		2707.3733	
	36922.662	3																		2707.5609	
	36917.492	7					1.5-	2.5						.58						2707.9401	J2535Q
	36916.283	3																		2708.0288	
2	36915.155	7		44193.995-	7273.862	22	3.5-	4.5	3.5-	4.5	1.200	1.545	.345	1.215	1.545	330			2708.1116		
2	36912.299	2		42630.250-	5717.976	25	. -	.	2.5-	3.5				1.150	1.596*	446			2708.3211		
	36911.468	3																		2708.3821	
	36905.844	3																		2708.7949	
	36903.586	3																		2708.9606	
	36897.989	3																		2709.3715	
2	36895.729	7H		11504.095-	48399.780	44	. -	.	3.5-	3.5				0.859	0.950	91			2709.5375		
	36895.326	4																		2709.5671	
2	36894.474	7		44392.825-	7498.364	13	1.5-	2.5	1.5-	2.5	.96	1.32	.36	0.950	1.321*	371			2709.6297		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	36271.205	6	40261.025-	3969.846	26	3.5-	2.5	3.5-	2.5	1.105	1.670	.565	1.105	1.670	565			2709.8698		
2	36229.164	2	42607.125-	5717.976	15	.	.	4.5-	3.5	.	.	.	1.130	1.596	466			2710.0197		
	36286.597	3				.	.	.	.	.	.	.	.	.	.	.			2710.2083	
2	35224.013	4	40853.860-	3969.846	-1	.	.	2.5-	2.5	.	.	.	1.160	1.670*	510			2710.3982		
	36253.807	4				.	.	.	.	.	.	.	.	.	.	.			2710.4134	
2	36222.284	4	14561.607-	51444.460	31	.	.	1.5-	2.5	.	.	.	1.149	0.910*	239			2710.4812		
	36221.540	4				.	.	.	.	.	.	.	.	.	.	.			2710.5800	
	36250.269	3				.	.	.	.	.	.	.	.	.	.	.			2710.6734	
	36279.273	3				.	.	.	.	.	.	.	.	.	.	.			2710.7466	
2	36277.058	3	42595.005-	5717.976	29	.	.	4.5-	3.5	.	.	.	1.115	1.596	481			2710.9094		
	36276.286	3				.	.	.	.	.	.	.	.	.	.	.			2710.9662	
	36274.228	3				.	.	.	.	.	.	.	.	.	.	.			2711.0734	
	36273.097	5				.	.	.	.	.	.	.	.	.	.	.			2711.2007	
2	36270.578	8	8198.666-	45069.320	-76	2.5-	2.5	2.5-	2.5	.415	.730	.315	0.414	0.730*	316			2711.3859		
	36267.075	5				.	.	.	.	.	.	.	.	.	.	.			2711.6435	
2	36265.740	7	32880.705-	2014.966	1	.	.	0.5-	1.5	.	.	.	1.050	1.881*	831			2711.7417		
	36255.363	6	13192.903-	50058.235	31	.	.	2.5-	3.5	.	.	.	0.372	1.000*	628			2711.7695		
2	36257.984	6	8198.666-	45056.650	0	2.5-	2.5	2.5-	2.5	.415	1.030	.615	0.414	1.030	616			2712.3124		
	36256.738	6				.	.	.	.	.	.	.	.	.	.	.			2712.4041	ZR Q
	36255.253	6				.	.	.	.	.	.	.	.	.	.	.			2712.4398	ZR Q
	36255.851	3				.	.	.	.	.	.	.	.	.	.	.			2712.4694	
	36254.191	6				.	.	.	.	.	.	.	.	.	.	.			2712.5916	
	36252.272	4				.	.	.	.	.	.	.	.	.	.	.			2712.7328	
	36248.959	3				.	.	.	.	.	.	.	.	.	.	.			2712.9767	
	36244.683	7				.	.	.	.	.	.	.	.	.	.	.			2713.2916	
	36240.511	3				.	.	.	.	.	.	.	.	.	.	.			2713.5989	
	36239.499	6				.	.	.	.	.	.	.	.	.	.	.			2713.6734	
2	36236.579	7	11504.095-	48340.695	-21	3.5-	4.5	3.5-	4.5	.86	1.26	.40	0.859	1.260*	401			2713.8886		
	36235.213	3				.	.	.	.	.	.	.	.	.	.	.			2713.9892	
	36234.603	3				.	.	.	.	.	.	.	.	.	.	.			2714.0342	
	36232.435	4				.	.	.	.	.	.	.	.	.	.	.			2714.1939	
	36231.626	3B				.	.	.	.	.	.	.	.	.	.	.			2714.2535	
2	36229.893	6	38844.845-	2014.966	14	2.5-	1.5	2.5-	1.5	1.34	1.88	.54	1.340	1.881	541			2714.3813		
	36229.614	3				.	.	.	.	.	.	.	.	.	.	.			2714.4018	
	36228.064	6				.	.	.	.	.	.	.	.	.	.	.			2714.5161	DJO 2J06
	36225.965	3				.	.	.	.	.	.	.	127	.	.	.			2714.6708	
	36222.901	3				.	.	.	.	.	.	.	.	.	.	.			2714.8967	
	36218.339	4				.	.	.	.	.	.	.	.	.	.	.			2715.2331	
	36216.960	5				.	.	.	.	.	.	.	.	.	.	.			2715.3348	
	36215.653	6				.	.	.	.	.	.	.	.	.	.	.			2715.3575	
	36216.113	5				.	.	.	.	.	.	.	.	.	.	.			2715.3973	
	36215.682	4				.	.	.	.	.	.	.	.	.	.	.			2715.4291	
	36212.411	1				.	.	.	.	.	.	.	.	.	.	.			2715.6704	
2	36211.371	8	10436.770-	47248.155	-14	4.5-	5.5	4.5-	5.5	.721	1.030	.309	0.724	1.030	306			2715.7471		
2	36799.704	7	40035.490-	3235.770	-16	.	.	1.5-	0.5	.	.	.	1.180	0.299*	881			2716.6082		
	36798.809	6				.	.	.	.	.	.	.	.	.	.	.			2716.6742	
	36798.023	5				.	.	.	.	.	.	.	.	.	.	.			2716.7323	
2	36797.679	5	42299.740-	5502.060	-1	.	.	2.5-	1.5	.	.	.	1.065	1.169	104			2716.7577		
	36797.465	7				.	.	.	.	.	.	.	.	.	.	.			2716.7735	
	36794.692	5				3.5-	3.5	.	.	.	.	213	.	.	.	.			2716.9782	4Q 2J06
	36791.949	3				.	.	.	.	.	.	.	.	.	.	.			2717.1808	
	36787.448	3				.	.	.	.	.	.	.	.	.	.	.			2717.5133	
	36785.410	3				.	.	.	.	.	.	.	.	.	.	.			2717.6638	
	36783.769	3				.	.	.	.	.	.	.	.	.	.	.			2717.7851	
2	36780.794	6	8709.640-	45490.434	0	3.5-	4.5	3.5-	4.5	.310	1.065	.755	0.308	1.065	757			2718.0049		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES
	36779.802	4																	2718.0782	
	36775.008	4																	2718.4326	
	35771.768	5																	2718.6721	
2	36769.944	7	8709.640-45479.584		0	3.5-	2.5	3.5-	2.5	.310	.895	.585	0.308	0.895	587			2718.8070		
2	36767.528	5	45405.840- 8638.233		-79	. - .		4.5-	5.5	.	.	.	1.090	1.514*	424			2718.9856	CQ	
	36766.969	5H																	2719.0270	
2	36765.064	4	10436.770-47201.830		4	. - .		4.5-	3.5	.	.	.	0.724	0.895	171			2719.1679		
2	36759.123	7	33774.085- 2014.966		4	2.5-	1.5	2.5-	1.5	1.16	1.88	.72	1.170	1.881*	711			2719.6074		
2	36758.967	7	44257.315- 7498.364		16	. - .		1.5-	2.5	1.44	.	.	1.185	1.321	136			2719.6189	f SI	
2	36757.436	4	42475.410- 5717.976		2	. - .		4.5-	3.5	.	.	.	1.140	1.596	456			2719.7322		
	36751.127	3																	2720.1991	
	36749.976	3																	2720.2843	
	36748.372	3																	2720.4031	
	36747.538	5																	2720.4648	
2	36746.157	1	40716.010- 3969.846		-7	. - .		3.5-	2.5	.	.	.	1.100	1.670*	570			2720.5671		
1	36742.766	4	38946.490- 2203.606-118			. - .		1.0-	1.0	.	.	.	1.060	1.495*	435			2720.8181	CQ	
	36741.868	5																	2720.8846	
	36741.563	4																	2720.9069	
	36738.818	3																	2721.1105	
2	36735.404	6	8709.640-45445.065		-21	3.5-	4.5	3.5-	4.5	.	.	.685	0.308	1.000*	692			2721.3634		
	36732.149	3																	2721.6046	
	36730.941	3																	2721.6941	
	36724.506	6				3.5-	2.5			.845	1.095	.250						2722.1711		
	36721.563	3																	2722.3892	
	36720.133	4																	2722.4953	
	36718.538	4																	2722.6135	ZR Q
	36717.077	5																	2722.7219	
2	36716.302	7	10436.770-47153.090		-18	4.5-	5.5	4.5-	5.5	.72	1.04	.32	0.724	1.040*	316			2722.7793		
2	36710.856	3	43989.695- 7278.862		23	. - .		3.5-	4.5	.	.	.	1.110	1.545*	435			2723.1833		
2	36709.910	5	38724.885- 2014.966		-9	. - .		2.5-	1.5	.	.	.	1.140	1.881	741			2723.2535		
2	36709.229	4	11504.095-48213.315		9	. - .		3.5-	3.5	.	.	.	0.859	1.040*	181			2723.3040		
	36706.917	6								1.100	.	.						2723.4755	f	
	36706.325	6								1.185	.	.						2723.5194	f	
	36705.523	4																2723.5790		
	36704.650	3																2723.6437		
2	36697.712	4	33712.675- 2014.966		3	0.5-	1.5	0.5-	1.5	1.31	1.88	.57	1.313	1.881	568			2724.1587		
2	36695.628	7	44193.995- 7498.364		-3	. - .		3.5-	2.5	.	.	.	1.215	1.321	106			2724.3134	SO	
	36695.120	5																	2724.3511	
	36693.323	5																	2724.4301	
2	36692.695	3H	10436.770-47129.430		35	. - .		4.5-	2.5	.	.	.	0.724	0.920	196			2724.5312		
	36692.591	3B																	2724.5389	
	36691.455	3																	2724.6233	
2	36688.964	5	40658.815- 3969.846		-5	3.5-	2.5	3.5-	2.5	.	.	.50	1.170	1.670*	500			2724.8083		
2	36687.165	6	39922.940- 3235.770		-5	1.5-	0.5	1.5-	0.5	.91	.30	.61	1.060	0.299*	761			2724.9419		
	36685.375	4																	2725.0749	
	36682.113	5																	2725.3172	
2	36680.429	4	44178.800- 7498.364		-7	. - .		2.5-	2.5	.	.	.	1.170	1.321*	151			2725.4423		
	36676.910	5																	2725.7038	
	36675.260	5																	2725.8265	
	36670.757	5																	2726.1612	
	36666.832	6																	2726.4530	
	36666.289	3																	2726.4934	ZR Q
	36665.789	4																	2726.5306	
	36663.552	7								1.165	1.165							2726.6970		
	36658.915	4								.	.	.							2727.0419	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS 62	OBS 61	OBS 60	TERM 62	TERM 61	TERM 60	OBS IS	TERM IS	WAVELENGTH	NOTES
2	36656.319	6	45294.560	-	8638.233	-8	.	.	5.5-	5.5	.	.	.	1.090	1.514*	424	.	.	2727.2350	
2	36654.345	6	8198.666	-	44853.015	-4	.	.	2.5-	2.5	.	.	.	0.414	0.920*	506	.	.	2727.3819	
	36652.853	5																	2727.4929	
2	36652.405	1	42370.412	-	5717.976	-31	.	.	3.5-	3.5	.	.	.	0.000	1.596	0	.	.	2727.5263	
	36650.990	5					3.5-	2.5			.	.	.475						2727.6316	SOO 2LNS
	36644.334	6									.	.	.						2728.1233	
	36642.070	3									.	.	.						2728.2941	
	36641.443	3									.	.	.						2728.3423	
	36640.213	5									.	.	.						2728.4339	
	36634.488	4									.	.	.						2728.8603	
2	36627.239	7	46335.210	-	9707.980	9	6.5-	6.5	6.5-	6.5	.	.	.47	1.010	1.485*	475	.	.	2729.4004	
2	36625.174	3	40595.070	-	3969.846	-50	.	.	1.5-	2.5	.	.	.	0.825	1.670	845	.	.	2729.5543	
	36623.724	3									.	.	.						2729.6624	
	36618.547	4									.	.	.						2730.0483	
2	36614.305	7	38529.265	-	2014.966	6	0.5-	1.5	0.5-	1.5	1.38	1.88	.50	1.380	1.881*	501	.	.	2730.3646	
2	36611.878	8	39347.645	-	3235.770	3	1.5-	0.5	1.5-	0.5	.94	.30	.64	0.940	0.299	641	.	.	2730.5456	
2	36604.330	6	44102.745	-	7498.364	-1	1.5-	2.5	1.5-	2.5	1.15	1.31	.16	1.160	1.321*	161	.	.	2731.1050	
	36604.059	3									.	.	.						2731.1289	
	36597.981	4									.	.	.						2731.5825	DJO 2LNS
	36597.980	4									.	.	.						2731.5826	DJ1 2LNS
	36595.017	3									.	.	.						2731.8038	
2	36593.300	5	40563.165	-	3969.846	-19	.	.	2.5-	2.5	.	.	.	0.995	1.670	675	.	.	2731.9320	
	36590.609	3									.	.	.						2732.1329	
2	36586.902	4	11504.095	-	48091.025	-28	.	.	3.5-	2.5	.	.	.	0.859	1.100	241	.	.	2732.4097	
2	36581.795	4	42299.740	-	5717.976	31	2.5-	3.5	2.5-	3.5	.	.	.50	1.065	1.596	531	.	.	2732.7912	SI
	36576.143	5									.	.	.						2733.2135	
2	36567.056	3	10436.770	-	47003.820	6	.	.	4.5-	3.5	.	.	.	0.724	0.935	211	.	.	2733.8928	
	36566.239	3									.	.	.						2733.9539	
	36563.599	4									.	.	.						2734.1513	
2	36557.880	4	8709.640	-	45267.550	-30	.	.	3.5-	4.5	.	.	.	0.308	1.045	737	.	.	2734.5790	
2	36555.457	6	43834.325	-	7278.862	-6	.	.	5.5-	4.5	.	.	.	1.090	1.545*	455	.	.	2734.7603	
	36554.200	3									.	.	.						2734.8543	ZR Q
2	36549.531	5	13192.903	-	49742.440	-6	2.5-	3.5	2.5-	3.5	.370	.975	.605	0.372	0.975	603	.	.	2735.2037	
2	36548.336	5	42050.415	-	5502.060	-19	.	.	1.5-	1.5	1.16	1.16		1.180	1.169*	11	.	.	2735.2932	
2	36547.740	1	45185.970	-	8638.233	3	.	.	6.5-	5.5	.	.	.	1.040	1.514	474	.	.	2735.3378	
	36545.711	3									.	.	.						2735.4896	
2	36544.155	7	43823.020	-	7278.862	-3	4.5-	4.5	4.5-	4.5	1.235	1.545	.31	1.235	1.545	310	.	.	2735.6061	
2	36543.358	3	40513.220	-	3969.846	-16	.	.	3.5-	2.5	.	.	.	0.925	1.670	745	.	.	2735.6658	
	36538.257	3									.	.	.						2736.0477	
	36525.935	3									.	.	.						2736.9708	
2	36525.133	6	8198.666	-	44723.835	-31	2.5-	2.5	2.5-	2.5	.	.	.39	0.414	0.810*	396	.	.	2737.0305	
	36522.414	3									.	.	.						2737.2346	
2	36521.639	4	38536.615	-	2014.966	-10	1.5-	1.5	1.5-	1.5	.	.	.89	1.000	1.881	881	.	.	2737.2927	
	36521.280	3									.	.	.						2737.3196	
2	36519.003	4	42236.985	-	5717.976	-6	.	.	3.5-	3.5	.	.	.	1.035	1.596	561	.	.	2737.4903	
2	36515.134	6	38530.110	-	2014.966	-10	2.5-	1.5	2.5-	1.5	.	.	.650	1.245	1.881	636	.	.	2737.7804	SO
	36513.349	5									.	.	.						2737.9142	
2	36507.220	6	8198.666	-	44705.905	-19	2.5-	3.5	2.5-	3.5	.411	.95	.54	0.414	0.950*	536	.	.	2738.3739	
	36506.039	3									.	.	.						2738.4625	
2	36499.152	5	40469.010	-	3969.846	-12	1.5-	2.5	1.5-	2.5	1.25	1.67	.42	1.250	1.670*	420	.	.	2738.9793	
2	36494.731	8	36494.740	-	0.000	-9	1.5-	0.5	1.5-	0.5	1.50	3.15	1.65	1.470	3.150	1680	.	.	2739.3111	
	36494.150	4									.	.	.						2739.3547	
	36493.213	3									.	.	.						2739.4250	
2	36492.610	6	43771.490	-	7278.262	-18	4.5-	4.5	4.5-	4.5	.	.	.	1.045	1.545	500	.	.	2739.4703	
	36489.039	5					3.5-	4.5			1.37	.74	.63						2739.7384	SOO

C	HAVERNUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	J2 - J1	G2	G1	D6	G2	G1	D6	IS	IS			
	36485.831	6											.46								
2	36480.247	5	41932.315-	5502.050	-8	0.5-	1.5	0.5-	1.5	1.62	1.16	.46		1.620	1.169*	451			2739.9793	DJ1 SOO	
2	36468.530	6	39704.305-	3235.770	-5	1.5-	0.5	1.5-	0.5	1.21	.29	.92		1.220	0.299*	921			2740.3987		
	36466.311	5				2.5-	2.5					.39							2741.2793		
2	36461.119	8	39696.890-	3235.770	-1	0.5-	0.5	0.5-	0.5	.90	.30	.60		0.900	0.299	601			2741.4461		
	36456.516	3																	2741.8365		
	36454.895	4																	2742.1827		
2	36453.814	3	41955.897-	5502.050	-23	.	.	2.5-	1.5					1.090	1.169	79			2742.3046		
	36451.756	4																	2742.3859		
	36451.544	4																	2742.5408		
	36449.178	6																	2742.5567		
2	36448.495	6	45086.735-	8638.233	-7	5.5-	5.5	5.5-	5.5	1.12	1.515	.395		1.120	1.514*	394			2742.7348		
	36446.136	3																	2742.7862		
2	36445.555	2	43943.935-	7498.364	-16	.	.	1.5-	2.5					1.095	1.321	226			2742.9637		
	36440.514	3																	2743.0074		
2	36436.994	6	41939.060-	5502.060	-6	2.5-	1.5	2.5-	1.5	1.04	1.17	.13		1.030	1.169*	139			2743.3869		
	36436.275	3																	2743.6519		
2	36435.942	4	43934.325-	7498.364	-19	.	.	1.5-	2.5					1.060	1.321	261			2743.7061		
2	36431.031	8	8709.640-	45140.685	-14	3.5-	2.5	3.5-	2.5			.55		0.308	0.850	542			2743.7312		
	36429.771	3																	2744.1010	SOO ZQ	
	36424.164	4																	2744.1960		
	36420.519	3				3.5-	3.5					.43							2744.6184		
	36416.010	4								1.02	1.02								2744.8931		
	36415.440	6																	2745.2330	SP	
2	36413.447	6	45051.680-	8638.233	0	3.5-	4.5	6.5-	5.5			.42		1.090	1.514*	424			2745.2760		
	36409.985	3																	2745.4262	DJ1 JQ	
	36407.753	3																	2745.6873		
	36405.330	3																	2745.8556		
	36401.450	4																	2746.0384		
	36397.328	3																	2746.3311		
2	36393.942	5	40363.785-	3969.846	3	2.5-	2.5	2.5-	2.5			.60		1.080	1.670*	590			2746.6422		
	36393.709	4				0.5-	0.5					1.51							2746.8977		
	36389.960	4																	2746.9153	J0515Q	
	36384.733	6				2.5-	3.5					.28							2747.1983		
	36382.149	3																	2747.5930	SO JQ	
	35381.493	5																	2747.7881		
	36375.041	4				2.5-	3.5					.55							2747.8377		
2	36373.492	3	45011.730-	8638.233	-5	.	.	4.5-	5.5					1.055	1.514	459			2748.3251	SI	
	36372.743	4																	2748.4422		
	36367.193	3																	2748.4988		
	36365.692	6				3.5-	4.5					.41							2748.9178		
	36364.932	3																	2749.0317		
	36364.188	3																	2749.0891		
2	36359.696	5	8709.640-	45069.320	16	3.5-	2.5	3.5-	2.5	.31	.73	.42		0.308	0.730*	422			2749.1454		
	36355.077	4																	2749.4851		
2	36353.526	2	44991.755-	8638.233	4	.	.	6.5-	5.5					1.145	1.514	369			2749.8344		
	36353.309	5																	2749.9517		
2	36351.228	5	42069.210-	5717.976	-6	.	.	3.5-	3.5					1.190	1.596	406			2749.9681		
	36349.751	5																	2750.1256		
2	36346.734	7	40316.585-	3969.846	-5	3.5-	2.5	3.5-	2.5			.58		1.085	1.670	585			2750.2373		
2	36345.635	3	15098.815-	51444.460	-10	.	.	1.5-	2.5					1.079	0.910*	169			2750.4656		
2	36343.360	4	42061.340-	5717.976	-4	4.5-	3.5	4.5-	3.5			.39		1.175	1.596	421			2750.5488	JQ	
	36339.258	5				3.5-	4.5					.28							2750.7210	JQ	
2	36332.146	3	43030.510-	7498.364	0	.	.	3.5-	2.5					1.020	1.321*	301			2751.0315	SI JQ	
2	36331.213	7	39566.980-	3235.770	3	1.5-	0.5	1.5-	0.5	1.18	.30	.88		1.180	0.299*	881			2751.5700		
																			2751.6407		

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
		36325.563	3																		2752.0687	
		36323.758	3																		2752.2055	
2		36322.437	5	38337.450	-	2014.966	3	1.5	1.5	1.5	1.5	1.16	1.88	.72	1.160	1.881	721			2752.3018		
		36319.112	3																		2752.5576	
		36314.068	6					3.5	3.5			1.09	1.37	.28							2752.9445	
		36309.022	3																		2753.3225	
		36306.974	5									1.26									2753.4778	f TRIPL
2		36302.643	6	38317.610	-	2014.966	-1	2.5	1.5	2.5	1.5	1.16	1.88	.725	1.170	1.881	711			2753.8064		
		36299.521	4					3.5	4.5												2754.0432	JQ SI
		36296.366	3																		2754.2326	
2		36295.158	3	8198.666	-	44493.850	-26	.	.	2.5	1.5				0.414	1.110*	696			2754.3743		
		36293.242	3									1.09	1.09								2754.5197	SP
		36292.315	4																		2754.5901	
		36290.294	3																		2754.7435	
		36290.072	3																		2754.7603	
		36288.801	6					2.5	3.5					.27							2754.8568	
2		36287.371	6	43566.215	-	7278.862	18	.	.	5.5	4.5			.44	1.120	1.545*	425			2754.9654		
		36280.272	4											.95							2755.5045	DJO 2JOG
		36272.017	3																		2756.1316	
2		36267.291	7	43765.665	-	7498.364	-10	2.5	2.5	2.5	2.5	1.11	1.32	.21	1.110	1.321*	211			2756.4908		
		36264.618	4																		2756.6940	
		36261.651	3																		2756.9196	
		36258.333	3																		2757.1719	
		36253.040	6																		2757.5744	
		36250.003	3																		2757.8055	
2		36248.319	5	13809.910	-	50058.235	-6	.	.	4.5	3.5				0.657	1.000*	343			2757.9336		
		36244.461	4																		2758.2272	
2		36244.027	7	40213.870	-	3969.846	3	2.5	2.5	2.5	2.5	1.28	1.67	.39	1.280	1.670*	390			2758.2602		
2		36240.790	4	12992.644	-	49233.475	-41	2.5	3.5	2.5	3.5	.64	.98	.34	0.643	0.980*	337			2758.5066		
2		36237.867	3	41955.897	-	5717.976	-54	.	.	2.5	3.5				1.090	1.596	506			2758.7291		
		36235.322	3																		2758.9229	
		36234.655	5																		2758.9737	
2		36231.059	6	41949.045	-	5717.976	-10	3.5	3.5	3.5	3.5			.52	1.050	1.596	546			2759.2475		
		36226.128	6																		2759.6231	
2		36221.069	6	41939.060	-	5717.976	-15	.	.	2.5	3.5				1.030	1.596*	566			2760.0086		
2		36215.593	6	8193.666	-	44415.300	-41*	2.5	3.5	2.5	3.5	.41	.94	.525	0.414	0.940	526			2760.3497		
2		36209.671	4	41711.700	-	5502.060	-49	.	.	1.5	1.5				1.130	1.169*	39			2760.8774	CQ	
2		36206.024	8	36206.050	-	0.000	-26	1.5	0.5	1.5	0.5	.87	3.14	2.27	0.870	3.150*	2280			2761.1555		
		36203.798	3																		2761.3253	
		36200.602	4																		2761.5686	
		36199.952	5																		2761.6187	
		36198.443	3																		2761.7338	
2		36192.797	5	44831.060	-	8536.233	-30	.	.	4.5	5.5				1.085	1.514	429			2762.1647		
		36190.636	3																		2762.3296	
2		36184.420	4	15641.100	-	51325.535	-15	.	.	3.5	2.5				1.040	0.990*	50			2762.8042		
2		36182.945	6	11504.095	-	47687.019	21	.	.	3.5	2.5				0.859	0.000*	0			2762.9168	C2	
2		36182.945	6	45890.950	-	9707.900	-25	.	.	5.5	6.5				1.070	1.485*	415			2762.9168	C2	
2		36178.686	7	40148.535	-	3969.846	-3	3.5	2.5	3.5	2.5	1.06		.61	1.060	1.670	610			2763.2421	S00	
		36175.166	4																		2763.5155	
2		36173.272	7	8198.666	-	44371.925	13	2.5	3.5	2.5	3.5	.405	.970	.565	0.414	0.970*	556			2763.6557		
		36170.432	6																		2763.8727	
		36165.502	3																		2764.2494	
		36164.774	4					2.5	2.5					.150							2764.3051	JQ 2JOG
2		36162.803	6	8198.666	-	44361.495	-26	2.5	2.5	2.5	2.5	.41	.86	.45	0.414	0.850*	436			2764.4558		
		36160.150	6																		2764.6586	

C	WAVELENGTH	I	T2	-	T1	O-C	OES J2 - J1	OES TERM J2 - J1	TERM	TERM	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	36157.289	3																	2764.8774	
	36155.827	3																	2764.9846	
	36153.058	6					5.5-	5.5			1.09	1.37	.278						2765.2010	
	36147.753	3																	2765.6068	
	36144.345	4																	2765.8676	
2	36143.394	4	8709.640-	44853.015	19		3.5-	2.5	3.5-	2.5	.31	.92	.61	0.308	0.920*	612			2765.9404	
2	36140.843	6	10436.770-	46577.625	-7		. -	. -	4.5-	3.5	.66			0.724	0.750*	26			2766.1352	f SO
	36140.484	3																	2766.1631	
	36138.619	3																	2766.3058	
2	36136.716	7	10436.770-	43573.500	-14		4.5-	5.5	4.5-	5.5	.720	1.015	.295	0.724	1.025	301			2766.4515	
	36136.213	7														.69			2766.4900	DJO 2J06
	36135.848	6																	2766.5180	
	36133.767	3																	2766.6773	
2	36129.357	5	43408.215-	7278.862	4		. -	. -	3.5-	4.5				1.080	1.545	465			2767.0150	
2	36128.186	7	10436.770-	46565.005	-49		4.5-	4.5	4.5-	4.5				0.724	1.040*	316			2767.1047	
2	36127.907	3	44766.125-	8638.233	15		. -	. -	4.5-	5.5				1.090	1.514*	424			2767.1261	
2	36127.026	7	8709.640-	44836.670	-4		3.5-	4.5	3.5-	4.5	.310	1.080	.770	0.308	1.085	777			2767.1936	
	36126.708	3																	2767.2179	
	36117.308	5									.74								2767.9382	f
	36112.717	3																	2768.2901	
2	36112.360	7	44750.600-	8638.233	-7		. -	. -	6.5-	5.5				1.150	1.514*	364			2768.3175	
	36111.096	4																	2768.4144	
2	36110.429	5	12992.644-	49103.065	8		2.5-	2.5	2.5-	2.5				0.643	0.955	312			2768.4655	
2	36108.334	3	44746.615-	8638.233	-48		. -	. -	4.5-	5.5				1.095	1.514	419			2768.6261	
2	36107.445	4	12048.548-	48156.010	-17		. -	. -	1.5-	2.5				-0.054	0.920	974			2768.6943	
	36107.126	3																	2768.7188	ZR Q
2	36106.284	6	41824.260-	5717.976	0		. -	. -	3.5-	3.5				1.120	1.596	476			2768.7833	
	36104.071	6																	2768.9531	
	36103.578	4																	2768.9909	
	36103.383	3																	2769.0058	
2	36101.668	5	41819.660-	5717.976	-16		. -	. -	4.5-	3.5				1.150	1.596	446			2769.1374	
	36101.317	9					0.5-	0.5			.11	.38	.27						2769.1643	GQ
	36097.441	3																	2769.4617	
	36093.224	3																	2769.7852	
	36088.976	3																	2770.1113	
	36083.690	3																	2770.1332	
	36038.113	3																	2770.1775	
2	36087.614	3	13013.685-	49101.285	14		. -	. -	5.5-	4.5				0.950	1.050*	100			2770.2158	
	36086.436	4																	2770.3063	
2	36077.952	3	40047.795-	3969.846	3		. -	. -	3.5-	2.5				1.100	1.670*	570			2770.9578	
	36075.896	3																	2771.1157	
	36071.711	3																	2771.4372	
	36059.910	3																	2771.5756	
2	36069.589	7	43348.445-	7278.862	6		. -	. -	5.5-	4.5				1.115	1.545	430			2771.6003	
	36068.338	6																	2771.6964	
	36067.665	4																	2771.7481	
2	36065.635	7	40035.490-	3969.846	-8		. -	. -	1.5-	2.5				1.180	1.670*	490			2771.9041	
	36063.375	3																	2772.0779	
	36052.561	7																	2772.1404	
	36061.794	3																	2772.1994	
2	36060.433	9	36060.445-	0.000	-7		1.5-	0.5	1.5-	0.5	1.525	3.14	1615	1.520	3.150*	1630	7		2772.3037	
2	36057.166	3	41775.135-	5717.976	7		. -	. -	4.5-	3.5				1.070	1.596	526			2772.5552	
	36053.419	4																	2772.8434	
2	36047.659	9	39062.615-	2014.966	1		2.5-	1.5	2.5-	1.5	1.11	1.88	.77	1.110	1.831	771			2773.2872	
2	36045.676	8	40015.520-	3969.846	2		2.5-	2.5	2.5-	2.5	1.07	1.66	.59	1.070	1.670*	600			2773.4391	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	36043.386	3	40013.240-		3969.846	-8	.	.	2.5-	2.5	.	.	.	1.185	1.670	485	.	.	2773.6153	
2	36042.475	4	12043.548-		48091.025	-2	.	.	1.5-	2.5	.	.	.	-0.054	1.100	1154	.	.	2773.6854	
	36041.655	4					.	.			.	.	.				.	.	2773.7484	
	36040.296	3					.	.			.	.	.				.	.	2773.8531	
	36038.485	4					.	.			.	.	.				.	.	2773.9924	
2	36036.364	6	45278.700-		9242.356	20	.	.	4.5-	3.5	.	.	.	1.090	1.369	279	.	.	2774.1558	
	36035.941	3					.	.			.	.	.				.	.	2774.1883	
2	36030.684	3	43529.065-		7498.364	-17	.	.	1.5-	2.5	.	.	.	1.040	1.321*	281	.	.	2774.5931	
	36029.294	3					.	.			.	.	.				.	.	2774.7002	
	36027.646	3					.	.			.	.	.				.	.	2774.8271	
	36012.940	4					.	.			.	.	.				.	.	2775.9603	
	36011.339	3					.	.			.	.	.				.	.	2776.0798	
	36007.882	3					.	.			.	.	.				.	.	2776.3502	
2	36007.041	9	39976.890-		3969.846	-3	3.5-	2.5	3.5-	2.5	1.16	1.66	.50	1.170	1.670	500	-24*		2776.4151	
	36006.631	3					.	.			.	.	.				.	.	2776.4467	
	36005.911	5					.	.			.	.	.				.	.	2776.5022	
	36003.678	4					.	.			.	.	.				.	.	2776.6744	
2	36002.002	6	38016.955-		2014.966	3	0.5-	1.5	0.5-	1.5	1.39	1.88	.49	1.390	1.881	491			2776.8037	
2	35998.397	3	44636.635-		8638.233	-5	.	.	4.5-	5.5	.	.	.	1.075	1.514	439			2777.0818	
	35997.803	3					.	.			.	.	.				.	.	2777.1276	
2	35997.096	3	38012.065-		2014.966	-3	.	.	2.5-	1.5	.	.	.	0.990	1.881*	891			2777.1822	
2	35996.106	7	41498.165-		5502.060	1	0.5-	1.5	0.5-	1.5	.33	1.175	.845	0.325	1.169	844			2777.2586	
	35992.348	3					.	.			.	.	.				.	.	2777.5485	
	35987.704	3					.	.			.	.	.				.	.	2777.9070	
	35985.545	4					.	.			.	.	.				.	.	2778.0737	
	35985.181	3					.	.			.	.	.				.	.	2778.1018	
	35983.524	5					.	.			.	.	.				.	.	2778.2297	
2	35981.104	6	8709.640-		44690.770	-26	.	.	3.5-	4.5	.	.	.	0.308	0.000*	0			2778.4166	
	35978.453	3					.	.			.	.	.				.	.	2778.6213	
	35976.040	8					.	.			2.201	.	.189				.	.	2778.8077	f SI
2	35964.847	7	37979.815-		2014.966	-2	1.5-	1.5	1.5-	1.5	1.10	1.88	.78	1.100	1.881*	781			2779.6725	
2	35963.579	6	39933.405-		3969.846	20	.	.	3.5-	2.5	.	.	.	1.045	1.670	625			2779.7706	
2	35962.161	3	41464.210-		5592.060	11	.	.	1.5-	1.5	.	.	.	1.065	1.169	104			2779.8802	
2	35961.275	6	45203.680-		9242.356	-49	2.5-	3.5	2.5-	3.5	1.15	1.37	.22	1.150	1.369*	219			2779.9487	
	35959.794	3					.	.			.	.	.				.	.	2780.0632	
	35956.267	3					.	.			.	.	.				.	.	2780.3359	
2	35952.872	4	46141.340-		10188.463	-5	1.5-	0.5	1.5-	0.5	.96	2.40	144	0.960	2.402*	1442			2780.5984	
	35950.180	4					.	.			.	.	.				.	.	2780.8067	
2	35943.140	3	13809.910-		49753.063	-13	.	.	4.5-	3.5	.	.	.	0.657	1.000*	343			2781.3513	
2	35942.469	9	37957.445-		2014.966	-10	2.5-	1.5	2.5-	1.5	1.26	1.88	.62	1.260	1.881*	621			2781.4033	
2	35941.081	7	41659.050-		5717.976	7	.	.	4.5-	3.5	.	.	.	1.120	1.596	476			2781.5107	
	35936.315	5					.	.			.	.	.				.	.	2781.8796	
	35933.524	3					.	.			.	.	.				.	.	2782.0957	
2	35932.529	3	13809.910-		49742.440	-1	.	.	4.5-	3.5	.	.	.	0.657	0.975	318			2782.1727	
	35929.013	6					.	.			.	.	.				.	.	2782.4450	
	35925.621	4					.	.			.	.	.				.	.	2782.7077	
2	35924.639	1	43203.480-		7278.852	21	.	.	5.5-	4.5	.	.	.	1.120	1.545	425			2782.7838	
	35920.179	4					.	.			.	.	.				.	.	2783.1293	
2	35918.647	6	10436.770-		65355.430	-13	.	.	4.5-	3.5	.	.	.	0.724	0.950	226			2783.2481	
	35917.608	4					.	.			.	.	.				.	.	2783.3286	
	35916.561	4					.	.			.	.	.				.	.	2783.4097	
	35915.790	4					.	.			.	.	.				.	.	2783.4695	
	35911.763	3					.	.			.	.	.				.	.	2783.7816	
2	35910.342	8	41628.325-		5717.976	-7	4.5-	3.5	4.5-	3.5	.	.	.	1.155	1.596	441			2783.8918	
2	35909.851	4	43408.215-		7493.364	0	.	.	3.5-	2.5	.	.	.	1.080	1.321	241			2783.9298	

C	WAVENUMBER	I	12	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG	IS	IS		
2	35909.048	3	10436.770	-46345.820	-2	. . .	4.5-	4.5	. . .	. . .	. . .	. . .	. . .	0.724	1.030	306	. . .	. . .	2783.9921	
2	35903.796	5	39873.620	-3969.846	22	. . .	3.5-	2.5	. . .	. . .	. . .	. . .	. . .	1.160	1.670*	510	. . .	. . .	2784.3994	
2	35903.454	6	41621.445	-5717.976	-15	. . .	2.5-	3.5	. . .	. . .	. . .	. . .	. . .	1.065	1.596	531	. . .	. . .	2784.4259	
2	35902.725	9	35902.735	-0.000	-10	1.5-	0.5	1.5-	0.5	. . .	. . .	. . .	. . .	1.605	3.150	1545	. . .	26	2784.4824	
2	35901.373	3	44539.630	-8638.233	-24	. . .	6.5-	5.5	. . .	. . .	. . .	. . .	. . .	1.060	1.514	454	. . .	. . .	2784.5873	
2	35897.683	3	35897.685	-0.000	-2	. . .	0.5-	0.5	. . .	. . .	. . .	. . .	. . .	2.170	3.150*	980	. . .	. . .	2784.8735	
	35896.693	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2784.9503	
2	35896.290	4	39866.140	-3969.846	-4	. . .	2.5-	2.5	. . .	. . .	. . .	. . .	. . .	1.095	1.670	575	. . .	. . .	2784.9816	
	35892.508	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.2751	
	35891.270	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.3712	
	35888.855	8				2.5-	3.5		. . .	. . .	.31	. . .	. . .				. . .	. . .	2785.5586	JQ
	35887.471	4				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.6660	
	35886.770	4				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.7204	
	35885.353	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.8305	
	35883.389	4				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2785.9829	
	35881.629	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.1196	
	35881.316	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.1439	
	35880.984	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.1697	
	35879.924	6				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.2520	
2	35877.985	3	43156.875	-7278.862	-28	. . .	5.5-	4.5	. . .	. . .	. . .	. . .	. . .	1.160	1.545*	385	. . .	. . .	2786.4026	
2	35877.808	4	39847.645	-3969.846	9	. . .	1.5-	2.5	. . .	. . .	. . .	. . .	. . .	0.940	1.670	730	. . .	. . .	2786.4163	
	35875.900	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.5645	
	35873.137	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2786.7792	
2	35872.310	3	43370.680	-7498.364	-6	. . .	2.5-	2.5	. . .	. . .	. . .	. . .	. . .	1.265	1.321	56	. . .	. . .	2786.8434	
2	35866.775	4	43145.645	-7278.862	-8	. . .	3.5-	4.5	. . .	. . .	. . .	. . .	. . .	1.195	1.545	350	. . .	. . .	2787.2735	
2	35866.043	8	39101.810	-3235.770	3	1.5-	0.5	1.5-	0.5	.98	.30	.68	. . .	0.980	0.299*	681	. . .	-30*	2787.3304	
	35865.597	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2787.3651	
	35864.017	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2787.4879	
	35860.494	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2787.7617	
2	35859.492	7	37874.470	-2014.966	-12	1.5-	1.5	1.5-	1.5	1.015	1.88	.865	. . .	1.030	1.881	851	. . .	. . .	2787.8396	
	35858.786	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2787.8945	
	35858.230	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2787.9377	
	35853.927	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2788.2724	
	35850.068	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2788.5725	
	35849.450	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2788.6206	
2	35844.545	7	47643.785	-11799.241	1	4.5-	5.5	4.5-	5.5	. . .	. . .	.27	. . .	1.100	1.373*	273	. . .	. . .	2789.0022	
	35842.411	4				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.1683	
	35840.601	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.3091	
	35839.861	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.3667	
	35837.239	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.5708	
	35834.739	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.7654	
	35834.460	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2789.7872	
	35831.017	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.0552	
	35829.035	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.2057	
2	35827.701	6	44465.940	-8638.233	-6	5.5-	5.5	5.5-	5.5	1.071	1.514	.443	. . .	1.095	1.514	419	. . .	. . .	2790.3135	
	35824.304	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.5781	
2	35823.671	4	41325.730	-5502.060	1	0.5-	1.5	0.5-	1.5	.56	1.17	.61	. . .	0.560	1.169*	609	. . .	. . .	2790.6274	
	35822.869	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.6899	
	35820.762	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.8540	
	35820.465	5				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2790.8772	
2	35818.898	8	41536.885	-5717.976	-11	4.5-	3.5	4.5-	3.5	1.155	1.595	.440	. . .	1.155	1.596	441	. . .	. . .	2790.9993	
	35816.503	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2791.1859	
	35815.305	4				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2791.2793	
	35813.165	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2791.4461	
	35812.180	3				. . .			. . .	. . .	. . .	. . .	. . .				. . .	. . .	2791.5229	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
2	35811.535	4	41529.540-	5717.976	-29	.	.	4.5-	3.5	.	.	.	1.165	1.596	431	.	.	2791.5732		
2	35811.305	5	44449.545-	8638.233	-7	.	.	6.5-	5.5	.	.	.	1.170	1.514	344	.	.	2791.5911		
	35809.007	3				.	.			.	.	.				.	.	2791.7702	
	35806.929	3				.	.			.	.	.				.	.	2791.9323	
	35806.082	2				.	.			.	.	.				.	.	2791.9983	
	35304.507	3				.	.			.	.	.				.	.	2792.1211	
	35803.797	3				.	.			.	.	.				.	.	2792.1765	
	35801.857	3				.	.			.	.	.				.	.	2792.3278	
	35801.001	3				.	.			.	.	.				.	.	2792.3946	
2	35800.087	3	41518.100-	5717.976	-37	.	.	2.5-	3.5	.	.	.	1.160	1.596	436	.	.	2792.4659		
	35799.604	3				.	.			.	.	.				.	.	2792.5036	
2	35796.201	3	43075.060-	7278.862	3	.	.	4.5-	4.5	.	.	.	1.080	1.545	465	.	.	2792.7690		
2	35794.920	7	47594.160-	11799.241	1	5.5-	5.5	5.5-	5.5	1.090	1.375	.285	1.090	1.373	283	.	.	2792.8690		
2	35792.596	6	41294.660-	5502.060	-4	.	.	2.5-	1.5	.	.	.	1.180	1.169	11	.	.	2793.0503		
	35792.151	3				.	.			.	.	.				.	.	2793.0851	
	35790.313	3				.	.			.	.	.				.	.	2793.2285	
	35789.381	3				.	.			.	.	.				.	.	2793.3013	
2	35783.831	8	43287.195-	7498.364	0	1.5-	2.5	1.5-	2.5	1.205	1.315	.110	1.205	1.321	116	.	.	2793.3442		
	35787.280	3				.	.			.	.	.				.	.	2793.4715	
1	35785.206	3	35785.250-	0.000	-44	.	.	1.0-	0.0	.	.	.	0.530	0.000*	0			2793.6272	-165*	
	35783.463	3				.	.			.	.	.				.	.	2793.7632	
	35781.493	3				.	.			.	.	.				.	.	2793.9171	
	35777.537	3				.	.			.	.	.				.	.	2794.2221	
	35774.015	4				.	.			.	.	.				.	.	2794.5011	
2	35773.453	9	43052.285-	7278.862	30	5.5-	4.5	5.5-	4.5	1.140	1.545	.405	1.150	1.545	395	.	.	2794.5450		
	35771.236	4				.	.			.	.	.				.	.	2794.7143	
2	35770.054	3	12992.644-	48762.625	73	.	.	2.5-	3.5	.	.	.	0.643	0.820*	177	.	.	2794.8106		
2	35759.379	4	45011.730-	9242.356	5	.	.	4.5-	3.5	.	.	.	1.055	1.369	314	.	.	2794.8633		
	35766.773	4				.	.			.	.	.				.	.	2795.0670	
	35764.515	3				.	.			.	.	.				.	.	2795.2434	
	35763.574	3				.	.			.	.	.				.	.	2795.3170	
	35763.398	3				.	.			.	.	.				.	.	2795.3308	
	35763.056	3				.	.			.	.	.				.	.	2795.3575	
2	35762.512	9	39732.360-	3969.846	-2	3.5-	2.5	3.5-	2.5	1.265	1.660	.395	1.275	1.670	395			2795.4000	-69	
	35761.862	4				.	.			.	.	.				.	.	2795.4508	
	35761.511	3				.	.			.	.	.				.	.	2795.4783	
	35758.289	3				.	.			.	.	.				.	.	2795.7302	
2	35756.449	9	37771.420-	2014.966	-5	1.5-	1.5	1.5-	1.5	1.460	1.880	.42	1.470	1.881*	411	.	.	2795.8740		
2	35755.962	5	10436.770-	46192.700	32	.	.	4.5-	3.5	.	.	.	0.724	0.950	226	.	.	2795.9121		
	35755.426	3				.	.			.	.	.				.	.	2795.9493	
	35751.352	3				.	.			.	.	.				.	.	2796.2727	
	35750.820	3				.	.			.	.	.				.	.	2796.3143	
	35750.448	3				.	.			.	.	.				.	.	2796.3434	
	35750.066	3				.	.			.	.	.				.	.	2796.3733	
	35748.316	3				.	.			.	.	.				.	.	2796.5102	
2	35745.494	3	44383.735-	8638.233	-18	.	.	5.5-	5.5	.	.	.	1.090	1.514*	424	.	.	2796.7317		
2	35745.010	1	12992.644-	48737.664	-10	.	.	2.5-	2.5	.	.	.	0.643	0.970*	327	.	.	2796.7688		
	35742.293	3				.	.			.	.	.				.	.	2796.9814	
	35741.405	3				.	.			.	.	.				.	.	2797.0509	
2	35740.249	7	41458.205-	5717.976	20	.	.	4.5-	3.5	.	.	.	1.130	1.596	466	.	.	2797.1414		
	35739.347	3				.	.			.	.	.				.	.	2797.2903	
	35737.579	3				.	.			.	.	.				.	.	2797.3504	
	35735.620	3				.	.			.	.	.				.	.	2797.5037	
2	35734.455	3	39704.305-	3969.846	-4	.	.	1.5-	2.5	.	.	.	1.220	1.670*	450	.	.	2797.5949		
	35734.073	3				.	.			.	.	.				.	.	2797.6248	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
	35731.211	3																	2797.8489	
	35728.712	3																	2798.0446	
	35727.321	3																	2798.1536	
2	35726.195	7	35726.195-		0.000	0	0.5-	0.5	0.5-	0.5	1.55	3.14	159	1.550	3.150*	1600			2798.2418	MN Q
	35725.755	3																	2798.2763	
	35722.103	3																	2798.5623	
	35720.664	3																	2798.6751	
	35720.035	3																	2798.7244	
	35719.825	3																	2798.7408	
	35719.049	3																	2798.8016	
	35718.146	5					4.5-	4.5			1.225	1.545	.32						2798.8724	
2	35717.511	3	10436.770-46154.290			-9	.	.	4.5-	3.5				0.724	1.090*	366			2798.9222	
	35712.329	3																	2799.3283	
	35709.355	4																	2799.5615	
	35707.893	3																	2799.6761	
	35707.503	3																	2799.7067	
	35706.547	3																	2799.7816	
2	35705.637	3	8709.640-44415.300			-23*	.	.	3.5-	3.5				0.308	0.940	632			2799.8530	
2	35700.816	6	41202.885- 5502.060			-9	1.5-	1.5	1.5-	1.5			.10	1.070	1.169*	99			2800.2311	DJO
	35700.244	3																	2800.2760	
	35699.766	3																	2800.3135	
2	35699.091	5	44941.447- 9242.356			0	3.5-	3.5	3.5-	3.5	1.23	1.37	.143	1.230	1.369*	139			2800.3664	
	35698.622	3																	2800.4032	
	35697.954	3																	2800.4556	
	35697.474	3																	2800.4933	
	35695.624	4																	2800.6384	
	35693.452	3																	2800.8089	
	35691.683	4																	2800.9477	
	35689.968	3																	2801.0823	
2	35685.367	6	46411.689-10726.322			0	3.5-	4.5	3.5-	4.5	1.08	1.39	.31	1.080	1.391*	311			2801.4434	
	35684.839	4																	2801.4810	
	35682.931	3																	2801.6347	
	35682.406	3																	2801.6759	
	35680.629	3																	2801.8155	
	35680.389	4																	2801.8343	
	35680.094	3																	2801.8575	
	35679.361	3																	2801.9150	
	35676.705	5																	2802.1236	
	35676.310	4																	2802.1547	
	35675.325	3																	2802.2320	
	35673.829	4																	2802.3496	
	35673.255	4																	2802.3947	
	35672.959	6																	2802.4179	
	35672.581	3																	2802.4476	
	35670.625	5																	2802.6013	
	35668.490	3																	2802.7691	
	35667.451	5																	2802.8507	
2	35663.843	6	41381.835- 5717.976			-16	.	.	4.5-	3.5				1.145	1.596	451			2803.1343	
	35662.180	3																	2803.2650	
	35661.412	3																	2803.3254	
2	35659.583	3	35659.575-		0.000	8	.	.	0.5-	0.5				0.460	3.150*	2690			2803.4692	-114*
	35657.880	3																	2803.6031	
2	35653.243	4	42932.035- 7278.862			20	.	.	3.5-	4.5				1.170	1.545	375			2803.9677	
	35652.359	3																	2804.0372	
2	35651.858	7	8709.640-44361.495			3	3.5-	2.5	3.5-	2.5	.30	.85	.545	0.308	0.850*	542			2804.0766	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS D6	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	HAVELENGTH	NOTES
2	35647.282	5	43145.645	-	7498.364	1	.	.	3.5-	2.5	.	.	.	1.195	1.321	126	.	.	2804.4366	
	35646.927	3					.	.			.	.	.				.	.	2804.4645	
	35646.669	3					.	.			.	.	.				.	.	2804.4848	
2	35644.927	5	38220.705	-	3235.770	-8	.	.	0.5-	0.5	.	.	.	1.050	0.299*	751	.	.	2804.6219	
	35644.567	3					.	.			.	.	.				.	.	2804.6502	
2	35641.799	8	39611.620	-	3969.846	25	.	.	3.5-	2.5	.	.	.	1.190	1.670*	480	.	.	2804.8681	
2	35638.433	1	12048.548	-	47687.019	-38	.	.	1.5-	2.5	.	.	.	-0.054	0.000*	0	.	30*	2805.1330	
	35635.306	5					.	.			.	.	.				.	.	2805.3792	
2	35634.214	7	41352.185	-	5717.976	5	.	.	4.5-	3.5	.	.	.	1.225	1.596	371	.	.	2805.4651	
	35633.826	4					.	.			.	.	.				.	.	2805.4957	
	35632.955	3					.	.			.	.	.				.	.	2805.5643	
	35632.391	3					.	.			.	.	.				.	.	2805.6087	
2	35631.886	5	41133.945	-	5502.060	1	.	.	1.5-	1.5	.	.	.	1.210	1.169*	41	.	.	2805.6484	
	35630.732	3					.	.			.	.	.				.	.	2805.7393	
	35630.175	3					.	.			.	.	.				.	.	2805.7832	
2	35629.435	4	42908.300	-	7278.862	-2	.	.	5.5-	4.5	.	.	.	1.105	1.545	440	.	.	2805.8414	
	35626.672	3					.	.			.	.	.				.	.	2806.0591	
	35626.390	3					.	.			.	.	.				.	.	2806.0813	
2	35626.024	9	37640.995	-	2014.966	-5	2.5-	1.5	2.5-	1.5	1.34	1.88	.54	1.350	1.881*	531	.	.	2806.1101	
2	35625.369	5	12892.644	-	48618.050	-37	.	.	2.5-	3.5	.	.	.	0.643	0.920*	277	.	.	2806.1617	C2
2	35625.369	5	11504.095	-	47129.430	34	.	.	3.5-	2.5	.	.	.	0.859	0.920	61	.	.	2806.1617	C2
2	35623.654	3	8198.666	-	43822.335	-15	.	.	2.5-	2.5	.	.	.	0.414	0.950*	536	.	-520*	2806.2968	
	35620.298	4					.	.			.	.	.				.	.	2806.5612	
2	35619.666	5	44257.905	-	8638.233	-6	.	.	6.5-	5.5	.	.	.	1.130	1.514	384	.	.	2806.6110	
	35619.079	3					.	.			.	.	.				.	.	2806.6573	
	35618.371	4					.	.			.	.	.				.	.	2806.7131	
	35617.408	3					.	.			.	.	.				.	.	2806.7889	
1	35616.376	3	35616.875	-	0.000	1	.	.	1.0-	0.0	.	.	.	1.000	0.000*	0	.	.	2806.8309	
2	35614.233	9	35614.250	-	0.000	-12	.	.	1.5-	0.5	.	.	.	1.560	3.150	1590	.	-72	2807.0388	
	35613.421	5					.	.			.	.	.				.	.	2807.1032	
	35612.841	3					.	.			.	.	.				.	.	2807.1489	
	35612.440	5					.	.			.	.	.				.	.	2807.1805	
	35611.592	3					.	.			.	.	.				.	.	2807.2474	
	35609.413	4					.	.			.	.	.				.	.	2807.4188	
2	35605.961	3	13013.685	-	48619.650	-4	.	.	5.5-	4.5	.	.	.	0.950	1.000*	50	.	.	2807.6913	
	35604.920	3					.	.			.	.	.				.	.	2807.7734	
	35603.010	3					.	.			.	.	.				.	.	2807.9241	
	35601.807	3					.	.			.	.	.				.	.	2808.0190	
	35601.109	4					.	.			.	.	.				.	.	2808.0740	
	35600.737	3					.	.			.	.	.				.	.	2808.1034	
2	35597.493	6	43095.860	-	7498.364	-3	1.5-	2.5	1.5-	2.5	1.12	1.32	.20	1.120	1.321*	201	.	.	2808.3593	
2	35597.163	4	39566.980	-	3969.846	29	.	.	1.5-	2.5	.	.	.	1.180	1.670*	490	.	.	2808.3853	
	35596.461	4					.	.			.	.	.				.	.	2808.4407	
	35595.974	3					.	.			.	.	.				.	.	2808.4791	
	35595.630	4					.	.			.	.	.				.	.	2808.5063	
	35595.217	3					.	.			.	.	.				.	.	2808.5389	
2	35594.919	7	42873.785	-	7278.862	-4	.	.	5.5-	4.5	.	.	.	1.215	1.545	330	.	.	2808.5624	
	35583.805	3					.	.			.	.	.				.	.	2809.0449	
	35583.433	3					.	.			.	.	.				.	.	2809.0743	
	35587.514	4					.	.			.	.	.				.	.	2809.1468	
2	35586.847	7	35586.850	-	0.000	-3	1.5-	0.5	1.5-	0.5	1.16	3.14	198	1.160	3.150*	1990	.	-72	2809.1995	
	35586.165	3					.	.			.	.	.				.	.	2809.2533	
	35585.687	4					.	.			.	.	.				.	.	2809.2910	
	35578.037	5					.	.			.	.	.				.	.	2809.8951	
	35577.146	3					.	.			.	.	.				.	.	2809.9655	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
		35576.818	3																		2809.9914		
		35576.516	4																			2810.0153	
2		35575.518	3	11504.095	-	47079.610	3	.	.	3.5-	2.5	.	.	.	0.859	0.960*	101				2810.0941		
2		35573.068	6	10435.770	-	46009.840	-2	4.5-	4.5	4.5-	4.5	.	.	.32	0.724	1.050	326				2810.2876		
		35571.831	3																			2810.3854	
2		35569.721	5	13192.903	-	48762.625	-1	.	.	2.5-	3.5	.	.	.	0.372	0.820*	448				2810.5521		
		35567.943	3																			2810.6926	
		35566.834	3																			2810.7763	
2		35565.824	7	37580.805	-	2014.966	-15	2.5-	1.5	2.5-	1.5	1.215	1.830	.665	1.215	1.881	666		4*		2810.8601		
		35565.218	3																			2810.9080	
		35563.027	3																			2811.0811	
2		35561.852	7	39531.705	-	3969.846	-7	3.5-	2.5	3.5-	2.5	1.060	1.670	.61	1.060	1.670	610		-16*		2811.1740		
		35561.415	3																			2811.2086	
2		35561.072	3	12992.644	-	48553.715	1	.	.	2.5-	2.5	.	.	.	0.643	0.640*	3				2811.2357		
2		35560.095	6	41062.170	-	5502.060	-15	1.5-	1.5	1.5-	1.5	1.42	1.17	.253	1.425	1.169	256				2811.3129		
2		35558.699	7	42837.570	-	7278.862	-9	5.5-	4.5	5.5-	4.5	1.215	1.545	.330	1.220	1.545	325				2811.4233		
		35557.893	3																			2811.4870	
		35557.147	3																			2811.5460	
		35550.903	3																			2812.0399	
		35548.639	3																			2812.2190	
2		35545.788	6	35545.800	-	0.000	-12	0.5-	0.5	0.5-	0.5	.950	3.140	2.19	0.961	3.150	2189		-191		2812.4445		
		35544.564	3																			2812.5414	
1		35544.245	1	6313.866	-	41858.135	-24	.	.	4.0-	3.0	.	.	.	0.487	1.090	603				2812.5666		
		35539.222	3																			2812.9642	
		35536.709	4																			2813.1631	
		35535.813	3																			2813.2336	
		35534.208	3																			2813.3611	
		35533.764	4																			2813.3963	
		35531.453	4																			2813.5793	
		35529.787	3																			2813.7112	
		35529.120	3																			2813.7640	
		35528.042	3																			2813.8494	
		35527.561	4																			2813.8875	
		35527.269	3																			2813.9106	
		35527.070	3																			2813.9264	
		35526.612	3																			2813.9627	
2		35525.100	5	41243.030	-	5717.976	-4	3.5-	3.5	3.5-	3.5	1.145	1.595	.45	1.145	1.596	451				2814.0824		
2		35523.769	3	44766.125	-	9242.356	0	.	.	4.5-	3.5	.	.	.	1.090	1.369*	279				2814.1879		
		35522.457	3																			2814.2918	
		35521.485	3																			2814.3688	
		35520.785	4																			2814.4243	
2		35520.410	5	37535.410	-	2014.966	-34*	2.5-	1.5	2.5-	1.5	1.14	1.88	.74	1.140	1.881	741				2814.4540		
		35519.972	3																			2814.4887	
		35518.694	3																			2814.5900	
		35517.753	4																			2814.6646	
		35517.591	3																			2814.6774	
		35517.131	4																			2814.7139	
		35516.338	3																			2814.7767	
		35514.720	3																			2814.9050	
2		35512.738	6	8198.666	-	43711.415	-11	2.5-	3.5	2.5-	3.5	.410	.955	.545	0.414	0.955	541				2815.0621		
		35512.459	4																			2815.0842	
		35511.440	3																			2815.1650	
		35509.753	3																			2815.2987	
		35509.462	3																			2815.3218	
		35508.728	3																			2815.3800	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	J2 - J1				J2 - J1	J2 - J1	J2 - J1					IS	IS
	35507.914	3																	2815.4445	
	35507.150	3																	2815.5051	
	35505.743	3																	2815.6167	
	35505.177	3																	2815.6616	
2	35504.295	4	44746.615-	9242.356	36	.	.	4.5-	3.5					1.095	1.369	274		2815.7315	CQ	
2	35503.834	9	41221.810-	5717.976	0	4.5-	3.5	4.5-	3.5	1.180	1.595	.415		1.180	1.596	416		2815.7681		
	35503.241	3																	2815.8151	
	35501.315	3																	2815.9679	
2	35499.636	3	11504.095-	47003.820	-39	.	.	3.5-	3.5					0.859	0.935	76		2816.0971		
	35498.335	5																	2816.2043	
	35497.826	3																	2816.2447	
	35497.083	4																	2816.3036	
	35496.458	3																	2816.3532	
	35495.944	3																	2816.3940	
2	35495.374	5	39465.195-	3969.846	25	.	.	2.5-	2.5					1.070	1.670	600		2816.4392		
	35493.119	5																	2816.6182	
	35492.060	3																	2816.7022	
	35491.751	3																	2816.7268	
	35486.915	3																	2817.1106	
	35484.061	3																	2817.3372	
	35481.076	3																	2817.5743	
	35480.083	3																	2817.6531	
2	35477.985	5	45185.970-	9707.980	-5	6.5-	6.5	6.5-	6.5	1.040	1.485	.445		1.040	1.485	445		2817.8197		
	35477.387	3																	2817.8672	
2	35476.906	5	38712.675-	3235.770	1	0.5-	0.5	0.5-	0.5	1.30	.30	1.00		1.313	0.299	1014		2817.9055		
	35476.366	3																	2817.9483	
	35475.316	3																	2818.0318	
	35474.605	3																	2818.0882	
	35473.805	3																	2818.1518	
	35473.212	3																	2818.1989	
	35472.711	5																	2818.2387	
2	35471.261	7	40973.325-	5502.060	-4	0.5-	1.5	0.5-	1.5	.485	1.170	.685		0.485	1.169	684		2818.3539		
	35468.807	3																	2818.5489	
	35468.337	4																	2818.5863	
	35465.960	3																	2818.7752	
2	35465.132	5	41183.055-	5717.976	53	.	.	3.5-	3.5					1.100	1.596	496		2818.8410	CQ	
	35461.945	3																	2819.0944	
	35461.514	3																	2819.1285	
	35460.005	4																	2819.2486	
	35459.444	3																	2819.2932	
	35458.179	3																	2819.3938	
2	35457.523	1	14295.565-	49753.063	25	.	.	3.5-	3.5					0.790	1.000*	210		2819.4459		
	35455.622	3																	2819.5971	
2	35455.081	4	42733.945-	7278.862	-2	.	.	4.5-	4.5					1.090	1.545	455		2819.6401		
	35452.960	3																	2819.8088	
	35451.159	3																	2819.9521	
2	35449.076	4	40951.155-	5502.060	-19	.	.	2.5-	1.5					1.015	1.169	154		2820.1178		
	35448.769	3																	2820.1422	
	35447.725	3																	2820.2253	
	35447.366	3																	2820.2555	
2	35446.859	3	14295.565-	49742.440	-16	.	.	3.5-	3.5					0.790	0.975	185		2820.2942		
	35445.833	3																	2820.3719	
	35445.411	3																	2820.4094	
	35444.251	3																	2820.5017	
	35443.978	4																	2820.5235	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	35441.347	3	44079.570-		2638.233	10	.	.	5.5-	5.5	.	.	.	1.085	1.514	429	.	.	2820.7329	
2	35440.727	7	42719.590-		7278.862	-1	.	.	5.5-	4.5	.	.	.	1.185	1.545	360	.	.	2820.7822	
	35440.405	3					.	.			.	.	.				.	.	2820.8078	
	35439.031	3					.	.			.	.	.				.	.	2820.9172	
	35438.286	3					.	.			.	.	.				.	.	2820.9765	
	35436.864	3					.	.			.	.	.				.	.	2821.0897	
	35436.317	6					.	.			.	.	.				.	.	2821.1333	
2	35433.703	5	42932.085-		7493.364	-18	.	.	3.5-	2.5	.	.	.	1.170	1.321	151	.	.	2821.3414	
	35433.016	3					.	.			.	.	.				.	.	2821.3961	
	35432.599	5					.	.			.	.	.				.	.	2821.4293	
	35432.407	3					.	.			.	.	.				.	.	2821.4446	
2	35432.083	7	35432.095-		0.000	-7	1.5-	0.5	1.5-	0.5	1.20	3.11	1.91	1.190	3.150	1960	.	.	2821.4700	
	35431.676	3					.	.			.	.	.				.	.	2821.5028	
	35430.625	5					.	.			.	.	.				.	.	2821.5865	
	35427.920	3					.	.			.	.	.				.	.	2821.8019	
	35425.770	3					.	.			.	.	.				.	.	2821.9732	
2	35425.155	4	13192.903-		48618.050	-12	.	.	2.5-	3.5	.	.	.	0.372	0.920*	548	.	.	2822.0238	
	35424.883	5					.	.			.	.	.				.	.	2822.0439	
2	35423.605	5	13809.910-		49233.475	40	.	.	4.5-	3.5	.	.	.	0.657	0.980*	323	.	.	2822.1457	
	35420.976	3					.	.			.	.	.				.	.	2822.3552	
2	35420.358	5	42699.235-		7278.862	-15	.	.	4.5-	4.5	.	.	.	1.195	1.545	350	.	.	2822.4044	
	35420.100	3					.	.			.	.	.				.	.	2822.4250	
	35419.164	4					.	.			.	.	.				.	.	2822.4996	
	35417.185	3					.	.			.	.	.				.	.	2822.6573	
	35416.857	3					.	.			.	.	.				.	.	2822.6834	
	35415.577	4					.	.			.	.	.				.	.	2822.7854	
	35415.439	3					.	.			.	.	.				.	.	2822.7964	
	35414.948	3					.	.			.	.	.				.	.	2822.8356	
	35414.346	3					.	.			.	.	.				.	.	2822.8836	
	35412.912	3					.	.			.	.	.				.	.	2822.9979	
	35408.118	4					.	.			.	.	.				.	.	2823.3801	
	35406.009	3					.	.			.	.	.				.	.	2823.5483	
	35405.440	4					.	.			.	.	.				.	.	2823.5937	
	35405.263	3					.	.			.	.	.				.	.	2823.6078	
	35405.127	3					.	.			.	.	.				.	.	2823.6186	
	35401.358	3					.	.			.	.	.				.	.	2823.9185	
	35400.759	3					.	.			.	.	.				.	.	2823.9671	
	35399.228	3					.	.			.	.	.				.	.	2824.0892	
	35398.567	3					.	.			.	.	.				.	.	2824.1419	
	35396.128	3					.	.			.	.	.				.	.	2824.3366	
2	35395.060	4	41113.050-		5717.976	-14	.	.	4.5-	3.5	.	.	.	1.120	1.596	476	.	.	2824.4218	
2	35394.250	3	44636.635-		9242.356	-29	.	.	4.5-	3.5	.	.	.	1.075	1.369	294	.	.	2824.4864	
	35393.950	3					.	.			.	.	.				.	.	2824.5104	
2	35393.497	9	38629.265-		3235.770	2	0.5-	0.5	0.5-	0.5	1.39	.30	1.09	1.380	0.299*	1081	.	.	2824.5465	
	35392.713	3					.	.			.	.	.				.	.	2824.6087	
	35391.907	3					.	.			.	.	.				.	.	2824.6734	
	35391.161	3					.	.			.	.	.				.	.	2824.7330	
	35390.867	3					.	.			.	.	.				.	.	2824.7564	
	35389.175	4					.	.			.	.	.				.	.	2824.8915	DJ05555Q
	35383.872	3					.	.			.	.	.				.	.	2824.9157	
	35388.419	3					.	.			.	.	.				.	.	2824.9518	
	35387.920	3					.	.			.	.	.				.	.	2824.9917	
	35387.515	3					.	.			.	.	.				.	.	2825.0240	
	35386.880	3					.	.			.	.	.				.	.	2825.0747	
	35385.948	3					.	.			.	.	.				.	.	2825.1491	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	35384.452	3																2825.2686	
	35383.901	3																2825.3126	
2	35383.522	3	11504.095-46887.595	22	.	.	3.5-	3.5	.	.	.	.	0.859	0.930	71	.	.	2825.3428	
	35383.107	3																2825.3760	
	35381.057	4																2825.5397	
	35379.976	3																2825.6260	
	35379.174	3																2825.6901	
2	35378.779	3	45026.735- 9707.980	24	.	.	5.5-	6.5	.	.	.	.	1.120	1.485*	365	.	.	2825.7216	
	35376.819	4																2825.8782	
	35374.953	3																2826.0264	
	35374.024	3																2826.1015	
	35372.564	4																2826.2181	
2	35371.778	7	8709.640-44031.440	-22	3.5-	4.5	3.5-	4.5	.305	.870	.565	.	0.308	0.875	567	.	.	2826.2809	
2	35370.509	3	8198.666-43569.130	-5	.	.	2.5-	3.5	.	.	.	.	0.414	1.005	591	.	.	2826.3823	
2	35367.956	3	13809.910-49177.890	-24	.	.	4.5-	3.5	.	.	.	.	0.657	1.040*	383	.	.	2826.5864	
	35357.153	3																2826.6501	
	35365.542	3																2826.7793	
	35364.989	3																2826.8235	
	35362.854	3																2826.9934	
2	35360.823	3	13192.903-48553.715	11	.	.	2.5-	2.5	.	.	.	.	0.372	0.640*	268	.	.	2827.1566	
	35359.663	3																2827.2493	
	35358.127	5																2827.3721	
	35357.563	4																2827.4172	
	35356.510	5																2827.5015	
	35354.957	4																2827.6257	
	35354.514	4																2827.6611	
	35353.859	3																2827.7135	
	35352.670	3																2827.8086	
	35350.688	3																2827.9672	
	35349.633	3																2828.0476	
2	35347.290	5	37362.265- 2014.966	-9	1.5-	1.5	1.5-	1.5	1.22	1.88	.66	.	1.215	1.881	666	.	.	2828.2390	
	35344.213	3																2828.4853	
2	35343.698	6	45051.680- 9707.980	-2	6.5-	6.5	6.5-	6.5	.	.	.395	.	1.090	1.485*	395	.	.	2828.5265	
	35342.361	5																2828.6335	
	35341.052	3																2828.7383	
	35340.206	3																2828.8060	
	35339.639	3																2828.8514	
2	35338.418	3	44580.780- 9242.356	-6	.	.	4.5-	3.5	.	.	.	.	1.060	1.369	309	.	.	2828.9491	
	35337.976	3																2828.9845	
	35335.287	5				3.5-	2.5		1.00	1.32	.32	.						2829.1998	
	35334.734	3																2829.2441	
	35333.567	3																2829.3375	
	35333.143	3																2829.3715	
	35332.390	4																2829.4318	
	35331.557	3																2829.4665	
	35329.904	3																2829.6309	
	35329.419	3																2829.6697	
2	35328.215	3	42607.125- 7278.862	-18	.	.	4.5-	4.5	.	.	.	.	1.130	1.545	415	.	.	2829.7638	
	35323.477	3																2830.1457	
	35322.780	5																2830.2016	
	35322.466	3																2830.2268	
2	35321.559	7	37335.640- 2014.966	-5	2.5-	1.5	2.5-	1.5	1.207	1.830	.673	.	1.207	1.881	674	.	.	2830.2906	
	35320.305	3																2830.3999	
	35320.026	3																2830.4223	
	35319.668	3																2830.4510	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG	IS	IS		
	35317.235	3																	2830.6460	
	35316.509	3																	2830.7042	
2	35316.145	6	42595.005-		7278.852	2	4.5-	4.5	4.5-	4.5	1.115	1.545	.430	1.115	1.545	430		2830.7333		
	35315.181	3																	2830.8106	
	35314.604	3																	2830.8569	
	35313.210	3																	2830.9686	
2	35312.136	4	41030.115-		5717.976	-3	. - .	3.5-	3.5					1.100	1.596*	496		2831.0547		
2	35311.446	3	13192.903-		48504.345	4	. - .	2.5-	2.5					0.372	0.790*	418		2831.1101		
	35309.656	3																	2831.2504	
2	35309.265	5	11504.095-		46813.360	0	3.5-	2.5	3.5-	2.5	.86	1.07	.21	0.859	1.070*	211		2831.2849		
2	35303.089	2	10436.770-		45744.825	34	. - .	4.5-	3.5					0.724	0.000*	0		2831.3792		
	35307.471	3																	2831.4288	
2	35306.836	5	8709.640-		44016.500	-24	3.5-	4.5	3.5-	4.5	.31	1.05	.74	0.308	1.050*	742		2831.4797		
	35305.939	3																	2831.5517	
	35301.639	3																	2831.8966	
2	35300.852	6	38536.615-		3235.770	7	1.5-	0.5	1.5-	0.5	1.00	.30	.70	1.000	0.299	701		2831.9597		
	35299.950	3																	2832.0321	
	35297.247	3																	2832.2490	
2	35296.459	5	42575.325-		7278.862	-4	. - .	5.5-	4.5				.44	1.090	1.545	455		2832.3122		
	35295.995	4																	2832.3494	
	35294.547	3																	2832.4657	
	35294.120	3																	2832.4999	
	35293.268	3																	2832.5683	
2	35292.754	6	39262.620-		3969.846	-20	3.5-	2.5	3.5-	2.5	.95	1.67	.72	0.950	1.670	720		2832.6096		
	35292.211	3																	2832.6531	
2	35291.374	3	13809.910-		49101.285	-1	. - .	4.5-	4.5					0.657	1.050*	393		2832.7203		
	35290.709	3																	2832.7737	
	35290.198	3																	2832.8147	
	35289.974	3																	2832.8327	
	35289.844	3																	2832.8432	
	35288.474	3																	2832.9531	
	35287.947	3																	2832.9954	
	35287.619	3																	2833.0218	
	35287.170	3																	2833.0578	
	35286.788	3																	2833.0885	
	35286.396	4																	2833.1200	
2	35285.367	3	13192.903-		48478.270	0	. - .	2.5-	3.5					0.372	0.970	598		2833.2026		
	35285.075	3																	2833.2260	
	35284.379	3																	2833.2819	
2	35283.774	6	44991.755-		9707.980	-1	6.5-	6.5	6.5-	6.5	1.145	1.485	.340	1.145	1.485	340		2833.3305		
	35283.413	3																	2833.3595	
	35282.772	3																	2833.4110	
	35279.277	4																	2833.6917	
2	35277.503	6	42775.870-		7498.364	-3	2.5-	2.5	2.5-	2.5	1.18	1.32	.14	1.180	1.321	141		2833.8342		
	35276.784	3																	2833.8920	
	35276.013	3																	2833.9539	
	35275.737	3																	2833.9761	
	35275.009	3																	2834.0346	
	35274.440	3																	2834.0803	
	35274.183	3																	2834.1009	
2	35273.257	3	35273.260-		0.000	-3	. - .	1.5-	0.5					0.865	3.150	2285		2834.1753		
2	35272.786	4	43911.020-		8638.233	-1	. - .	6.5-	5.5					1.130	1.514	384		2834.2132		
	35271.655	3																	2834.3041	
	35269.490	3																	2834.4781	
	35267.620	4																	2834.6284	

C	HAVENUHSR	I	T2	-	T1	O-C	OBS J2	OBS - J1	TERM J2	TERM - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	35266.325	3	14476.135	-	49742.440	20	.	.	4.5-	3.5	.	.	.	1.060	0.975	85	.	.	2834.7325	
	35264.780	3					.	.			.	.	.				.	.	2834.8567	
	35263.974	3					.	.			.	.	.				.	.	2834.9215	
	35263.676	3					.	.			.	.	.				.	.	2834.9454	
	35258.020	3					.	.			.	.	.				.	.	2835.4002	
	35257.612	3					.	.			.	.	.				.	.	2835.4330	
	35255.836	3					.	.			.	.	.				.	.	2835.5759	
	35254.398	4					.	.			.	.	.				.	.	2835.6988	
2	35252.844	4	8198.666	-	43451.520	-10	2.5-	1.5	2.5-	1.5	.415	1.190	.775	0.414	1.190*	776	.	.	2835.8165	
	35252.144	3					.	.			.	.	.				.	.	2835.8729	
2	35248.305	5	10436.770	-	45585.090	-15	4.5-	4.5	4.5-	4.5	.725	.955	.230	0.724	0.955	231	.	.	2836.1817	
2	35247.979	5	40965.950	-	5717.976	5	3.5-	3.5	3.5-	3.5	1.105	1.595	.490	1.105	1.596	491	.	.	2836.2080	
	35243.220	3					.	.			.	.	.				.	.	2836.5910	
	35242.792	3					.	.			.	.	.				.	.	2836.6254	
	35241.891	3					.	.			.	.	.				.	.	2836.6979	
	35240.567	3					.	.			.	.	.				.	.	2836.8045	
	35240.122	4					.	.			.	.	.				.	.	2836.8355	
2	35238.417	3	8198.666	-	43437.020	63	.	.	2.5-	3.5	.	.	.	0.414	0.960*	546	.	.	2836.9776	
	35237.428	3					.	.			.	.	.				.	.	2837.0572	
	35235.292	3					.	.			.	.	.				.	.	2837.2292	ZR Q
2	35234.750	7	42513.590	-	7278.862	22	.	.	5.5-	4.5	.	.	.	1.115	1.545	430	.	.	2837.2729	
2	35233.174	3	40951.155	-	5717.976	-5	.	.	2.5-	3.5	.	.	.	1.015	1.596	581	.	.	2837.3998	
	35232.790	3					.	.			.	.	.				.	.	2837.4307	
2	35231.651	3	16593.963	-	51825.535	79	.	.	2.5-	2.5	.	.	.	0.983	0.990*	7	.	.	2837.5225	
	35228.803	3					.	.			.	.	.				.	.	2837.7519	
	35228.066	3					.	.			.	.	.				.	.	2837.8161	
	35227.146	3					.	.			.	.	.				.	.	2837.8853	
	35226.369	3					.	.			.	.	.				.	.	2837.9479	
	35224.675	3					.	.			.	.	.				.	.	2838.0844	
	35221.597	5					3.5-	4.5			2.354	.	.282				.	.	2838.3325	f SI
2	35220.675	3	12992.644	-	48213.315	4	.	.	2.5-	3.5	.	.	.	0.643	1.040*	397	.	.	2838.4068	
	35217.738	5					.	.			.	.	.				.	.	2838.6435	
2	35217.383	8	39187.220	-	3969.846	9	2.5-	2.5	2.5-	2.5	1.160	1.668	.508	1.170	1.670*	500	.	.	2838.6721	
	35216.842	4					.	.			.	.	.				.	.	2838.7157	
	35215.177	3					.	.			.	.	.				.	.	2838.8499	
2	35208.827	4	43847.065	-	8638.233	-5	.	.	5.5-	5.5	.	.	.	1.120	1.514	394	.	.	2839.3620	
	35208.531	3					.	.			.	.	.				.	.	2839.3858	
	35207.474	3					.	.			.	.	.				.	.	2839.4711	
2	35206.863	3	13192.903	-	48399.780	-14	.	.	2.5-	3.5	.	.	.	0.372	0.950	578	.	.	2839.5204	
	35204.828	3					.	.			.	.	.				.	.	2839.6845	
	35201.375	3					.	.			.	.	.				.	.	2839.9631	
	35201.107	3					.	.			.	.	.				.	.	2839.9847	
2	35200.514	7	40913.435	-	5717.976	5	4.5-	3.5	4.5-	3.5	1.075	1.595	.520	1.075	1.596	521	.	.	2840.0325	
	35199.855	3					.	.			.	.	.				.	.	2840.0857	
	35198.360	4					.	.			.	.	.				.	.	2840.2063	
2	35197.539	5	37212.525	-	2014.966	-20	.	.	2.5-	1.5	.	.	.	0.960	1.881*	921	.	.	2840.2726	
2	35196.536	9	42475.410	-	7278.862	-12	4.5-	4.5	4.5-	4.5	1.140	1.545	.405	1.140	1.545	405	.	.	2840.3535	
2	35196.091	7	43834.325	-	8638.233	-1	5.5-	5.5	5.5-	5.5	.	.	.400	1.090	1.514*	424	.	.	2840.3895	
	35195.139	3					.	.			.	.	.				.	.	2840.4663	
	35193.495	4					.	.			.	.	.				.	.	2840.5990	
	35191.729	3					.	.			.	.	.				.	.	2840.7415	
	35190.738	4					.	.			.	.	.				.	.	2840.8215	
	35190.236	3					.	.			.	.	.				.	.	2840.8621	
	35188.004	3					.	.			.	.	.				.	.	2841.0423	
	35186.919	4					.	.			.	.	.				.	.	2841.1299	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	35184.789	4	43323.020-		8638.233	2	.	.	4.5-	5.5	.	.	.	1.235	1.514	279	.	.	2841.3019	
	35184.216	3					.	.			.	.	.				.	.	2841.3482	
	35183.186	3					.	.			.	.	.				.	.	2841.4313	
	35182.251	3					.	.			.	.	.				.	.	2841.5069	
	35173.846	3					.	.			.	.	.				.	.	2842.1859	Q
	35172.170	4					.	.			.	.	.				.	.	2842.3213	
	35165.830	3					.	.			.	.	.				.	.	2842.8338	
2	35165.277	6	40667.340-		5502.060	-3	0.5-	1.5	0.5-	1.5	1.925	1.175	.75	1.925	1.169	756			2842.8785	
2	35164.642	3	45390.950-		10726.322	14	.	.	5.5-	4.5	.	.	.	1.070	1.391*	321			2842.9298	
	35164.203	3					.	.			.	.	.						2842.9653	
2	35158.734	3	12992.644-		48151.405	-27	.	.	2.5-	3.5	.	.	.	0.643	1.010	367			2843.4076	
	35158.187	4					.	.			.	.	.						2843.4518	
	35157.261	4					.	.			.	.	.						2843.5267	
	35156.699	3					.	.			.	.	.						2843.5722	
	35156.216	3					.	.			.	.	.						2843.6113	
	35154.987	4					.	.			.	.	.						2843.7107	
2	35154.702	3	8193.666-		43353.370	-2	.	.	2.5-	3.5	.	.	.	0.414	0.970*	556			2843.7337	
	35154.424	3					.	.			.	.	.						2843.7562	
	35153.464	3					.	.			.	.	.						2843.8339	
	35153.162	4					2.5-	1.5			.65	.97	.32						2843.8583	SOJ3525Q
	35152.448	3					.	.			.	.	.						2843.9161	
	35152.066	3					.	.			.	.	.						2843.9470	
	35151.321	3					.	.			.	.	.						2844.0073	
	35148.979	3					.	.			.	.	.						2844.1968	
	35148.438	3					.	.			.	.	.						2844.2405	
	35146.606	4					.	.			.	.	.						2844.3888	
	35146.347	3					.	.			.	.	.						2844.4098	
	35144.875	3					.	.			.	.	.						2844.5289	
	35144.579	3					.	.			.	.	.						2844.5529	
	35144.184	3					.	.			.	.	.						2844.5848	ZR Q
	35144.085	4					.	.			.	.	.						2844.5929	
	35143.444	3					.	.			.	.	.						2844.6447	
2	35143.051	7	40861.025-		5717.976	2	3.5-	3.5	3.5-	3.5	1.105	1.595	.49	1.105	1.596	491			2844.6766	
	35138.960	4					.	.			.	.	.						2845.0078	
	35138.433	3					.	.			.	.	.						2845.0504	
	35138.163	3					.	.			.	.	.						2845.0719	
	35136.782	3					.	.			.	.	.						2845.1841	
2	35135.833	4	40853.860-		5717.976	-1	.	.	2.5-	3.5	.	.	.	1.160	1.596*	436			2845.2569	
	35133.814	3					.	.			.	.	.						2845.4245	
2	35133.228	4	43771.490-		8638.233	-29	.	.	4.5-	5.5	.	.	.	1.045	1.514	469			2845.4719	
2	35131.960	4	39101.810-		3969.846	-4	1.5-	2.5	1.5-	2.5	.980	1.670	.690	0.980	1.670*	690			2845.5746	-56*
	35129.213	3					.	.			.	.	.						2845.7972	
	35129.006	4					.	.			.	.	.						2845.8139	
	35125.440	3					.	.			.	.	.						2846.1029	
	35124.813	3					.	.			.	.	.						2846.1537	
2	35123.147	3	38359.000-		3235.770	-83	.	.	1.5-	0.5	.	.	.	0.995	0.299	696			2846.2887	
2	35122.736	8	39092.590-		3969.846	-8	3.5-	2.5	3.5-	2.5	1.18	1.66	.48	1.180	1.670	490			2846.3220	
	35119.739	3					.	.			.	.	.						2846.5649	
	35118.620	4					.	.			.	.	.						2846.6556	
2	35117.679	5	35117.695-		0.000	-16	1.5-	0.5	1.5-	0.5	1.515	3.145	1630	1.505	3.150	1645			2846.7319	-110
	35117.297	3					.	.			.	.	.						2846.7629	
2	35114.553	7	10436.770-		45551.330	-7	4.5-	5.5	4.5-	5.5	.725	1.060	.335	0.724	1.060*	336			2846.9853	
	35114.267	3					.	.			.	.	.						2847.0085	
2	35110.285	4	39080.135-		3969.846	-4	.	.	2.5-	2.5	.	.	.	1.255	1.670	415			2847.3314	
	35109.329	3					.	.			.	.	.						2847.4090	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	35108.461	4	45296.930	-	10183.463	-6	1.5-	0.5	1.5-	0.5	1.245	2.400	1155	1.245	2.402	1157	2847.4794	
	35107.977	3															2847.5186	
	35107.012	3															2847.5969	
	35105.845	3															2847.6916	
	35105.649	3															2847.7075	
	35103.015	3															2847.9211	
2	35101.673	6	32337.450	-	3235.770	-2	1.5-	0.5	1.5-	0.5	1.16	.30	.86	1.160	0.299	861	2848.0296	
	35100.909	4															2848.0920	
2	35098.394	4	12992.644	-	48091.025	13	2.5-	2.5	2.5-	2.5	.645	1.100	.455	0.643	1.100	457	2848.2961	
	35095.671	3															2848.5171	ZR Q
2	35093.024	3	40595.070	-	5502.050	14	.	.	1.5-	1.5	.	.	.	0.825	1.169	344	2848.7320	
	35092.833	3															2848.7471	
	35092.172	3															2848.8012	
	35091.606	3															2848.8471	
2	35091.541	2	42370.412	-	7278.862	-9	.	.	3.5-	4.5	.	.	.	0.000	1.545	0	2848.8524	
	35089.825	4															2848.9917	
	35088.029	4															2849.1375	
2	35087.234	3	39057.100	-	3969.846	-20	.	.	3.5-	2.5	.	.	.	1.220	1.670	450	2849.2021	
	35085.111	3															2849.3745	
	35083.668	3															2849.4917	
	35083.053	3															2849.5417	
	35031.345	3															2849.6804	
2	35080.867	4H	12048.548	-	47129.430	-15	.	.	1.5-	2.5	.	.	.	-0.054	0.920	974	2849.7192	HAZY
	35079.161	3															2849.8578	
	35078.692	4															2849.8959	
2	35077.726	6	45604.115	-	10726.322	-7	5.5-	4.5	5.5-	4.5	1.105	1.390	.285	1.105	1.391	286	2849.9696	
2	35073.901	4	37083.890	-	2014.966	-23	.	.	0.5-	1.5	.	.	1.07	0.890	1.881*	991	2850.2853	DG*
2	35073.536	4	11504.095	-	46577.625	6	.	.	3.5-	3.5	.	.	.	0.859	0.750*	109	2850.3149	
2	35072.914	6	39042.775	-	3969.846	-15	1.5-	2.5	1.5-	2.5	1.055	1.67	.615	1.050	1.670	620	2850.3655	
	35071.755	3															2850.4597	
	35070.354	3															2850.5735	
	35069.965	3															2850.6052	
	35069.801	3															2850.6185	
	35068.340	3															2850.7373	
	35067.809	3															2850.7804	
	35066.473	3															2850.8890	
	35065.652	3															2850.9558	
	35064.204	4															2851.0670	
2	35063.923	6	40566.005	-	5502.060	-17	.	.	0.5-	1.5	1.18	1.18	.	1.170	1.169*	1	2851.0960	
	35063.449	3															2851.1349	
	35062.716	3															2851.1945	
	35061.409	5															2851.3008	
2	35061.095	5	40563.165	-	5502.060	-10	.	.	2.5-	1.5	.	.	.	0.995	1.169	174	2851.3264	
	35056.532	3															2851.6975	
2	35056.150	6	43694.395	-	8638.233	-12	5.5-	5.5	5.5-	5.5	1.131	1.514	.383	1.130	1.514	384	2851.7286	
	35055.891	3															2851.7497	
	35055.450	3															2851.7855	
	35055.123	5															2851.8121	
2	35053.637	5	10436.770	-	45490.434	-27	.	.	4.5-	4.5	.	.	.	0.724	1.065	341	2851.9330	
	35053.370	4															2851.9548	
	35052.762	3															2852.0042	
	35052.314	3															2852.0407	
	35050.315	3															2852.2034	
	35049.790	4															2852.2461	
	35049.199	3															2852.2942	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	35046.822	3																	2852.4876	
	35046.525	3																	2852.5118	
	35046.299	3																	2852.5302	
	35045.313	4																	2852.6105	
	35044.234	3																	2852.6983	
2	35043.559	7	37058.525-		2014.966	0	1.5-	1.5	1.5-	1.5	1.18	1.88	.70	1.180	1.881	701		2852.7533		
	35043.192	4																	2852.7831	
2	35042.621	9	44750.600-		9707.980	1	6.5-	6.5	6.5-	6.5	1.15	1.49	.34	1.150	1.485*	335		2852.8296		
	35041.528	3																	2852.9186	
	35040.359	3																	2853.0138	
	35039.997	3																	2853.0433	
	35039.732	3																	2853.0648	
	35039.253	3																	2853.1034	
2	35037.554	5	42316.425-		7278.862	-9	5.5-	4.5	5.5-	4.5	1.155	1.545	.390	1.155	1.545	390		2853.2422		
	35036.321	4																	2853.3426	
	35034.575	3																	2853.4848	
	35034.002	3																	2853.5315	
	35033.654	3																	2853.5598	
	35032.608	4									1.09								2853.6450	f
2	35031.124	4	12048.548-		47079.610	62	.	.	1.5-	2.5	.	.		-0.054	0.960*	1014		2853.7659		
	35029.633	3																	2853.8874	
	35028.466	5									.92		115						2853.9825	fDJ02J0G
	35027.794	3																	2854.0373	
	35024.654	3																	2854.2931	
	35024.261	3																	2854.3252	
	35023.815	3																	2854.3615	
2	35023.288	3	38993.130-		3969.846	4	.	.	2.5-	2.5	.	.		1.025	1.670	645		2854.4045		
	35020.038	3																	2854.6694	
	35019.725	3																	2854.6949	
	35018.449	3																	2854.7989	
	35016.771	3																	2854.9357	
	35016.085	3																	2854.9917	
	35014.980	3																	2855.0818	
	35014.301	3																	2855.1371	
	35013.785	3																	2855.1792	
	35012.460	3																	2855.2873	
2	35003.283	6	10436.770-		45445.065	-12	4.5-	4.5	4.5-	4.5	.715	.995	.280	0.724	1.000*	276		2855.6280		
	35007.844	3																	2855.6638	
	35006.786	6H											SNL						2855.7501	DJ1
2	35003.709	7	42282.525-		7278.862	46	3.5-	4.5	3.5-	4.5	1.360	1.545	.185	1.360	1.545	185		2856.0011		
	35003.107	7					1.5-	2.5			1.20	1.29	.09						2856.0502	
	35001.612	3																	2856.1722	
	35000.814	5																	2856.2374	
	34998.652	3																	2856.4138	
2	34998.033	7	40716.010-		5717.976	-1	3.5-	3.5	3.5-	3.5	1.090	1.595	.505	1.100	1.596*	496		2856.4643		
	34995.125	3																	2856.7017	
	34993.368	4																	2856.8452	
	34993.145	4																	2856.8634	
2	34991.091	6	12048.548-		47039.640	-1	1.5-	1.5	1.5-	1.5	-.04	1.02	1.06	-0.054	1.020*	1074		2857.0311		
	34990.130	3																	2857.1095	
	34988.775	3																	2857.2202	
	34987.240	3																	2857.3456	
	34984.729	3																	2857.5506	
	34982.051	3																	2857.7694	
	34981.619	3																	2857.8047	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		OBS		OBS	TERM			OBS		TERM	IS	IS	WAVELENGTH	NOTES	
							J2	J1	J2	J1		G2	G1	DG	G2	G1						DG
	34981.182	3																				
2	34980.066	4	38215.850-		3235.770	-14	0.5-	0.5	0.5-	0.5	1.01	.30	.71	0.996	0.299	697				2857.8404		
	34979.924	5																			2857.9316	
2	34978.157	4	38948.000-		3969.846	3	. - .	2.5-	2.5					1.090	1.670	580				2857.9432		
	34976.326	4																			2858.0876	
	34976.173	3																			2858.2372	
2	34975.868	4	42254.735-		7278.862	-5	. - .	5.5-	4.5					1.180	1.545	365		19*		2858.2493		
	34975.211	3																			2858.2746	
	34974.855	3																			2858.3283	
	34973.740	4																			2858.3573	
	34973.094	3																			2858.4486	
	34972.051	3																			2858.5014	
	34971.921	3																			2858.5866	
	34969.612	4																			2858.5972	
	34969.255	3																			2858.7860	
	34968.639	3																			2858.8152	
	34968.012	3																			2858.8655	
2	34966.949	8	40469.010-		5502.060	-1	1.5-	1.5	1.5-	1.5	1.26	1.17	.09	1.250	1.169*	81				2858.9168		
	34965.497	3																			2859.0037	
	34965.266	3																			2859.1225	
	34965.028	4																			2859.1413	
	34963.468	3																			2859.1608	
2	34963.076	4	13192.903-		43156.010	-31	. - .	2.5-	2.5					0.372	0.920	548				2859.2884		
	34962.056	3																			2859.3204	
	34961.046	3																			2859.4039	
	34960.448	3																			2859.4865	
	34958.871	4																			2859.5354	
2	34958.407	5	13192.903-		48151.405	-95	2.5-	3.5	2.5-	3.5	.37	1.02	.65	0.372	1.010	638				2859.6644		
2	34958.167	3	42236.985-		7278.862	44	. - .	3.5-	4.5					1.035	1.545	510				2859.7023		
	34957.879	3																			2859.7220	
	34957.354	4																			2859.7455	
	34956.662	3																			2859.7885	
	34955.520	3																			2859.8451	
2	34955.053	9	36970.040-		2014.966	-16	2.5-	1.5	2.5-	1.5	1.40	1.88	.48	1.405	1.881	476				2859.9285		
	34954.574	3																			2859.9763	
	34953.581	3																			2860.0159	
	34952.650	3																			2860.0972	
	34952.283	3																			2860.1734	
2	34951.641	8	44193.995-		9242.356	2	3.5-	3.5	3.5-	3.5	1.215	1.365	.150	1.215	1.369	154				2860.2034		
	34946.934	3																			2860.2560	
	34946.658	3																			2860.6388	
2	34944.845	3	16499.640-		51444.460	25	. - .	3.5-	2.5					0.773	0.910*	137				2860.6638		
	34944.092	4																			2860.8122	
	34943.255	4																			2860.8739	
	34942.887	3																			2860.9424	
	34942.723	4																			2860.9726	
	34941.544	3																			2860.9860	
	34941.210	4																			2861.0825	
2	34940.835	7	40658.815-		5717.976	-4	3.5-	3.5	3.5-	3.5	1.170	1.595	.425	1.170	1.596*	426				2861.1099		
	34940.278	3																			2861.1406	
	34939.498	3																			2861.1862	
	34939.106	3																			2861.2501	
2	34938.642	6	36953.625-		2014.966	-17	0.5-	1.5	0.5-	1.5	.92	1.88	.96	0.920	1.881*	961				2861.2822		
	34938.285	3																			2861.3202	
2	34936.436	6	44178.800-		9242.356	-8	2.5-	3.5	2.5-	3.5	1.17	1.37	.20	1.170	1.369*	199				2861.3494		
																					2861.5009	6Q

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	34935.850	3																	2861.5489	
	34934.617	4																	2861.6499	
2	34733.411	5	8709.640	-	43643.060	-9	3.5-	3.5	3.5-	3.5	.31	.99	.68	0.308	0.990*	682			2861.7487	
	34932.923	3																	2861.7886	
	34931.064	5																	2861.9409	
	34930.653	3																	2861.9746	
	34929.721	4																	2862.0510	
	34929.284	3																	2862.0868	
2	34927.982	9	43566.215-		8638.233	0	5.5-	5.5	5.5-	5.5	1.14	1.52	.38	1.120	1.514*	394			2862.1935	
2	34927.818	7	36542.795-		2014.966	19	2.5-	1.5	2.5-	1.5			.85	1.040	1.881	841			2862.2045	
2	34927.520	6	38163.310-		3235.770	-20	. -	. -	1.5-	0.5				1.220	0.299	921			2862.2314	
	34926.533	3																	2862.3122	
	34924.901	5																	2862.4394	
2	34923.852	5	8193.666-		43122.525	-7	. -	. -	2.5-	2.5				0.414	0.000*	0			2862.5320	
	34923.417	3																	2862.5676	
2	34922.970	6	34922.835-		0.000	135	. -	. -	0.5-	0.5				1.010	3.150	2140			2862.6043	C2
1	34922.970	6	6313.866-		41236.870	-34	. -	. -	4.0-	4.0				0.487	1.020	533			2862.6043	C2
	34922.761	3																	2862.6214	
	34922.129	4																	2862.6732	
	34921.853	3																	2862.6958	
2	34921.110	7	40639.100-		5717.976	-14	4.5-	3.5	4.5-	3.5	1.310	1.595	.285	1.310	1.596	286			2862.7568	
2	34920.181	5	42418.545-		7498.354	0	. -	. -	1.5-	2.5				1.060	1.321*	261			2862.8329	
	34918.857	3																	2862.9415	
	34917.530	5																	2863.0503	
	34916.384	4																	2863.1443	
	34915.916	4																	2863.1826	
	34915.539	4																	2863.2136	
	34914.758	3																	2863.2776	
	34914.177	3																	2863.3252	
	34912.907	3																	2863.4294	
2	34911.104	5	34911.115-		0.000	-11	1.5-	0.5	1.5-	0.5	1.29	3.14	1.85	1.300	3.150	1850			2863.5773	
	34910.441	3																	2863.6317	
	34909.856	3																	2863.6797	
	34908.803	3																	2863.7661	
	34907.356	5					3.5-	2.5			.81	1.03	.22						2863.8348	G*
	34903.300	3																	2864.2176	
	34902.890	5					3.5-	3.5					.37						2864.2512	
	34901.830	3																	2864.3332	
	34901.458	3																	2864.3688	
	34900.843	3																	2864.4188	
	34900.282	3																	2864.4653	
	34899.747	4																	2864.5092	
	34899.289	3																	2864.5468	
2	34898.846	3	40400.905-		5502.060	1	. -	. -	2.5-	1.5				1.100	1.169	69			2864.5832	
	34895.746	3																	2864.8377	
	34894.025	4																	2864.9790	
	34893.209	3																	2865.0460	
	34892.672	3																	2865.0901	
	34890.521	3																	2865.2667	
	34890.100	3																	2865.3013	
	34887.116	5																	2865.5464	
	34886.570	3																	2865.5830	
	34886.075	3																	2865.6319	
	34885.100	3																	2865.7120	
	34884.219	3																	2865.7843	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
	34382.993	4																	2865.8851	
2	34382.253	3	14295.565	-	49177.890	-72	.	.	3.5-	3.5	.	.	.	.	0.790	1.040*	250		2865.9459	
	34830.852	3																	2866.0605	
	34830.551	3																	2866.0857	
2	34830.073	5	8198.666	-	43078.770	-26	.	.	2.5-	2.5	.	.	.	.	0.414	0.840*	426		2866.1246	
2	34879.405	5	12992.644	-	47872.094	-45	.	.	2.5-	1.5	.	.	.	.	0.643	0.760*	117		2866.1799	
	34378.529	5																	2866.2519	
	34877.855	4																	2866.3073	
	34877.343	3																	2866.3494	
	34876.878	4																	2866.3876	
	34876.525	3																	2866.4166	
	34875.569	3																	2866.4869	
	34875.393	3																	2866.5096	
2	34875.015	8	38844.845	-	5969.846	16	2.5-	2.5	2.5-	2.5	1.340	1.660	.32		1.340	1.670	330		2866.5407	
	34374.397	3																	2866.5915	
2	34873.175	3	14476.135	-	49349.270	40	.	.	4.5-	4.5	.	.	.	.	1.060	1.110	50		2866.6920	
2	34872.479	3	40374.595	-	5502.060	-56	.	.	0.5-	1.5	.	.	.	.	0.960	1.169*	209		2866.7492	
	34871.877	3																	2866.7987	
	34870.935	3																	2866.8761	
	34870.458	3																	2866.9153	
	34869.565	3																	2866.9888	
	34868.791	3																	2867.0524	
	34868.256	3																	2867.0964	
2	34867.666	9	36832.645	-	2014.966	-13	2.5-	1.5	2.5-	1.5	1.01	1.88	.87		1.010	1.881	871		2867.1449	
	34867.140	3																	2867.1882	
	34866.662	3																	2867.2275	
	34865.603	6					4.5-	4.5					.31						2867.3146	
	34865.124	3																	2867.3540	
	34364.024	3																	2867.4444	
	34862.902	3																	2867.5367	
	34862.154	3																	2867.5982	
2	34861.723	7	40363.785	-	5502.060	-2	2.5-	1.5	2.5-	1.5	1.08	1.17	.09		1.080	1.169*	89		2867.6337	
	34861.049	3																	2867.6891	
	34360.410	3																	2867.7417	
2	34859.546	8	8709.640	-	43569.180	6	3.5-	3.5	3.5-	3.5	.305	1.005	.700		0.308	1.005	697		2867.8128	2LNS
1	34859.545	8	6313.866	-	41173.380	32*	.	.	4.0-	4.0	.	.	.		0.487	1.150	663		2867.8128	2LNS
	34859.171	4																	2867.8436	
	34858.456	3																	2867.9025	
	34857.920	4																	2867.9466	
	34857.170	3																	2868.0083	
	34855.683	3																	2868.1306	
	34854.695	3																	2868.2119	
	34853.652	3																	2868.2978	
	34853.129	3																	2868.3408	
	34352.716	4																	2868.3748	
	34852.434	3																	2868.3980	
2	34850.475	3	16593.963	-	51444.460	-22	.	.	2.5-	2.5	.	.	.		0.983	0.910*	73		2868.5593	
2	34850.059	6	10436.770	-	45286.880	-11	4.5-	5.5	4.5-	5.5	.72	1.00	.28		0.724	1.000*	276		2868.5902	
	34849.465	3																	2868.6424	
	34848.054	3																	2868.7586	
2	34846.849	6	42125.715	-	7278.862	-4	.	.	5.5-	4.5	.	.	.385		1.165	1.545	380		2868.8578	SO
2	34845.145	4	40563.165	-	5717.976	-44	.	.	2.5-	3.5	.	.	.		0.995	1.596	601		2868.9981	C2
2	34845.145	4	12048.548	-	46893.745	-52	.	.	1.5-	1.5	.	.	.		-0.054	0.670*	724		2868.9981	C2
2	34844.604	9	34344.620	-	0.000	-16	1.5-	0.5	1.5-	0.5	1.53	3.14	1.61		1.528	3.150	1622	-45	2869.0426	
	34844.100	3																	2869.0841	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES		
							J2 - J1	J2 - J1	62	61	62	61	62	61	62	61	62	61			IS	IS
	34843.793	3																		2869.1094		
	34842.819	3																			2869.1896	
2	34842.021	9	33511.950-	3959.246	-33	3.5-	2.5	3.5-	2.5	1.115	1.660	.545		1.115	1.670	555			-179*	2869.2553		
2	34841.717	7	11504.095-	46345.820	-8	.	.	3.5-	4.5					0.859	1.030	171				2869.2804		
	34841.227	3																			2869.3207	
	34840.805	3																			2869.3555	
	34840.510	3																			2869.3798	
2	34839.881	6	40341.970-	5502.060	-29	1.5-	1.5	1.5-	1.5	.89	1.17	.28		0.890	1.169*	279				2869.4316		
	34837.992	3																			2869.5872	
	34837.598	5																			2869.6196	
	34836.802	3																			2869.6852	
	34834.925	3																			2869.8398	
	34834.617	4																			2869.8652	
	34832.165	3																			2870.0672	
2	34831.650	8	44539.630-	9707.980	0	6.5-	6.5	6.5-	6.5	1.060	1.485	.425		1.060	1.485	425				2870.1097		
2	34830.746	5	10436.770-	45267.550	-34	4.5-	4.5	4.5-	4.5	.724	1.046	.322		0.724	1.045	321				2870.1842		
2	34829.930	7	40331.990-	5502.060	0	0.5-	1.5	0.5-	1.5	1.92	1.17	.75		1.920	1.169*	751				2870.2514		
	34829.419	3																			2870.2935	
	34829.048	3																			2870.3241	
	34828.112	3																			2870.4013	
	34827.569	4																			2870.4460	
	34826.329	3																			2870.5482	
	34825.322	3																			2870.6312	
	34823.727	3																			2870.7627	
2	34823.149	3	14561.607-	49334.725	31	.	.	1.5-	2.5					1.149	0.930*	219				2870.8104		
2	34822.517	3	13192.903-	48015.425	-5	.	.	2.5-	3.5					0.372	1.080*	708				2870.8625		
	34821.387	3																			2870.9556	
	34820.606	3																			2871.0200	
	34820.127	3																			2871.0595	
	34819.715	3																			2871.0935	
	34819.176	3																			2871.1379	
2	34817.916	4	12992.644-	47810.565	-5	.	.	2.5-	3.5					0.643	1.160	517				2871.2419		
	34817.264	3																			2871.2956	
	34815.915	3																			2871.4069	
	34814.592	3																			2871.5160	
	34812.529	3								1.045											2871.6862	f
2	34809.736	3	13809.910-	48619.650	-4	.	.	4.5-	4.5					0.657	1.000*	343				2871.9166		
	34808.443	4				6.5-	6.5														2872.0230	J5555Q
2	34808.125	5	13809.910-	48615.050	-15	.	.	4.5-	3.5					0.657	0.920*	263				2872.0495		
2	34807.489	4	14295.565-	49103.065	-11	.	.	3.5-	2.5					0.790	0.955	165				2872.1020		
	34806.759	3																			2872.1622	
2	34805.715	6	14295.565-	49101.285	-5	3.5-	4.5	3.5-	4.5	.79	1.05	.26		0.790	1.050*	260				2872.2484		
	34805.093	3																			2872.2993	
2	34804.210	3	38774.085-	3969.846	-29	.	.	2.5-	2.5					1.170	1.670*	500				2872.3726		
	34803.975	4																			2872.3920	
	34803.321	3																			2872.4460	
	34802.856	4																			2872.4844	
	34802.339	3																			2872.5229	
	34801.890	3																			2872.5641	
2	34801.374	9	42299.740-	7498.364	-2	2.5-	2.5	2.5-	2.5	1.065	1.315	.25		1.065	1.321	256				2872.6067		
	34800.960	3																			2872.6409	
2	34800.517	3	11504.095-	46304.585	27	.	.	3.5-	2.5					0.859	0.980*	121				2872.6774		
	34800.187	3																			2872.7047	
	34799.545	3																			2872.7577	
	34799.253	3																			2872.7818	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	34798.972	3																	2872.8050	
	34797.964	3																	2872.8882	
	34796.789	3																	2872.9852	
	34796.291	3																	2873.0263	
2	34795.235	6	40513.220-		5717.976	-8	3.5-	3.5	3.5-	3.5	.925	1.595	.67	0.925	1.596	671		2873.1135		
	34794.350	3																	2873.1866	
	34794.024	3																	2873.2135	
	34793.414	3																	2873.2639	
	34792.339	3																	2873.3527	
	34792.010	3																	2873.3799	
2	34790.342	6	42069.210-		7278.862	-6	3.5-	4.5	3.5-	4.5	1.190	1.545	.355	1.190	1.545	355		2873.5176		
2	34789.990	4	38759.850-		3969.846	-14	. - .		3.5-	2.5	.	.	.	1.165	1.670	505		2873.5467		
	34788.979	3																	2873.6302	
	34787.959	4																	2873.7145	
	34784.881	3																	2873.9688	
	34782.985	3																	2874.1254	
2	34782.473	8	42051.340-		7278.862	-5	4.5-	4.5	4.5-	4.5	1.175	1.545	.370	1.175	1.545	370		2874.1678		
2	34781.197	7	38016.965-		3235.770	2	0.5-	0.5	0.5-	0.5	1.40	.30	1.10	1.390	0.299	1091		2874.2732		
	34780.137	3																	2874.3608	
	34779.294	3																	2874.4305	
	34777.567	3																	2874.5732	
	34776.768	4																	2874.6393	
	34775.045	3																	2874.7817	
	34774.758	3																	2874.8054	
2	34773.214	9	40491.205-		5717.976	-15	4.5-	3.5	4.5-	3.5	1.155	1.595	.440	1.155	1.596	441		2874.9331		
	34772.490	3																	2874.9930	
	34772.143	4																	2875.0216	
	34771.687	4																	2875.0594	
	34770.284	3																	2875.1754	
	34769.752	3																	2875.2194	
	34768.054	3																	2875.3598	
	34766.441	3																	2875.4932	
2	34765.752	9	43403.995-		8538.233	-10	6.5-	5.5	6.5-	5.5	1.130	1.520	.390	1.130	1.514	384		2875.5502		
	34765.245	3																	2875.5921	
2	34764.866	3	12048.548-		46813.360	54	. - .		1.5-	2.5	.	.	.	-0.054	1.070*	1124		2875.6235		
	34764.459	3																	2875.6571	
	34763.356	3																	2875.7484	
1	34763.149	3	6313.866-		41077.010	5	. - .		4.0-	3.0	.	.	.	0.487	1.100	613		2875.7655	-287	
	34761.802	4																	2875.8770	
	34761.654	5																	2875.8892	
2	34760.552	7	8709.640-		43470.195	-3	3.5-	3.5	3.5-	3.5	.305	.860	.555	0.308	0.860	552		2875.9804		
2	34759.021	3	14295.565-		49054.605	-19	. - .		3.5-	4.5	.	.	.	0.790	1.020*	230		2876.1071		
	34758.294	7																	2876.1672	
	34757.892	4																	2876.2013	
	34756.556	3																	2876.3110	
2	34755.029	9	38724.885-		3969.846	-10	2.5-	2.5	2.5-	2.5	1.140	1.670	.530	1.140	1.670	530		2876.4374		
	34754.460	3																	2876.4845	
	34754.170	3																	2876.5085	
2	34752.521	3	40254.585-		5502.060	-4	. - .		1.5-	1.5	.	.	.	1.140	1.169*	29		2876.6450		
	34751.646	3																	2876.7175	
2	34751.174	6H	42029.980-		7278.862	56	. - .		3.5-	4.5	.	.	.	1.060	1.545*	485		2876.7565		
	34750.107	3																	2876.8449	
2	34748.410	6	45474.760-		10726.322	-28	4.5-	4.5	4.5-	4.5	.	.	.297	1.090	1.391	301		2876.9854		
2	34747.344	6	43989.695-		9242.356	5	3.5-	3.5	3.5-	3.5	1.110	1.369	.259	1.110	1.369*	259		2877.0736		
	34746.607	3																	2877.1347	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	34745.	041	3																	2877.2643	
2	34744.	026	3	37979.815-		3235.770	-19	.	.	1.5-	0.5	.	.	.	1.100	0.299*	801			2877.3484	
	34742.	905	3																	2877.4412	
	34742.	014	4																	2877.5150	
2	34741.	558	9	44449.545-		9707.980	-7	6.5-	6.5	6.5-	6.5	1.170	1.485	.315	1.170	1.485	315			2877.5528	
	34741.	143	5																	2877.5868	
	34738.	944	3																	2877.7694	
2	34733.	621	6	42236.935-		7498.364	0	3.5-	2.5	3.5-	2.5	1.035	1.320	.285	1.035	1.321	286			2877.7961	
	34737.	124	4																	2877.9201	
	34736.	393	3																	2877.9807	
	34735.	781	9									.818	.	.40						2878.0314	f SO2J06
	34734.	730	3																	2878.1185	
	34734.	211	3																	2878.1615	
	34733.	866	3																	2878.1901	
	34732.	801	3																	2878.2784	
	34732.	335	4																	2878.3170	
	34731.	919	5																	2878.3514	
	34730.	382	3																	2878.4788	
	34729.	297	3																	2878.5688	
	34728.	983	3																	2878.5948	
	34728.	120	3																	2878.6663	
2	34727.	359	6	8709.640-43437.020			-21	3.5-	3.5	3.5-	3.5	.308	.961	.653	0.308	0.960*	652			2878.7294	
	34726.	369	3																	2878.8115	
	34726.	053	4																	2878.8377	
	34725.	039	4																	2878.9218	
	34724.	043	3																	2879.0043	
	34723.	073	3																	2879.0848	
	34722.	737	3																	2879.1126	
	34721.	801	3																	2879.1902	
	34721.	511	3																	2879.2143	
	34721.	059	3																	2879.2518	
	34719.	431	3																	2879.3868	
	34718.	553	3																	2879.4596	
	34717.	941	3																	2879.5104	
2	34717.	358	6	44425.305-		9707.980	33	5.5-	6.5	5.5-	6.5	.	.	.445	1.065	1.485	420			2879.5587	
	34717.	042	3																	2879.5849	
	34716.	587	3																	2879.6227	
	34715.	487	3																	2879.7139	
	34714.	164	3																	2879.8237	
	34712.	646	3																	2879.9496	
2	34711.	830	5	40213.870-		5562.060	20	2.5-	1.5	2.5-	1.5	1.28	1.17	.11	1.280	1.169*	111			2880.0173	
	34711.	741	8																	2880.0247	
	34710.	811	3																	2880.1019	
2	34710.	199	5	43348.445-		8638.233	-13	5.5-	5.5	5.5-	5.5	1.115	1.515	.400	1.115	1.514	399			2880.1527	
	34709.	693	3																	2880.1947	
2	34709.	195	8	40427.180-		5717.976	-9	4.5-	3.5	4.5-	3.5	1.165	1.595	.430	1.165	1.596	431			2880.2360	
	34708.	762	3																	2880.2719	
	34707.	611	3																	2880.3674	
	34705.	632	4																	2880.5317	
	34703.	915	3																	2880.6742	
	34703.	340	3																	2880.7219	
	34702.	645	3																	2880.7796	
	34701.	437	3																	2880.8758	
	34701.	175	3																	2880.9017	
	34700.	697	3																	2880.9414	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	34699.994	3																		2880.9997	
	34698.307	3																		2881.1398	
	34697.931	3																		2881.1710	
	34696.500	3																		2881.2899	
2	34695.363	3	11504.095	-	45199.395	63	.	.	3.5-	3.5				0.859	0.955	96			2881.3843	CQ	
2	34694.145	5	40412.140	-	5717.976	-19	3.5-	3.5	3.5-	3.5	1.170	1.595	.425	1.170	1.596	426			2881.4855		
	34693.938	4																		2881.5027	
1	34692.957	4	6313.866	-	41006.850	-27*	.	.	4.0-	4.0				0.487	1.210	723			2881.5841		
	34692.509	4																		2881.6214	SI Q
2	34692.198	3	12048.548	-	46740.710	36	.	.	1.5-	1.5				-0.054	0.930*	984			2881.6472		
	34691.734	3																		2881.6857	
2	34691.124	3	12992.644	-	47683.770	-2	.	.	2.5-	3.5				0.643	1.090*	447			2881.7364		
	34690.841	3																		2881.7599	
	34687.903	3																		2881.8378	
	34689.442	3																		2881.8761	
	34689.027	3																		2881.9106	
2	34688.587	3	11504.095	-	46192.700	-18	.	.	3.5-	3.5				0.859	0.950	91			2881.9472		
	34687.329	3																		2882.0517	
	34686.948	3																		2882.0834	
	34686.009	3																		2882.1614	
	34685.326	4																		2882.2181	
	34684.351	3																		2882.2992	
	34683.752	3																		2882.3489	
2	34682.910	7	40400.905	-	5717.976	-19	2.5-	3.5	2.5-	3.5	1.100	1.595	.495	1.100	1.596	496			2882.4189		
	34682.034	4																		2882.4917	
	34681.450	3																		2882.5403	
	34679.984	3																		2882.6621	
2	34679.466	5	45405.840	-	10726.322	-52	.	.	4.5-	4.5				1.090	1.391*	301			2882.7052		
2	34679.158	4	13192.903	-	47872.094	-33	.	.	2.5-	1.5				0.372	0.760*	388			2882.7308		
	34677.974	3																		2882.8276	
2	34675.739	6	44383.735	-	9707.980	-16	5.5-	6.5	5.5-	6.5	1.09	1.49	.40	1.090	1.485*	395			2883.0150		
	34675.051	4																		2883.0722	
	34673.892	3																		2883.1686	
	34673.417	3																		2883.2081	
	34671.874	3																		2883.3364	
	34670.820	3																		2883.4241	
2	34670.185	5	41949.045	-	7278.862	2	3.5-	4.5	3.5-	4.5	1.050	1.545	.495	1.050	1.545	495			2883.4769		
	34668.692	3																		2883.6011	
2	34668.359	4	13809.910	-	48478.270	-1	.	.	4.5-	3.5				0.657	0.970	313			2883.6288		
	34666.901	3																		2883.7501	
	34665.767	3																		2883.8444	
	34665.498	3																		2883.8668	
	34665.173	3																		2883.8938	
2	34664.415	6	10436.770	-	45101.220	-35	4.5-	5.5	4.5-	5.5	.724	1.061	.337	0.724	1.060*	336			2883.9569		
	34664.063	3																		2883.9862	
	34662.679	3																		2884.1013	
	34662.069	3																		2884.1521	
	34661.512	3																		2884.1984	
	34659.927	3																		2884.3253	
	34659.497	3																		2884.3661	
	34658.066	3																		2884.4852	
	34657.078	3																		2884.5675	
	34656.303	3																		2884.6320	
	34654.644	3																		2884.7701	
	34653.491	3																		2884.8661	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	34653.156	3																	2884.8939	
	34652.476	3																	2884.9506	
	34651.055	3																	2885.0689	
2	34650.119	7	43288.355-		8638.233	-3	6.5-	5.5	6.5-	5.5	1.150	1.520	.370	1.150	1.514	364		2885.1468		
	34649.631	3																	2885.1874	
	34649.116	3																	2885.2303	
	34648.757	3																	2885.2602	
1	34646.799	4	38946.490-		4299.659	-32	.	.	1.0-	2.0	.	.	.	1.060	1.482*	422		2885.4233		
	34646.428	3																	2885.4542	
2	34645.805	5	40363.785-		5717.976	-4	.	.	2.5-	3.5	.	.	.	1.080	1.596*	516		2885.5061		
	34645.218	5																	2885.5550	
	34644.252	3																	2885.6363	
2	34643.722	6	8709.640-		43353.370	-8	3.5-	3.5	3.5-	3.5	.31	.97	.66	0.308	0.970*	662		2885.6796		
	34642.831	3																	2885.7538	
2	34642.059	7	41920.925-		7278.862	-4	4.5-	3.5	5.5-	4.5	.	.	.	1.120	1.545	425		2885.8181	Z Q	
	34641.554	3																	2885.8602	
	34641.269	3																	2885.8839	
	34640.574	4																	2885.9418	
	34640.114	3																	2885.9802	
	34639.699	3																	2886.0147	
	34639.209	3																	2886.0556	
2	34638.688	4	37874.470-		3235.770	-12	1.5-	0.5	1.5-	0.5	1.03	.30	.73	1.030	0.299	731		2886.0990		
	34638.043	3																	2886.1527	
	34635.926	3																	2886.3291	
	34634.867	3																	2886.4157	
	34634.401	3																	2886.4562	
	34633.287	3																	2886.5491	
	34632.931	5																	2886.5788	
2	34630.752	9	34630.775-		0.000	-23	1.5-	0.5	1.5-	0.5	1.205	3.140	1935	1.198	3.150	1952	93*	2886.7604		
	34629.392	3																	2886.8321	
	34628.896	4																	2886.9151	
	34627.490	3																	2887.0323	
	34626.922	3																	2887.0797	
	34626.637	4																	2887.1035	
	34626.213	3																	2887.1388	
	34625.622	4																	2887.1881	
	34625.062	3																	2887.2348	
	34624.398	3																	2887.2902	
	34622.943	3																	2887.4115	
1	34621.915	4	6313.866-		40935.790	-9*	4.0-	4.0	4.0-	4.0	.	.	.670	0.487	1.160*	673		2887.4972		
	34621.382	3																	2887.5417	
	34620.897	3																	2887.5822	
	34620.419	3																	2887.6220	
	34618.501	3																	2887.7820	
2	34617.661	6	13192.903-		47810.565	-1	2.5-	3.5	2.5-	3.5	.37	1.15	.775	0.372	1.160	788		2887.8521		
	34615.994	3																	2887.9912	
	34615.554	3																	2888.0279	
	34614.958	3																	2888.0776	
	34614.235	3																	2888.1338	
	34613.502	3																	2888.1991	
2	34613.036	7	38582.890-		3969.846	-8	2.5-	2.5	2.5-	2.5	1.110	1.660	.55	1.120	1.670	550		2888.2380		
	34612.219	5																	2888.3062	
	34610.836	3																	2888.4216	
	34608.461	3																	2888.6198	
	34607.714	3																	2888.6822	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1							G2	G1			D6	IS	IS
	34607.055	3																	2888.7372	
	34608.221	4																	2888.8068	
2	34605.931	3	38575.800	-	3969.846	-23	.	.	3.5-	2.5	.	.	.	1.150	1.670	520		2888.8310		
	34605.034	3																	2888.9017	
	34604.595	3																	2888.9425	
	34602.033	3																	2889.0730	
2	34602.253	5	40104.340	-	5502.060	-27*	2.5-	1.5	2.5-	1.5	1.00	1.17	.17	1.000	1.169	169		2889.1381		
	34601.642	3																	2889.1891	
	34600.024	3																	2889.3242	
	34599.734	3																	2889.3484	
	34599.492	3																	2889.3686	
2	34598.603	9	40316.585	-	5717.976	-6	3.5-	3.5	3.5-	3.5	1.090	1.595	.505	1.085	1.596	511		2889.4429		
	34598.201	3																	2889.4765	
	34597.843	3																	2889.5064	
	34597.552	3																	2889.5307	
	34596.810	3																	2889.5926	
	34596.492	3																	2889.6192	
	34595.900	3																	2889.6687	
	34595.027	3																	2889.7416	
2	34593.563	9	8198.666	-	42792.230	4	2.5-	3.5	2.5-	3.5	.415	.900	.485	0.414	0.900	486		2889.8635		
	34593.027	3																	2889.9087	
2	34592.025	7	43230.265	-	8638.233	-7	6.5-	5.5	6.5-	5.5	.	.	.44	1.075	1.514	439		2889.9924	JQ SP	
	34591.496	3																	2890.0366	
	34589.370	5																	2890.1724	
2	34588.148	5	43830.510	-	9242.356	-6	3.5-	3.5	3.5-	3.5	1.02	.	.345	1.020	1.369*	349		2890.3163		
	34587.388	4																	2890.3798	
	34586.499	3																	2890.4541	
	34584.289	5																	2890.6388	SI
	34582.359	4																	2890.8002	
	34581.356	4																	2890.8840	
	34581.065	3																	2890.9084	
2	34580.662	9	43823.020	-	9242.356	-2	4.5-	3.5	4.5-	3.5	1.17	1.30	.13	1.235	1.369	134		2890.9420		
2	34579.936	3	43218.185	-	8638.233	-16	.	.	4.5-	5.5	.	.	.	1.155	1.514	359		2891.0027		
	34579.607	4																	2891.0302	
	34578.316	3																	2891.1382	
2	34577.183	4	40295.200	-	5717.976	-41	4.5-	3.5	4.5-	3.5	1.045	1.595	.550	1.045	1.596	551		2891.2329		
	34576.991	3																	2891.2490	
	34575.606	3																	2891.3648	
	34574.989	3																	2891.4164	
	34573.916	3																	2891.5061	
	34572.578	3																	2891.6181	
	34571.723	3																	2891.6896	
2	34571.198	9	36586.190	-	2014.966	-26	2.5-	1.5	2.5-	1.5	1.33	1.88	.55	1.330	1.881	551		2891.7335		
	34570.718	3																	2891.7736	
	34570.288	6									1.07	1.07	.						2891.8096	
	34569.859	3																	2891.8455	
	34569.455	3																	2891.8793	
	34569.160	3																	2891.9040	
2	34568.238	7	45294.560	-	10726.322	0	5.5-	4.5	5.5-	4.5	1.09	1.39	.30	1.090	1.391*	301		2891.9811		
	34567.713	5																	2892.0250	
	34567.354	3																	2892.0551	
2	34566.770	3	38536.615	-	3969.846	1	.	.	1.5-	2.5	.	.	.	1.000	1.670	670		2892.1039		
	34565.914	3																	2892.1756	
	34565.653	4																	2892.1991	
2	34565.241	6	43203.480	-	8638.233	-6	5.5-	5.5	5.5-	5.5	1.120	1.515	.395	1.120	1.514	394		2892.2319		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		OBS		OBS		TERM			OBS		TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	J2 -	J1	G2	G1	G6	G2	G1								G6	IS	IS
	34563.541	3																				2892.3741		
	34562.549	5																				2892.4572		
	34562.243	3																				2892.4823		
2	34560.248	3	38530.110-		3969.846	-16	.	.	2.5-	2.5	.	.	.	1.245	1.670	425	.	.	.	.	2892.6497		
2	34560.036	5	34560.050-		0.000	-14	1.5-	0.5	1.5-	0.5	1.13	3.15	2.02	1.130	3.150	2020	.	.	.	.	2892.6675		
	34559.123	3																				2892.7439		
	34558.276	7											.49									2892.8148	DJO 2JOG	
	34557.773	3																				2892.8569		
	34557.009	3																				2892.9209		
	34555.754	3																				2893.0260		
	34553.880	3																				2893.1829		
	34552.973	3																				2893.2588		
	34552.247	3																				2893.3196		
	34551.001	3																				2893.4239		
	34550.850	3																				2893.4366		
2	34549.916	9	44257.905-		9707.980	-9	6.5-	6.5	6.5-	6.5	1.130	1.485	.355	1.130	1.485	355	.	.	.	.	2893.5148		
	34549.528	3																				2893.5473		
	34549.108	3																				2893.5825		
	34548.226	3																				2893.6564		
	34546.393	3																				2893.8099		
2	34545.404	7	41824.260-		7278.862	6	3.5-	4.5	3.5-	4.5	1.120	1.545	.325	1.120	1.545	425	.	.	.	.	2893.8928		
	34544.102	3																				2894.0018		
	34543.805	3																				2894.0267		
	34543.438	3																				2894.0575		
	34543.146	3																				2894.0819		
	34542.789	5																				2894.1118		
	34542.146	3																				2894.1657		
2	34540.728	6	41819.660-		7278.862	-10	4.5-	4.5	4.5-	4.5	.	.	.39	1.150	1.545	395	.	.	.	.	2894.2795		
	34540.415	3																				2894.3108		
	34540.110	4																				2894.3363		
	34538.221	3																				2894.4946		
2	34537.629	9	38507.290-		3969.846	-15	3.5-	2.5	3.5-	2.5	1.270	1.660	.390	1.270	1.670	400	.	.	.	.	2894.5610	-11*	
	34536.944	3																				2894.6017		
	34536.609	3																				2894.6297		
2	34535.962	4	46335.210-		11799.241	-7	.	.	6.5-	5.5	.	.	.	1.010	1.373*	363	.	.	.	.	2894.6840		
2	34535.654	6	37771.420-		3235.770	4	1.5-	0.5	1.5-	0.5	1.470	.295	1175	1.470	0.299*	1171	.	.	.	.	2894.7098		
	34535.051	3																				2894.7603		
	34534.508	3																				2894.8059		
2	34533.398	8	40035.490-		5502.060	-32	.	.	1.5-	1.5	1.175	1.175	.	1.180	1.169*	11	.	.	.	.	2894.8989		
	34533.054	6H											SML									2894.9277	DJ1	
	34532.611	3																				2894.9649		
	34531.603	3																				2895.0494		
2	34530.082	7	36545.045-		2014.966	3	2.5-	1.5	2.5-	1.5	1.195	1.880	.685	1.330	1.881	551	.	.	.	.	2895.1769		
2	34529.136	6	43771.490-		9242.356	2	3.5-	2.5	4.5-	3.5	.	.	.	1.045	1.369	324	.	.	.	.	2895.2562	Z	
	34528.292	3																				2895.3270		
2	34527.328	3	11504.095-		46031.465	-42	.	.	3.5-	2.5	.	.	.	0.859	0.800*	59	.	.	.	.	2895.4079		
	34526.661	3																				2895.4638		
	34526.155	3																				2895.5062		
	34524.518	3																				2895.6435		
	34524.226	3																				2895.6680		
2	34523.299	6	43765.665-		9242.356	-10	.	.	2.5-	3.5	.	.	.	1.110	1.369*	259	.	.	.	.	2895.7458		
2	34522.905	9	38492.760-		3969.846	-9	3.5-	2.5	3.5-	2.5	1.085	1.660	.575	1.095	1.670	575	.	.	.	.	2895.7788		
	34520.450	4																				2895.9848		
	34519.726	3																				2896.0455		
	34519.390	3																				2896.0737		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS TERM		OBS	OBS	OBS	TERM			OBS TERM		WAVELENGTH	NOTES	
							J2 - J1	J2 - J1				G2	G1	D6	IS	IS			
2	34518.636	8	43156.875-		8638.233	-6	5.5-	5.5	5.5-	5.5	1.16	1.51	.35	1.160	1.514*	354		2896.1370	
	34517.118	4																2896.2643	
	34516.350	3																2896.3288	
	34515.981	3																2896.3598	
	34515.064	3																2896.4357	
	34514.163	3																2896.5123	
2	34513.457	7	40015.520-		5502.060	-3	2.5-	1.5	2.5-	1.5	1.070	1.170	.10	1.070	1.169*	99		2896.5716	
2	34513.021	3	11504.095-		46017.075	41	.	.	3.5-	2.5				0.859	0.000*	0		2896.6082	
	34512.665	3																2896.6381	
	34512.060	7											.42					2896.6838	SI
2	34511.180	3	40013.240-		5502.060	0	.	.	2.5-	1.5				1.185	1.169	16		2896.7627	
	34510.724	3																2896.8010	
	34510.200	3																2896.8450	
	34509.751	3																2896.8827	
	34508.537	3																2896.9846	
	34507.879	3																2897.0398	
	34507.485	3																2897.0729	
	34506.906	3																2897.1215	
2	34505.747	3	11504.095-		46009.840	2	.	.	3.5-	4.5				0.859	1.050	191		2897.2188	
	34505.404	4																2897.2476	
	34504.638	3																2897.3077	
	34504.026	3																2897.3633	
	34502.357	3																2897.5035	
2	34501.470	3	8198.666-		42700.125	11	.	.	2.5-	2.5				0.414	0.815	401		2897.5780	
	34500.105	3																2897.6926	
	34499.424	3																2897.7498	
	34497.602	3																2897.9029	
	34497.322	3																2897.9264	
2	34495.826	9	40214.805-		5717.976	-3	4.5-	3.5	4.5-	3.5	1.320	1.595	.275	1.320	1.596	276		2897.9681	
2	34496.278	6	41775.135-		7278.862	5	.	.	4.5-	4.5				1.070	1.545	475		2898.0141	
2	34495.911	6	40213.870-		5717.976	17	.	.	2.5-	3.5				1.280	1.596*	316		2898.0450	
	34494.909	3																2898.1291	
	34493.495	9					2.5-	3.5			1.295	1.595	.300					2898.2480	
	34493.183	4																2898.2742	
2	34492.791	5	44200.775-		9707.980	-4	.	.	5.5-	6.5				1.100	1.485	385		2898.3071	
	34492.238	3																2898.3536	
	34491.872	3																2898.3843	
2	34490.899	3	13192.903-		47683.770	32	.	.	2.5-	3.5				0.372	1.090*	718		2898.4661	
	34489.600	4																2898.5753	
	34488.130	4																2898.6988	
2	34487.307	3	14476.135-		48963.485	-43	.	.	4.5-	4.5				1.060	1.055	5		2898.7680	
	34487.009	3																2898.7931	
	34486.272	3																2898.8550	
	34485.978	3																2898.8797	
2	34485.263	9	41764.120-		7278.862	5	5.5-	4.5	5.5-	4.5	1.080	1.545	.465	1.080	1.545	465		2898.9398	
	34483.048	3																2899.1261	
	34430.591	3																2899.3326	
2	34479.779	8	36494.740-		2014.966	5	1.5-	1.5	1.5-	1.5	1.470	1.880	.41	1.470	1.881	411		2899.4009	
	34479.263	3																2899.4443	
	34478.036	4																2899.5475	
	34477.775	5																2899.5695	
	34476.844	3																2899.6478	
	34475.251	9					0.5-	0.5										2899.7818	JQ 2LNS
2	34475.251	9	43113.500-		8638.233	-16	6.5-	5.5	6.5-	5.5	1.130	1.513	.383	1.130	1.514	384		2899.7818	SO 2LNS
	34471.721	3																2900.0787	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	34471.343	3																	2900.1105	
	34470.152	3																	2900.2107	
	34467.142	3																	2900.4640	
	34466.863	5					6.5-	6.5			1.14	1.53	.39						2900.4875	
	34466.330	5					2.5-	3.5			1.28	1.59	.31						2900.5323	
	34465.768	3																	2900.5796	
	34462.966	3																	2900.8155	
	34462.684	3																	2900.8392	
2	34462.138	7H	13013.685-	47475.820	3	5.5-	6.5	5.5-	6.5	.97	1.08	.11	0.950	1.085	135			2900.8852		
	34461.193	3																	2900.9647	
	34458.826	3																	2901.1640	
2	34457.533	5	41955.897-	7498.364	0	2.5-	2.5	2.5-	2.5	1.090	1.315	.225	1.090	1.321	231			2901.2729		
	34456.075	3																	2901.3957	
	34452.420	3																	2901.7035	
	34451.878	3																	2901.7491	
	34451.197	3																	2901.8065	
2	34450.688	4	41949.045-	7498.364	7	.	.	3.5-	2.5				1.050	1.321	271			2901.8494		
	34449.820	4																	2901.9225	
	34449.271	4																	2901.9687	
	34449.044	3																	2901.9879	
	34443.366	4																	2902.4663	
2	34441.884	7	36456.850-	2014.966	0	1.5-	1.5	1.5-	1.5	1.325	1.880	.555	1.325	1.881	556			2902.5912		
	34441.399	3																	2902.6320	
	34441.138	3																	2902.6540	
2	34440.699	5	41939.060-	7498.354	3	2.5-	2.5	2.5-	2.5	1.03	1.32	.29	1.030	1.321*	291			2902.6910		
	34439.732	3																	2902.7725	
2	34439.444	3	12048.548-	46488.000	-8	.	.	1.5-	2.5				-0.054	1.000*	1054			2902.7968		
2	34436.827	5	43075.060-	8638.233	0	.	.	4.5-	5.5				1.080	1.514	434			2903.0174		
	34436.523	3																	2903.0431	
	34436.174	5																	2903.0725	
1	34434.662	3	6313.866-	40748.540	-12*	.	.	4.0-	3.0				0.487	1.020	533			2903.2000		
	34433.930	4																	2903.2617	
	34433.491	5																	2903.2987	
	34432.842	4																	2903.3534	
	34431.758	3																	2903.4448	
	34431.419	3																	2903.4734	
2	34430.555	7	40148.535-	5717.976	-4	3.5-	3.5	3.5-	3.5	1.060	1.595	.535	1.060	1.596	536			2903.5463		
	34429.583	3																	2903.6283	
	34427.076	3																	2903.8397	
	34426.208	5																	2903.9129	
	34425.615	3																	2903.9630	
	34425.207	3																	2903.9974	
	34424.956	4																	2904.0185	
	34424.036	3																	2904.0919	
2	34422.197	9	41701.060-	7278.862	-1	5.5-	4.5	5.5-	4.5	1.080	1.545	.465	1.085	1.545	460			2904.2513		
	34421.722	3																	2904.2914	
2	34420.884	4	39922.940-	5502.060	4	.	.	1.5-	1.5				1.060	1.169*	109			2904.3621		
	34420.082	3																	2904.4298	
	34418.154	4																	2904.5925	
	34417.501	5																	2904.6476	
	34416.837	3																	2904.6994	
	34415.337	3																	2904.8302	
	34414.496	4																	2904.9012	
2	34414.051	9	43052.285-	8638.233	-1	5.5-	5.5	5.5-	5.5	1.150	1.520	.370	1.150	1.514	364			2904.9388		
	34413.339	4																	2904.9989	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	34412.894	6	8709.640	-	43122.525	9	.	.	3.5-	2.5	.	.	.	0.308	0.000*	0	.	.	2905.0365	
2	34412.488	4	16499.640	-	50912.115	13	.	.	3.5-	3.5	.	.	.	0.773	0.950*	177	.	.	2905.0707	
	34411.653	3					.	.			.	.	.				.	.	2905.1412	
	34409.042	3					.	.			.	.	.				.	.	2905.3617	
	34404.811	3					.	.			.	.	.				.	.	2905.7190	
	34402.614	3					.	.			.	.	.				.	.	2905.9046	
	34400.742	4					.	.			.	.	.				.	.	2906.0627	
2	34399.890	6	10436.770	-	44836.670	-10	4.5-	4.5	4.5-	4.5	.725	1.085	.360	0.724	1.085	361	.	.	2906.1347	
	34394.981	3					.	.			.	.	.				.	.	2906.5495	
	34393.199	3					.	.			.	.	.				.	.	2906.7001	
2	34392.183	7	43030.420	-	8638.233	-4	6.5-	5.5	6.5-	5.5	1.105	1.515	.410	1.110	1.514	404	.	.	2906.7860	
	34390.333	3					.	.			.	.	.				.	.	2906.9423	
	34389.779	4					.	.			.	.	.				.	.	2906.9892	
2	34389.149	5	38359.000	-	3969.846	-5	.	.	1.5-	2.5	.	.	.	0.995	1.670	675	.	.	2907.0424	
	34388.563	6					.	.			.	.	.				.	.	2907.0920	
	34387.450	3					.	.			.	.	.				.	.	2907.1861	
	34387.021	8					6.5-	5.5			1.090	1.515	.42				.	.	2907.2223	S00 JQ
2	34386.332	5	40104.340	-	5717.976	-32*	.	.	2.5-	3.5	.	.	.	1.000	1.596	596	.	.	2907.2806	
2	34382.964	6	8198.666	-	42581.655	-25	2.5-	1.5	2.5-	1.5	.419	.79	.37	0.414	0.790*	376	.	.	2907.5654	S00
	34382.659	3					.	.			.	.	.				.	.	2907.5912	
	34382.063	3					.	.			.	.	.				.	.	2907.6416	
	34380.893	3					.	.			.	.	.				.	.	2907.7405	
2	34380.195	7	41659.050	-	7278.862	7	4.5-	4.5	4.5-	4.5	1.120	1.545	.425	1.120	1.545	425	.	.	2907.7996	
	34379.687	3					.	.			.	.	.				.	.	2907.8425	
	34379.118	3					.	.			.	.	.				.	.	2907.8907	
	34378.117	4					.	.			.	.	.				.	.	2907.9754	
	34376.809	4					.	.			.	.	.				.	.	2908.0860	
	34376.523	3					.	.			.	.	.				.	.	2908.1102	
	34375.453	3					.	.			.	.	.				.	.	2908.2007	
2	34371.602	6	44079.570	-	9707.980	12	5.5-	6.5	5.5-	6.5	1.085	1.485	.400	1.085	1.485	400	.	.	2908.5266	
2	34369.116	5	8709.640	-	43078.770	-14	.	.	3.5-	2.5	.	.	.	0.308	0.840*	532	.	.	2908.7370	
	34368.626	4					.	.			.	.	.				.	.	2908.7784	
	34367.950	3					.	.			.	.	.				.	.	2908.8357	
2	34367.604	7	38337.450	-	3969.846	0	1.5-	2.5	1.5-	2.5	1.160	1.660	.500	1.160	1.670	510	.	.	2908.8649	
	34364.629	3					.	.			.	.	.				.	.	2909.1168	
2	34364.059	4	39866.140	-	5502.060	-21	.	.	2.5-	1.5	.	.	.	1.095	1.169	74	.	.	2909.1650	
2	34363.842	6	8709.640	-	43073.510	-28	3.5-	4.5	3.5-	4.5	.31	.95	.64	0.308	0.950*	642	-177*	.	2909.1834	
	34361.686	3					.	.			.	.	.				.	.	2909.3659	
	34361.417	3					.	.			.	.	.				.	.	2909.3887	
2	34360.404	6	45086.735	-	10726.322	-9	5.5-	4.5	5.5-	4.5	.	.	.26	1.120	1.391*	271	.	.	2909.4745	
	34360.085	4					.	.			.	.	.				.	.	2909.5007	
	34359.657	3					.	.			.	.	.				.	.	2909.5378	
	34359.355	3					.	.			.	.	.				.	.	2909.5633	
	34359.091	3					.	.			.	.	.				.	.	2909.5857	
	34358.425	4					.	.			.	.	.				.	.	2909.8115	
	34355.118	3					.	.			.	.	.				.	.	2909.9222	
	34354.209	3					.	.			.	.	.				.	.	2909.9992	
	34351.920	3					.	.			.	.	.				.	.	2910.1931	
	34350.923	3					.	.			.	.	.				.	.	2910.2776	
2	34349.448	9	41628.325	-	7278.862	-15	4.5-	4.5	4.5-	4.5	1.155	1.545	.390	1.155	1.545	390	.	.	2910.4025	
	34348.577	3					.	.			.	.	.				.	.	2910.4763	
2	34347.759	6	38317.610	-	3969.846	-5	.	.	2.5-	2.5	.	.	.	1.170	1.670	500	.	.	2910.5457	
	34346.870	3					.	.			.	.	.				.	.	2910.6210	
	34346.284	8					0.5-	0.5			.	.	1.49				.	.	2910.6707	ZQJQ2JD6
2	34345.582	9	39847.645	-	5502.060	-3	1.5-	1.5	1.5-	1.5	.940	1.170	.230	0.940	1.169	229	.	.	2910.7302	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	34343.757	3																			
2	34339.021	6	38308.875-		3969.866	-8	3.5-	2.5	3.5-	2.5	1.00	.	.66	1.010	1.670*	660			2910.8848		
2	34336.114	7	40054.100-		5717.976	-10	4.5-	3.5	4.5-	3.5	.	.	.41	1.160	1.596	436			2911.2863	S00	
	34335.460	5																	2911.5328		
	34334.993	3																	2911.5883		
	34332.396	5																	2911.6279		
2	34331.647	7	36346.625-		2014.966	-12	0.5-	1.5	0.5-	1.5	2.25	1.88	.37	2.240	1.881*	359		37*	2911.8481		
	34330.995	3																	2911.9117		
	34330.513	3																	2911.9670		
2	34329.809	6	40047.795-		5717.976	-10	3.5-	3.5	3.5-	3.5	1.10	.	.495	1.100	1.596*	496			2912.0078		
	34329.469	3																	2912.0676		
	34328.605	3																	2912.0964		
	34327.832	3																	2912.1697		
	34327.479	3																	2912.2353		
	34326.362	5																	2912.2652		
2	34325.892	4	41824.260-		7498.364	-4	.	.	3.5-	2.5	.	.	.	1.120	1.321	201			2912.3600		
	34325.521	3																	2912.3999		
	34324.835	3																	2912.4314		
	34324.373	5																	2912.4896		
	34321.545	4																	2912.5288		
	34320.852	3																	2912.7688		
	34320.608	3																	2912.8276		
	34320.325	3																	2912.8483		
	34320.140	3																	2912.8723		
	34319.516	3																	2912.8880		
	34319.067	5																	2912.9410		
	34318.571	3																	2912.9791		
	34317.600	3																	2913.0212		
	34316.176	3																	2913.1036		
	34314.431	3																	2913.2245		
2	34311.430	8	36326.420-		2014.966	-24	2.5-	1.5	2.5-	1.5	1.10	1.88	.78	1.099	1.881	782		-6*	2913.3727		
	34310.623	4																	2913.6275		
	34310.189	5																	2913.6960		
	34309.684	3																	2913.7329		
	34309.095	3																	2913.7758		
	34305.971	3																	2913.8258		
	34305.256	4																	2914.0911		
	34303.797	7					7.5-	6.5			1.098	1.485	.387						2914.1519		
	34302.872	4																	2914.2758	JQ S00	
	34300.168	3																	2914.3544		
	34299.908	3																	2914.5842		
	34299.162	3																	2914.6063		
	34298.603	3																	2914.6697		
	34298.176	3																	2914.7172		
	34297.946	3																	2914.7535		
2	34297.537	4	40015.520-		5717.976	-7	.	.	2.5-	3.5	.	.	.	1.070	1.596*	526			2914.7730		
	34297.106	3																	2914.8078		
	34296.416	3																	2914.8444		
2	34295.255	8	40013.240-		5717.976	-9	2.5-	3.5	2.5-	3.5	1.185	1.595	.410	1.185	1.596	411			2914.9031		
	34294.676	3																	2915.0017		
2	34294.037	9	36309.025-		2014.966	-22	2.5-	1.5	2.5-	1.5	1.095	1.880	.785	1.095	1.881	786			2915.0510		
	34293.559	3																	2915.1053		
	34291.048	3																	2915.1459		
	34290.237	3																	2915.3594		
	34289.613	3																	2915.4283		
																			2915.4814		

C	HAVENUMBER	I	T2	-	T1	0-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	34288.557	5	13192.903	-	47431.485	-25	.	.	2.5-	3.5	.	.	.	0.372	1.000	628	.	.	2915.5712	
	34287.937	3					.	.			.	.	.				.	.	2915.6239	
	34287.031	3					.	.			.	.	.				.	.	2915.7010	
2	34285.823	3	15098.815	-	49384.725	-87	.	.	1.5-	2.5	.	.	.	1.079	0.930*	149	.	.	2915.8037	
2	34285.408	7	45011.730	-	10726.322	0	4.5-	4.5	4.5-	4.5	1.055	1.390	.335	1.055	1.391	336	.	.	2915.8390	DJ0 JQ
	34285.037	9					1.10	.	.	.	.	.	1.11				.	.	2915.8705	DJ1SI2JD
	34284.148	3					.	.			.	.	.				.	.	2915.9461	
	34283.452	3					.	.			.	.	.				.	.	2916.0053	
	34280.885	3					.	.			.	.	.				.	.	2916.2237	
	34279.156	5					2.5-	3.5			.	.	.45				.	.	2916.3708	SO JQ
	34278.919	3					.	.			.	.	.				.	.	2916.3910	
	34277.999	3					.	.			.	.	.				.	.	2916.4693	
	34276.647	3					.	.			.	.	.				.	.	2916.5843	
	34276.122	3					.	.			.	.	.				.	.	2916.6290	
	34274.265	4					.	.			.	.	.				.	.	2916.7870	
	34272.775	4					.	.			.	.	.				.	.	2916.9138	
	34272.519	3					.	.			.	.	.				.	.	2916.9356	
	34272.262	3					.	.			.	.	.				.	.	2916.9575	
	34271.689	4					.	.			.	.	.				.	.	2917.0062	
	34270.386	3					.	.			.	.	.				.	.	2917.1172	
2	34270.067	7	42908.300	-	8638.233	0	5.5-	5.5	5.5-	5.5	1.105	1.520	.415	1.105	1.514	409	.	.	2917.1443	
	34269.641	3					.	.			.	.	.				.	.	2917.1806	
2	34269.125	3	10436.770	-	44705.905	-10	.	.	4.5-	3.5	.	.	.	0.724	0.950*	226	.	.	2917.2245	
	34267.721	3					.	.			.	.	.				.	.	2917.3440	
	34267.608	4					.	.			.	.	.				.	.	2917.3537	
	34267.485	3					.	.			.	.	.				.	.	2917.3641	
	34266.928	3					.	.			.	.	.				.	.	2917.4116	
	34264.832	3					.	.			.	.	.				.	.	2917.5900	
2	34264.458	3	11504.095	-	45768.610	-57	.	.	3.5-	2.5	.	.	.	0.859	0.755	104	.	.	2917.6219	
	34263.839	4					.	.			.	.	.				.	.	2917.6746	
2	34263.153	3	15641.100	-	49904.305	-52	.	.	3.5-	3.5	.	.	.	1.040	0.000*	0	.	.	2917.7330	
	34262.588	3					.	.			.	.	.				.	.	2917.7811	
2	34261.210	5	38231.070	-	3969.846	-14	.	.	3.5-	2.5	.	.	.	1.130	1.670*	540	.	.	2917.8985	
	34260.099	9					.	.			.	.	.				.	.	2917.9931	
2	34259.970	6	42898.175	-	8633.233	28	.	.	6.5-	5.5	.	.	.	1.095	1.514	419	.	.	2918.0041	
2	34258.912	9	39976.890	-	5717.976	-2	3.5-	3.5	3.5-	3.5	1.180	1.595	.415	1.170	1.596	426	-17*	.	2918.0942	
	34258.631	3					.	.			.	.	.				.	.	2918.1181	
2	34258.034	9	41536.885	-	7278.862	11	.	.	4.5-	4.5	.	.	.	1.155	1.545	390	.	.	2918.1690	
	34257.207	0					.	.			.	.	.				.	.	2918.2394	ZR Q
	34256.799	9					.	.			.	.	.				.	.	2918.2742	
2	34256.032	6	12048.548	-	46304.585	-5	.	.	1.5-	2.5	.	.	.	-0.054	0.980*	1034	.	.	2918.3396	
	34255.358	3					.	.			.	.	.				.	.	2918.3970	
	34254.752	3					.	.			.	.	.				.	.	2918.4486	
2	34253.985	5	10436.770	-	44690.770	-15	.	.	4.5-	4.5	.	.	.	0.724	0.000*	0	.	.	2918.5140	
	34253.513	3					.	.			.	.	.				.	.	2918.5542	
	34253.216	4					.	.			.	.	.				.	.	2918.5795	
	34253.130	4					.	.			.	.	.				.	.	2918.5868	
	34251.717	3					.	.			.	.	.				.	.	2918.7072	
2	34250.668	9R	41529.540	-	7278.862	-10	4.5-	4.5	4.5-	4.5	1.165	1.545	.380	1.165	1.545	380	.	.	2918.7966	
	34250.345	3					.	.			.	.	.				.	.	2918.8241	
	34249.132	4					.	.			.	.	.				.	.	2918.9275	
	34249.044	5					.	.			.	.	.				.	.	2918.9350	
2	34247.133	3	15657.156	-	49904.305	-16	.	.	2.5-	3.5	.	.	.	1.000	0.000*	0	.	.	2919.0979	
	34244.050	4					.	.			.	.	.				.	.	2919.3607	
	34243.494	3					.	.			.	.	.				.	.	2919.4081	

C	WAVELENGTH	NOTES	OBS IS	TERM D6	TERM G1	TERM G2	OBS D6	OBS G1	OBS G2	TERM J1	TERM J2	O-C	T1	T2	I	NAVENUMBER
	2919.5092															
	2919.5796															
2	34240.716	2	11504.095-45744.825	-14	.	.	.	.	.	3.5-	3.5					
	2919.6450															
	2919.7814															
	2919.8010															
	2919.8405															
	2919.9262															
	2919.9515															
	2919.9904															
	2920.0221															
2	34235.545	7	42873.785- 8638.233	-7	5.5-	5.5	5.5-	5.5	1.215	1.520	.305					
2	34234.467	6	13013.685-47248.155	-3	.	.	5.5-	5.5			.079					
	2920.0860															
	2920.1780															DJO
	2920.4578															
	2920.5278															
2	34229.512	7	38199.355- 3969.846	3	2.5-	2.5	2.5-	2.5	1.045	1.670	.625					
	2920.6007															
	2920.6341															
	2920.7583															
2	34215.100	7	44941.447-10726.322	-25	.	.	3.5-	4.5								
	2921.8310															
	2922.4204															
	2922.4657															
	2922.5179															
	2922.6200															
	2922.6675															
2	34204.358	3	44392.825-10188.463	-4	.	.	1.5-	0.5								
2	34203.907	5	37439.680- 3235.770	-3	.	.	0.5-	0.5								
	2922.7486															
	2922.7872															
	2922.8256															
2	34203.040	8	43911.020- 9707.980	0	5.5-	5.5	6.5-	6.5								
2	34202.264	8	39704.305- 5502.060	19	1.5-	1.5	1.5-	1.5	1.22	1.17	.05					
2	34201.718	3	17242.750-51444.460	8	.	.	2.5-	2.5								
	2922.8612															DJO JQ
	2922.9276															
	2922.9742															
	2923.0788															
	2923.1252															
2	34199.333	9	42837.570- 8638.233	-4	5.5-	5.5	5.5-	5.5	1.220	1.520	.300					
2	34199.061	3	41697.420- 7498.364	5	.	.	3.5-	2.5								
	2923.1781															
	2923.2013															
	2923.2713															
	2923.3865															
	2923.5062															
2	34194.810	3	39696.890- 5502.060	-20	.	.	0.5-	1.5								
	2923.5647															
	2923.5836															
2	34193.639	8	34193.640- 0.000	-1	1.5-	0.5	1.5-	0.5	.97	3.15	218					
2	34193.477	6	38163.310- 3969.846	13	1.5-	2.5	1.5-	2.5	1.220	1.670	.450					
	2923.6649															
	2923.6787															
	2923.8003															
	2923.8259															
	2923.8586															
2	34191.068	3	36206.050- 2014.966	-16	.	.	1.5-	1.5								
	2923.8847															
	2923.9809															
	2924.0078															
	2924.0333															
	2924.0985															
	2924.2756															
	2924.3258															
	2924.3576															
	2924.3736															
	2924.4474															
	2924.6222															
	2924.6550															

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
		34181.578	4																		2924.6965		
		34180.081	3																			2924.8246	
2		34179.341	5	41458.205-		7278.862	-2	4.5-	4.5	4.5-	4.5	1.130	1.545	.415	1.130	1.545	415				2924.8880		
		34179.123	3																			2924.9066	
		34177.509	4																			2925.0448	
2		34173.581	5	39891.565-		5717.976	-8	. - .		4.5-	3.5				1.090	1.596	506				2925.3810		
		34173.036	3																			2925.4276	
2		34172.586	9	41451.460-		7278.862	-12	5.5-	4.5	5.5-	4.5	1.180	1.545	.365	1.280	1.545	265				2925.4662		
		34172.039	3																			2925.5087	
		34170.341	3																			2925.6584	
		34168.524	3																			2925.8140	
		34167.985	3																			2925.8601	
		34167.661	3																			2925.8879	
		34166.144	3																			2926.0178	
2		34165.849	4	43408.215-		9242.356	-10	. - .		3.5-	3.5				1.080	1.369	289				2926.0430		
2		34165.412	9	41444.280-		7278.862	-6	5.5-	4.5	5.5-	4.5	1.065	1.545	.480	1.065	1.545	480				2926.0805		
		34164.282	3																			2926.1773	
		34164.114	3																			2926.1917	
		34163.898	5																			2926.2102	
		34159.417	3																			2926.5940	
2		34158.990	9	39876.970-		5717.976	-4	4.5-	3.5	4.5-	3.5	1.115	1.595	.480	1.115	1.596	481				2926.6306		
		34157.938	3																			2926.7208	
2		34155.615	4	39873.620-		5717.976	-29	. - .		3.5-	3.5				1.160	1.596*	436				2926.9198		
		34148.469	4																			2927.5323	
		34146.505	3																			2927.7007	
		34143.467	3																			2927.9612	
2		34141.914	3	14476.135-		48618.050	-1	. - .		4.5-	3.5				1.060	0.920*	140				2928.0944		
2		34140.155	9	38109.950-		3969.846	11	3.5-	2.5	3.5-	2.5	1.105	1.670	.565	1.105	1.670	565				2928.2453		
2		34139.363	6	13013.685-		47153.090	-42	. - .		5.5-	5.5				0.950	1.040*	90				2928.3132		
2		34139.085	7	43847.065-		9707.980	0	5.5-	6.5	5.5-	6.5	1.125	1.485	.360	1.120	1.485	365				2928.3371		
		34138.846	4																			2928.3576	
		34133.754	3																			2928.7944	
2		34128.330	6	43370.680-		9242.356	6	2.5-	3.5	2.5-	3.5	1.265	1.370	.105	1.265	1.369	104				2929.2599		
2		34126.490	7	37362.265-		3235.770	-5	1.5-	0.5	1.5-	0.5	1.205	.300	.905	1.215	0.299	916				2929.4179		
		34125.995	3																			2929.4604	
2		34123.073	9	41621.445-		7498.364	-8	2.5-	2.5	2.5-	2.5	1.065	1.315	.250	1.065	1.321	256				2929.7112		
		34122.809	4																			2929.7339	
		34122.336	3																			2929.7745	
		34118.916	3																			2930.0682	
		34113.424	3																			2930.5400	
		34112.925	3																			2930.5828	
2		34112.023	5	15641.100-		49753.063	60	. - .		3.5-	3.5				1.040	1.000*	40				2930.6603		
		34110.343	3																			2930.8047	
2		34108.362	9	41387.240-		7278.862	-16	5.5-	4.5	5.5-	4.5	1.125	1.545	.420	1.125	1.545	420				2930.9749		
		34107.816	3																			2931.0218	
		34107.397	3																			2931.0578	
		34105.739	3																			2931.2003	
2		34104.736	6	44831.060-		10726.322	-2	4.5-	4.5	4.5-	4.5			.305	1.085	1.391	306				2931.2865		
		34104.337	3																			2931.3208	
2		34102.973	5	41381.835-		7278.862	0	4.5-	4.5	4.5-	4.5	1.145	1.545	.400	1.145	1.545	400				2931.4381		
		34102.404	3																			2931.4870	
2		34095.862	0	15657.156-		49753.063	-45	. - .		2.5-	3.5				1.000	1.000*	0				2932.0495		
2		34095.712	5	42733.945-		8638.233	0	. - .		4.5-	5.5				1.090	1.514	424				2932.0624		
2		34094.678	3	41593.040-		7498.364	2	. - .		1.5-	2.5				1.150	1.321*	171				2932.1513		
		34094.206	4																			2932.1919	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	34093.590	3																	2932.2449	
	34093.191	3																	2932.2792	
2	34092.766	9	38062.615-		3969.846	-3	2.5-	2.5	2.5-	2.5	1.11	1.670	.56	1.110	1.670	560		2932.3157		
2	34091.704	8	45390.950-		11799.241	-5	5.5-	5.5	5.5-	5.5	1.07	1.37	.30	1.070	1.373*	303		2932.4071		
	34090.862	3																	2932.4795	
	34090.067	3																	2932.5479	
	34089.504	3																	2932.5964	
	34089.200	3																	2932.6225	
	34087.604	3																	2932.7598	
	34087.237	3																	2932.7871	
2	34086.960	3	12992.644-		47079.610	-6	.	.	2.5-	2.5	.	.	.	0.643	0.960*	317		2932.8152		
	34086.581	3																	2932.8478	
	34086.121	3																	2932.8874	
2	34083.688	9	39801.675-		5717.976	-11	4.5-	3.5	4.5-	3.5	1.065	1.595	.530	1.065	1.596	531		2933.0968		
2	34082.575	4	8709.640-		42792.230	-15	.	.	3.5-	3.5	.	.	.	0.308	0.900	592		2933.1926		
	34082.421	3																	2933.2058	
	34081.847	4																	2933.2552	
2	34081.354	9	42719.590-		8638.233	-3	5.5-	5.5	5.5-	5.5	1.185	1.520	.337	1.185	1.514	329		2933.2977		
	34080.903	4																	2933.3365	
	34080.367	5																	2933.3826	
	34079.972	5																	2933.4166	
	34079.204	3																	2933.4827	
	34078.617	3																	2933.5333	
	34078.225	3																	2933.5670	
2	34077.824	7	34077.830-		0.000	-6	1.5-	0.5	1.5-	0.5	1.640	3.140	1.50	1.650	3.150	1500	-93*	2933.6015	RQ	
	34077.356	3																	2933.6418	
	34077.025	4																	2933.6703	
	34076.681	3																	2933.6999	
	34076.262	3																	2933.7360	
	34076.043	3																	2933.7549	
	34075.829	3																	2933.7733	
	34075.486	3																	2933.8028	
	34075.105	3																	2933.8356	
2	34073.346	7	41352.185-		7278.862	23	4.5-	4.5	4.5-	4.5	1.225	1.545	.320	1.225	1.545	320		2933.9871		
	34072.993	3																	2934.0175	
	34072.508	4																	2934.0592	
2	34072.014	3	39574.070-		5502.060	4	.	.	2.5-	1.5	.	.	.	0.990	1.169*	179		2934.1018		
	34071.829	3																	2934.1177	
	34071.579	3																	2934.1393	
	34070.359	3																	2934.2443	
	34069.118	3																	2934.3512	
2	34068.854	5	44257.315-		10188.463	2	1.5-	0.5	1.5-	0.5	1.185	2.401	1216	1.185	2.402	1217		2934.3740		
	34068.484	3																	2934.4058	
	34068.077	3																	2934.4409	
	34067.563	6									1.468	.	.60						2934.4852	f SI2JD6
	34067.253	3																	2934.5119	
	34066.370	4																	2934.5879	
	34055.917	3																	2934.6270	
2	34064.921	6	39566.980-		5502.060	1	.	.	1.5-	1.5	1.15	1.15		1.180	1.169*	11		2934.7128		
	34063.085	3																	2934.8709	
	34062.523	3																	2934.9194	
	34062.204	3																	2934.9469	
	34061.734	3																	2934.9874	
2	34061.002	8	42699.235-		8638.233	0	4.5-	5.5	4.5-	5.5	1.195	1.520	.325	1.195	1.514	319		2935.0504		
	34059.990	3																	2935.1376	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	34059.282	3																	2935.1987	
	34057.519	4																	2935.3506	
	34057.271	3																	2935.3720	
	34056.269	3																	2935.4584	
	34055.245	3																	2935.5466	
	34053.716	3																	2935.6784	
	34053.096	3																	2935.7319	
	34051.398	3																	2935.8783	
	34050.961	3																	2935.9160	
	34050.334	3																	2935.9700	
	34050.018	3																	2935.9973	
	34049.465	9					3.5-	3.5					.35						2936.0450	
2	34048.718	8	34048.700-		0.000	18	0.5-	0.5	0.5-	0.5	.39	3.15	2.76	0.400	3.150*	2750			2936.1094	
	34047.444	3																	2936.2193	
2	34047.005	7	12992.644-		47039.640	9	. - .		2.5-	1.5			.36*	0.643	1.020*	377			2936.2571	
	34046.417	3																	2936.3078	
	34046.020	3																	2936.3421	
2	34045.521	9	37281.410-		3235.770-119		0.5-	0.5	0.5-	0.5	.72	.30	.42	0.730	0.299*	431			2936.3851	2LNS DJO
2	34045.521	9	36060.445-		2014.966	42	1.5-	1.5	1.5-	1.5	1.52	1.88	.36	1.520	1.881*	361	4		2936.3851	2LNS DJO
2	34045.126	3	14295.565-		48340.695	-4	. - .		3.5-	4.5				0.790	1.260*	470			2936.4192	
	34044.793	4																	2936.4479	
	34043.770	4																	2936.5361	
	34043.185	3																	2936.5866	
	34042.568	8											.18						2936.6398	2J06
2	34042.219	7	38012.065-		3969.846	0	2.5-	2.5	2.5-	2.5	.99	1.67	.68	0.990	1.670*	680			2936.6699	
2	34039.890	6	44766.125-		10726.322	-3	4.5-	4.5	4.5-	4.5	1.09	1.39	.30	1.090	1.391*	301			2936.8786	
	34039.369	3																	2936.9158	
	34038.498	3																	2936.9910	
	34038.171	3																	2937.0192	
	34037.652	3																	2937.0640	
1	34037.334	3	6313.866-		40351.235	-35	. - .		4.0-	5.0				0.487	1.070	583			2937.0914	
	34036.416	5									1.08	1.08							2937.1706	
	34034.786	3																	2937.3113	
	34032.525	3																	2937.5065	
2	34030.857	8	42669.090-		8638.233	0	6.5-	5.5	6.5-	5.5	1.110	1.520	.410	1.110	1.514	404			2937.6505	
	34030.491	4																	2937.6821	
	34029.912	4																	2937.7320	
2	34029.222	7	41308.120-		7278.862	-36	5.5-	4.5	5.5-	4.5	1.040	1.545	.505	1.040	1.545	505			2937.7916	
	34027.694	3																	2937.9235	
	34026.073	3																	2938.0635	
	34025.436	4																	2938.1185	
	34024.378	3																	2938.2099	
	34024.022	6					3.5-	4.5			1.035	1.390	.355						2938.2406	
	34023.295	3																	2938.3034	
	34022.683	4																	2938.3563	
	34022.359	3																	2938.3842	
	34022.041	3																	2938.4117	
	34021.528	3																	2938.4560	
	34020.933	3																	2938.5074	
2	34020.560	9	42658.795-		8638.233	-2	6.5-	5.5	6.5-	5.5	1.185	1.520	.335	1.180	1.514	334			2938.5396	
	34020.089	8																	2938.5303	
2	34019.739	5	41518.100-		7493.364	3	. - .		2.5-	2.5				1.160	1.321	161			2938.6106	
	34018.008	3																	2938.7601	
	34017.327	3																	2938.8189	
	34016.672	4																	2938.8755	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	34015.865	9	37985.715	-	3969.846	-4	3.5	2.5	3.5	2.5	1.175	1.670	.495	1.180	1.670*	490			2938.9452	
	34015.380	3					.	.	.	.	.	.	.						2938.9872	
	34015.041	4					.	.	.	.	.	.	.						2939.0164	
	34014.866	3					.	.	.	.	.	.	.						2939.0333	
2	34014.387	9	39732.360	-	5717.976	3	3.5	3.5	3.5	3.5	1.285	1.595	.310	1.275	1.596	321	-62		2939.0730	
	34013.665	3					.	.	.	.	.	.	.						2939.1371	
	34013.340	3					.	.	.	.	.	.	.						2939.1634	
2	34012.559	4	43254.910	-	9242.356	5	.	.	3.5	3.5	.	.	.	1.355	1.369	14			2939.2309	
	34012.156	5					.	.	.	.	.	.	.						2939.2657	
2	34011.442	9	36026.425	-	2014.966	-17	2.5	1.5	2.5	1.5	1.340	1.880	.54	1.344	1.881	537			2939.3275	DGQ
	34011.013	3					.	.	.	.	.	.	.						2939.3645	
	34010.579	3					.	.	.	.	.	.	.						2939.4020	
2	34009.971	9	37979.815	-	3969.846	2	1.5	2.5	1.5	2.5	1.090	1.660	.570	1.100	1.670*	570			2939.4546	
	34009.671	3					.	.	.	.	.	.	.						2939.4805	
	34003.945	6					.	.	.	.	.	.	.						2939.5433	
2	34003.283	4	39510.275	-	5502.060	68	.	.	0.5	1.5	.	.	.	0.290	1.169*	879			2939.6005	
	34007.705	4					.	.	.	.	.	.	.						2939.6505	
	34007.345	3					.	.	.	.	.	.	.						2939.6816	
	34006.847	5					.	.	.	.	.	.	.						2939.7246	
	34006.599	5					.	.	.	.	.	.	.						2939.7461	
	34005.875	3					.	.	.	.	.	.	.						2939.8087	
	34005.532	3					.	.	.	.	.	.	.						2939.8383	
	34004.787	3					.	.	.	.	.	.	.						2939.9027	HVLQ
2	34004.273	3	15098.815	-	49103.065	23	.	.	1.5	2.5	.	.	.	1.079	0.955	124			2939.9472	
	34003.457	3					.	.	.	.	.	.	.						2940.0177	
	34003.153	3					.	.	.	.	.	.	.						2940.0440	
	34002.856	3					.	.	.	.	.	.	.						2940.0697	
	34002.564	3					.	.	.	.	.	.	.						2940.0949	
	34002.110	3					.	.	.	.	.	.	.						2940.1342	
	34001.750	4					.	.	.	.	.	.	.						2940.1653	
	34000.952	3					.	.	.	.	.	.	.						2940.2343	
	34000.618	3					.	.	.	.	.	.	.						2940.2632	
	34000.210	3					.	.	.	.	.	.	.						2940.2985	
	33999.638	3					.	.	.	.	.	.	.						2940.3480	
	33998.839	3					.	.	.	.	.	.	.						2940.4171	
	33998.402	5					.	.	.	.	.	.	.						2940.4549	
	33997.769	3					.	.	.	.	.	.	.						2940.5096	
	33997.311	3					.	.	.	.	.	.	.						2940.5492	
	33996.859	3					.	.	.	.	.	.	.						2940.5883	
	33996.039	3					.	.	.	.	.	.	.						2940.6593	
	33995.720	3					.	.	.	.	.	.	.						2940.6869	
	33994.924	3					.	.	.	.	.	.	.						2940.7557	
	33994.672	3					.	.	.	.	.	.	.						2940.7775	
	33994.348	3					.	.	.	.	.	.	.						2940.8056	
	33993.973	4					.	.	.	.	.	.	.						2940.8380	
	33993.515	3					.	.	.	.	.	.	.						2940.8776	
	33992.914	3					.	.	.	.	.	.	.						2940.9296	
2	33992.147	3	14561.607	-	48553.715	39	.	.	1.5	2.5	.	.	.	1.149	0.640*	509			2940.9960	
	33991.647	3					.	.	.	.	.	.	.						2941.0392	
	33991.348	3					.	.	.	.	.	.	.						2941.0651	
2	33990.456	6	8709.640	-	42700.125	-29	3.5	2.5	3.5	2.5	.305	.815	.510	0.308	0.815	507			2941.1423	
	33989.635	3					.	.	.	.	.	.	.						2941.2133	
	33989.214	3					.	.	.	.	.	.	.						2941.2498	
	33988.820	3					.	.	.	.	.	.	.						2941.2787	
	33988.641	3					.	.	.	.	.	.	.						2941.2994	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33928.174	3																	2941.3398	
2	33987.599	9	37957.445-		3969.846	0	2.5-	2.5	2.5-	2.5	1.255	1.660	.405	1.260	1.670*	410			2941.3895	
	33987.222	6																	2941.4222	
	33986.821	3																	2941.4569	
2	33986.382	3	11504.095-		45490.434	43	.	.	3.5-	4.5	.	.	.	0.859	1.065	206			2941.4949	C2
2	33986.382	3	43694.395-		9707.980	-33	.	.	5.5-	6.5	.	.	.	1.130	1.485	355			2941.4949	C2
	33985.972	5																	2941.5304	
	33985.400	3																	2941.5799	
	33984.920	3																	2941.6214	
	33984.532	3																	2941.6550	
2	33984.066	8	12048.548-		46032.640	-26	.	.	1.5-	1.5	.0	.0	.0	-0.054	0.000*	0			2941.6953	
	33983.549	3																	2941.7401	
2	33982.885	4	12048.548-		46031.465	-32	1.5-	2.5	1.5-	2.5	-0.05	.80	.85	-0.054	0.800*	854			2941.7976	
	33982.427	3																	2941.8372	
	33982.051	3																	2941.8698	
	33981.789	3																	2941.8925	
	33980.636	4																	2941.9923	
	33980.341	3																	2942.0178	
	33979.738	3																	2942.0700	
	33979.493	3																	2942.0913	
	33979.041	3																	2942.1304	
2	33978.592	3	10436.770-		44415.300	62*	.	.	4.5-	3.5	.	.	.	0.724	0.940	216			2942.1693	
	33977.990	3																	2942.2214	
	33977.748	4																	2942.2424	
	33977.387	3																	2942.2736	
	33977.050	3																	2942.3028	
	33976.333	3																	2942.3649	
	33976.003	3																	2942.3935	
2	33975.478	5	11504.095-		45479.584	-11	.	.	3.5-	2.5	.	.	.	0.859	0.895	36			2942.4390	
	33975.190	6					0.5-	0.5			1.635	.300	1335						2942.4639	
	33974.775	3																	2942.4998	
	33974.391	5																	2942.5331	
	33973.895	3																	2942.5761	
	33973.462	3																	2942.6136	
	33972.890	3																	2942.6631	
	33972.051	3																	2942.7358	
	33971.675	3																	2942.7684	
	33971.367	3																	2942.7950	
	33971.042	3																	2942.8232	
	33970.681	3																	2942.8545	
2	33970.198	6	39688.175-		5717.976	-1	4.5-	3.5	4.5-	3.5	1.140	1.595	.455	1.140	1.596	456			2942.8963	
2	33968.865	5	42607.125-		8538.233	-27	.	.	4.5-	5.5	.	.	.	1.130	1.514	384			2943.0118	
2	33968.572	5	12048.548-		46017.075	45	.	.	1.5-	2.5	.	.	.	-0.054	0.000*	0			2943.0372	
	33968.261	8					3.5-	4.5			1.050	1.390	.340						2943.0641	
	33967.803	3																	2943.1038	
	33967.309	3																	2943.1466	
	33966.847	5																	2943.1867	
	33966.172	3																	2943.2452	
2	33965.846	8	41464.210-		7498.364	0	1.5-	2.5	1.5-	2.5	1.065	1.315	.250	1.065	1.321	256			2943.2734	
	33965.633	4																	2943.2919	
	33965.345	3																	2943.3168	
	33964.912	3																	2943.3543	
	33964.639	3																	2943.3780	
2	33964.227	4	41243.030-		7278.862	9	.	.	3.5-	4.5	.	.	.	1.145	1.545	400			2943.4137	
	33963.929	3																	2943.4395	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS 62	OBS 61	OBS D6	TERM 62	TERM 61	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES
	2943.4735	33963.537	3																		
2	2943.5095	33963.122	7	39465.195-		5502.060	-13	2.5-	1.5	2.5-	1.5	1.080	1.175	.095	1.070	1.169	99			2943.5667	
	2943.5937	33962.462	3																		
	2943.6345	33962.150	3																		
	2943.6717	33961.680	3																		
	2943.7298	33961.251	4																		
	2943.7723	33960.580	3																		
	2943.7985	33960.090	3																		
	2943.8321	33959.788	3																		
	2943.8847	33959.400	4																		
	2943.9296	33958.793	3																		
	2943.9636	33958.276	3																		
	2944.0014	33957.883	3																		
2	2944.0599	33957.447	3	42595.005-		8638.233	0	4.5-	5.5	4.5-	5.5	1.120	1.520	.400	1.115	1.514	399			2944.1300	
	2944.1738	33956.772	8																		
	2944.2021	33955.964	4																		
	2944.2309	33955.459	3																		
	2944.2708	33955.133	3																		
	2944.3361	33955.800	3																		
	2944.3754	33954.340	4																		
	2944.3962	33953.587	6					3.5-		3.5											
	2944.4287	33953.134	3																		
	2944.4683	33952.894	4																		
	2944.5070	33952.520	4																		
	2944.5361	33952.063	3																		
	2944.5633	33951.617	3																		
	2944.5923	33951.281	3																		
	2944.6534	33950.968	3																		
	2944.6896	33950.633	3																		
	2944.7169	33949.929	3																		
	2944.7515	33949.512	3																		
	2944.7890	33949.197	3																		
	2944.8213	33948.798	3																		
	2944.8536	33948.366	3																		
	2944.8835	33947.993	3																		
	2944.9036	33947.621	3																		
	2944.9344	33947.276	3																		
	2944.9685	33947.045	3																		
	2945.0287	33946.690	3																		
	2945.0783	33946.297	5																		
	2945.1333	33945.603	4																		
	2945.1604	33945.031	3																		
	2945.1969	33944.397	3																		
	2945.2582	33944.085	3																		
	2945.3167	33943.664	3																		
2	2945.3455	33942.958	9	41221.810-		7278.862	10	4.5-	4.5	4.5-	4.5	1.175	1.545	.370	1.180	1.545	365			2945.3902	
	2945.3902	33942.283	3																		
	2945.4306	33941.952	3																		
	2945.4701	33941.436	3																		
2	2945.5057	33940.971	3	11504.095-		45445.065	1	.	-	3.5-	4.5				0.859	1.000*	141			2945.5325	
	2945.5325	33940.516	3																		
	2945.5624	33940.343	3																		
		33940.106	3																		
		33939.797	3																		
		33939.452	3																		

C	HAVENUMBER	I	T2	-	T1	D-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	33939.245	3																	2945.5804	
	33938.300	3																	2945.6624	
	33937.973	3																	2945.6908	
	33937.620	3																	2945.7214	
2	33937.031	8	42575.325-	8638.233	-11	5.5-	5.5	5.5-	5.5	1.095	1.520	.425	1.090	1.514	424			2945.7682		
	33936.639	3																	2945.8066	
	33936.345	3																	2945.8321	
	33935.891	3																	2945.8715	
	33935.549	3																	2945.9012	
2	33935.139	4	10436.770-44371.925	-16				4.5-	3.5					0.724	0.970*	246			2945.9368	
2	33934.321	9	37904.140-	3959.846	27	3.5-	2.5	3.5-	2.5	1.27	1.66	.39	1.275	1.670	395			2946.0078		
	33933.523	3																	2946.0771	
	33933.261	3																	2946.0999	
	33933.035	3																	2946.1195	
	33932.478	3																	2946.1678	
	33932.072	3																	2946.2031	
	33931.783	3																	2946.2282	
	33931.392	3																	2946.2621	
	33930.932	3																	2946.3021	
	33930.486	3																	2946.3408	
	33930.200	3																	2946.3657	
	33929.552	3																	2946.4219	
	33928.975	6																	2946.4720	
	33928.624	5																	2946.5025	
	33928.089	3																	2946.5490	
	33927.432	4																	2946.6060	
	33927.171	3																	2946.6287	
	33926.923	3																	2946.6503	
	33926.347	3																	2946.7003	
	33925.950	4																	2946.7348	
	33924.966	3																	2946.8202	
	33924.699	3																	2946.8434	
	33924.399	3																	2946.8695	
	33924.067	5																	2946.8983	
2	33923.636	3	14476.135-	48399.780	-9			4.5-	3.5				1.060	0.950	110			2946.9358		
	33923.404	3																	2946.9559	
	33923.085	3																	2946.9836	
	33922.493	3																	2947.0351	
	33922.227	3																	2947.0582	
	33921.731	4																	2947.1013	
	33921.207	3																	2947.1468	
	33920.872	3																	2947.1759	
	33920.411	5																	2947.2160	
	33919.646	3																	2947.2824	
	33919.370	3																	2947.3064	
2	33918.365	7	8198.666-	42117.035	-4	2.5-	2.5	2.5-	2.5	.412	.835	.423	0.414	0.835	421			2947.3938		
	33917.835	3																	2947.4398	
	33917.490	3																	2947.4698	
	33917.161	3																	2947.4984	
	33916.151	3																	2947.5862	
	33915.443	3																	2947.6477	
	33914.934	3																	2947.6919	
	33914.636	3																	2947.7179	
2	33914.295	5	44102.745-	10188.463	13	1.5-	0.5	1.5-	0.5	1.09	2.40	1.31	1.160	2.402*	1242			2947.7475		
	33913.558	3																	2947.8116	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAWELENGTH	NOTES	
2	33913.417	3																			
2	33912.723	9	39630.685-		5717.976	14	4.5-	3.5	4.5-	3.5	1.125	1.595	.470	1.125	1.596	471			2947.8238		
	33911.910	3																		2947.8841	
	33911.458	3																		2947.9548	
	33911.181	3																		2947.9941	
2	33910.324	7	44636.635-		10726.322	11	4.5-	4.5	4.5-	4.5	1.075	1.390	.315	1.075	1.391	316			2948.0182		
	33909.858	3																		2948.0927	
	33909.465	3																		2948.1332	
	33909.137	3																		2948.1674	
	33908.456	5																		2948.1959	
	33907.941	4																		2948.2551	TI Q
	33907.633	3																		2948.2999	
	33907.397	3																		2948.3267	
	33906.852	3																		2948.3472	
	33906.382	3																		2948.3946	
	33905.780	5																		2948.4355	
	33905.296	3																		2948.4878	
2	33904.636	8	37874.470-		3969.846	12	1.5-	2.5	1.5-	2.5	1.015	1.660	.645	1.030	1.670	640			2948.5299		
	33904.070	5																		2948.5873	
2	33903.293	7	43145.645-		9242.356	4	3.5-	3.5	3.5-	3.5			.170	1.195	1.369	174			2948.6365		
	33902.938	3																		2948.7041	
	33902.462	3																		2948.7350	
	33901.923	3																		2948.7764	
	33901.651	3																		2948.8233	
2	33901.119	3	12992.644-		46893.745	18	.	.	2.5-	1.5				0.643	0.670*	27			2948.8469		
	33900.696	4																		2948.8932	
	33899.740	3																		2948.9300	
	33899.288	4																		2949.0132	
	33898.470	3																		2949.0525	
	33897.807	3																		2949.1237	
	33897.177	3																		2949.1813	
	33896.820	3																		2949.2362	
	33896.356	3																		2949.2672	
	33895.742	3																		2949.3076	
2	33894.926	3	12992.644-		46887.595	-25	.	.	2.5-	3.5				0.643	0.930	287			2949.3610		
	33894.521	3																		2949.4320	
2	33893.656	9	39611.620-		5717.976	12	3.5-	3.5	3.5-	3.5	1.195	1.595	.400	1.190	1.596*	406			2949.4621		
	33893.184	3																		2949.5426	37*
2	33892.650	6	39394.720-		5502.060	-10	.	.	2.5-	1.5				1.100	1.169	69			2949.5836		
2	33892.321	9	33892.325-		0.000	-4	0.5-	0.5	0.5-	0.5	1.21	3.14	1.93	1.220	3.150	1930			2949.6301		
	33892.030	4																		2949.6587	
	33891.734	3																		2949.6841	
	33891.431	3																		2949.7098	
	33891.158	3																		2949.7362	
	33890.852	3																		2949.7600	
	33890.669	3																		2949.7866	
	33890.347	3																		2949.8025	
2	33889.741	6	10436.770-		44326.520	-9	4.5-	4.5	4.5-	4.5			.24	0.724	0.960*	236			2949.8306		
	33889.258	3																		2949.8833	
	33888.833	3																		2949.9253	
2	33887.768	9	35902.735-		2014.966	-1	1.5-	1.5	1.5-	1.5	1.605	1.880	.275	1.605	1.881	276			2949.9623		
	33887.269	4																		2950.0551	23
2	33886.690	3	13192.903-		47079.610	-17	.	.	2.5-	2.5				0.372	0.960*	588			2950.0985		
	33886.215	3																		2950.1489	
	33885.063	3																		2950.1903	
																				2950.2906	

C	NAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		TERM	IS	IS	WAVELENGTH	NOTES	
							J2	J1	J2	J1							62	61						66
1	33884.571	3	33884.565-		0.000	6	.	.	1.0-	0.0	.	.	.	1.040	0.000*	0							2950.3334	
	33884.171	3					.	.			.	.	.										2950.3682	
	33883.808	3					.	.			.	.	.										2950.3998	
	33883.307	4					.	.			.	.	.										2950.4435	
	33883.072	4					.	.			.	.	.										2950.4639	
2	33882.711	9	35897.685-	2014.966	-8		0.5-	1.5	0.5-	1.5	2.195	1.880	.315	2.170	1.881*	289							2950.4954	
	33882.060	4																					2950.5521	
2	33881.772	9	10436.770-	44318.570	-28		4.5-	5.5	4.5-	5.5	.715	1.025	.310	0.724	1.035	311							2950.5771	-336*
	33880.719	3					.	.			.	.	.										2950.6689	
	33880.402	3					.	.			.	.	.										2950.6965	
	33880.052	3					.	.			.	.	.										2950.7269	
	33879.451	4					.	.			.	.	.										2950.7793	
	33878.995	3					.	.			.	.	.										2950.8190	
	33878.403	3					.	.			.	.	.										2950.8701	
	33877.739	3					.	.			.	.	.										2950.9284	
	33877.120	3					.	.			.	.	.										2950.9823	
	33876.377	3					.	.			.	.	.										2951.0471	
	33876.000	3					.	.			.	.	.										2951.0799	
2	33875.353	8	42513.590-	8638.233	-4		5.5-	5.5	5.5-	5.5	.	.	.402	1.115	1.514	399							2951.1363	
	33874.901	4					.	.			.	.	.										2951.1757	
	33874.538	3					.	.			.	.	.										2951.2073	
	33874.342	3					.	.			.	.	.										2951.2244	
	33874.041	3					.	.			.	.	.										2951.2506	
2	33873.353	9	35888.345-	2014.966	-26		2.5-	1.5	2.5-	1.5	.950	1.880	.930	0.965	1.881	916							2951.3105	92*
	33872.971	4					.	.			.	.	.										2951.3438	
	33872.522	3					.	.			.	.	.										2951.3829	
	33871.899	3					.	.			.	.	.										2951.4372	
	33871.454	3					.	.			.	.	.										2951.4760	
	33870.964	3					.	.			.	.	.										2951.5187	
	33870.428	4					.	.			.	.	.										2951.5654	
2	33869.976	9	37839.835-	3969.846	-13		3.5-	2.5	3.5-	2.5	1.220	1.660	.440	1.220	1.670	450							2951.6048	
	33869.245	4					.	.			.	.	.										2951.6685	
	33868.174	4					.	.			.	.	.										2951.7619	
	33867.952	4					.	.			.	.	.										2951.7812	
2	33867.509	9	33867.535-		0.000	-26	1.5-	0.5	1.5-	0.5	1.680	3.140	1.46	1.670	3.150*1480								2951.8198	27
	33866.971	3					.	.			.	.	.										2951.8667	
	33866.711	4					.	.			.	.	.										2951.8894	
	33866.537	3					.	.			.	.	.										2951.9045	
	33866.112	3					.	.			.	.	.										2951.9416	
	33865.769	3					.	.			.	.	.										2951.9715	
	33865.424	7					.	.			.	.	.										2952.0016	
2	33864.912	9	42503.155-	8638.233	-10		6.5-	5.5	6.5-	5.5	1.090	1.520	.430	1.090	1.514	424							2952.0462	
	33863.811	3					.	.			.	.	.										2952.1422	
	33863.262	3					.	.			.	.	.										2952.1900	
	33862.618	3					.	.			.	.	.										2952.2462	
	33861.993	3					.	.			.	.	.										2952.3007	
	33861.692	3					.	.			.	.	.										2952.3269	
	33861.425	3					.	.			.	.	.										2952.3502	
	33861.209	3					.	.			.	.	.										2952.3690	
	33860.898	3					.	.			.	.	.										2952.3970	
	33860.374	3					.	.			.	.	.										2952.4418	
	33859.928	4					.	.			.	.	.										2952.4807	
	33859.571	3					.	.			.	.	.										2952.5119	
	33859.188	4					.	.			.	.	.										2952.5453	
2	33858.245	5	43566.215-	9707.980	10		.	.	5.5-	6.5	.	.	.	1.120	1.485*	365							2952.6275	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33856.881	3																	2952.7465	
	33856.349	3																	2952.7929	
2	33855.743	3	14295.565	-	48151.405	-97	.	.	3.5-	3.5	.	.	.	0.790	1.010	220	.	.	2952.8457	CQ
	33855.543	3																	2952.8632	
	33855.195	3																	2952.8935	
2	33854.709	7	41133.595	-	7278.862	-24	3.5-	4.5	3.5-	4.5	1.195	1.545	.350	1.195	1.545	350	.	.	2952.9359	
2	33854.481	4	44580.780	-	10726.322	23	.	.	4.5-	4.5	.	.	.	1.060	1.391	331	.	.	2952.9558	
	33853.848	4																	2953.0110	
2	33853.105	8	37088.890	-	3235.770	-15	.	.	0.5-	0.5	.	.	.	0.890	0.299*	591	.	.	2953.0758	
	33852.723	3																	2953.1091	
	33852.376	3																	2953.1394	
	33852.054	3																	2953.1675	
	33851.505	3																	2953.2154	
	33851.291	3																	2953.2341	
	33850.055	3																	2953.3419	
	33849.719	3																	2953.3712	
	33849.047	3																	2953.4299	
	33848.587	3																	2953.4700	
	33848.129	5																	2953.5100	
	33847.324	3																	2953.5802	
2	33846.727	4	13192.903	-	47039.640	-10	.	.	2.5-	1.5	.	.	.	0.372	1.020*	648	.	.	2953.6323	
	33846.191	4																	2953.6791	
	33845.730	3																	2953.7193	
2	33844.734	3	42482.960	-	8638.233	7	.	.	6.5-	5.5	.	.	.	1.135	1.514	379	.	.	2953.8063	
	33844.195	3																	2953.8533	
	33843.244	3																	2953.9363	
	33842.799	4																	2953.9752	
	33842.412	3																	2954.0089	
	33841.940	3																	2954.0501	
	33841.638	3																	2954.0765	
	33841.147	4																	2954.1194	
	33840.634	3																	2954.1641	
	33840.201	3																	2954.2019	
	33839.571	3																	2954.2569	
	33838.752	3																	2954.3285	
	33838.336	3																	2954.3648	
	33838.157	4																	2954.3804	
	33837.747	4																	2954.4162	
2	33837.267	9	37807.135	-	3969.846	-22	3.5-	2.5	3.5-	2.5	1.09	1.66	.57	1.090	1.670*	580	-92*	.	2954.4581	
	33836.763	3																	2954.5021	
	33836.505	3																	2954.5246	
	33835.947	3																	2954.5734	
	33835.658	3																	2954.5986	
	33835.265	3																	2954.6329	
2	33834.904	4	39336.975	-	5502.060	-11	1.5-	1.5	1.5-	1.5	.	.	.38	0.780	1.169*	389	.	.	2954.6645	DJO
2	33834.188	7	41113.050	-	7278.862	0	.	.	4.5-	4.5	.	.	.	1.120	1.545	425	.	.	2954.7270	
	33833.519	3																	2954.7854	
	33833.296	3																	2954.8049	
2	33832.667	5	43075.060	-	9242.356	-37	.	.	4.5-	3.5	.	.	.	1.080	1.369	289	.	.	2954.8598	
	33832.254	3																	2954.8959	
	33831.695	3																	2954.9447	
2	33831.063	7	8198.666	-	42029.735	-6	2.5-	3.5	2.5-	3.5	.41	.69	.28	0.414	0.695	281	.	.	2954.9999	
	33830.807	4																	2955.0223	
	33830.267	3																	2955.0695	
	33828.828	3																	2955.1952	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
		33828.408	3																		2955.2319	
		33827.845	7					4.5-	5.5					.310							2955.2810	JQ
		33826.972	3																		2955.3573	
		33826.384	6																		2955.4087	
		33825.830	3																		2955.4571	
		33825.517	3																		2955.4845	
		33825.165	3																		2955.5152	
		33824.848	4																		2955.5429	
2		33824.161	9	39542.145-	5717.976	-8	4.5-	3.5	4.5-	3.5		.985	1.595	.61	0.985	1.596	611			2955.6029		
		33823.647	3																		2955.6479	
		33823.395	3																		2955.6699	
		33823.168	3																		2955.6897	
2		33822.725	6	37058.525-	3235.770	-30	1.5-	0.5	1.5-	0.5				.88	1.180	0.299	881			2955.7284		
		33822.186	3																		2955.7755	
		33821.974	3																		2955.7941	
		33821.618	3																		2955.8252	
2		33820.421	9	33820.430-	0.000	-9	1.5-	0.5	1.5-	0.5	1.40	3.14	1.74	1.410	3.150	1740				2955.9298		
		33819.961	3																		2955.9700	
		33819.752	3																		2955.9883	
		33819.248	3																		2956.0323	
		33818.995	3																		2956.0544	
		33818.412	5																		2956.1054	
		33818.010	5																		2956.1405	TI Q
		33817.402	3																		2956.1937	
		33816.887	6					1.5-	2.5					.66							2956.2387	
		33816.429	4																		2956.2788	
		33816.154	6																		2956.3028	
		33816.050	7																		2956.3119	
		33815.935	4																		2956.3219	
		33815.654	3																		2956.3465	
1		33815.025	3	9386.801-	43201.845	-19	.	.	5.0-	5.0					0.801	1.090	289			2956.4015		
		33814.798	3																		2956.4214	
		33814.541	4																		2956.4438	
		33814.206	4																		2956.4731	
2		33813.726	9	39531.705-	5717.976	-3	3.5-	3.5	3.5-	3.5	1.070	1.595	.525	1.060	1.596	536			-9*	2956.5151		
		33813.210	3																		2956.5602	
		33812.891	3																		2956.5881	
		33811.930	3																		2956.6721	
		33811.762	3																		2956.6868	
2		33810.858	4	13192.903-	47003.820	-59	.	.	2.5-	3.5					0.372	0.935	563			2956.7659		
		33810.510	3																		2956.7963	
		33809.956	6					3.5-	4.5					.27							2956.8448	JQ
		33809.529	3																		2956.8821	
		33809.366	3																		2956.8964	
		33809.149	3																		2956.9153	
		33808.712	5																		2956.9536	
		33808.298	5																		2956.9898	
		33806.872	3																		2957.1145	
		33806.222	3																		2957.1714	
		33805.830	3																		2957.2057	
		33805.329	3																		2957.2495	
		33804.400	3																		2957.3308	
		33803.727	5																		2957.3896	
		33803.178	3																		2957.4377	
		33802.714	3																		2957.4783	

C	HA	VE	NUMBER	I	T2	-	T1	O-C	OBS	OSS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
									J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG	IS	IS			
2					37771.420-		3969.846	-3	1.5-	2.5	1.5-	2.5	1.52	1.67	.15	1.470	1.670*	200				2957.5033	
																						2957.5311	
																						2957.5447	
																						2957.5783	
																						2957.6199	
																						2957.6504	
																						2957.6679	
																						2957.7150	
																						2957.8103	
																						2957.8436	
																						2957.8915	
																						2957.9201	
																						2957.9456	
																						2957.9799	
																						2958.0027	
2					41294.660-		7498.364	5	2.5-	2.5	2.5-	2.5	1.18	1.32	.136	1.180	1.321	141				2958.0395	
																						2958.0785	
2					14295.565-		48091.025	-19	.	.	3.5-	2.5	.	.	.	0.790	1.100	310				2958.1148	
																						2958.1866	
																						2958.2288	
																						2958.2641	
																						2958.2946	
																						2958.3539	
																						2958.4033	DJO
																						2958.4268	
																						2958.4808	
																						2958.5072	
																						2958.5340	
																						2958.6909	
																						2958.7413	
																						2958.7794	
2					39289.160-		5502.060	-11	2.5-	1.5	2.5-	1.5	1.02	1.17	.15	1.020	1.169	149				2958.8460	
																						2958.8889	
																						2958.9348	
																						2958.9987	
																						2959.0414	
																						2959.0766	
																						2959.1378	
																						2959.1592	
																						2959.2946	
																						2959.3337	
																						2959.3641	
																						2959.4023	
																						2959.4346	
																						2959.4582	
																						2959.5009	
																						2959.5630	
																						2959.5919	
																						2959.6480	
																						2959.6893	
																						2959.7357	
2					43965.055-		10188.463	8	.	.	0.5-	0.5	.	.	.	0.770	2.402*	1632				2959.7649	
																						2959.7943	
																						2959.8368	
2					42413.240-		8638.233	-1	.	.	4.5-	5.5	.	.	.	1.055	1.514	459				2959.9046	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	33774.710	3																	2959.9306	
	33774.439	3																	2959.9543	
	33774.155	3																	2959.9792	
	33773.795	3																	2960.0107	
	33773.511	3																	2960.0356	
	33773.201	3																	2960.0628	
	33772.835	3																	2960.0949	
	33772.304	5																	2960.1414	
	33771.459	5																	2960.2155	
	33770.462	5																	2960.3029	
	33769.970	3																	2960.3460	
	33769.615	6																	2960.3772	
	33768.878	3																	2960.4418	
	33768.560	3																	2960.4696	
	33768.143	3																	2960.5062	
	33767.725	3																	2960.5429	
	33767.235	3																	2960.5858	
	33766.823	3																	2960.6219	
2	33765.634	8	37735.495-	3969.846	-15	3.5-	2.5	3.5-	2.5	1.10	1.69	.59	1.090	1.670	580			2960.7262		
	33765.154	3																	2960.7683	
	33764.735	3																	2960.8050	
	33764.250	3																	2960.8476	
	33763.958	3																	2960.8732	
2	33763.483	3	11504.095-	45267.550	28	. - .		3.5-	4.5				0.859	1.045	186			2960.9148		
	33763.253	3																	2960.9350	
	33762.613	3																	2960.9911	
	33761.282	3																	2961.1079	
	33760.612	3																	2961.1666	
	33759.987	3																	2961.2215	
	33759.582	3																	2961.2570	
	33759.012	4																	2961.3070	
	33758.443	3																	2961.3569	
	33757.844	3																	2961.4095	
	33757.331	4																	2961.4545	
	33756.956	3																	2961.4874	
	33756.595	3																	2961.5190	
	33755.917	6								1.63		11							2961.5785	f SI2JD6
2	33755.466	6	43943.935-	10188.463	-6	1.5-	0.5	1.5-	0.5	1.09	2.40	1.31	1.095	2.402	1307			2961.6181		
	33754.126	3																	2961.7357	
2	33751.253	3	41030.115-	7278.862	0	. - .		3.5-	4.5				1.100	1.545*	445			2961.9878		
2	33749.955	7	10436.770-	44196.735	-10	4.5-	5.5	4.5-	5.5	.721	1.087	.366	0.724	1.090*	366			2962.1017	SI	
	33749.627	4																	2962.1305	
	33748.869	3																	2962.1970	
2	33748.032	3	12992.644-	46740.710	-34	. - .		2.5-	1.5				0.643	0.930*	287			2962.2705		
	33747.747	3																	2962.2955	
2	33745.844	7	43534.325-	10188.463	-18	1.5-	0.5	1.5-	0.5	1.06	2.40	134	1.060	2.402	1342			2962.4626	2LNS	
	33745.844	7																	2962.4626	2LNS
	33745.508	4																	2962.4921	
2	33744.696	7	41243.080-	7498.364	-20	3.5-	2.5	3.5-	2.5	1.145	1.321	.18	1.145	1.321	176			2962.5634		
2	33744.559	4	47735.510-	13990.952	1	. - .		1.5-	1.5				1.095	1.728	633			2962.5754		
	33744.215	3																	2962.6056	
2	33743.557	3	15641.100-	49384.725	-68	. - .		3.5-	2.5				1.040	0.930*	110			2962.6634		
	33743.346	3																	2962.6819	
	33742.927	6																	2962.7187	DJO
	33742.063	4																	2962.7945	

C	HAVENUMBER	I	T2	-	T1	0-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS -G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	33741.254	3																			
2	33739.623	7	44465.940-		10726.322	5	5.5-	4.5	5.5-	4.5	1.082	1.390	.308	1.095	1.391	296			2962.8656		
	33738.200	4																		2963.0088	
	33735.637	3																		2963.1338	
	33735.177	3																		2963.3589	
	33734.961	3																		2963.3993	
2	33734.330	9	35749.300-		2014.966	-4	2.5-	1.5	2.5-	1.5	1.14	1.88	.735	1.140	1.881*	741				2963.4183	
	33733.796	3																		2963.4737	
	33731.553	3																		2963.5207	
	33730.209	3																		2963.7177	
	33729.767	3																		2963.8358	
	33727.455	3																		2963.8747	
	33725.685	3																		2964.0778	
	33724.704	3																		2964.2334	
	33724.122	3																		2964.3196	
	33722.746	4																		2964.3708	
	33722.460	3																		2964.4918	
	33722.279	3																		2964.5169	
	33721.676	4																		2964.5328	
2	33721.020	9	33721.040-		0.000	-20	1.5-	0.5	1.5-	0.5	1.235	3.14	1905	1.228	3.150	1922		36		2964.5858	
	33720.341	4																		2964.6435	
2	33720.053	5	12048.548-		45768.610	-9	.	.	1.5-	2.5	.	.	.	-0.054	0.755	809				2964.7032	
	33719.640	3																		2964.7285	
	33719.059	3																		2964.7648	
	33718.744	3																		2964.8159	
	33718.352	4																		2964.8436	
2	33717.816	8	36953.625-		3235.770	-39	0.5-	0.5	0.5-	0.5	.92	.32	.60	0.920	0.299*	621				2964.8781	
	33716.915	7					5.5-	6.5												2964.9252	
2	33716.365	3	12048.548-		45764.910	3	.	.	1.5-	1.5	.	.	.	-0.054	0.660*	714				2965.0045	S00 Q
	33716.079	3																		2965.0528	
	33715.702	3																		2965.0780	
	33715.135	3																		2965.1111	
	33713.937	3																		2965.1610	
	33713.426	3																		2965.2664	
	33712.820	3																		2965.3061	
	33712.292	3																		2965.3646	
	33711.950	3																		2965.4111	
2	33711.227	8	35726.195-		2014.966	-2	0.5-	1.5	0.5-	1.5	1.61	1.88	.27	1.550	1.881*	331				2965.4403	
2	33709.525	5	35945.320-		3235.770	-25	1.5-	0.5	1.5-	0.5	1.03	.30	.73	1.030	0.299	731				2965.5048	
	33709.251	3																		2965.6545	
	33708.926	3																		2965.6786	
	33707.378	3																		2965.7072	
	33706.902	3																		2965.8434	
	33706.574	3																		2965.8853	
	33706.089	3																		2965.9142	
	33705.425	4																		2965.9568	
	33704.778	5																		2966.0153	
2	33704.525	5	41202.885-		7498.354	4	.	.	1.5-	2.5	.	.	.	1.070	1.321*	251				2966.0722	
2	33703.680	7	39421.670-		5717.976	-14	.	.	4.5-	3.5	.	.	.50	1.100	1.596	496				2966.0945	
	33703.179	3																		2966.1688	DJ1
	33702.831	3																		2966.2129	
	33701.673	3																		2966.2436	
2	33700.759	3	13192.903-		46893.745	-83	.	.	2.5-	1.5	.	.	.	0.372	0.670*	298				2966.3450	
	33700.173	6											.32Q							2966.4259	
2	33698.951	3	44425.305-		10726.322	-32	.	.	5.5-	4.5	.	.	.	1.065	1.391	326				2966.4775	
																				2966.5851	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	O3S J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33698.063	4																	2966.6633	
	33697.526	3																	2966.7106	
	33697.130	5																	2966.7454	
	33696.752	3																	2966.7787	
2	33696.018	9	43403.995-		9707.980	3	6.5-	6.5	6.5-	6.5			.353	1.130	1.485	355		2966.8433		
	33695.356	4																	2966.9016	FE Q
	33694.819	5																	2966.9489	
	33694.349	3																	2966.9903	
	33693.963	4																	2967.0243	
	33693.204	3																	2967.0911	
	33691.718	3																	2967.2220	
2	33691.230	3	8709.640-		42400.935	-15	.	.	3.5-	4.5				0.308	1.000*	692		2967.2606		
	33690.921	3																	2967.2922	
	33690.195	3																	2967.3561	
	33689.547	5																	2967.4132	
	33689.134	4																	2967.4496	
2	33688.068	9	42326.310-		8638.233	-9	6.5-	5.5	6.5-	5.5	1.095	1.513	.418	1.095	1.514	419		2967.5435	S00	
	33687.509	3																	2967.5927	
2	33687.078	6	40965.950-		7278.862	-10	.	.	3.5-	4.5				1.105	1.545	440		2967.6307		
	33686.618	4																	2967.6712	
	33686.189	3																	2967.7090	
2	33685.153	6	39187.220-		5502.060	-7	.	.	2.5-	1.5	1.17	1.17		1.170	1.169*	1		2967.8003		
2	33684.669	4	41183.055-		7498.364	-22	.	.	3.5-	2.5			.20*	1.100	1.321	221		2967.8430	DJ1	
	33684.346	3																	2967.8714	
	33684.038	3																	2967.8986	
	33683.810	3																	2967.9186	
	33683.242	3																	2967.9687	
	33681.934	3																	2968.0840	
	33681.534	5																	2968.1192	
	33681.156	3																	2968.1525	
	33678.822	3																	2968.3582	
2	33678.221	3	42316.425-		8638.233	29	.	.	5.5-	5.5				1.155	1.514	359		2968.4112		
	33677.532	3																	2968.4719	
2	33676.750	5	39394.720-		5717.976	6	2.5-	3.5	2.5-	3.5	1.100	1.595	.495	1.100	1.596	496		2968.5409		
	33675.805	3																	2968.6242	
2	33675.516	3	45474.760-		11799.241	-3	.	.	4.5-	5.5				1.090	1.373	283		2968.6497		
2	33675.280	3	14476.135-		48151.405	10	.	.	4.5-	3.5				1.060	1.010	50		2968.6705		
	33674.482	3																	2968.7408	
	33674.141	4																	2968.7709	
	33673.316	3																	2968.8436	
	33672.929	3																	2968.8777	
	33672.341	3																	2968.9296	
	33672.023	3																	2968.9576	
2	33671.496	3	13809.910-		47481.485	-79	.	.	4.5-	3.5				0.657	1.000	343		2969.0041		
2	33671.144	9	37640.995-		3969.846	-5	2.5-	2.5	2.5-	2.5	1.345	1.670	.325	1.350	1.670*	320		2969.0351		
	33670.663	4																	2969.0775	
	33670.193	5																	2969.1190	
2	33669.380	3	17242.750-		50912.115	15	.	.	2.5-	3.5				1.200	0.950*	250		2969.1907		
	33667.589	3																	2969.3487	
1	33667.240	7	6313.866-		39981.145	-39	4.0-	3.0	4.0-	3.0	.485		.43	0.487	0.905	418	-264	2969.3794	S00	
	33666.998	5																	2969.4008	
	33666.493	3																	2969.4449	
	33665.833	3																	2969.5035	
	33664.495	3																	2969.6216	
	33662.645	4																	2969.7848	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	2969.9349	33660.944	3																		
	2969.9755	33660.483	5					5.5-	5.5			1.105	1.370	.265							
	2970.0181	33660.001	3																		
	2970.1031	33659.037	3																		
	2970.1590	33658.404	3																		
	2970.2512	33657.359	4																		
	2970.3901	33655.785	3																		
2	2970.4348	33655.279	9	40934.150-	7278.862	-9		5.5-	4.5	5.5-	4.5	1.165	1.545	.380	1.165	1.545	380				
	2970.5187	33654.328	7																		
	2970.5494	33653.980	7																		
	2970.7056	33652.211	3																		
	2970.8210	33650.904	3																		
2	2970.8709	33650.339	5	8198.666-	41349.030	-25		2.5-	2.5	2.5-	2.5	.415	1.080	.665	0.414	1.080	666				
2	2970.9897	33648.993	5	42891.360-	9242.356	-11		.	.	4.5-	3.5				1.170	1.369*	199				
	2971.1134	33647.592	5																		
	2971.1773	33646.869	3																		
2	2971.3760	33644.619	7	35659.575-	2014.966	10		0.5-	1.5	0.5-	1.5			1.36	0.460	1.881*	1421	-117*		DG*B2LNS	
2	2971.3760	33644.619	7	10436.770-	44081.440	-51		4.5-	4.5	4.5-	4.5			.155	0.724	0.875	151				B 2LNS
2	2971.4133	33644.196	7	39362.185-	5717.976	-13		4.5-	3.5	4.5-	3.5	1.075	1.595	.53	1.075	1.596	521				
	2971.4654	33643.607	3																		
2	2971.7491	33640.395	4	43348.445-	9707.980	-70		.	.	5.5-	6.5				1.115	1.485	370				CQ
2	2971.8176	33639.620	8	40918.485-	7278.862	-3		4.5-	4.5	4.5-	4.5	1.070	1.545	.47	1.075	1.545	470				
	2971.8758	33638.961	3																		
	2971.9134	33638.535	3																		
	2971.9656	33637.944	3																		
	2972.0160	33637.374	3																		
2	2972.0854	33636.589	4	11504.095-	45140.685	-1		.	.	3.5-	2.5				0.859	0.850	9				
	2972.1428	33635.939	3																		
2	2972.1771	33635.551	4	41133.945-	7498.364	-30		.	.	1.5-	2.5				1.210	1.321*	111				
2	2972.2164	33635.106	9	42273.350-	8638.233	-11		6.5-	5.5	6.5-	5.5	1.065	1.515	.450	1.065	1.514	449				
2	2972.2670	33634.534	7	33634.550-	0.000	-16		1.5-	0.5	1.5-	0.5			1.9*	1.230	3.150*	1920	39*			
	2972.3685	33633.335	3																		
	2972.4049	33632.973	3																		
	2972.4467	33632.500	3																		
2	2972.4995	33631.903	9	43339.890-	9707.980	-7		7.5-	6.5	7.5-	6.5	1.213	1.494	.281	1.213	1.485	272				
	2972.5424	33631.418	4																		
	2972.5638	33631.175	3																		
	2972.5814	33630.976	4																		
	2972.6304	33630.422	3																		
	2972.6837	33629.819	3																		
	2972.7281	33629.317	7																		
	2972.7702	33628.841	3											.44*							DJ1S12JD
	2972.7946	33628.564	3																		
	2972.8336	33628.123	3																		
	2972.8792	33627.608	3																		
	2972.9140	33627.214	3																		
	2972.9569	33626.729	5											.44*							DJO 2JDG
	2972.9884	33626.373	3																		
	2973.0640	33625.518	3																		
	2973.1287	33624.786	3																		
	2973.2391	33623.537	3																		FE Q
	2973.3079	33622.759	3																		
	2973.4189	33621.504	3																		
2	2973.4773	33620.844	9	35635.830-	2014.966	-20		2.5-	1.5	2.5-	1.5	1.14	1.88	.74	1.165	1.881	716				
	2973.5239	33620.317	4																		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	CBS J1	TERM J2 -	TERMI J1	OBS G2	OBS G1	OSS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	33619.906	9																		2973.5603	
2	33619.655	9	33619.660-		0.000	-5	0.5-	0.5	0.5-	0.5	.	.	1.62	1.470	3.150	1680		44	2973.5825		
	33618.002	3																		2973.7287	
2	33616.782	3	43995.265-10188.463		-20		.	.	1.5-	0.5	.	.		1.090	2.402	1312			2973.8366		
2	33616.488	3	42254.735- 8638.233		-14		.	.	5.5-	5.5	.	.		1.180	1.514	334		12*	2973.8626		
	33616.145	3																		2973.8929	
	33615.542	3																		2973.9463	
	33614.498	3																		2974.0387	
	33613.936	3																		2974.0840	
	33613.650	4																		2974.1137	
	33613.148	6																		2974.1581	DJ1 SO
	33612.514	3																		2974.2142	
2	33610.952	8	37530.805- 3969.846		-7		2.5-	2.5	2.5-	2.5	1.215	1.660	.445	1.215	1.670	455		-3*	2974.3524		
	33610.128	5																		2974.4254	
	33609.269	3																		2974.5014	
	33608.295	3																		2974.5876	
	33605.728	3																		2974.7210	
2	33606.573	6	45405.840-11799.241		-26		4.5-	5.5	4.5-	5.5	1.085	1.370	.285	1.090	1.373*	283			2974.7400	JQ	
2	33606.076	3	15778.634-49384.725		-15		.	.	1.5-	2.5	.	.		1.133	0.930*	203			2974.7840		
	33601.861	3																		2975.1572	
	33601.065	3																		2975.2277	
	33600.859	3																		2975.2459	
	33600.402	6											.31							2975.2864	DJ1
2	33599.753	4	39101.810- 5502.060		3		.	.	1.5-	1.5	.	.		0.980	1.169*	189		-29*	2975.3439		
2	33599.283	6	35614.250- 2014.966		-1		.	.	1.5-	1.5	.	.		1.560	1.881	321		-75	2975.3855		
2	33598.419	4	12992.644-46591.055		8		.	.	2.5-	3.5	.	.		0.643	1.100	457			2975.4620		
	33597.193	4																		2975.5706	
	33596.812	6																		2975.6043	
	33596.431	3																		2975.6381	
	33595.908	3																		2975.6844	
2	33595.095	7	40873.960- 7278.862		-3		5.5-	4.5	5.5-	4.5	1.080	1.545	.465	1.080	1.545	465			2975.7564		
2	33594.395	3	14561.607-48156.010		-8		.	.	1.5-	2.5	.	.		1.149	0.920	229			2975.8184		
	33593.557	3																		2975.8927	
	33591.646	3																		2976.0620	
	33591.253	3																		2976.0968	
	33590.031	3																		2976.2051	
	33587.635	3																		2976.4174	
	33587.376	3																		2976.4403	
	33585.712	3																		2976.5878	
	33585.124	4																		2976.6399	
2	33582.163	7	40861.025- 7278.862		0		3.5-	4.5	3.5-	4.5	1.110	1.550	.440	1.105	1.545	440			2976.9024		
1	33581.550	3	35785.250- 2203.606		-94		.	.	1.0-	1.0	.	.		0.530	1.495*	965			2976.9567		
2	33580.374	8	43288.355- 9707.930		-1		6.5-	6.5	6.5-	6.5	.	.	.340	1.150	1.485	335			2977.0610		
2	33579.708	5	10436.770-44016.500		-22		.	.	4.5-	4.5	.	.		0.724	1.050*	326			2977.1200		
	33578.706	3																		2977.2089	
2	33578.072	5	39080.135- 5502.060		-3		.	.	2.5-	1.5	.	.		1.255	1.169	86			2977.2651		
	33577.389	3																		2977.3257	
	33577.110	3																		2977.3504	
	33576.544	3																		2977.4006	
	33576.256	4																		2977.4261	
	33575.987	3																		2977.4500	
	33575.455	3																		2977.4972	
	33574.789	3																		2977.5562	
	33573.890	3																		2977.6360	
	33573.491	3																		2977.6713	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES		
	33573.161	3																				
2	33571.874	9	35536.850-	2014.966	-10	1.5-	1.5	1.5-	1.5	.	.	.	.735	1.160	1.881*	721			-75	2977.7006		
2	33571.182	7	39289.160-	5717.976	-2	.	.	2.5-	3.5	.	.	.		1.020	1.596	576				2977.8148		
	33570.972	6																			2977.8762	
	33569.910	7																			2977.8948	Q
2	33569.235	9	42207.525-	8638.233	-7	6.5-	5.5	6.5-	5.5	.	.	.	.368	1.140	1.514	374			-60	2977.9890		
	33568.899	3																			2978.0444	SO
	33568.424	3																			2978.0867	
2	33567.242	3	8709.640-	42276.885	-3	.	.	3.5-	4.5	.	.	.		0.308	1.120*	812				2978.1208		
	33567.012	3																			2978.2257	
	33566.707	4																			2978.2461	
	33565.875	4																			2978.2732	
2	33565.545	9	37535.410-	3969.846	-19*	.	.	2.5-	2.5	.	.	.		1.140	1.670	530				2978.3470		
2	33565.202	7	11504.095-	45069.320	-23	.	.	3.5-	2.5	.	.	.		0.859	0.730*	129				2978.3763		
	33564.668	3																			2978.4067	
2	33564.181	9	35579.170-	2014.966	-23	2.5-	1.5	2.5-	1.5	1.205	1.880	.675		1.190	1.881*	691			8*	2978.4541		
2	33563.824	4	41062.170-	7498.364	18	.	.	1.5-	2.5	.	.	.		1.425	1.321	104				2978.4973		
	33563.175	5																			2978.5290	
	33562.721	3																			2978.5866	
2	33562.276	9	40841.155-	7278.862	-17	5.5-	4.5	5.5-	4.5	1.105	.	.440		1.105	1.545	440				2978.6269		
	33561.655	3																			2978.6664	
	33560.457	3																			2978.7215	
2	33559.811	3	13013.685-	46573.500	-4	.	.	5.5-	5.5	.	.	.		0.950	1.025	75				2978.8278		
	33558.358	3																			2978.8852	
	33556.520	3																			2979.0142	
2	33555.742	3	13192.903-	46748.670	-25	.	.	2.5-	3.5	.	.	.		0.372	1.000*	628				2979.1773		
2	33554.718	5	40333.605-	7278.862	-25	4.5-	4.5	4.5-	4.5	.	.	.46		1.090	1.545*	455				2979.2464		
	33554.435	3																			2979.3373	DJO
	33554.012	3																			2979.3625	
	33553.398	4																			2979.4000	
	33553.071	3																			2979.4546	
2	33552.567	3	11504.095-	45056.650	12	.	.	3.5-	2.5	.	.	.		0.859	1.030	171				2979.4836		
2	33551.315	4	13013.685-	46565.005	-5	.	.	5.5-	4.5	.	.	.		0.950	1.040*	90				2979.5284		
	33551.048	3																			2979.6395	
	33549.358	3																			2979.6633	
	33548.798	3																			2979.8134	
	33548.287	3																			2979.8631	
2	33547.797	4	13192.903-	46740.710	-10	.	.	2.5-	1.5	.	.	.		0.372	0.930*	558				2979.9085		
	33547.382	3																			2979.9520	
	33547.211	5																			2979.9889	
	33546.500	3																			2980.0041	
	33546.125	5																			2980.0672	
	33545.672	3																			2980.1006	
	33545.338	4																			2980.1408	
	33545.113	4																			2980.1705	
2	33544.704	9	43252.700-	9707.980	-16	7.5-	6.5	7.5-	6.5	1.190	1.495	.305		1.190	1.485	295				2980.1905		
	33544.195	3																			2980.2268	
	33543.819	4																			2980.2720	
	33543.311	3																			2980.3054	
	33542.876	3																			2980.3506	
2	33542.280	0	16362.000-	49904.305	-25	.	.	4.5-	3.5	.	.	.		1.050	0.000*	0				2980.3892		
	33542.062	3																			2980.4422	
	33541.829	3																			2980.4616	
	33541.291	3																			2980.4823	
2	33540.704	4	39042.775-	5502.060	-11	1.5-	1.5	1.5-	1.5	1.03	1.17	.14		1.050	1.169	119				2980.5301		
																					2980.5822	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	33540.347	3																		2980.6140	
	33540.071	3																		2980.6385	
	33539.760	3																		2980.6661	
2	33539.277	6	14476.135	-	48015.425	-13	4.5-	3.5	4.5-	3.5	1.06	1.08	.02	1.060	1.080*	20			2980.7090		
	33538.752	3																		2980.7557	
	33538.144	3																		2980.8097	
	33537.697	3																		2980.8495	
	33537.319	3																		2980.8831	
	33536.980	3																		2980.9132	
	33535.816	3																		2981.0167	
	33535.554	3																		2981.0400	
	33535.240	3																		2981.0679	
	33534.971	3																		2981.0918	
	33534.592	3																		2981.1255	
	33534.102	4																		2981.1691	
2	33533.508	9	42775.870-		9242.356	-6	2.5-	3.5	2.5-	3.5	1.170	1.365	.195	1.180	1.369	189			2981.2219		
	33533.272	4																		2981.2428	
	33533.044	3																		2981.2631	
	33532.792	3																		2981.2855	
2	33532.062	7	39250.070-		5717.976	-32	.	.	4.5-	3.5				1.155	1.596	441			2981.3504		
2	33531.752	9	41030.115-		7498.364	1	3.5-	2.5	3.5-	2.5	1.10	1.32	.22	1.100	1.321*	221			2981.3780		
	33531.234	3																		2981.4241	
2	33530.836	8	35545.800-		2014.966	2	0.5-	1.5	0.5-	1.5	.91	1.88	.91	0.961	1.881	920		-194	2981.4594		
	33530.364	3																		2981.5014	
	33529.972	3																		2981.5363	
	33529.754	3																		2981.5557	
2	33529.433	3	14561.607-		48091.025	15	.	.	1.5-	2.5				1.149	1.100	49			2981.5842		
	33527.879	4																		2981.7224	
	33527.554	3																		2981.7513	
	33525.981	3																		2981.8912	
	33525.660	4																		2981.9198	
	33525.337	4																		2981.9485	
	33524.743	3																		2982.0013	
	33524.395	3																		2982.0323	
	33524.130	3																		2982.0559	
	33523.810	3																		2982.0843	
	33523.557	3																		2982.1068	
	33523.181	3																		2982.1403	
	33522.893	3																		2982.1659	
2	33522.285	6	43230.265-		9707.980	0	6.5-	6.5	6.5-	6.5	1.075	1.485	.410	1.075	1.485	410			2982.2200		
2	33520.663	3	15657.156-		49177.890	-71	.	.	2.5-	3.5				1.000	1.040*	40			2982.3643		
	33520.194	3																		2982.4060	
	33519.647	5																		2982.4547	
	33518.555	3																		2982.5519	
	33518.023	3																		2982.5992	
	33517.642	3																		2982.6331	
	33517.229	3																		2982.6699	
	33516.875	3																		2982.7014	
	33516.543	3																		2982.7305	
	33516.247	3																		2982.7573	
	33515.655	5									.74		.63							2982.8100	f S02J06
	33515.160	3																		2982.8540	
	33514.617	3																		2982.9023	
	33514.255	3																		2982.9347	
	33513.810	3																		2982.9742	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33513.467	3																	2983.0047	
	33513.093	3																	2983.0380	
	33512.797	3																	2983.0643	
	33512.573	3																	2983.0843	
	33512.186	3																	2983.1187	
1	33511.668	4	6313.866-39825.550	-16			4.0-	4.0	4.0-	4.0			.54	0.487	1.030	543		-239	2983.1648	
	33511.180	3																	2983.2083	
	33510.204	3																	2983.2418	
	33510.140	3																	2983.3009	
	33509.463	4																	2983.3612	
	33508.915	3																	2983.4099	
	33503.500	3																	2983.4398	
	33508.326	3																	2983.4624	
	33508.075	3																	2983.4847	
	33507.840	3																	2983.5057	
	33507.455	3																	2983.5399	
	33507.050	4																	2983.5760	FE Q
	33506.468	3																	2983.6278	
	33505.636	3																	2983.7019	
	33505.372	3																	2983.7254	
	33504.404	3																	2983.8116	
	33504.161	3																	2983.8333	
	33503.808	3																	2983.8647	
	33503.545	3																	2983.8882	
	33503.173	3																	2983.9213	
	33502.844	3																	2983.9506	
	33502.362	3																	2983.9935	
	33502.152	3																	2984.0122	
	33501.887	3																	2984.0358	
2	33501.147	9	42139.380- 8638.233	0			6.5-	5.5	6.5-	5.5	1.155	1.520	.365	1.150	1.514	364			2984.1017	
	33500.429	3																	2984.1657	
	33499.964	3																	2984.2071	
	33499.487	3																	2984.2496	
	33498.903	3																	2984.3017	
	33498.416	4																	2984.3450	
	33497.647	3																	2984.4136	
	33496.995	4																	2984.4716	
	33496.506	3																	2984.5152	
	33496.021	3																	2984.5584	
2	33495.543	3	43203.480- 9707.980	43			-	-	5.5-	6.5				1.120	1.485	365			2984.6010	
2	33495.319	5	45294.560-11799.241	0			5.5-	5.5	5.5-	5.5	1.09	1.37	.28	1.090	1.373*	283			2984.6210	
2	33493.492	6	43681.995-10188.463	-40			1.5-	0.5	1.5-	0.5	1.055	2.40	1345	1.065	2.402	1337			2984.7838	
	33493.025	3																	2984.8254	
2	33491.586	8	42733.945- 9242.356	-3			4.5-	3.5	4.5-	3.5			.28	1.090	1.369	279			2984.9537	SOQ
2	33491.065	5	38993.130- 5502.060	-5			-	-	2.5-	1.5			.15	1.025	1.169	144			2985.0001	SO
	33490.429	3																	2985.0568	
	33489.925	3																	2985.1017	
	33489.647	3																	2985.1265	
2	33487.480	6	42125.715- 8638.233	-2			5.5-	5.5	5.5-	5.5	1.165	1.515	.350	1.165	1.514	349			2985.3197	
	33486.687	4																	2985.3904	ZR Q
	33484.298	3																	2985.6034	
	33483.666	3																	2985.6597	
	33483.268	3																	2985.6952	
	33483.008	3																	2985.7184	
	33482.515	3																	2985.7624	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM	TERM	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33481.650	3																	2985.8395	
	33479.793	3																	2986.0051	
2	33479.461	6	45278.700	-	11799.241	2	4.5-	5.5	4.5-	5.5	1.090	1.373	.283	1.090	1.373	283		2986.0348		
2	33478.779	3	48967.305	-	15483.530	4	.	.	3.5-	3.5				1.090	1.057	33		2986.0956		
	33478.504	4																	2986.1201	
	33478.152	3																	2986.1515	
	33477.747	3																	2986.1876	
	33477.346	3																	2986.2234	
	33476.861	3																	2986.2667	
	33476.405	3																	2986.3074	
	33475.455	3																	2986.3921	
	33474.803	3																	2986.4503	
2	33474.442	4	44200.775	-	10726.322	-11	.	.	5.5-	4.5				1.100	1.391	291		2986.4825		
	33473.904	3																	2986.5233	
	33472.482	3																	2986.6574	
	33470.433	3																	2986.8402	
	33470.046	3																	2986.8748	
	33469.709	7																	2986.9048	
2	33469.246	9	39187.220	-	5717.976	2	2.5-	3.5	2.5-	3.5	1.17	1.59	.425	1.170	1.596*	426		2986.9461		
	33468.559	3																	2987.0075	
2	33467.675	9	44193.995	-	10726.322	2	3.5-	4.5	3.5-	4.5	1.19	.	.20	1.215	1.391	176		2987.0864	f SI2JDG	
	33464.988	6									1.27	.	.23						2987.3262	
	33464.638	3																	2987.3575	
2	33464.279	3	16593.963	-	50058.235	7	.	.	2.5-	3.5				0.983	1.000*	17		2987.3895		
	33463.567	3																	2987.4531	
	33463.381	3																	2987.4697	
	33463.104	3																	2987.4944	
1	33462.027	3	6313.866	-	39775.870	23	.	.	4.0-	4.0				0.487	0.985	498	-201	2987.5906		
	33461.126	3																	2987.6710	
	33460.175	3																	2987.7559	
	33459.620	5					5.5-	5.5					3.03						2987.8055	DJ0JQ2JD
	33459.297	3																	2987.8343	
	33459.093	3																	2987.8526	
	33457.326	3																	2988.0104	
2	33456.468	8	37426.335	-	3969.846	-21	3.5-	2.5	3.5-	2.5			.53	1.149	1.670	521		2988.0870	SD	
	33455.995	3																	2988.1292	
	33455.618	3																	2988.1629	
2	33455.110	9	43163.110	-	9707.980	-20	7.5-	6.5	7.5-	6.5	1.178	1.485	.307	1.180	1.485	305		2988.2083		
	33454.624	3																	2988.2517	
	33454.507	4																	2988.2622	
	33454.053	3																	2988.3027	
	33453.685	3																	2988.3356	
2	33452.797	3	40951.155	-	7498.364	6	.	.	2.5-	2.5				1.015	1.321	306		2988.4149		
	33451.952	3																	2988.4904	
	33451.663	3																	2988.5162	
1	33450.801	3	37750.470	-	4299.659	-10	.	.	2.0-	2.0				0.980	1.482*	502	-84*	2988.5932		
	33450.408	3																	2988.6212	
	33448.917	6					2.5-	3.5					.29*						2988.7616	JQ
	33447.341	4																	2988.9024	
2	33445.933	7	38948.000	-	5502.660	-7	2.5-	1.5	2.5-	1.5	1.09	1.17	.08	1.090	1.169	79		2989.0282		
	33445.547	3																	2989.0627	
	33445.338	3																	2989.0814	
	33445.056	3																	2989.1066	
	33444.767	4																	2989.1325	
	33443.503	3																	2989.2454	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TER:1 J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	33442.748	3																	2989.3129	
	33441.640	3																	2989.4120	
	33440.396	3																	2989.4695	
	33440.791	3																	2989.4879	
	33440.028	4																	2989.5561	
2	33438.211	3	13809.910	-	47248.155	-34	.	.	4.5-	5.5	.	.	.	0.657	1.030	373	.	.	2989.7185	
	33438.092	3																	2989.7292	
2	33437.145	7	40716.010	-	7278.862	-3	3.5-	4.5	3.5-	4.5	1.095	1.545	.450	1.100	1.545*	445	.	.	2989.8139	
	33436.754	3																	2989.8488	
	33435.916	3																	2989.9238	
	33435.656	3																	2989.9470	
	33435.405	4																	2989.9695	
	33434.829	3																	2990.0210	
2	33434.257	5	39152.255	-	5717.976	-22	4.5-	3.5	4.5-	3.5	1.186	1.596	.410	1.187	1.596	409	.	.	2990.0721	
	33433.634	3																	2990.1234	
	33433.016	4																	2990.1831	
	33432.045	3																	2990.2700	
	33431.889	3																	2990.2839	
2	33431.038	3	12048.548	-	45479.584	2	.	.	1.5-	2.5	.	.	.	-0.054	0.895	949	.	.	2990.3600	
	33429.384	3																	2990.5080	
	33428.532	3																	2990.5842	
	33428.117	3																	2990.6214	
	33427.876	3																	2990.6429	
2	33427.355	3	36663.170	-	3235.770	-35	.	.	1.5-	0.5	.	.	.	1.635	0.299	1336	.	.	2990.6886	CQ
	33425.318	3																	2990.8718	
	33424.991	3																	2990.9011	
	33424.290	3																	2990.9638	
	33423.807	3																	2991.0070	
	33423.388	5																	2991.0445	
2	33423.086	7	42061.340	-	8638.233	-21	4.5-	5.5	4.5-	5.5	.	.	.320	1.175	1.514	339	.	.	2991.0715	SI
	33422.304	3																	2991.1415	
	33421.860	3																	2991.1813	
	33421.591	3																	2991.2053	
	33421.346	3																	2991.2273	
	33421.057	5																	2991.2531	
	33420.875	4																	2991.2694	
2	33420.423	9	35435.415	-	2014.966	-26	2.5-	1.5	2.5-	1.5	.935	1.880	.945	0.937	1.881	944	.	.	2991.3099	
	33419.908	3																	2991.3560	
	33419.629	3																	2991.3810	
	33419.478	3																	2991.3945	
	33419.193	4																	2991.4200	
	33418.709	3																	2991.4633	
	33418.277	3																	2991.5020	
	33417.892	3																	2991.5364	
	33417.557	3																	2991.5664	
2	33417.100	8	35432.095	-	2014.966	-29	1.5-	1.5	1.5-	1.5	1.190	1.880	.690	1.190	1.881	691	.	.	2991.6074	
2	33416.947	8	43124.930	-	9707.980	-3	7.5-	6.5	7.5-	6.5	1.105	1.485	.380	1.105	1.485	380	.	.	2991.6211	
1	33416.313	5	6313.866	-	39730.200	-21	.	.	4.0-	4.0	.	.	.	0.487	1.025	538	.	.	2991.6778	DJO
	33415.996	3																	2991.7062	
	33415.807	3																	2991.7231	
	33415.516	3																	2991.7492	
	33414.535	3																	2991.8370	
1	33413.231	3	35616.875	-	2203.606	12	.	.	1.0-	1.0	.	.	.	1.000	1.495*	495	.	.	2991.9493	
	33412.308	3																	2992.0364	
	33410.623	3																	2992.1873	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVE	LENGTH	NOTES	
		33410.204	3																				
2		33408.654	3	8709.640-42118.305		-11	.	.	.	3.5-	4.5	.	.	.	0.308	1.040	732						2992.2249
		33407.329	4																				2992.3637
2		33406.322	7	8198.666-41605.005		-17	2.5-	2.5	2.5-	2.5		.41	.95	.538	0.414	0.935	521						2992.4824
		33405.951	3																				2992.5726
2		33405.525	9	43113.500- 9707.980		5	6.5-	6.5	6.5-	6.5		1.13	1.48	.35	1.130	1.485	355						2992.6058
		33405.254	4																				2992.6440
		33404.532	4																				2992.6683
		33402.398	3																				2992.7330
		33399.677	3																				2992.9242
		33399.188	3																				2993.1680
		33398.884	4																				2993.2118
		33398.527	3																				2993.2391
2		33398.113	3	13192.903-46591.055		-39	.	.	.	2.5-	3.5	.	.	.	0.372	1.100	728						2993.2711
		33397.489	3																				2993.3082
		33396.813	3																				2993.3641
		33395.948	3																				2993.4247
1		33395.586	3	6313.866-39709.460		-8*	.	.	.	4.0-	5.0	.	.	.	0.487	1.070	583						2993.5022
		33394.848	3																				2993.5347
		33394.497	3																				2993.6008
		33393.210	3																				2993.6323
		33392.901	3																				2993.7477
2		33392.414	5	37362.265- 3969.846		-5	1.5-	2.5	1.5-	2.5		.	.	.45	1.215	1.670	455						2993.7754
		33391.918	4																				2993.8191
2		33391.416	3	14295.565-47687.019		-38	.	.	.	3.5-	2.5	.	.	.	0.790	0.000*	0						2993.8635
2		33391.087	3	16362.000-49753.063		24	.	.	.	4.5-	3.5	.	.	.	1.050	1.000*	50						2993.9085
		33390.887	3																				2993.9380
		33390.493	3																				2993.9560
		33390.325	4																				2993.9913
2		33389.889	9	33389.920- 0.000		-31	1.5-	0.5	1.5-	0.5		.92	3.13	2.21	0.943	3.150	2207						2994.0064
		33389.273	3																				2994.0455
		33389.125	4																				2994.1007
		33388.954	3																				2994.1140
		33388.775	3																				2994.1293
		33388.591	3																				2994.1454
		33388.342	3																				2994.1619
2		33387.890	6	42630.250- 9242.356		-4	2.5-	3.5	2.5-	3.5		1.16	1.38	.22	1.150	1.369*	219						2994.1842
		33387.597	4																				2994.2247
		33387.269	3																				2994.2510
2		33386.732	6	45185.970-11799.241		3	.	.	.	6.5-	5.5	.	.	.	1.040	1.373	333						2994.2804
		33385.611	4																				2994.3286
		33385.272	3																				2994.4291
2		33384.777	5	40663.645- 7278.862		-6	5.5-	4.5	5.5-	4.5		.	.	.40	1.145	1.545	400						2994.4595
		33384.057	3																				2994.5039
		33383.531	3																				2994.5685
		33382.778	4																				2994.6157
		33382.350	3																				2994.6833
		33381.738	4																				2994.7217
		33381.488	3																				2994.7766
		33380.997	3																				2994.7990
		33380.638	3																				2994.8430
2		33380.436	3	16362.000-49742.440		-4	.	.	.	4.5-	3.5	.	.	.	1.050	0.975*	75						2994.8753
2		33379.952	9	40658.815- 7278.862		-1	3.5-	4.5	3.5-	4.5		1.155	1.545	.390	1.170	1.545*	375						2994.8934
		33379.356	3																				2994.9368
2		33378.641	9	38880.705- 5502.060		-4	0.5-	1.5	0.5-	1.5		1.045	1.167	.122	1.050	1.169*	119						2994.9903
																							2995.0544

FE Q

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	33377.823	3																		2995.1278	
	33377.519	3																		2995.1551	
	33376.930	3																		2995.2080	
	33376.378	4																		2995.2575	
	33375.425	3																		2995.3431	
1	33375.086	5	6313.866	-	39688.930	-28	4.0-	4.0	4.0-	4.0			.492	0.487	0.980*	493			2995.3735		
2	33374.614	9	39092.590	-	5717.976	0	3.5-	3.5	3.5-	3.5	1.200	1.595	.395	1.180	1.596	416			2995.4158		
	33374.002	3																		2995.4708	
	33373.274	4																		2995.5361	
	33372.835	3																		2995.5755	
	33371.755	5					5.5-	5.5					.205							2995.6725	
	33370.330	3																		2995.8004	
2	33369.595	3	43558.060	-	10188.463	-2	.	.	0.5-	0.5				1.580	2.402*	822			2995.8664		
	33368.829	3																		2995.9352	
	33368.138	4																		2995.9972	
	33367.427	3																		2996.0611	
2	33366.802	7	37336.640	-	3969.846	8	2.5-	2.5	2.5-	2.5			.465	1.207	1.670	463			2996.1172		
	33365.855	3																		2996.2022	
	33365.027	4																		2996.2766	
2	33364.804	3	42607.125	-	9242.356	35	.	.	4.5-	3.5				1.130	1.369	239			2996.2966		
	33364.463	3																		2996.3272	
2	33363.580	9	39081.580	-	5717.976	-24	4.5-	3.5	4.5-	3.5			.380	1.207	1.596	389	-69		2996.4065		
	33363.080	4																		2996.4514	
2	33362.733	7	12992.644	-	46355.430	-53	.	.	2.5-	3.5				0.643	0.950	307			2996.4826	C2	
2	33362.733	7	40861.025	-	7498.364	72	.	.	3.5-	2.5				1.105	1.321	216			2996.4826	C2	
2	33362.157	5	39080.135	-	5717.976	-2	.	.	2.5-	3.5				1.255	1.596	341			2996.5343		
	33361.751	3																		2996.5708	
	33361.494	3																		2996.5939	
	33360.790	4																		2996.6571	
2	33360.223	6	40639.100	-	7278.862	-15	4.5-	4.5	4.5-	4.5			.255	1.310	1.545	235			2996.7081		
	33359.542	3																		2996.7692	
	33358.988	3																		2996.8190	
	33358.704	4																		2996.8445	
	33357.786	3																		2996.9270	
	33356.392	3																		2997.0523	
2	33355.497	6	40853.860	-	7498.364	1	2.5-	2.5	2.5-	2.5	1.16	1.32	.16	1.160	1.321*	161			2997.1327		
	33355.173	3																		2997.1618	
	33354.801	3																		2997.1952	
	33354.169	4																		2997.2520	
	33353.704	3																		2997.2938	
	33352.971	3																		2997.3597	
2	33352.654	3	42595.005	-	9242.356	5	.	.	4.5-	3.5				1.115	1.369	254			2997.3882		
	33351.882	3																		2997.4575	
	33351.430	3																		2997.4982	
	33350.929	3																		2997.5432	
	33350.653	5					4.5-	4.5					2.55							2997.5680	DJ0JQ2JD
	33349.653	3																		2997.6574	
2	33348.977	3	11504.095	-	44853.015	57	.	.	3.5-	2.5				0.859	0.920*	61			2997.7187		
	33348.552	3																		2997.7569	
	33348.216	4																		2997.7871	
	33347.825	3																		2997.8222	
	33346.518	3																		2997.9397	
	33345.057	7					4.5-	5.5					.275							2998.0711	S00
2	33344.305	6	43052.285	-	9707.980	0	.	.	5.5-	6.5				1.150	1.485	335			2998.1387		
	33343.684	3																		2998.1945	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
2	33343.	247	3	13309.910-47153.090			67	.	.	4.5-	5.5	.	.	.	0.657	1.040*	383			2998.2338	CQ	
2	33342.784	9	9	38344.845- 5502.060			-1	2.5-	1.5	2.5-	1.5	.	.	.17	1.340	1.169	171			2998.2755	SI	
	33342.015	5						.	.	.	.	.	.	.							2998.3446	
	33341.477	3						.	.	.	.	.	.	.							2998.3930	
2	33340.605	9	9	43529.065-10188.463			3	1.5-	0.5	1.5-	0.5	1.04	2.40	136	1.040	2.402*	1362			2998.4714		
2	33339.854	9	9	39057.820- 5717.976			10	4.5-	3.5	4.5-	3.5	.	.	.42	1.156	1.596	440		160	2998.5390		
	33339.398	3						.	.	.	.	.	.	.							2998.5800	
2	33339.131	3	3	39057.100- 5717.976			7	.	.	3.5-	3.5	.	.	.	1.220	1.596	376			2998.6040		
	33338.618	3						.	.	.	.	.	.	.							2998.6502	
	33336.452	4						.	.	.	.	.	.	.							2998.8450	
	33336.115	4						.	.	.	.	.	.	.							2998.8753	
	33335.794	3						.	.	.	.	.	.	.							2998.9042	
2	33334.450	3	3	14476.135-47810.565			20	.	.	4.5-	3.5	.	.	.	1.060	1.160	100			2999.0251		
	33333.361	3						.	.	.	.	.	.	.							2999.1231	
2	33332.549	3	3	11504.095-44836.670			-26	.	.	3.5-	4.5	.	.	.	0.859	1.085	226			2999.1962		
2	33332.115	3	3	13013.685-46345.820			-20	.	.	5.5-	4.5	.	.	.	0.950	1.030	80			2999.2352		
	33331.857	3						.	.	.	.	.	.	.							2999.2584	
	33331.543	4						.	.	.	.	.	.	.							2999.2867	
	33331.023	3						.	.	.	.	.	.	.							2999.3335	
	33329.239	4						.	.	.	.	.	.	.							2999.4940	
	33328.495	3						.	.	.	.	.	.	.							2999.5610	
	33327.993	3						.	.	.	.	.	.	.							2999.6062	
	33327.487	3						.	.	.	.	.	.	.							2999.6517	
	33326.569	3						.	.	.	.	.	.	.							2999.7343	
	33326.255	3						.	.	.	.	.	.	.							2999.7626	
	33325.033	3						.	.	.	.	.	.	.							2999.8726	
2	33324.471	3	3	15778.634-49103.065			40	.	.	1.5-	2.5	.	.	.	1.133	0.955	178			2999.9232		
	33324.072	3						.	.	.	.	.	.	.							2999.9591	
	33323.316	4						.	.	.	.	.	.	.							3000.0272	
2	33322.439	9	9	43030.420- 9707.980			-1	6.5-	6.5	6.5-	6.5	1.135	1.480	.345	1.110	1.485	375			3000.1061		
	33322.017	4						.	.	.	.	.	.	.							3000.1441	
	33321.586	3						.	.	.	.	.	.	.							3000.1830	
	33321.360	3						.	.	.	.	.	.	.							3000.2033	
	33321.075	3						.	.	.	.	.	.	.							3000.2290	
	33320.824	3						.	.	.	.	.	.	.							3000.2516	
	33320.512	3						.	.	.	.	.	.	.							3000.2797	
2	33320.056	9	9	8709.640-42029.735			-39	3.5-	3.5	3.5-	3.5	.	.	.39	0.308	0.695	387			3000.3207		
	33319.583	3						.	.	.	.	.	.	.							3000.3629	
	33319.036	3						.	.	.	.	.	.	.							3000.4126	
	33318.735	3						.	.	.	.	.	.	.							3000.4397	
	33318.353	3						.	.	.	.	.	.	.							3000.4741	
	33317.797	7						.	.	.	.	.	.	.							3000.5242	
2	33317.270	9	9	35332.255- 2014.966			-19	2.5-	1.5	2.5-	1.5	1.255	1.880	.63	1.263	1.881	618		-71	3000.5716		
	33316.437	4						.	.	.	.	.	.	.							3000.6466	
	33316.107	3						.	.	.	.	.	.	.							3000.6764	
	33315.894	3						.	.	.	.	.	.	.							3000.6956	
	33315.607	3						.	.	.	.	.	.	.							3000.7214	
	33315.035	3						.	.	.	.	.	.	.							3000.7729	
	33313.973	3						.	.	.	.	.	.	.							3000.8686	
	33313.546	3						.	.	.	.	.	.	.							3000.9071	
	33313.055	4						.	.	.	.	.	.	.							3000.9513	FE Q
	33312.662	4						.	.	.	.	.	.	.							3000.9867	
2	33310.418	4	4	16593.963-49904.305			76	.	.	2.5-	3.5	.	.	.	0.983	0.000*	0			3001.1889	CQ	
	33308.230	3						.	.	.	.	.	.	.							3001.3860	
	33308.023	3						.	.	.	.	.	.	.							3001.4047	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	33306.997	3																3001.4971	
	33306.159	3																3001.5727	
1	33305.651	4	6313.866-39619.530	-13*		4.0-	4.0	4.0-	4.0			.630	0.487	1.115	628			3001.6184	
	33304.105	4																3001.7578	
	33302.096	7				4.5-	5.5			1.125	1.370	.245						3001.9389	SI
	33301.678	3																3001.9766	
	33301.038	3																3002.0343	
	33299.834	3																3002.1428	
	33298.517	3																3002.2615	
	33297.345	3																3002.3672	
	33297.064	3																3002.3926	
	33295.733	4																3002.5126	NI Q
	33294.816	3																3002.5953	
	33294.536	3																3002.6160	
	33294.302	3																3002.6416	
	33293.971	3																3002.6715	
	33292.073	4								1.11								3002.8427	f
	33291.767	4																3002.8703	
	33290.485	3																3002.9859	
	33289.325	3																3003.0906	
	33287.892	3																3003.2199	
2	33287.506	3	45086.735-11799.241	12		.	.	5.5-	5.5				1.120	1.373*	253			3003.2547	
	33287.131	3																3003.2885	
	33286.762	3																3003.3218	
	33286.379	3																3003.3564	
	33285.285	3																3003.4551	
	33284.466	3																3003.5290	
	33283.938	3																3003.5767	
2	33282.699	4	41920.925- 8638.233	7		.	.	5.5-	5.5				1.120	1.514	394			3003.6885	
	33282.367	3																3003.7184	
	33281.676	5																3003.7808	
1	33280.803	5	6313.866-39594.680	-11*		4.0-	4.0	4.0-	4.0			.584	0.487	1.070	583		-110	3003.8596	
	33280.260	3																3003.9086	
	33279.657	3																3003.9630	
	33278.747	3																3004.0452	
	33278.241	3																3004.0909	
	33277.317	3																3004.1743	
2	33275.121	3	38993.130- 5717.976	-33		.	.	2.5-	3.5				1.025	1.596	571			3004.3726	
2	33274.645	4	10436.770-43711.415	0		.	.	4.5-	3.5				0.724	0.955	231			3004.4155	
	33273.892	5																3004.4835	
	33273.226	3																3004.5437	
	33273.047	3																3004.5598	
	33272.414	3																3004.6170	
2	33272.033	4	38774.085- 5502.060	8		.	.	2.5-	1.5				1.170	1.169*	1			3004.6514	
	33271.420	3																3004.7068	
	33270.963	3																3004.7480	
2	33270.375	9	37240.235- 3969.846	-14		3.5-	2.5	3.5-	2.5	1.250	1.680	.430	1.240	1.670	430		-69*	3004.8011	
	33269.591	3																3004.8720	
	33269.104	3																3004.9159	
	33267.998	3																3005.0158	
2	33263.370	5	43989.695-10726.322	-3		3.5-	4.5	3.5-	4.5	1.11	1.39	.28	1.110	1.391*	281			3005.4340	
	33263.149	3																3005.4539	
2	33262.728	4	37232.550- 3969.846	24		.	.	2.5-	2.5				0.985	1.670	685			3005.4920	
	33262.393	3																3005.5222	
2	33261.626	3	8198.666-41460.320	-28		.	.	2.5-	3.5				0.414	0.980*	566			3005.5915	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
		33260.176	3																		3005.7226	
		33259.375	3																		3005.7950	
		33259.165	4																		3005.8140	
2		33258.981	3	36494.740-		3235.770	11	.	.	1.5-	0.5				1.470	0.299	1171			3005.8306		
2		33258.291	7	35273.260-		2014.966	-3	1.5-	1.5	1.5-	1.5	.865	1.880	1015	0.865	1.881	1016			3005.8929		
		33257.734	3																		3005.9433	
		33256.579	4																		3006.0477	
		33254.160	6					4.5-	5.5			1.05	1.37	.325						3006.2664	SI	
		33253.671	3																		3006.3106	
		33253.250	3																		3006.3486	
		33253.034	3																		3006.3682	
2		33252.462	5	45051.680-		11799.241	23	.	.	6.5-	5.5			.29	1.090	1.373*	283			3006.4199		
		33251.872	3																		3006.4732	
		33251.549	3																		3006.5024	
		33250.520	3																		3006.5955	
		33249.807	3																		3006.6600	
		33249.358	4																		3006.7006	
		33246.820	4																		3006.9301	
		33246.454	3																		3006.9632	
		33246.185	3																		3006.9875	
		33245.873	4																		3007.0158	
		33244.258	3																		3007.1618	
2		33242.679	9	37212.525-		3969.846	0	2.5-	2.5	2.5-	2.5	.970	1.680	.710	0.960	1.670*	710			3007.3047		
		33241.711	8											1.20							3007.3923	SO2JDG*
		33241.211	4																		3007.4375	
		33240.700	3																		3007.4837	
		33239.955	3																		3007.5511	
		33239.157	5																		3007.6233	
		33238.634	5																		3007.6707	
		33238.178	4																		3007.7119	
2		33237.819	5	38955.805-		5717.976	-10	.	.	3.5-	3.5				1.165	1.596	431			3007.7444		
		33237.537	3																		3007.7699	
		33235.773	3																		3007.9296	
		33235.484	3																		3007.9557	
		33234.874	3																		3008.0110	
		33234.268	3																		3008.0658	
		33233.983	3																		3008.0912	
		33233.692	5																		3008.1179	
		33233.335	3																		3008.1503	FE Q
2		33233.050	6	42475.410-		9242.356	-4	.	.	4.5-	3.5				1.140	1.369	229			3008.1761		
		33232.372	4																		3008.2374	
		33231.758	3																		3008.2930	
		33231.322	3																		3008.3325	
		33230.661	3																		3008.3923	
2		33230.026	9	38948.000-		5717.976	2	2.5-	3.5	2.5-	3.5	1.090	1.590	.500	1.090	1.596	506			3008.4498		
		33229.541	3																		3008.4937	
		33229.252	3																		3008.5199	
		33228.951	4																		3008.5472	
		33228.806	3																		3008.5603	
		33228.450	4																		3008.5925	
		33228.182	4																		3008.6168	
		33227.536	3																		3008.6753	
		33226.527	3																		3008.7666	
		33225.877	3																		3008.8255	
		33225.520	3																		3008.8578	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS				
	33225.257	3																	3008.8817		
	33224.843	3																	3008.9192		
2	33224.331	7	40503.160-	7278.862	33		.	.	5.5-	4.5				1.110	1.545*	435			3008.9655	CQ	
2	33223.858	9	41262.090-	8638.233	1		6.5-	5.5	6.5-	5.5	1.145	1.520	.375	1.145	1.514	369		53*	3009.0084		
	33223.118	7																		3009.0754	
2	33222.828	7	38724.885-	5502.060	3		.	.	2.5-	1.5				1.140	1.169	29			3009.1017		
	33222.438	3																		3009.1370	SN Q
1	33221.866	4	37521.550-	4299.659	-25		.	.	3.0-	2.0				1.315	1.482	167			3009.1888		
2	33221.071	9	36456.850-	3235.770	-9		1.5-	0.5	1.5-	0.5	1.330	.300	1000	1.325	0.299	1026			3009.2608		
	33220.816	5																		3009.2839	
2	33219.743	4	11504.095-	44723.835	3		.	.	3.5-	2.5				0.859	0.810*	49			3009.3811		
	33218.894	3																		3009.4580	
	33218.541	3																		3009.4900	
	33218.155	3																		3009.5250	
2	33217.664	9	40716.010-	7498.364	18		3.5-	2.5	3.5-	2.5	1.090	1.315	.225	1.100	1.321*	221			3009.5695		
	33217.332	4																		3009.5950	
	33216.816	4																		3009.6463	
	33215.226	4																		3009.7904	
	33214.937	4																		3009.8166	
1	33212.978	4	9386.801-	42599.780	-1		.	.	5.0-	6.0				0.801	1.140*	339		-253	3009.9941		
2	33212.472	6	45011.730-	11759.241	-17		4.5-	5.5	4.5-	5.5			.34	1.055	1.373	318			3010.0400		
2	33212.349	6	40491.205-	7278.862	6		.	.	4.5-	4.5			.40*	1.155	1.545	390			3010.0511		
	33211.969	3																		3010.0856	
	33210.985	3																		3010.1747	
2	33210.611	4	38712.675-	5502.060	-4		.	.	0.5-	1.5				1.313	1.169	144			3010.2086		
	33210.132	3																		3010.2521	
	33209.388	3																		3010.3195	
	33208.914	4																		3010.3625	
2	33206.741	4	12992.644-	46199.395	-10		.	.	2.5-	3.5				0.643	0.955	312			3010.5595		
2	33206.277	4	10436.770-	43643.060	-13		.	.	4.5-	3.5				0.724	0.990*	266			3010.6015		
	33205.959	3																		3010.6304	
	33205.146	3																		3010.7041	
	33203.595	3																		3010.8447	
	33203.248	4																		3010.8762	
	33202.970	3																		3010.9014	
	33202.571	4																		3010.9376	
2	33201.817	8	11504.095-	44705.905	7		3.5-	3.5	3.5-	3.5			.117	0.859	0.950*	91			3011.0060		
2	33200.044	3	12992.644-	46192.700	-12		.	.	2.5-	3.5				0.643	0.950	307			3011.1668		
	33198.996	3																		3011.2618	
	33198.664	3																		3011.2920	
2	33197.802	7	35212.780-	2014.966	-12		2.5-	1.5	2.5-	1.5	1.100	1.880	.780	1.108	1.881	773			3011.3701		
	33195.660	3																		3011.5645	
1	33195.036	5	6313.866-	39508.910	-8		4.0-	3.0	4.0-	3.0	.485	.870	.385	0.487	0.870	383			3011.6211		
2	33193.834	4	13809.910-	47003.820	-26		.	.	4.5-	3.5				0.657	0.935	278			3011.7256		
	33193.629	6																		3011.7487	ZR Q
	33193.218	3																		3011.7860	
2	33192.514	8	44991.755-	11759.241	0		.	.	6.5-	5.5				1.145	1.373	228			3011.8499		
	33191.409	3																		3011.9502	
	33191.051	3																		3011.9827	
2	33190.196	8	42898.175-	9707.980	1		6.5-	6.5	6.5-	6.5	1.095	1.490	.395	1.095	1.485	390			3012.0603		
	33189.958	4																		3012.0819	
	33189.358	3																		3012.1363	
	33188.978	4																		3012.1708	
	33188.683	5																		3012.1976	
	33187.652	3																		3012.2912	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	OG	G2	G1			OG	IS	IS
	33187.071	3																	3012.3439	
2	33185.898	5	14295.565	-	47481.485	-22	.	.	3.5-	3.5	.	.	.	0.790	1.000	210			3012.4504	
2	33185.113	4	38903.090	-	5717.976	-1	.	.	4.5-	3.5	.	.	.	1.135	1.596	461			3012.5217	
	33124.399	4																	3012.5865	
	33183.773	3																	3012.6433	
	33183.192	3																	3012.6961	
2	33181.419	9	41819.660	-	8638.233	-8	4.5-	5.5	4.5-	5.5	1.155	1.520	.365	1.150	1.514	364			3012.8570	
	33180.893	6									1.075	1.075							3012.9048	
	33179.133	3																	3013.0646	
	33177.696	4																	3013.1951	
	33177.122	4																	3013.2473	
	33176.394	3																	3013.3134	
	33175.971	3																	3013.3518	
	33175.557	6																	3013.3894	
	33175.021	4																	3013.4381	
2	33174.712	9	38892.715	-	5717.976	-27	3.5-	3.5	3.5-	3.5	.	.	.430	1.165	1.596	431			3013.4662	2LNS
2	33174.712	9	37144.560	-	3969.846	-2	3.5-	2.5	3.5-	2.5	1.22	1.66	.440	1.220	1.670	450			3013.4662	2LNS
	33174.361	3																	3013.4981	
	33174.131	4																	3013.5190	
	33173.260	3																	3013.5981	
	33172.299	3																	3013.6854	
	33172.009	3																	3013.7117	
2	33170.893	6	42413.240	-	9242.356	9	4.5-	3.5	4.5-	3.5	1.055	1.370	.315	1.055	1.369	314			3013.8131	
	33169.695	5									1.17	.	.20						3013.9220	f SI2JDG
1	33168.042	4	6313.866	-	39481.900	8	.	.	4.0-	5.0	.	.	.	0.487	1.165	678	-272		3014.0722	DJ1
	33167.793	4																	3014.0948	
	33166.424	5																	3014.2193	
	33165.662	3																	3014.2885	
1	33165.135	5	6313.866	-	39479.000	1	4.0-	3.0	4.0-	3.0	.487	.970	.483	0.487	0.970	483			3014.3364	
	33164.672	4																	3014.3785	
	33164.270	3																	3014.4150	
	33163.769	4																	3014.4606	
	33163.438	3																	3014.4907	
	33161.985	3																	3014.6228	
	33161.495	7					5.5-	4.5			.95	.72	.23						3014.6673	
	33160.697	3																	3014.7398	
	33160.398	4																	3014.7670	
	33159.993	3																	3014.8039	
	33159.902	4																	3014.8121	
	33159.803	3																	3014.8211	
	33158.681	5											.885						3014.9231	DJ0 2JDG
	33158.371	3																	3014.9513	
	33157.218	5									1.16	.	.08						3015.0562	f SI2JDG
	33156.883	4																	3015.0866	
	33155.003	3																	3015.2576	
	33153.297	4																	3015.4128	
1	33152.968	3	6313.866	-	39466.835	-1	.	.	4.0-	5.0	.	.	.	0.487	1.065	578	-212		3015.4427	
	33151.749	3																	3015.5536	
	33151.528	3																	3015.5737	
	33150.092	3																	3015.7043	
	33148.762	3																	3015.8253	
2	33148.359	5	40427.180	-	7278.862	41	.	.	4.5-	4.5	.	.	.	1.165	1.545	380			3015.8620	
	33148.017	3																	3015.8931	
	33147.385	4																	3015.9506	
2	33147.045	9	40425.890	-	7278.862	17	5.5-	4.5	5.5-	4.5	1.130	1.545	.415	1.130	1.545	415			3015.9816	

C	WAVENUMBER	I	T2	-	T1	O-C	CSS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	33146.593	4																		3016.0227	
	33146.204	3																		3016.0581	
	33144.019	4																		3016.2569	
	33143.113	3																		3016.3394	
	33142.474	3																		3016.3975	
	33141.897	3																		3016.4501	
	33141.259	3																		3016.5081	
	33140.859	3																		3016.5445	
	33140.072	3																		3016.6162	
	33139.767	3																		3016.6439	
2	33139.359	3	8709.640-41849.030	-31			.	.	3.5- 2.5					0.308	1.080	772				3016.6811	
	33138.973	3																		3016.7162	
	33138.711	3																		3016.7401	
	33138.037	3																		3016.8014	
	33137.777	3																		3016.8251	
	33137.477	4																		3016.8524	
2	33136.890	5	41775.135- 8538.233	-12		4.5-	4.5	4.5-	5.5			.430		1.070	1.514	444				3016.9059	
	33136.411	3																		3016.9495	
	33134.540	5																		3017.1198	
2	33133.280	5	40412.140- 7278.862	2		.	.	3.5-	4.5					1.170	1.545	375				3017.2346	
	33132.973	3																		3017.2625	
	33132.415	5																		3017.3134	
2	33131.947	8	41770.185- 8638.233	-5		6.5-	5.5	6.5-	5.5	1.09	1.52	.43		1.090	1.514	424				3017.3560	
	33131.726	3																		3017.3761	
	33131.444	3																		3017.4018	
	33131.022	4																		3017.4402	
	33130.685	3																		3017.4709	
	33130.413	3																		3017.4957	
	33129.845	3																		3017.5474	
2	33129.589	3	42837.570- 9707.980	-1		.	.	5.5-	6.5					1.220	1.485	265				3017.5707	
	33129.220	3																		3017.6044	
1	33128.685	3	37428.345- 4299.659	-1		.	.	2.0-	2.0					1.330	1.482*	152				3017.6531	
	33128.252	3																		3017.6925	
2	33127.199	7	38629.265- 5502.060	-6		.	.	0.5-	1.5			.23*		1.380	1.169*	211				3017.7885	SO
2	33126.871	6	38244.845- 5717.976	2		.	.	2.5-	3.5					1.340	1.596	256				3017.8183	
	33126.485	3																		3017.8535	
2	33125.868	4	41764.120- 8638.233	-19		.	.	5.5-	5.5					1.080	1.514	434				3017.9097	
2	33125.058	9	41763.300- 8638.233	-9		6.5-	5.5	6.5-	5.5	1.130	1.520	.390		1.125	1.514	389				3017.9835	
	33124.584	3																		3018.0267	
	33124.112	3																		3018.0697	
	33123.411	3																		3018.1336	
	33122.313	3																		3018.2336	
2	33121.859	3	13192.903-46314.760	2		.	.	2.5-	3.5					0.372	1.055	683				3018.2750	
	33121.603	3																		3018.2983	
	33121.235	3																		3018.3319	
2	33120.806	3	43847.065-10726.322	63		.	.	5.5-	4.5					1.120	1.391	271				3018.3710	
	33120.484	9				5.5-	6.5					.355								3018.4003	S006555Q
1	33119.623	5	6313.866-39433.510	-21		4.0-	4.0	4.0-	4.0	.485	.925	.440		0.487	0.925	438				3018.4788	
	33118.530	3																		3018.5784	
2	33118.256	3	8198.666-41316.930	-8		.	.	2.5-	1.5					0.414	0.700*	286				3018.6034	
	33117.826	3																		3018.6426	
	33117.336	3																		3018.6873	
	33116.602	3																		3018.7542	
	33115.635	4																		3018.8423	
	33112.745	3																		3019.1058	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	33112.321	3																		
2	33111.728	3	13192.903-46304.595		46	.	.	2.5-	2.5	.	.	.	.	0.372	0.980*	608			3019.1445	
	33111.335	3																	3019.1985	
2	33110.857	9	36346.625-		3235.770	2	0.5-	0.5	0.5-	0.5	2.24	.300	1.94	2.240	0.299*	1941		56*	3019.2297	
	33110.392	3																	3019.2780	
	33110.144	3																	3019.3204	
	33109.825	4																	3019.3430	
	33109.308	4																	3019.3721	
2	33108.018	6	43834.325-		10726.322	15	.	.	5.5-	4.5	.	.	.34*	1.090	1.391*	301			3019.4192	
	33107.374	3																	3019.5369	
	33106.879	4																	3019.5956	
	33106.577	3																	3019.6408	
	33106.309	3																	3019.6683	
2	33105.462	7	42813.440-		9707.980	2	6.5-	6.5	6.5-	6.5	1.124	1.485	.361	1.185	1.485	300			3019.6928	
	33105.110	4																	3019.7700	
	33104.599	3																	3019.8021	
2	33104.191	4	43830.510-		10726.322	3	.	.	3.5-	4.5	.	.	.	1.020	1.391*	371			3019.8487	
	33103.715	3																	3019.8860	
2	33102.712	7	35117.695-		2014.966	-17	1.5-	1.5	1.5-	1.5	1.505	1.830	.375	1.505	1.881	376		-113	3019.9294	
	33101.719	3																	3020.0209	
	33100.760	4																	3020.1115	
	33099.665	4																	3020.1990	
2	33098.745	5	43287.195-		10188.463	13	1.5-	0.5	1.5-	0.5	1.20	2.40	120	1.205	2.402	1197			3020.2989	
	33098.479	3																	3020.3829	
	33097.997	3																	3020.4071	
	33097.569	3																	3020.4511	
2	33096.656	9	40595.070-		7498.364	-50	1.5-	2.5	1.5-	2.5	.825	1.315	.490	0.825	1.321	496			3020.4902	
	33095.891	6																	3020.5735	
	33095.522	3																	3020.6433	HAZY FE
2	33093.837	3	38811.900-		5717.976	-37	.	.	3.5-	3.5	.	.	.	1.115	1.596	481		-172*	3020.6770	
	33093.705	3																	3020.8263	
	33093.249	3																	3020.8429	
	33092.840	3																	3020.8845	
	33092.458	3																	3020.9218	
2	33092.093	3	12048.548-		45140.685	-44	.	.	1.5-	2.5	.	.	.	-0.054	0.850	904			3020.9567	
2	33091.731	6	38309.725-		5717.976	-18	4.5-	3.5	4.5-	3.5	.	.	.490	1.110	1.596	486			3020.9900	
	33091.165	4																	3021.0231	SO
	33089.405	3																	3021.0748	FE Q
2	33088.674	9	37058.525-		3969.846	-5	1.5-	2.5	1.5-	2.5	1.180	1.660	.480	1.180	1.670	490			3021.2355	
	33087.752	3																	3021.3022	
	33087.284	4																	3021.3864	
	33085.793	3																	3021.4291	
	33085.443	3																	3021.5648	
	33082.630	3																	3021.5973	
	33081.854	3																	3021.8542	
	33081.251	3																	3021.9251	
2	33080.828	9	38582.890-		5502.060	-2	2.5-	1.5	2.5-	1.5	1.120	1.170	.050	1.120	1.169	49			3021.9802	
2	33080.493	3	15657.156-		48737.664	-15	.	.	2.5-	2.5	.	.	.	1.000	0.970*	30			3022.0188	
	33080.236	3																	3022.0494	
	33079.692	4																	3022.0729	
	33078.984	3																	3022.1226	
	33078.789	3																	3022.1873	
	33078.497	3																	3022.2051	
1	33077.658	4	37377.330-		4299.659	-13	.	.	2.0-	2.0	.	.	.	1.260	1.482*	222		-89	3022.2318	
	33077.085	3																	3022.3084	
																			3022.3608	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	33076.271	5									1.214		240						3022.4352	f SI2JD6
	33075.762	3									.	.	.						3022.4817	
	33075.253	3									.	.	.						3022.5282	
	33074.764	3									.	.	.						3022.5729	
	33073.710	3									.	.	.						3022.6692	
	33072.992	3									.	.	.						3022.7349	
	33071.829	3									.	.	.						3022.8412	
	33071.439	3									.	.	.						3022.8768	
	33071.016	3									.	.	.						3022.9155	
	33069.881	3									.	.	.						3023.0192	
	33069.622	4									.	.	.						3023.0429	
2	33069.202	5	8198.666-41267.915	-47		2.5-	2.5	2.5-	2.5		.405	.850	.445	0.414	0.860	446		3023.0813		
	33068.871	3									.	.	.						3023.1116	
1	33067.923	3									.	.	.						3023.1982	
	33067.045	4	6313.866-39380.945	-34		.	.	4.0-	4.0		.	.	.	0.487	1.070*	583		3023.2785		
	33066.706	6									.	.	.						3023.3095	
	33066.243	4									.	.	.						3023.3518	
	33065.918	3									.	.	.						3023.3816	
2	33065.489	9	40344.355- 7278.862	-4		5.5-	4.5	5.5-	4.5		1.165	1.545	.380	1.165	1.545	380	-104*	3023.4208		
	33065.026	4									.	.	.						3023.4631	
	33064.737	3									.	.	.						3023.4895	
	33064.160	3									.	.	.						3023.5423	
	33063.659	3									.	.	.						3023.5881	
2	33062.814	9	41701.060- 8638.233	-13		5.5-	5.5	5.5-	5.5		1.085	1.520	.435	1.085	1.514	429		3023.6654		
	33062.432	3									.	.	.						3023.7003	
	33061.840	3									.	.	.						3023.7545	
	33061.055	3									.	.	.						3023.8263	
1	33060.672	4	6313.866-39374.580	-42		.	.	4.0-	3.0		.	.	.	0.487	0.885	398		3023.8613		
	33060.604	4									.	.	.						3023.8675	
	33060.509	4									.	.	.						3023.8762	
	33060.002	3									.	.	.						3023.9226	
	33059.721	3									.	.	.						3023.9483	
	33059.210	3									.	.	.						3023.9950	
1	33058.800	4	6313.866-39372.685	-19		.	.	4.0-	5.0		.	.	.	0.487	1.010*	523		3024.0326		
2	33057.383	3	42299.740- 9242.356	-1		.	.	2.5-	3.5		.	.	.	1.065	1.369	304		3024.1622		
2	33057.190	3	15098.815-48156.010	-5		.	.	1.5-	2.5		.	.	.	1.079	0.920	159		3024.1798		
	33056.576	3									.	.	.						3024.2360	
2	33056.104	4	38774.085- 5717.976	-5		.	.	2.5-	3.5		.	.	.	1.170	1.596*	426		3024.2792		
	33055.403	3									.	.	.						3024.3433	
	33054.038	3									.	.	.						3024.4682	
	33053.255	3									.	.	.						3024.5399	
2	33052.825	6	33052.825- 0.000	0		0.5-	0.5	0.5-	0.5		1.24	3.14	1.90	1.242	3.150	1908	24*	3024.5792		
	33052.617	3									.	.	.						3024.5983	
2	33051.962	7	41690.195- 8633.233	0		6.5-	5.5	6.5-	5.5		1.090	1.515	.425	1.090	1.514	424		3024.6582		
	33051.402	3									.	.	.						3024.7095	
	33050.825	3									.	.	.						3024.7623	
	33050.006	3									.	.	.						3024.8372	
	33049.870	3									.	.	.						3024.8497	
	33049.071	3									.	.	.						3024.9228	
	33048.830	3									.	.	.						3024.9449	
	33048.537	3									.	.	.						3024.9671	
	33048.350	3									.	.	.						3024.9888	
	33048.089	3									.	.	.						3025.0127	
1	33047.838	3	33047.830- 0.000	8		.	.	1.0-	0.0		.	.	.	1.207	0.000	0	40	3025.0357		
	33047.674	3									.	.	.						3025.0507	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVE	LENGTH	NOTES		
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS					
		33047.444	3																			3025.0717		
		33045.958	3																				3025.2078	
		33045.572	3																				3025.2431	
2		33045.170	7	43771.490	-	10726.322	2	4.5-	4.5	4.5-	4.5	1.045	1.390	.345	1.045	1.391	346					3025.2799		
		33044.761	3																				3025.3174	
		33043.728	3																				3025.4119	
		33043.331	4																				3025.4483	
		33042.698	3																				3025.5063	
2		33042.405	6	47735.510	-	14693.090	-15	1.5-	0.5	1.5-	0.5	1.095	.840	.255	1.095	0.840	255					3025.5331		
2		33041.873	4	38759.850	-	5717.976	4	.	.	3.5-	3.5	.	.	.	1.165	1.596	431					3025.5813		
		33041.494	3																				3025.6165	
		33041.243	3																				3025.6395	
		33040.634	3																				3025.6953	
		33040.174	3																				3025.7374	
		33039.822	3																				3025.7696	
		33039.625	3																				3025.7877	
		33039.349	3																				3025.8129	
		33038.919	3																				3025.8523	
		33038.273	3																				3025.9115	
2		33037.728	8	40316.585	-	7278.862	5	3.5-	4.5	3.5-	4.5	1.085	1.545	.460	1.085	1.545	460					3025.9614		
		33037.335	4																				3025.9974	
		33036.173	5																				3026.1038	
		33035.608	3																				3026.1556	
		33035.226	3																				3026.1906	
		33034.661	3																				3026.2424	
2		33033.424	5	10436.770	-	43470.195	-1	4.5-	3.5	4.5-	3.5	.72	.86	.14	0.724	0.860	136					3026.3557		
		33033.138	3																				3026.3819	
		33032.856	3																				3026.4077	
		33032.450	3																				3026.4449	
2		33031.821	3	44831.060	-	11799.241	2	.	.	4.5-	5.5	.	.	.	1.085	1.373	288					3026.5026		
		33029.016	3																				3026.7596	
		33028.680	3																				3026.7904	
2		33028.188	3	10436.770	-	43464.975	-17	4.5-	5.5	4.5-	5.5	.71	1.05	.34	0.724	1.050*	326					3026.8355		
2		33028.098	6	38530.110	-	5502.060	48	.	.	2.5-	1.5	.	.	.	1.245	1.169	76					3026.8437	SI	
		33027.701	4																				3026.8801	
		33027.394	3																				3026.9082	
		33026.922	3																				3026.9515	
		33026.172	3																				3027.0203	
		33025.645	3																				3027.0686	
		33024.955	3																				3027.1318	
		33024.550	3																				3027.1689	
		33024.223	3																				3027.1989	
		33022.770	3																				3027.3321	
2		33020.807	5	41659.050	-	8638.233	-10	.	.	4.5-	5.5	.	.	.	1.120	1.514	394					3027.5121		
		33020.314	3																				3027.5573	
		33019.804	4																				3027.6040	
		33019.443	3																				3027.6372	
2		33018.854	7	40297.730	-	7278.862	-14	5.5-	4.5	5.5-	4.5	1.070	1.545	.475	1.070	1.545	475					3027.6912		
		33017.692	3																				3027.7977	
		33017.044	3																				3027.8571	
2		33016.341	3	40295.200	-	7278.862	3	.	.	4.5-	4.5	.	.	.	1.045	1.545	500					3027.9216		
		33016.138	3																				3027.9402	
		33015.822	3																				3027.9692	
		33015.477	3																				3028.0009	
2		33014.855	5	40513.220	-	7498.364	-1	3.5-	2.5	3.5-	2.5	.91	1.31	.40	0.925	1.321	396					3028.0579		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS				
	33014.394	3																		3028.1002	
	33013.930	3																		3028.1428	
	33013.530	3																		3028.1794	
	33012.530	3																		3028.2712	
	33012.181	3																		3028.3032	
2	33011.605	6	42719.590-		9707.980	-5	5.5-	6.5	5.5-	6.5			.305	1.185	1.485	300			3028.3560		
	33011.157	3																		3028.3971	
	33010.332	3																		3028.4728	
	33009.749	3																		3028.5263	
	33009.135	3																		3028.5827	
	33008.237	3																		3028.6651	
2	33008.079	3	12048.548-		45056.650	-23	.	.	1.5-	2.5				-0.054	1.030	1084			3028.6795		
	33007.553	3																		3028.7278	
2	33006.910	9	38724.885-		5717.976	1	2.5-	3.5	2.5-	3.5	1.140	1.593	.453	1.140	1.596	456			3028.7868		
2	33006.263	9	36976.110-		3969.846	-1	3.5-	2.5	3.5-	2.5	1.200	1.670	.470	1.200	1.670	470			3028.8462		
	33005.606	5																		3028.9055	
	33004.998	3																		3028.9623	
	33004.759	3																		3028.9842	
	33004.209	3																		3029.0347	
	33003.872	3																		3029.0656	
	33003.365	3																		3029.1122	
	33002.900	3																		3029.1548	
	33002.655	3																		3029.1773	
	33002.405	3																		3029.2003	
	33001.664	3																		3029.2683	
	33001.371	3																		3029.2952	
	33000.569	3																		3029.3688	
2	33000.188	9	36970.040-		3969.846	-6	2.5-	2.5	2.5-	2.5	1.405	1.660	.255	1.405	1.670	265			3029.4038		
2	32999.817	3	13192.903-		46192.700	20	.	.	2.5-	3.5				0.372	0.950	578			3029.4379		
	32999.446	3																		3029.4719	
	32998.939	5																		3029.5185	ZR Q
	32998.500	3																		3029.5588	
	32998.061	3																		3029.5991	
	32997.778	3																		3029.6251	
	32997.384	3																		3029.6612	
	32996.994	3																		3029.6970	
2	32996.123	6	13013.685-		46009.840	-32	.	.	5.5-	4.5				0.950	1.050	100			3029.7770		
	32995.375	3																		3029.8457	
2	32994.797	5	13192.903-		46187.750	-50	.	.	2.5-	1.5				0.372	0.740	368			3029.8988		
2	32994.518	9	32994.525-		0.000	-7	1.5-	0.5	1.5-	0.5	1.100	3.140	2.04	1.110	3.150	2040			3029.9244		
	32993.787	3																		3029.9915	
	32993.376	3																		3030.0293	
	32993.082	3																		3030.0563	
	32992.690	3																		3030.0923	
	32992.086	3																		3030.1478	
	32991.090	3																		3030.2393	
	32990.664	3																		3030.2784	
2	32990.083	5	41628.325-		8638.233	-9	4.5-	5.5	4.5-	5.5			.367	1.155	1.514	359			3030.3318		
	32989.572	3																		3030.3787	
	32989.399	3																		3030.3946	
	32987.732	3																		3030.5477	
	32987.422	4																		3030.5762	
	32986.507	3																		3030.6603	
	32984.913	3																		3030.8067	
	32983.753	3																		3030.9133	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
		32981.854	3																		3031.0879		
		32980.200	3																			3031.2399	
		32979.596	3																			3031.2954	
		32979.229	4																			3031.3291	
		32978.793	3																			3031.3692	
		32978.411	3																			3031.4043	
		32977.718	3																			3031.4680	
		32976.657	3																			3031.5656	
		32976.241	4																			3031.6038	
		32975.597	3																			3031.6630	
2		32975.488	3	36945.320-		3969.846	14	.	.	1.5-	2.5	.	.	.	1.030	1.670	640				3031.6730		
		32974.357	3																			3031.7770	
		32974.049	3																			3031.8053	
		32973.728	5																			3031.8349	
2		32972.943	7	36942.795-		3969.846	-6	2.5-	2.5	2.5-	2.5	1.040	1.660	.620	1.040	1.670	630				3031.9070		
		32972.569	3																			3031.9414	
		32972.276	3																			3031.9684	
		32971.630	4																			3032.0278	
2		32970.644	5	40469.010-		7498.364	-2	.	.	1.5-	2.5	.	.	.	1.250	1.321*	71				3032.1185		
		32970.363	3																			3032.1443	
2		32969.840	9	41608.075-		8638.233	-2	6.5-	5.5	6.5-	5.5	1.095	1.520	.425	1.095	1.514	419			13*	3032.1924		
		32969.215	3																			3032.2499	
		32968.724	3																			3032.2951	
2		32968.001	6	43694.395-		10726.322	8	.	.	5.5-	4.5	.	.	.	1.130	1.391	261				3032.3542		
2		32966.895	5	44766.125-		11799.241	11	.	.	4.5-	5.5	.	.	.	1.090	1.373*	283				3032.4633		
		32966.576	3																			3032.4926	
		32966.204	3																			3032.5269	
		32965.874	3																			3032.5572	
		32965.568	3																			3032.5854	
		32965.012	3																			3032.6365	
		32963.590	3																			3032.7673	
		32961.789	3																			3032.9331	
		32961.491	5																			3032.9605	
2		32961.111	5	42669.090-		9707.980	1	.	.	6.5-	6.5	.	.	.	1.110	1.485	375				3032.9954		
		32960.323	3																			3033.0680	
		32959.932	3																			3033.1039	
		32959.366	3																			3033.1560	
		32959.178	3																			3033.1733	
		32958.699	2																			3033.2174	
		32957.655	3																			3033.3135	
		32955.240	3																			3033.5358	
		32954.911	3																			3033.5661	
1		32954.184	4	6313.866-		39258.050	0	4.0-	4.0	4.0-	4.0	.49	1.14	.65	0.487	1.140*	653				3033.6330		
		32953.717	3																			3033.6760	
2		32953.293	4	38455.355-		5502.060	-2	.	.	2.5-	1.5	.	.	.	1.300	1.169	131				3033.7150		
		32952.856	5																			3033.7553	
		32952.259	3																			3033.8102	
		32951.809	3																			3033.8517	
2		32951.317	9	44750.600-		11799.241	-42	.	.	6.5-	5.5	.	.	.	1.150	1.373*	223				3033.8970		
		32951.174	6																			3033.9101	
2		32950.814	9	42658.795-		9707.980	-1	6.5-	6.5	6.5-	6.5	1.180	1.485	.305	1.180	1.485	305				3033.9433		
		32950.159	3																			3034.0036	
		32949.782	3																			3034.0383	
		32949.086	4																			3034.1024	
		32948.485	3																			3034.1578	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES		
		32909.781	3																		3037.7263		
		32909.418	3																			3037.7598	
		32908.879	3																			3037.8095	
		32908.118	3																			3037.8798	
2		32907.852	7	34922.835-		2014.966	-17	0.5-	1.5	0.5-	1.5	1.010	1.880	.87	1.010	1.881	871				3037.9043		
2		32907.454	3	43095.860-		10188.463	57	.	.	1.5-	0.5	.	.	.	1.120	2.402*	1282				3037.9411		
		32907.145	3																			3037.9696	
		32906.753	3																			3038.0058	
		32906.275	3																			3038.0499	
		32905.797	3																			3038.0941	
		32905.155	3																			3038.1533	
		32904.064	3																			3038.2541	
		32903.080	4																			3038.3449	
2		32902.546	9	40400.905-		7498.364	5	2.5-	2.5	2.5-	2.5	1.100	1.320	.220	1.100	1.321	221				3038.3943		
		32902.126	4																			3038.4330	
		32901.634	3																			3038.4785	
		32901.257	3																			3038.5133	
		32900.766	3																			3038.5587	
		32900.226	3																			3038.6085	
		32899.729	4																			3038.6544	
		32899.195	3																			3038.7038	
2		32898.647	4	41536.885-		8638.233	-5	.	.	4.5-	5.5	.	.	.	1.155	1.514	359				3038.7544		
		32898.201	3																			3038.7956	
		32897.070	3																			3038.9000	
2		32896.496	3	15657.156-		48553.715	-63	.	.	2.5-	2.5	.	.	.	1.000	0.640*	360				3038.9531		
2		32895.138	9	34911.115-		2014.966	-11	1.5-	1.5	1.5-	1.5	1.300	1.880	.580	1.300	1.881	581				3038.9861		
		32895.716	3																			3039.0251	
		32895.190	5																			3039.0737	
2		32894.511	9	10436.770-		43331.310	-29*	4.5-	5.5	4.5-	5.5	.715	1.045	.330	0.724	1.055	331				3039.1365		
		32894.059	3																			3039.1782	
		32893.544	3																			3039.2258	
		32893.281	3																			3039.2501	
		32892.116	3																			3039.3578	
2		32891.322	3	41529.540-		8638.233	15	.	.	4.5-	5.5	.	.	.	1.165	1.514	349				3039.4311		
		32890.999	3																			3039.4610	
2		32890.409	4	8198.666-		41089.060	15	.	.	2.5-	2.5	.	.	.	0.414	0.935	521			-597	3039.5155		
		32889.201	3																			3039.6272	
		32888.637	3																			3039.6793	
		32887.734	3																			3039.7628	
		32887.330	3																			3039.8001	
		32886.225	3																			3039.9022	
		32885.781	3																			3039.9433	
		32884.027	3																			3040.1054	
		32882.632	3																			3040.2344	
		32881.382	3																			3040.3500	
		32881.079	3																			3040.3780	
		32880.660	4																			3040.4168	
		32879.737	4					3.5-	4.5					.365								3040.5021	
		32879.415	3																			3040.5319	
		32879.102	3																			3040.5608	
		32878.657	3																			3040.6020	
		32878.334	3																			3040.6319	
		32877.861	3																			3040.6756	
		32877.448	3																			3040.7138	
		32877.291	3																			3040.7283	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	32875.806	3																	3040.8657	
	32874.057	3									1.08	.	.						3041.0275	f
	32873.671	3									.	.	.						3041.0632	
	32872.633	3									.	.	.						3041.1592	
2	32871.524	5	16362.000	-	49233.475	49	.	.	4.5-	3.5	.	.	.	1.050	0.980*	70		3041.2618		
	32870.993	3									.	.	.						3041.3105	
	32870.674	3									.	.	.						3041.3405	
2	32869.651	3	40148.535	-	7278.862	-22	.	.	3.5-	4.5	.	.	.	1.060	1.545	485		3041.4351		
2	32869.077	9	36833.925	-	3969.846	-2	3.5-	2.5	3.5-	2.5	1.225	1.660	.430	1.225	1.670	445	-237*	3041.4882	SO	
	32868.791	3									.	.	.						3041.5147	
	32868.464	3									.	.	.						3041.5450	
2	32867.825	9	11504.095	-	44371.925	-5	3.5-	3.5	3.5-	3.5	.86	.97	.114	0.859	0.970*	111		3041.6041		
2	32867.366	3	42575.325	-	9707.980	1	.	.	5.5-	6.5	.	.	.	1.090	1.485	395		3041.6484		
	32866.856	3									.	.	.						3041.6938	
	32866.515	3									.	.	.						3041.7253	
	32865.987	3									.	.	.						3041.7742	
2	32865.425	4	40353.785	-	7498.364	4	.	.	2.5-	2.5	.	.	.	1.080	1.321*	241		3041.8262		
2	32864.910	5	38582.890	-	5717.976	-4	2.5-	3.5	2.5-	3.5	1.130	1.596	.466	1.120	1.596	476		3041.8739		
	32864.634	4									1.02	.	.						3041.8994	f
	32864.303	3									.	.	.						3041.9301	
	32863.157	3									.	.	.						3042.0362	
	32862.842	3									.	.	.						3042.0653	
	32862.566	3									.	.	.						3042.0927	
	32862.265	3									.	.	.						3042.1187	
	32861.569	4									.	.	.						3042.1832	
	32860.332	4									.	.	.						3042.2931	
	32859.533	3									.	.	.						3042.3670	
	32859.115	3									.	.	.						3042.4104	
	32858.766	3									.	.	.						3042.4427	
	32853.387	3									.	.	.						3042.4778	
2	32857.815	7	38575.800	-	5717.976	-9	3.5-	3.5	3.5-	3.5	.	.	.445	1.150	1.596	446		3042.5308	DJO	
2	32857.390	7	11504.695	-	44361.495	-10	.	.	3.5-	2.5	.	.	.	0.859	0.850*	9		3042.5701		
2	32856.947	9	38359.000	-	5502.060	7	1.5-	1.5	1.5-	1.5	1.000	1.175	.175	0.995	1.169	174		3042.6111		
	32856.463	3									.	.	.						3042.6560	
	32856.243	3									.	.	.						3042.6763	
	32856.095	3									.	.	.						3042.6900	
	32855.956	3									.	.	.						3042.7020	
	32855.602	3									.	.	.						3042.7357	
	32854.506	3									.	.	.						3042.8372	
	32854.179	3									.	.	.						3042.8675	
	32853.463	3									.	.	.						3042.9389	
	32853.225	3									.	.	.						3042.9558	
	32852.936	4									.	.	.						3042.9826	
	32852.801	3									.	.	.						3042.9951	
	32852.348	3									.	.	.						3043.0371	
	32851.953	3									.	.	.						3043.0737	
2	32851.397	9	40130.265	-	7278.862	-6	5.5-	4.5	5.5-	4.5	1.150	1.545	.395	1.150	1.545	395		3043.1252		
	32851.072	4									.	.	.						3043.1553	
	32850.897	3									.	.	.						3043.1715	
	32850.298	3									.	.	.						3043.2270	
	32850.015	3									.	.	.						3043.2532	
2	32849.598	3	16499.640	-	49349.270	-32	.	.	3.5-	4.5	.	.	.	0.773	1.110	337		3043.2918		
	32848.167	3									.	.	.						3043.4244	
	32847.904	3									.	.	.						3043.4488	
	32847.566	3									.	.	.						3043.4801	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	32847.104	3																		3043.5229	
	32846.828	3																		3043.5485	
	32846.591	3																		3043.5705	
	32845.978	3																		3043.6273	
	32844.016	3																		3043.8091	
2	32843.621	4	40341.970-		7498.364	15	.	.	1.5-	2.5	.	.	.	0.890	1.321*	431			3043.8457		
	32842.315	3																		3043.9667	
	32841.701	4																		3044.0236	
2	32841.370	9	32841.375-		0.000	-5	1.5-	0.5	1.5-	0.5	1.250	3.140	1.89	1.234	3.150	1916		-89	3044.0543		
	32841.094	3																		3044.0799	
	32840.854	3																		3044.1022	
	32840.542	3																		3044.1311	
	32840.271	3																		3044.1562	
2	32839.864	6	43566.215-		10726.322	-29	.	.	5.5-	4.5	.	.	.265	1.120	1.391*	271			3044.1939		
	32839.247	3																		3044.2511	
	32838.594	3																		3044.3200	
	32838.279	3																		3044.3409	
	32837.697	3																		3044.3948	
2	32837.394	3	44636.635-		11799.241	0	.	.	4.5-	5.5	.	.	.	1.075	1.373	298			3044.4229		
2	32837.166	3	15641.100-		48478.270	-4	.	.	3.5-	3.5	.	.	.	1.040	0.970*	70			3044.4441		
	32835.857	3																		3044.5654	
2	32835.381	9	40114.225-		7278.862	18	4.5-	4.5	4.5-	4.5	1.135	1.545	.410	1.135	1.545	410			3044.6096	2LNS	
2	32835.381	9	38337.450-		5502.060	-9	.	.	1.5-	1.5	1.17	1.17		1.160	1.169	9			3044.6096	2LNS	
	32835.063	4																		3044.6391	
	32834.874	3																		3044.6566	
	32834.626	3																		3044.6796	
	32834.216	3																		3044.7176	
2	32833.861	5	14295.565-		47129.430	-4	.	.	3.5-	2.5	.	.	.	0.790	0.920	130			3044.7505		
	32833.354	3																		3044.7975	
	32832.632	3																		3044.8645	
	32832.317	3																		3044.8937	
	32831.615	3																		3044.9588	
	32831.179	3																		3044.9993	
	32830.486	3																		3045.0635	
	32830.060	3																		3045.1031	
2	32829.650	9	34844.620-		2014.966	-4	1.5-	1.5	1.5-	1.5	1.530	1.880	.350	1.528	1.881	353		-48	3045.1411		
	32829.144	3																		3045.1880	
	32828.903	3																		3045.2104	
	32828.621	3																		3045.2365	
	32828.143	3																		3045.2809	
	32827.789	3																		3045.3137	
	32827.418	3																		3045.3481	
2	32826.853	8	42069.210-		9242.356	-1	3.5-	3.5	3.5-	3.5	1.190	1.365	.175	1.190	1.369	179			3045.4006		
	32826.197	4																		3045.4614	
	32825.446	3																		3045.5311	
	32825.105	3																		3045.5627	
2	32824.664	9	36060.445-		3235.770	-11	1.5-	0.5	1.5-	0.5	1.520	.300	1.22	1.520	0.299*	1221		23	3045.6037		
	32824.355	3																		3045.6323	
	32823.980	3																		3045.6671	
	32823.042	3																		3045.7542	
	32822.759	3																		3045.7804	
2	32822.430	6	11504.095-		44326.520	5	3.5-	4.5	3.5-	4.5	.86	.96	.08	0.859	0.960*	101			3045.8110	DJ1 SI	
	32822.038	3																		3045.8473	
2	32821.117	5	15657.156-		48478.270	3	.	.	2.5-	3.5	.	.	.	1.000	0.970	30			3045.9328		
	32820.855	3																		3045.9571	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
		32820.417	3																		3045.9978	
2		32819.949	4	41458.205-	8638.233	-23	.	.	4.5-	5.5	.	.	.	1.130	1.514	384				3046.0412		
		32819.641	7																		3046.0698	
2		32818.997	9	42061.340-	9242.356	13	4.5-	3.5	4.5-	3.5	.	.	.195	1.175	1.369	194				3046.1296		
		32818.605	4																		3046.1660	
2		32818.230	9	40316.535-	7498.364	9	3.5-	2.5	3.5-	2.5	.	.	.24	1.085	1.321	236				3046.2008		
		32817.710	3																		3046.2490	
		32817.413	3																		3046.2766	
		32816.717	8				3.5-	4.5					.39								3046.3412	JQ
		32816.233	3																		3046.3861	
2		32815.923	3	16362.000-	49177.890	33	.	.	4.5-	3.5	.	.	.	1.050	1.040*	10				3046.4149		
2		32815.547	4	38317.610-	5502.060	-3	.	.	2.5-	1.5	.	.	.	1.170	1.169	1				3046.4498		
		32314.213	4																		3046.5737	
		32813.676	3																		3046.6235	
2		32813.232	3	41451.460-	8638.233	5	.	.	5.5-	5.5	.	.	.	1.280	1.514	234		-257*		3046.6648		
		32812.783	3																		3046.7065	
		32812.579	3																		3046.7254	
2		32812.125	9	38530.110-	5717.976	-9	2.5-	3.5	2.5-	3.5	1.245	1.595	.350	1.245	1.596	351				3046.7676		
		32812.002	7																		3046.7790	Q
		32811.250	3																		3046.8488	
		32811.025	3																		3046.8697	
		32809.773	3																		3046.9860	
		32809.265	3																		3047.0332	
		32807.510	3																		3047.1962	
		32806.517	3																		3047.2834	
2		32805.991	3	41444.280-	8638.233	-56	.	.	5.5-	5.5	.	.	.	1.065	1.514	449				3047.3373		
2		32805.600	9	42513.590-	9707.980	-10	5.5-	6.5	5.5-	6.5	1.115	1.485	.370	1.115	1.485	370				3047.3736		
2		32805.011	9	36774.865-	3969.846	-8	3.5-	2.5	3.5-	2.5	1.095	1.660	.565	1.127	1.670	543				3047.4283		
		32804.696	4																		3047.4576	
		32804.322	3																		3047.4923	
2		32803.716	5	38521.710-	5717.976	-18	.	.	4.5-	3.5	.	.	.	1.145	1.596	451				3047.5486		
		32803.133	4																		3047.6023	FE Q
		32802.802	3																		3047.6335	
		32802.422	3																		3047.6688	
		32799.767	3																		3047.9155	
		32798.553	4																		3048.0279	HAZY
		32798.096	3																		3048.0708	
		32796.964	3																		3048.1760	
		32796.531	3																		3048.2163	
		32796.182	3																		3048.2487	
		32795.850	3																		3048.2796	
		32795.661	3																		3048.2972	
		32794.809	3																		3048.3764	
		32794.081	3																		3048.4440	
		32793.810	3																		3048.4692	
1		32793.294	3	9386.801-	42180.150	-55*	.	.	5.0-	4.0	.	.	.	0.801	1.020*	219				3048.5172		
		32792.990	3																		3048.5455	
		32792.503	3																		3048.5903	
		32791.905	3																		3048.6463	
		32791.459	4																		3048.6878	
		32791.001	3																		3048.7304	
		32790.676	3																		3048.7606	
2		32789.291	5	38507.290-	5717.976	-23	.	.	3.5-	3.5	.	.	.	1.270	1.596	326		-4*		3048.8894		
		32788.834	3																		3048.9319	
		32788.343	3																		3048.9775	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	CBS	OBS	TERM	TERM	TERM	OBS		TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1							G2	G1						DG	IS	IS
	32788.057	3																						
2	32787.604	9	42029.980-		9242.356	-20	3.5-	3.5	3.5-	3.5	1.055	1.365	.310	1.060	1.369*	309							3049.0032	
	32787.507	7																					3049.0463	
	32787.163	3																					3049.0553	Q
	32785.657	3																					3049.0873	
2	32784.033	5	14295.565-		47079.610	-12	3.5-	2.5	3.5-	2.5			.19	0.790	0.960*	170							3049.2273	
2	32781.538	9	44580.780-		11799.241	-1	4.5-	5.5	4.5-	5.5	1.060	1.375	.315	1.060	1.373	313							3049.3784	
2	32781.107	4	13809.910-		46591.055	-38	.	.	4.5-	3.5				0.657	1.100	443							3049.6105	
	32780.662	3																					3049.6506	
	32779.668	3																					3049.6920	
	32778.941	3																					3049.7845	
	32778.459	3																					3049.8521	
	32777.046	3																					3049.8970	
2	32775.935	3	12992.644-		45768.610	-31	.	.	2.5-	2.5				0.643	0.755	112							3050.0284	
	32775.583	3																					3050.1318	
2	32774.953	5	42482.960-		9707.980	-27	6.5-	6.5	6.5-	6.5	1.135	1.485	.350	1.135	1.485	350							3050.1646	
2	32774.787	5	38492.760-		5717.976	3	3.5-	3.5	3.5-	3.5	1.095	1.595	.500	1.095	1.596	501							3050.2232	
	32774.044	3																					3050.2387	
2	32772.029	3	14476.135-		47248.155	9	.	.	4.5-	5.5				1.060	1.030	30							3050.3078	
	32771.779	4																					3050.4954	
	32771.372	4																					3050.5187	
	32770.794	3																					3050.5565	
	32770.378	3																					3050.6103	
	32769.820	3																					3050.6491	
	32769.448	4																					3050.7010	
2	32768.936	3	40047.795-		7278.862	3	.	.	3.5-	4.5				1.100	1.545*	445							3050.7357	
2	32767.718	3	13809.910-		46577.625	3	.	.	4.5-	3.5				0.657	0.750*	93							3050.7833	
	32767.242	5																					3050.8967	
2	32766.362	9	41404.605-		8638.233	-10	6.5-	5.5	6.5-	5.5	1.080	1.520	.440	1.080	1.514	434							3050.9411	
	32765.745	4																					3051.0230	
	32764.730	3																					3051.0804	
	32764.335	3																					3051.1750	
2	32763.588	7	13809.910-		46573.500	-2	4.5-	5.5	4.5-	5.5	.657	1.023	.366	0.657	1.025	368							3051.2118	
	32763.037	3																					3051.2813	
2	32761.351	3	17296.905-		50058.235	21	.	.	4.5-	3.5				0.494	1.000*	506							3051.3326	
	32760.955	4																					3051.4897	
	32760.634	3																					3051.5266	
	32759.608	3																					3051.5565	
2	32758.719	3	15641.100-		48399.780	39	.	.	3.5-	3.5				1.040	0.950*	90							3051.6520	
2	32756.716	4	8198.666-		40955.385	-3	.	.	2.5-	3.5				0.414	0.850	436							3051.7349	
2	32756.223	5	40254.585-		7498.364	2	.	.	1.5-	2.5				1.140	1.321*	181							3051.9215	
	32755.735	3																					3051.9674	
	32755.458	4																					3052.0129	
2	32755.083	4	13809.910-		46565.005	-12	.	.	4.5-	4.5				0.657	1.040*	383							3052.0387	
	32754.531	3																					3052.0736	
	32754.161	3																					3052.1251	
	32753.733	4																					3052.1596	
	32753.223	4																					3052.1994	
	32752.737	3																					3052.2470	
	32752.300	3																					3052.2923	
2	32752.213	2	12992.644-		45744.825	32	.	.	2.5-	3.5				0.643	0.000*	0							3052.3330	
	32751.655	3																					3052.3411	
	32751.093	4																					3052.3931	
2	32750.624	4	8709.640-		41460.320	4	.	.	3.5-	3.5				0.308	0.980*	672							3052.4455	
2	32748.975	3	41387.240-		8638.233	-32	.	.	5.5-	5.5				1.125	1.514	389							3052.4836	
																							3052.6429	

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C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	32748.470	3																3052.6900	
	32747.376	4																3052.7920	
	32745.904	3																3052.9292	
	32745.473	3																3052.9694	
2	32743.609	8	41381.835-	8638.233	7	4.5-	5.5	4.5-	5.5	1.145	1.520	.375	1.145	1.514	369		3053.1432		
2	32740.417	6	44539.630-	11799.241	28	.	.	6.5-	5.5	.	.	.31	1.060	1.373	313		3053.4409	DJ1	
2	32737.374	7	38455.355-	5717.976	-5	2.5-	3.5	2.5-	3.5	1.320	1.595	.275	1.300	1.596	296		3053.7247		
	32727.152	5																3054.6785	
2	32725.390	6	12992.644-	45718.025	9	2.5-	3.5	2.5-	3.5	.64	1.07	.43	0.643	1.065	422		3054.8430	ZR Q	
	32724.332	5								1.07	.	.21						3054.9418	fDJ02J06
	32719.518	9				3.5-	4.5			1.05	1.36	.307						3055.3913	
	32714.992	4																3055.8140	
2	32713.920	9	41352.185-	8638.233	-32	.	.	4.5-	5.5	.	.	.305	1.225	1.514	289		3055.9141	SI	
2	32713.794	6	38215.650-	5502.060	4	0.5-	1.5	0.5-	1.5	.975	1.170	.195	0.996	1.169	173		3055.9259		
2	32713.545	2	41955.897-	9242.356	4	.	.	2.5-	3.5	.	.	.	1.090	1.369	279		3055.9492		
	32713.027	4																3055.9976	
	32711.184	3																3056.1697	
	32710.272	3																3056.2550	
2	32708.264	4	14295.545-	47003.820	9	.	.	3.5-	3.5	.	.	.	0.790	0.935	145		3056.4426		
	32707.561	3																3056.5083	
2	32706.694	5	41949.045-	9242.356	5	.	.	3.5-	3.5	.	.	.	1.050	1.369	319		3056.5893		
2	32705.840	9	39984.710-	7278.862	-8	5.5-	4.5	5.5-	4.5	1.085	1.545	.460	1.085	1.545	460	66*	3056.6691		
	32705.458	4																3056.7048	
	32703.785	4																3056.8612	
	32703.374	4																3056.8996	
	32701.908	4																3057.0367	
	32699.851	4																3057.2290	
2	32698.283	4	8198.666-	40896.955	-6	.	.	2.5-	1.5	.	.	.	0.414	0.800*	386		3057.3756		
	32697.640	4																3057.4357	FE Q
2	32697.286	6	38199.355-	5502.060	-9	2.5-	1.5	2.5-	1.5	.	.	.11	1.045	1.169	124		3057.4688	SO	
2	32697.024	9	36666.870-	3969.846	0	2.5-	2.5	2.5-	2.5	1.157	1.68	.513	1.157	1.670	513		3057.4933		
2	32696.716	6	41939.060-	9242.356	12	.	.	2.5-	3.5	.	.	.	1.030	1.369*	339		3057.5221		
	32694.949	3																3057.6874	
	32694.128	3																3057.7642	
2	32693.317	8	36663.170-	3969.846	-7	1.5-	2.5	1.5-	2.5	1.635	1.660	.025	1.635	1.670	35		3057.8400		
2	32692.550	4	16362.000-	49054.605	-55	.	.	4.5-	4.5	.	.	.	1.050	1.020*	30		3057.9118		
	32692.044	4																3057.9591	
	32688.673	3																3058.2740	
	32686.713	4																3058.4578	
2	32683.200	6	40181.615-	7498.364	-51	3.5-	2.5	3.5-	2.5	1.08	1.32	.24	1.080	1.321*	241		3058.7866		
	32682.479	3																3058.8541	
2	32681.895	7	43408.215-	10726.322	2	3.5-	4.5	3.5-	4.5	1.080	1.390	.310	1.080	1.391	311		3058.9087		
	32679.945	4																3059.0913	FE Q
	32677.872	4																3059.2853	
	32677.221	4																3059.3463	
	32675.244	5																3059.5314	2LNS
2	32675.244	5	12048.548-	44723.835	-43	1.5-	2.5	1.5-	2.5	-0.05	.82	.87	-0.054	0.810*	864		3059.5314	GQ 2LNS	
	32673.860	4																3059.6610	
2	32673.096	7	36642.955-	3969.846	-13	3.5-	2.5	3.5-	2.5	1.365	1.670	.305	1.356	1.670	314	-65	3059.7326		
1	32672.330	4	9386.801-	42059.140	-9	.	.	5.0-	4.0	.	.	.	0.801	1.060	259		3059.8043		
2	32671.987	3	14221.716-	46893.745	-42	.	.	0.5-	1.5	.	.	.	-0.108	0.670*	778		3059.8364		
	32671.687	4																3059.8645	
2	32671.399	6	13013.685-	45685.090	-6	.	.	5.5-	4.5	.94	.	.	0.950	0.955	5		3059.8915	f SO	
	32669.973	3																3060.0251	
	32668.891	5																3060.1264	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES		
2	32666.962	9	35902.735-		3235.770	-3	1.5-	0.5	1.5-	0.5	1.620	.300	.590	1.605	0.299	1306			42	3060.3071		
2	32666.722	5	44465.940-		11799.241	23	.	.	5.5-	5.5	.	.	.	1.095	1.373	278				3060.3296		
	32655.730	7					.	.	.	.	.	.	.								3060.4225	
	32665.362	5					.	.	.	.	.	.	.								3060.4570	
	32664.010	4					.	.	.	.	.	.	.								3060.5837	
	32662.653	4					.	.	.	.	.	.	.								3060.7104	
	32662.042	5					.	.	.	.	.	.	.								3060.7681	
	32661.688	3					.	.	.	.	.	.	.								3060.8013	
2	32651.219	7	38163.310-		5502.060	-31	1.5-	1.5	1.5-	1.5	1.220	1.170	.050	1.220	1.169	51					3060.8452	
	32659.475	3					.	.	.	.	.	.	.								3061.0087	
	32658.859	4					.	.	.	.	.	.	.								3061.0655	
	32656.767	3					.	.	.	.	.	.	.								3061.2625	
2	32654.535	8	39953.405-		7278.862	-8	3.5-	4.5	3.5-	4.5	1.050	1.545	.495	1.045	1.545	500					3061.4718	
2	32653.034	9	34668.015-		2014.966	-15	2.5-	1.5	2.5-	1.5	1.175	1.880	.705	1.175	1.881	706			48*		3061.6125	
2	32650.314	9	44449.545-		11799.241	10	.	.	6.5-	5.5	.	.	.19	1.170	1.373	203					3061.8676	DJ1
2	32650.200	7	40148.535-		7498.364	29	3.5-	2.5	3.5-	2.5	1.060	1.315	.255	1.060	1.321	261					3061.8783	
	32649.561	4					.	.	.	.	.	.	.								3061.9382	
	32648.460	3					.	.	.	.	.	.	.								3062.0415	
	32643.361	3					.	.	.	.	.	.	.								3062.5198	
	32639.112	5					.	.	.	.	.	.	.								3062.9185	
2	32636.747	3	10436.770-		43073.510	7	.	.	4.5-	4.5	.	.	.	0.724	0.950*	226			-177*		3063.1405	
	32629.580	4					.	.	.	.	.	.	.								3063.8133	
2	32626.073	7	44425.305-		11799.241	9	5.5-	5.5	5.5-	5.5	1.065	1.375	.310	1.065	1.373	308					3064.1426	
	32622.601	3					.	.	.	.	.	.	.								3064.4688	
2	32622.152	3	43348.445-		10726.322	29	.	.	5.5-	4.5	.	.	.	1.115	1.391	276					3064.5109	
	32621.649	6					.	.	.	.	.	.	.								3064.5582	
	32619.068	5					.	.	.	.	.	.	.								3064.8007	
2	32618.329	5	42326.310-		9707.980	-1	.	.	6.5-	6.5	.	.	.	1.095	1.485	390					3064.8701	
	32617.612	4					.	.	.	.	.	.	.								3064.9375	
2	32616.321	9	36526.190-		3969.846	-23	2.5-	2.5	2.5-	2.5	1.335	1.670	.335	1.330	1.670	340					3065.0588	
	32616.119	9					.	.	.	.	.	.	1.84								3065.0778	DJO 2JOG
2	32615.806	9	34630.775-		2014.966	-3	1.5-	1.5	1.5-	1.5	1.205	1.880	.675	1.198	1.881	683			90*		3065.1072	
	32615.482	4					.	.	.	.	.	.	.								3065.1377	
	32615.225	6					.	.	.	.	.	.	.								3065.1618	
	32613.903	3					.	.	.	.	.	.	.								3065.2861	
2	32612.705	4	39891.565-		7278.862	2	.	.	4.5-	4.5	.	.	.	1.090	1.545	455					3065.3987	
	32610.363	5					1.5-	2.5	.	.	.	.	.63								3065.6188	SO JQ
2	32608.413	3	42316.425-		9707.980	-32	.	.	5.5-	6.5	.	.	.	1.155	1.485	330					3065.8022	
2	32607.743	8	39826.605-		7278.862	0	5.5-	4.5	5.5-	4.5	1.235	1.545	.310	1.228	1.545	317			9*		3065.8652	
2	32605.938	8	40104.340-		7498.364	12*	2.5-	2.5	2.5-	2.5	1.005	1.315	.310	1.000	1.321	321					3066.0302	
	32603.967	4					.	.	.	.	.	.	.								3066.2203	
1	32603.004	3	32603.005-		0.000	-1	1.0-	0.0	1.0-	0.0	.92	.00		0.920	0.000	0					3066.3108	G*
	32602.605	4					.	.	.	.	.	.	.								3066.3484	
	32602.294	3					.	.	.	.	.	.	.								3066.3776	
	32601.613	4					.	.	.	.	.	.	.								3066.4412	
2	32600.610	8	42789.075-		10188.463	-2	1.5-	0.5	1.5-	0.5	1.215	2.40	1185	1.215	2.402	1187					3066.5360	
2	32599.647	9	38317.610-		5717.976	13	2.5-	3.5	2.5-	3.5	1.170	1.595	.425	1.170	1.596	426					3066.6266	
2	32598.097	6	39876.970-		7278.862	-11	.	.	4.5-	4.5	.	.	.	1.115	1.545	430					3066.7724	
	32597.781	3					.	.	.	.	.	.	.								3066.8021	
	32597.052	3					.	.	.	.	.	.	.								3066.8707	
	32596.417	4					.	.	.	.	.	.	.								3066.9305	
2	32594.727	7	39873.620-		7278.862	-31	3.5-	4.5	3.5-	4.5	1.160	1.545	.385	1.160	1.545*	385					3067.0895	
2	32593.261	4	13192.903-		45786.224	-60	.	.	2.5-	2.5	.	.	.	0.372	0.895	523					3067.2275	
	32592.999	3					.	.	.	.	.	.	.								3067.2521	
1	32589.429	5	9386.801-		41976.230	0	5.0-	5.0	5.0-	5.0	.80	1.12	.32	0.801	1.120*	319					3067.5881	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	32537.702	4																	3067.7507	BI Q
	32535.913	4																	3067.8250	
	32535.672	4																	3067.9418	
2	32534.502	8	44383.735-	11759.241	8	5.5-	5.5	5.5-	5.5	1.070	1.375	.305	1.090	1.373*	283			3068.0520		
2	32581.910	9	41824.260-	9242.356	6	3.5-	3.5	3.5-	3.5	1.120	1.365	.245	1.120	1.369	249			3068.2961		
	32580.001	3																	3068.4759	
	32578.982	5																	3068.5718	
2	32577.310	7	41819.660-	9242.356	6	4.5-	3.5	4.5-	3.5	1.140	1.365	.225	1.150	1.369	219			3068.7293	C2	
2	32577.310	7	11504.055-	44081.440	-35	.	.	3.5-	4.5				0.859	0.875	16			3068.7293	C2	
2	32575.205	6	36545.045-	3969.846	6	2.5-	2.5	2.5-	2.5	1.205	1.670	.465	1.330	1.670	340		67	3068.9277		
	32572.790	3																	3069.1552	
2	32571.073	9	36540.920-	3969.846	-1	3.5-	2.5	3.5-	2.5	1.185	1.670	.485	1.200	1.670*	470		-40*	3069.3170		
	32570.593	4																	3069.3622	
	32569.519	3																	3069.4635	
	32568.844	3																	3069.5271	
	32566.257	3																	3069.7681	
2	32565.350	5	42273.350-	9707.980	10	.	.	6.5-	6.5				1.065	1.485	420			3069.8536		
	32564.873	3																	3069.9014	
2	32564.195	9	42752.670-	10188.463	-12	1.5-	0.5	1.5-	0.5	1.20	2.40	1.20	1.200	2.402*	1202			3069.9653		
	32563.953	5																	3069.9881	
	32562.428	3																	3070.1319	
	32561.502	3																	3070.2192	
	32561.030	4																	3070.2590	
2	32560.555	9	38062.615-	5502.060	0	2.5-	1.5	2.5-	1.5	1.12	1.17	.05	1.110	1.169	59			3070.3085		
	32560.170	3																	3070.3448	
	32559.624	3																	3070.3963	
	32559.084	3																	3070.4472	
	32558.637	3																	3070.4894	
2	32558.095	9	32558.100-	0.000	-5	0.5-	0.5	0.5-	0.5	1.36	3.16	1.78	1.370	3.150*	1780		62	3070.5405	PB	
	32557.379	3																	3070.6080	
2	32556.792	9	8198.666-	40755.465	-7	2.5-	2.5	2.5-	2.5	.410	.800	.390	0.414	0.800	386			3070.6634		
	32556.232	3																	3070.7115	
2	32555.679	9	32555.705-	0.000	-26	1.5-	0.5	1.5-	0.5	1.28	3.14	1.86	1.269	3.150	1881		-42*	3070.7684	PB	
	32555.238	4																	3070.8100	
2	32554.943	3	16499.640-	49054.605	-22	.	.	3.5-	4.5				0.773	1.020*	247			3070.8378		
	32554.590	3																	3070.8711	
	32553.747	3																	3070.9506	
	32553.107	5																	3071.0110	
	32552.700	3																	3071.0494	
	32551.793	3																	3071.1350	
	32549.901	3																	3071.3135	
2	32549.427	4	40047.795-	7498.364	-4	.	.	3.5-	2.5				1.100	1.321*	221			3071.3582		
	32548.958	3																	3071.4025	
2	32548.356	3	19277.130-	51825.535	1	.	.	3.5-	2.5				0.847	0.990*	143			3071.4593		
	32548.067	4																	3071.4866	
	32547.720	3																	3071.5193	
	32547.423	3																	3071.5474	
2	32546.758	8	42254.735-	9707.980	3	5.5-	6.5	5.5-	6.5	1.180	1.485	.305	1.180	1.485	305		17*	3071.6101		
	32546.243	3																	3071.6587	
2	32545.515	3	13809.910-	45355.430	-5	.	.	4.5-	3.5				0.657	0.950	293			3071.7274		
2	32545.078	7	34560.050-	2014.966	-6	1.5-	1.5	1.5-	1.5	1.130	1.880	.750	1.130	1.881	751			3071.7687		
	32544.460	4																	3071.8270	
	32544.067	3																	3071.8641	
	32542.328	3																	3072.0283	
	32541.751	4																	3072.0827	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	32541.350	4																		3072.1206	
	32540.900	4																		3072.1631	
	32539.950	5																		3072.2528	
	32538.483	3																		3072.3913	
	32537.897	4																		3072.4466	
2	32537.643	4	13013.685	-	45551.330	-2	.	.	5.5- 5.5	.	.	.	.	0.950	1.060*	110			3072.4706	
2	32537.094	7	40035.490	-	7498.364	-32	1.5-	2.5	1.5- 2.5	1.140	1.315	.175		1.180	1.321*	141			3072.5225		
2	32535.902	5	13809.910	-	46345.820	-8	.	.	4.5- 4.5	.	.	.	.	0.657	1.030	373			3072.6350	
	32535.245	3																	3072.6971		
	32534.951	3																	3072.7248		
	32534.360	4																	3072.7807		
2	32532.775	6	41775.135	-	9242.356	-4	4.5-	3.5	4.5- 3.5	1.065	1.365	.300		1.070	1.369	299			3072.9304		
	32532.326	5																	3072.9728		
	32530.993	3																	3073.0987		
	32530.506	3																	3073.1447		
	32530.188	3																	3073.1748		
	32529.840	4																	3073.2076		
	32529.534	3																	3073.2366		
	32529.046	3																	3073.2827		
	32528.641	3																	3073.3209		
	32528.113	3																	3073.3708		
	32526.774	3																	3073.4973		
	32526.255	3																	3073.5463		
	32525.889	3																	3073.5810		
2	32525.294	4	17532.937	-	50058.235	-4	.	.	3.5- 3.5	.	.	.	.	1.238	1.000*	238			3073.6372	
2	32524.897	9	36494.740	-	3969.846	3	1.5-	2.5	1.5- 2.5	1.480	1.670	.190		1.470	1.670	200			3073.6747		
	32524.421	4					1.5-	0.5		.	.	.	.						3073.7197	
	32524.013	3																	3073.7583		
	32523.581	3																	3073.7991		
	32523.040	3																	3073.8502		
	32522.641	5																	3073.8879		
	32522.029	3																	3073.9458		
	32521.543	3																	3073.9917		
	32520.052	4																	3074.1327		
1	32519.417	3	34723.000	-	2203.606	23	.	.	2.0- 1.0	.	.	.	.	1.280	1.495*	215		-33*	3074.1927	
	32519.073	6					3.5-	2.5		.	.	.	.425						3074.2252	DJ1SIJQ
	32518.689	4																	3074.2615		
2	32517.992	5	14561.607	-	47079.610	-11	.	.	1.5- 2.5	.	.	.	.	1.149	0.960*	189			3074.3274	
2	32517.154	6	40015.520	-	7498.364	-2	2.5-	2.5	2.5- 2.5	.	.	.	.245	1.070	1.321*	251			3074.4067	
	32516.852	3																	3074.4352		
	32516.636	3																	3074.4556		
	32516.258	3																	3074.4914		
	32515.515	3																	3074.5616		
2	32514.899	9	40013.240	-	7498.364	23	.	.	2.5- 2.5	.	.	.	.	1.185	1.321	136			3074.6199	2LNSQ
2	32514.899	9	38016.965	-	5502.050	-6	0.5-	1.5	0.5- 1.5	1.41	1.17	.24		1.390	1.169	221			3074.6199	2LNSQ	
	32514.356	9																	3074.6712		
	32513.937	4																	3074.7109		
	32513.563	3																	3074.7462		
2	32513.026	6	38231.070	-	5717.976	-8	.	.	3.5- 3.5	.	.	.	.	1.130	1.596*	466			3074.7913	
	32512.759	3																	3074.8223		
2	32512.406	3	11504.095	-	44016.500	1	.	.	3.5- 4.5	.	.	.	.	0.859	1.050*	191			3074.8556	
	32511.905	3																	3074.9029		
	32511.591	3																	3074.9327		
1	32510.925	9	6313.866	-	38824.820	-29	4.0-	3.0	4.0- 3.0	.485	.835	.350		0.487	0.832	345		-189	3074.9957		
	32510.506	3																	3075.0354		

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	32510.005	8	38012.065-	5502.060	0	.	.	.	2.5-	1.5	.	.	.	.	0.990	1.169*	179	.	.	3075.0827	
	32509.520	3																		3075.1286	
2	32509.104	3	16593.963-	49103.065	2	.	.	.	2.5-	2.5	.	.	.	.	0.983	0.955	28	.	.	3075.1680	
	32507.739	3																		3075.2971	
	32507.451	4																		3075.3244	
2	32507.015	9	34522.010-	2014.966	-29	2.5-	1.5	2.5-	1.5	1.075	1.880	.805			1.085	1.881	796			3075.3656	2LNS
1	32507.015	9	34710.860-	2203.606	-239	2.0-	1.0	2.0-	1.0	1.170	1.495	.325			1.170	1.495	325			3075.3656	2LNS
	32506.491	3																		3075.4152	
	32505.977	3																		3075.4638	
	32504.578	3																		3075.5962	
	32503.258	3																		3075.7211	
	32502.748	3																		3075.7694	
	32501.384	4																		3075.8984	
2	32500.463	9	36470.320-	3969.846	-11	3.5-	2.5	3.5-	2.5	1.170	1.670	.500			1.172	1.670	498			3075.9856	
2	32499.538	9	42207.525-	9707.980	-7	6.5-	6.5	6.5-	6.5	1.150	1.485	.335			1.140	1.485	345	-55		3076.0732	
	32496.023	3																		3076.4059	
2	32491.879	9	43218.185-	10726.322	16	4.5-	4.5	4.5-	4.5	1.155	1.390	.235			1.155	1.391	236			3076.7983	
	32490.985	3																		3076.8830	
2	32490.443	9	35726.195-	3235.770	18	0.5-	0.5	0.5-	0.5	1.55	.30	1.25			1.550	0.299*	1251			3076.9343	
1	32488.099	6	6313.866-	38801.970	-5*	4.0-	4.0	4.0-	4.0	.485	1.100	.615			0.487	1.090*	603	-265		3077.1563	
	32487.289	4																		3077.2330	
2	32487.019	4	36456.850-	3969.846	15	.	.	.	1.5-	2.5	.	.	.	.	1.325	1.670	345			3077.2586	
	32484.458	4																		3077.5012	
2	32481.390	4	38199.355-	5717.976	11	.	.	.	2.5-	3.5	.	.	.	.	1.045	1.596	551			3077.7919	
2	32478.528	8	39976.890-	7498.364	2	3.5-	2.5	3.5-	2.5	1.170	1.315	.145			1.170	1.321	151	5*		3078.0631	
2	32478.057	3	14561.607-	47039.640	24	.	.	.	1.5-	1.5	.	.	.	.	1.149	1.020*	129			3078.1078	
2	32477.176	5	43203.480-	10726.322	18	.	.	.	5.5-	4.5	.	.	.	.	1.120	1.391	271			3078.1913	
	32476.892	4																		3078.2182	
	32476.000	3																		3078.3027	
2	32474.822	8	41113.050-	8638.233	5	4.5-	5.5	4.5-	5.5	1.120	1.515	.395			1.120	1.514	394			3078.4144	
	32473.773	4																		3078.5138	
2	32467.706	5	34482.680-	2014.966	-8	2.5-	1.5	2.5-	1.5	1.315	1.880	.565			1.307	1.881	574			3079.0891	
2	32467.094	3	39745.960-	7278.862	-4	.	.	.	5.5-	4.5	.	.	.	.	1.185	1.545	360			3079.1472	
	32464.456	3																		3079.3974	
	32464.128	4																		3079.4285	
	32459.140	3																		3079.9017	
2	32458.667	6	44257.905-	11759.241	3	6.5-	5.5	6.5-	5.5	.	.	.245			1.130	1.373	243			3079.9466	SO
2	32455.368	9	37957.445-	5502.060	-17	2.5-	1.5	2.5-	1.5	1.26	1.17	.09			1.260	1.169*	91			3080.2597	2LNS
2	32455.368	9	34470.355-	2014.966	-21	0.5-	1.5	0.5-	1.5	.500	1.880	1.38			0.480	1.881*	1401	60*		3080.2597	2LNS
2	32455.047	7	41697.420-	9242.356	-17	3.5-	3.5	3.5-	3.5	.	.	.27			1.130	1.369*	239			3080.2902	
2	32453.500	6	39732.360-	7278.862	2	.	.	.	3.5-	4.5	.	.	.260		1.275	1.545	270	-56		3080.4370	DJ1
	32451.987	5																		3080.5806	
	32448.403	3																		3080.9209	
	32445.444	4																		3081.2019	
	32441.047	4																		3081.6195	
1	32439.327	3	8768.139-	41207.555	-89	.	.	.	2.0-	2.0	.	.	.	.	0.362	0.925	563			3081.7829	
	32438.630	4																		3081.8491	
2	32435.036	7	39933.405-	7498.364	-5	3.5-	2.5	3.5-	2.5	1.050	1.315	.265			1.045	1.321	276			3082.1906	
	32434.710	4																		3082.2216	
	32434.419	5																		3082.2493	DJ0
2	32433.895	4	15657.156-	48091.025	26	.	.	.	2.5-	2.5	.	.	.	.	1.000	1.100	100			3082.2991	
	32432.988	4																		3082.3853	
2	32431.389	6	42139.380-	9707.980	-11	.	.	.	6.5-	6.5	.	.	.	.	1.150	1.485	335			3082.5373	C2
2	32431.339	6	13013.685-	45445.065	9	.	.	.	5.5-	4.5	.	.	.	.	0.950	1.000*	59			3082.5373	C2
2	32430.553	5	43156.875-	10726.322	0	.	.	.	5.5-	4.5	.	.	.	.	1.160	1.391*	231			3082.6167	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	32423.802	4																	3082.7832	
	32428.245	4																	3082.8360	
	32427.832	4																	3082.8754	
	32425.723	5																	3082.9811	
2	32424.516	9	39703.385-	7278.862	-7	5.5-	4.5	5.5-	4.5	1.090	1.545	.455	1.090	1.545	455			3083.1907		
2	32423.771	9	35659.575-	3235.770	-34	0.5-	0.5	0.5-	0.5	.455	.300	.155	0.460	0.299*	161			3083.2615	-98*	
	32420.794	4																	3083.5447	
	32420.407	4																	3083.5815	
2	32419.322	8	43145.645-	10726.322	-1	3.5-	4.5	3.5-	4.5	1.195	1.390	.195	1.195	1.391	196			3083.6847		
	32418.563	5																	3083.7569	
2	32417.738	8	42125.715-	9707.980	3	.	.	5.5-	6.5	.	.	.325	1.165	1.485	320			3083.8354	DJ1	
2	32416.702	5	41659.050-	9242.356	8	.	.	4.5-	3.5	.	.	.	1.120	1.369	249			3083.9339		
	32416.272	4																	3083.9748	
	32414.934	7				2.5-	3.5						.485						3084.1021	JQ
	32413.345	3																	3084.2533	
	32412.479	5																	3084.3357	
	32412.237	4																	3084.3588	
	32410.816	3																	3084.4940	
2	32409.308	5	39688.175-	7278.862	-5	4.5-	4.5	4.5-	4.5	.	.	.438	1.140	1.545	405			3084.6375		
	32406.819	5								1.02	.	.56							3084.8745	fdJ02J06
	32405.569	3																	3084.8983	
	32402.680	3																	3085.2685	
2	32401.540	7	44200.775-	11799.241	6	5.5-	5.5	5.5-	5.5	1.100	1.375	.275	1.100	1.373	273			3085.3771		
	32399.505	4																	3085.5709	
2	32392.008	9	38109.990-	5717.976	-6	3.5-	3.5	3.5-	3.5	.	.	.48	1.105	1.596	491			3086.2850	52*	
	32391.127	4																	3086.3690	
	32390.503	4																	3086.4285	
	32390.062	3																	3086.4705	
	32388.972	4																	3086.5744	
2	32385.964	9	41628.325-	9242.356	-5	4.5-	3.5	4.5-	3.5	.	.	.22	1.155	1.369	214			3086.8610		
	32385.435	4																	3086.9115	
	32383.073	3																	3087.1366	
	32381.111	4																	3087.3237	
2	32379.409	5	8709.640-	41089.060	-11	.	.	3.5-	2.5	.	.	.	0.308	0.935	627			3087.4860	-256	
2	32379.072	4	41621.445-	9242.356	-17	.	.	2.5-	3.5	.	.	.	1.065	1.369	304			3087.5181		
2	32378.461	9	35514.250-	3235.770	-19	1.5-	0.5	1.5-	0.5	1.55	.30	1.24	1.560	0.299	1261			3087.5764	-56	
2	32377.371	4	15778.634-	48156.010	-5	.	.	1.5-	2.5	.	.	.	1.133	0.920	213			3087.6803		
2	32375.351	9	35345.225-	3959.846	-28	3.5-	2.5	3.5-	2.5	.	.	.460	1.214	1.670	456			3087.8730		
	32374.488	3																	3087.9553	
2	32372.409	9	37874.470-	5502.060	-1	1.5-	1.5	1.5-	1.5	1.03	1.16	.135	1.030	1.169	139			3088.1536		
	32370.234	4																	3088.3611	
1	32368.376	4	36668.045-	4299.659	-10	.	.	3.0-	2.0	.	.	.	1.158	1.482	324			3088.5384	5	
2	32367.758	9	39866.140-	7498.364	-18	2.5-	2.5	2.5-	2.5	1.09	1.31	.23	1.095	1.321	226			3088.5974		
	32366.671	5																	3088.7011	
	32366.129	4																	3088.7528	
1	32361.792	4	34565.410-	2203.606	-12	1.0-	1.0	1.0-	1.0	.985	1.495	.51	0.980	1.495*	515			3089.1668		
	32358.538	5																	3089.4727	
2	32358.245	5	15657.156-	48015.425	-24	.	.	2.5-	3.5	.	.	.	1.000	1.080*	80			3089.5054		
	32357.860	4																	3089.5422	
2	32356.584	5	36326.420-	3969.846	10	.	.	2.5-	2.5	.	.	.	1.099	1.670	571			3089.6640	-13*	
	32356.158	4																	3089.7047	
2	32355.476	8	10436.770-	42792.230	16	4.5-	3.5	4.5-	3.5	.715	.900	.185	0.724	0.900	176			3089.7699		
2	32351.816	4	39630.685-	7278.862	-7	.	.	4.5-	4.5	.	.	.	1.125	1.545	420			3090.1194		
	32351.614	3																	3090.1387	
2	32351.075	6	35586.850-	3235.770	-5	.	.	1.5-	0.5	.	.	.86	1.160	0.299*	861			3090.1902	SI	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
2	32349.269	8	39847.645-		7498.354	-12	1.5-	2.5	1.5-	2.5	.	.	.375	0.940	1.321	381	.	.	3090.3627	SI
2	32348.742	7	45075.060-		10726.322	4	4.5-	4.5	4.5-	4.5	1.080	1.390	.310	1.080	1.391	311	.	.	3090.4131	
	32347.903	4					.	.	.	.	.	.	.	.	.	.	.	.	3090.4932	
	32347.434	4					.	.	.	.	.	.	.	.	.	.	.	.	3090.5380	
	32346.280	3					.	.	.	.	.	.	.	.	.	.	.	.	3090.6483	
2	32344.628	6	38062.615-		5717.976	-11	2.5-	3.5	2.5-	3.5	.	.	.47	1.110	1.596	486	.	.	3090.8062	SI
	32342.471	3					.	.	.	.	.	.	.	.	.	.	.	.	3091.0123	
	32341.989	3					.	.	.	.	.	.	.	.	.	.	.	.	3091.0584	
1	32340.941	3	38485.490-		6144.515	-34*	.	.	4.0-	3.0	.	.	.	1.145	1.473	328	.	.	3091.1585	
	32339.740	3					.	.	.	.	.	.	.	.	.	.	.	.	3091.2733	
2	32339.144	9	36309.025-		3969.846	-35	2.5-	2.5	2.5-	2.5	.	.	.565	1.095	1.670	575	.	.	3091.3303	2LNS
1	32339.144	9	6313.866-		38652.990	20	4.0-	4.0	4.0-	4.0	.49	1.09	.60	0.487	1.090*	603	.	.	3091.3303	2LNS
	32338.681	4					.	.	.	.	.	.	.	.	.	.	.	.	3091.3746	
2	32332.752	9	39611.620-		7278.862	-6	3.5-	4.5	3.5-	4.5	1.185	1.545	.355	1.190	1.545*	355	43*	.	3091.9415	
	32331.738	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.0385	
	32330.097	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.1954	
	32328.811	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.3184	
	32328.154	3					.	.	.	.	.	.	.	.	.	.	.	.	3092.3813	
	32327.131	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.4791	
	32326.369	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.5520	
2	32325.969	9	43052.285-		10726.322	6	5.5-	4.5	5.5-	4.5	.	.	.24	1.150	1.391	241	.	.	3092.5903	SO
	32324.007	4					.	.	.	.	.	.	.	.	.	.	.	.	3092.7780	
	32321.737	3					.	.	.	.	.	.	.	.	.	.	.	.	3092.9952	
2	32318.231	7	11504.095-		43822.335	-9	3.5-	2.5	3.5-	2.5	.86	.94	.08	0.859	0.950*	91	-521*	.	3093.3308	
2	32317.684	6	8709.640-		41027.335	-11	.	.	3.5-	4.5	.	.	.59	0.308	0.895	587	.	.	3093.3831	SI
	32316.677	5					.	.	.	.	.	.	.	.	.	.	.	.	3093.4795	
	32316.397	4					.	.	.	.	.	.	.	.	.	.	.	.	3093.5063	
2	32315.890	9	8198.666-		40514.565	-9	2.5-	2.5	2.5-	2.5	.409	.796	.387	0.414	0.800	386	-464*	.	3093.5549	
	32315.592	4					.	.	.	.	.	.	.	.	.	.	.	.	3093.5834	
	32313.777	7					4.5-	5.5	.	.	.	.	.30	.	.	.	.	.	3093.7572	SI
2	32312.952	3	12048.548-		44361.495	5	.	.	1.5-	2.5	.	.	.	-0.054	0.850*	904	.	.	3093.8362	
	32310.973	3					.	.	.	.	.	.	.	.	.	.	.	.	3094.0257	
2	32310.027	9	35545.800-		3235.770	-3	0.5-	0.5	0.5-	0.5	.93	.27	.66	0.961	0.299	662	-175	.	3094.1163	WVL Q
	32309.357	4					.	.	.	.	.	.	.	.	.	.	.	.	3094.1804	
	32309.062	4					.	.	.	.	.	.	.	.	.	.	.	.	3094.2087	
	32306.213	4					.	.	.	.	.	.	.	.	.	.	.	.	3094.4816	
	32303.425	3					.	.	.	.	.	.	.	.	.	.	.	.	3094.7486	
	32302.025	4					.	.	.	.	.	.	.	.	.	.	.	.	3094.8828	
	32300.791	3					.	.	.	.	.	.	.	.	.	.	.	.	3095.0010	
	32299.575	4					.	.	.	.	.	.	.	.	.	.	.	.	3095.1175	
	32299.263	4					.	.	.	.	.	.	.	.	.	.	.	.	3095.1474	
2	32295.964	9	39574.860-		7278.862	-34	5.5-	4.5	5.5-	4.5	.	.	.455	1.070	1.545*	475	.	.	3095.4636	SOO
	32295.066	4					.	.	.	.	.	.	.	.	.	.	.	.	3095.5497	
2	32294.519	5	41536.885-		9242.356	-10	.	.	4.5-	3.5	.	.	.	1.155	1.369	214	.	.	3095.6021	
2	32294.058	6	38012.065-		5717.976	-31	2.5-	3.5	2.5-	3.5	.98	1.60	.62	0.990	1.596*	606	.	.	3095.6463	
	32293.054	3					.	.	.	.	.	.	.	.	.	.	.	.	3095.7426	
	32287.822	4					.	.	.	.	.	.	.	.	.	.	.	.	3096.2442	
2	32287.172	8	41529.540-		9242.356	-12	.	.	4.5-	3.5	.	.	.	1.165	1.369	204	.	.	3096.3066	SO
2	32286.743	9	36256.590-		3969.846	-1	3.5-	2.5	3.5-	2.5	1.11	1.67	.56	1.115	1.670	555	.	.	3096.3477	
	32285.516	4					.	.	.	.	.	.	.	.	.	.	.	.	3096.4654	
2	32285.191	8	34300.160-		2014.966	-3	2.5-	1.5	2.5-	1.5	1.37	1.88	.51	1.370	1.881*	511	.	.	3096.4966	
2	32282.058	3	14295.565-		46577.625	-2	.	.	3.5-	3.5	.	.	.	0.790	0.750*	40	.	.	3096.7971	
	32281.593	3					.	.	.	.	.	.	.	.	.	.	.	.	3096.8417	
2	32280.330	8	44079.570-		11799.241	1	5.5-	5.5	5.5-	5.5	.	.	.295	1.085	1.373	288	.	.	3096.9629	
	32277.167	4					2.0-	3.0	.	.	.	.	.335	.	.	.	.	.	3097.2664	SOO

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	32275.747	8	41518.100-		9242.356	3	2.5-	3.5	2.5-	3.5	1.18	1.39	.21	1.160	1.369	209			3097.4026	SI
	32274.124	3																	3097.5584	
	32270.144	5																	3097.9405	
2	32269.366	9	37771.420-		5502.060	6	1.5-	1.5	1.5-	1.5	1.465	1.175	.290	1.470	1.169*	301			3098.0152	
2	32267.735	7	37985.715-		5717.976	-4	3.5-	3.5	3.5-	3.5	1.195	1.595	.400	1.180	1.596*	416			3098.1717	
	32267.175	4																	3098.2255	
	32265.467	6																	3098.3895	
2	32253.287	4	39542.145-		7278.862	4	.	.	4.5-	4.5	.	.	.	0.985	1.545	560			3098.5989	
	32262.845	4																	3098.6413	
	32259.781	4																	3098.9357	
	32258.963	5																	3099.0142	
	32256.815	5																	3099.2206	
2	32253.890	5	13013.685-		45267.550	25	.	.	5.5-	4.5	.	.	.	0.950	1.045	95			3099.5017	
2	32252.850	7	39531.705-		7278.862	7	3.5-	4.5	3.5-	4.5	1.07	1.545	.48	1.060	1.545	485	-3*		3099.6016	SI
	32251.458	5																	3099.7354	
	32250.994	4																	3099.7800	
	32247.445	3																	3100.1212	
	32241.549	5																	3100.6881	
	32240.928	5																	3100.7479	
	32240.009	5																	3100.8362	
2	32239.462	7	37957.445-		5717.976	-7	2.5-	3.5	2.5-	3.5	1.260	1.595	.335	1.260	1.596*	336			3100.8839	
	32239.072	7											.42*						3100.9264	DJ1
2	32236.206	7	36206.050-		3969.846	2	1.5-	2.5	1.5-	2.5	.87	1.67	.80	0.870	1.670*	800			3101.2021	
2	32235.726	4	40873.960-		8638.233	-1	.	.	5.5-	5.5	.	.	.	1.080	1.514	434			3101.2482	
	32235.111	6																	3101.3074	
2	32233.974	9	39732.360-		7498.364	-2	3.5-	2.5	3.5-	2.5	.	.	.	1.275	1.321	46	-40		3101.4149	
	32233.331	4																	3101.4787	
	32233.032	4																	3101.5075	
2	32230.073	6	42418.545-		10188.463	-4	1.5-	0.5	1.5-	0.5	1.06	2.40	1.34	1.060	2.402*	1342			3101.7917	
	32229.784	3																	3101.8200	
	32228.843	5					4.5-	4.5					.26						3101.9106	
	32225.777	4																	3102.2057	
	32223.984	5																	3102.3783	
	32222.823	3																	3102.4901	
2	32221.562	7	48967.305-		16745.720	-23	3.5-	2.5	3.5-	2.5	1.090	1.670	.580	1.090	1.671	581			3102.6116	
2	32220.117	2	17532.937-		49753.063	-9	.	.	3.5-	3.5	.	.	.	1.238	1.000*	238			3102.7507	
	32219.607	4																	3102.7998	
2	32215.830	3	41458.205-		9242.356	-19	.	.	4.5-	3.5	.	.	.	1.130	1.369	239			3103.1636	
	32215.296	4																	3103.2150	
2	32214.874	4	15657.156-		47872.094	-64	.	.	2.5-	1.5	.	.	.	1.000	0.760*	240			3103.2557	
	32213.630	4																	3103.3755	
2	32212.941	6	41920.925-		9707.980	-4	5.5-	6.5	5.5-	6.5	1.120	1.485	.365	1.120	1.485	365			3103.4419	
2	32205.936	9	39704.305-		7498.364	-5	1.5-	2.5	1.5-	2.5	1.235	1.315	.080	1.220	1.321*	101			3104.1170	
2	32205.772	4	42932.085-		10726.322	9	3.5-	4.5	3.5-	4.5	1.17	1.39	.22	1.170	1.391	221			3104.1328	
	32203.366	3																	3104.3666	
2	32202.926	5	40841.155-		8638.233	4	.	.	5.5-	5.5	.	.	.	1.105	1.514	409			3104.4071	
	32201.488	4																	3104.5458	
2	32196.308	9	35432.095-		3235.770	-17	1.5-	0.5	1.5-	0.5	1.195	.300	.895	1.190	0.299	891			3105.0453	
	32195.862	4																	3105.0883	
2	32195.354	5	40833.605-		8638.233	-18	.	.	4.5-	5.5	.	.	.	1.090	1.514*	424			3105.1373	
	32194.836	5																	3105.1824	
2	32192.405	4	14295.565-		46488.000	-30	.	.	3.5-	2.5	.	.	.	0.790	1.000*	210			3105.4217	
	32186.145	9																	3106.0257	2LNS
2	32186.145	9	37904.140-		5717.976	-19	3.5-	3.5	3.5-	3.5	1.290	1.595	.305	1.275	1.596	321	-34*		3106.0257	2LNS
	32184.939	4																	3106.1421	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	32181.976	5	42908.300-10726.322			-2	5.5-	4.5	5.5-	4.5	.	.	.295	1.105	1.391	286			3106.4281	DJ1
	32180.831	3					.	.	.	.	.	.	.						3106.5387	
	32180.402	4					.	.	.	.	.	.	.						3106.5801	ZR Q
2	32179.131	6	14561.607-46740.710	28			.	.	1.5-	1.5	1.065	1.065		1.149	0.930*	219			3106.7028	
2	32178.659	7	34193.640-2014.966	-15			1.5-	1.5	1.5-	1.5	.955	1.880	.925	0.970	1.881*	911			3106.7483	
	32172.546	3					.	.	.	.	.	.	.						3107.3387	
	32171.030	4					.	.	.	.	.	.	.						3107.4851	
	32169.867	4					.	.	.	.	.	.	.						3107.5975	
	32168.981	3					.	.	.	.	.	.	.						3107.6830	
	32167.091	5					.	.	.	.	.	.	.						3107.8656	
	32166.821	4					.	.	.	.	.	.	.						3107.8917	
2	32165.031	7	42891.360-10726.322			-7	4.5-	4.5	4.5-	4.5	1.17	1.39	.22	1.170	1.391*	221			3108.0647	
	32163.980	3					.	.	.	.	.	.	.						3108.1663	
	32159.833	4					.	.	.	.	.	.	.						3108.5622	
1	32158.370	5	6313.866-38472.240			-4*	4.0-	3.0	4.0-	3.0	.49	1.05	.56	0.487	1.050*	563			3108.7085	
	32155.157	4					.	.	.	.	.	.	.						3109.0191	
2	32154.109	9	41862.090-9707.980			-1	6.5-	6.5	6.5-	6.5	.	.	.345	1.145	1.485	340	58*		3109.1205	
2	32153.413	4	15657.156-47810.565			4	.	.	2.5-	3.5	.	.	.	1.000	1.160	160			3109.1878	
	32150.864	5					.	.	.	.	.	.	.						3109.4343	
2	32150.387	4	46141.340-13990.952			-1	.	.	1.5-	1.5	.	.	.	0.960	1.728*	768			3109.4804	
	32150.070	5					.	.	.	.	.	.	.						3109.5111	
2	32143.706	3	16593.963-48737.664			5	.	.	2.5-	2.5	.	.	.	0.983	0.970*	13			3110.1268	
2	32142.796	6	39421.670-7278.862			-12	4.5-	4.5	4.5-	4.5	.	.	.445	1.100	1.545	445			3110.2148	
	32141.496	5					.	.	.	.	.	.	.						3110.3406	
2	32139.467	4	41381.835-9242.356			-12	.	.	4.5-	3.5	.	.	.	1.145	1.369	224			3110.5370	
2	32138.934	9	37640.995-5502.060			-1	2.5-	1.5	2.5-	1.5	1.320	1.125	.195	1.350	1.169*	181			3110.5886	
	32136.363	3					.	.	.	.	.	.	.						3110.8374	
	32135.757	4					.	.	.	.	.	.	.						3110.8961	
	32129.727	4					.	.	.	.	.	.	.						3111.4800	
	32129.513	3					.	.	.	.	.	.	.						3111.5007	
2	32126.276	9	39405.150-7278.862			-12	3.5-	4.5	3.5-	4.5	1.111	1.545	.434	1.110	1.545	435			3111.8142	
	32125.358	3					.	.	.	.	.	.	.						3111.9031	
	32122.379	3					.	.	.	.	.	.	.						3112.1917	
2	32121.851	5	37839.835-5717.976			-8	3.5-	3.5	3.5-	3.5	1.22	.	.367	1.220	1.596	376			3112.2429	
	32118.061	4					.	.	.	.	.	.	.61						3112.6102	DJ0 2JD6
	32116.479	3					.	.	.	.	.	.	.						3112.7635	
	32115.806	5					.	.	.	.	.	.	.						3112.8287	
	32115.329	5					4.5-	4.5	.	.	.	.	.28						3112.8750	
2	32113.260	5	39611.620-7498.364			4	3.5-	2.5	3.5-	2.5	.	.	.12	1.190	1.321*	131	59*		3113.0755	SO
	32112.588	3					.	.	.	.	.	.	.						3113.1407	
	32112.073	3					.	.	.	.	.	.	.						3113.1906	
2	32111.777	5	43911.020-11799.241			-2	.	.	6.5-	5.5	.	.	.	1.130	1.373	243			3113.2193	
2	32111.290	5	42837.570-10726.322			42	5.5-	4.5	5.5-	4.5	.	.	.15*	1.220	1.391	171			3113.2665	DJ1
	32110.127	3					.	.	.	.	.	.	.						3113.3793	
2	32109.819	3	41352.185-9242.356			-10	.	.	4.5-	3.5	.	.	.	1.225	1.369	144			3113.4091	
	32109.315	4					.	.	.	.	.	.	.21						3113.4580	DJ0 2JD6
	32108.208	3					.	.	.	.	.	.	.						3113.5654	
	32106.342	3					.	.	.	.	.	.	.						3113.7463	
	32106.032	3					.	.	.	.	.	.	.						3113.7764	
	32104.642	3					.	.	.	.	.	.	.						3113.9112	
	32104.216	3					.	.	.	.	.	.	.						3113.9525	
	32102.680	3					.	.	.	.	.	.	.						3114.1015	
	32101.933	3					.	.	.	.	.	.	.						3114.1740	
2	32101.504	3	14476.135-46577.625			14	.	.	4.5-	3.5	.	.	.	1.060	0.750*	310			3114.2156	
	32100.475	3					.	.	.	.	.	.	.						3114.3154	

C	HAVEN	NUMBER	I	T2	-	T1	0-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS 62	OBS 61	OBS D6	TERM 62	TERM 61	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES		
		32099.615	3																		3114.3989		
		32099.024	3																			3114.4562	
		32097.473	3																			3114.6067	
		32094.811	3																			3114.8651	
		32094.455	3																			3114.8996	
		32093.337	3																			3115.0081	
		32092.402	3																			3115.0989	
2		32092.023	7	39370.905-		7278.862	-20	5.5-	4.5	5.5-	4.5			.388	1.160	1.545*	385		-14*		3115.1357	S00	
		32091.777	3																			3115.1596	
		32091.221	3																			3115.2135	
2		32090.590	9	36060.445-		3969.846	-9	1.5-	2.5	1.5-	2.5	1.52	1.66	.14	1.520	1.670*	150		-3		3115.2748		
2		32089.149	4	37807.135-		5717.976	-10	.	.	3.5-	3.5				1.090	1.596*	506		-85*		3115.4147		
2		32087.513	3	13013.685-		45101.220	-22	.	.	5.5-	5.5				0.950	1.060*	110				3115.5735		
		32086.760	3																			3115.6467	
		32086.267	3																			3115.6945	
		32085.923	3																			3115.7279	
2		32085.461	4	12048.548-		44134.025	-16	.	.	1.5-	0.5				-0.054	1.620	1674				3115.7728		
2		32083.302	5	39352.185-		7278.862	-21	4.5-	4.5	4.5-	4.5			.48	1.075	1.545	470				3115.9825	DJ0	
		32081.528	3																			3116.1548	
		32080.903	3																			3116.2155	
		32079.844	5											1.24								3116.3184	DJ0 2JD6
2		32078.740	9	37580.805-		5502.060	-5	2.5-	1.5	2.5-	1.5	1.21	1.17	.04	1.215	1.169	46		24*		3116.4256		
		32078.230	3																			3116.4752	
2		32076.702	5	12992.644-		45069.320	26	2.5-	2.5	2.5-	2.5	.64	.73	.090	0.643	0.730*	87				3116.6236		
2		32075.694	4	39574.070-		7478.364	-12	.	.	2.5-	2.5				0.990	1.321*	331				3116.7216	C2	
1		32075.694	4	6313.866-		35359.560	0	.	.	4.0-	4.0				0.487	1.070	583		-199*		3116.7216	C2	
		32074.810	3																			3116.8075	
		32074.281	3																			3116.8589	
2		32073.718	9	34088.695-		2014.966	-11	2.5-	1.5	2.5-	1.5			.538	1.340	1.881	541		-45*		3116.9136		
		32073.183	5																			3116.9656	
		32072.794	3																			3117.0034	
		32071.668	4																			3117.1129	
		32071.214	3																			3117.1570	
		32070.947	3																			3117.1829	
2		32068.610	6	39566.980-		7498.364	-6	.	.	1.5-	2.5				1.180	1.321*	141				3117.4101		
		32068.308	5																			3117.4395	
		32068.053	6																			3117.4643	
		32067.345	3																			3117.5331	
		32066.901	4																			3117.5763	
		32066.630	3																			3117.6026	
		32065.968	3																			3117.6670	
		32065.635	3																			3117.6993	
2		32065.085	5	11504.095-		43569.180	0	3.5-	3.5	3.5-	3.5			.14	0.859	1.005	146				3117.7528		
2		32063.988	3	12992.644-		45056.650	-18	.	.	2.5-	2.5				0.643	1.030	387				3117.8595		
		32063.621	3																			3117.8952	
2		32062.846	9	34077.830-		2014.966	-18	1.5-	1.5	1.5-	1.5		1.88	.230	1.650	1.881	231		-96*		3117.9706		
2		32062.208	9	41770.185-		9707.980	3	6.5-	6.5	6.5-	6.5			.395	1.090	1.485	395				3118.0326		
		32061.704	5																			3118.0816	
		32060.092	3																			3118.2384	
		32059.828	3																			3118.2641	
		32059.093	3																			3118.3356	
		32058.573	3																			3118.3862	
		32058.112	7																			3118.4310	
2		32056.572	7	36026.425-		3969.846	-7	2.5-	2.5	2.5-	2.5				1.344	1.670	326				3118.5808		
2		32056.137	6	41764.120-		9707.980	-3	.	.	5.5-	6.5				1.080	1.485	405				3118.6231		

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	32055.320	9	41763.300-	9707.920	0	6.5-	6.5	6.5-	6.5	1.120	1.485	.365	1.125	1.485	360			3118.7026	
	32054.467	3																3118.7856	
	32053.665	3																3118.8637	
	32052.301	5																3118.9964	
	32051.372	4																3119.0868	
2	32050.220	4	14295.565-	46345.820	25	.	.	3.5-	4.5	.	.	.	0.790	1.030	240			3119.1931	
	32050.032	3																3119.2172	
	32049.687	3																3119.2508	
	32048.954	3																3119.3221	
	32048.241	4																3119.3915	
2	32047.820	9	43847.065-	11799.241	-4	5.5-	5.5	5.5-	5.5	1.120	1.375	.255	1.120	1.373	253			3119.4325	
	32046.998	4																3119.5125	
2	32045.811	3	8709.640-	40755.465	-14	.	.	3.5-	2.5	.	.	.	0.308	0.800	492			3119.6281	
	32045.551	3																3119.6534	
	32044.971	3																3119.7099	
	32044.365	4																3119.7689	
	32043.847	3																3119.8193	
2	32041.779	9	32041.795-	0.000	-16	1.5-	0.5	1.5-	0.5	.98	3.14	2.16	0.981	3.150	2169		-130	3120.0207	
	32040.097	3																3120.1844	
	32038.085	3																3120.3804	
2	32037.489	9	35273.260-	3235.770	-1	1.5-	0.5	1.5-	0.5	.865	.300	.565	0.865	0.299	566			3120.4385	
1	32036.639	4	34240.242-	2203.606	3	.	.	2.0-	1.0	.	.	.	1.190	1.495*	305		2*	3120.5213	
	32035.912	3																3120.5921	
	32035.584	3																3120.6240	
2	32035.098	7	43834.325-	11799.241	14	5.5-	5.5	5.5-	5.5	.	.	.270	1.090	1.373*	283			3120.6714	
	32034.305	4																3120.7486	
	32033.641	9								1.20	1.20							3120.8133	2LNSQ ZQ
2	32033.641	9	34068.700-	2014.966	-93	0.5-	1.5	0.5-	1.5	.38	1.88	1.50	0.400	1.881*	1481			3120.8133	2LNSQ
2	32033.329	5	39531.705-	7498.364	48	.	.	3.5-	2.5	.	.	.31	1.060	1.321	261		13*	3120.8379	2LNS
2	32033.329	5	37535.410-	5502.060	39*	.	.	2.5-	1.5	1.19	1.19		1.140	1.169	29			3120.8379	2LNS
	32032.526	4																3120.9219	
	32031.855	3																3120.9873	
	32031.455	3																3121.0263	
	32030.819	3																3121.0883	
2	32030.604	3	15098.815-	47129.430	-11	.	.	1.5-	2.5	.	.	.	1.079	0.920	159			3121.1092	
2	32029.743	3	17073.340-	49103.065	18	.	.	1.5-	2.5	.	.	.	0.576	0.955	379			3121.1931	
	32029.269	3																3121.2393	
	32027.102	3																3121.4505	
	32026.178	3																3121.5406	
1	32025.666	4	6313.866-	38339.550	-18*	.	.	4.0-	4.0	.	.	.	0.487	1.070*	583		-191	3121.5905	
2	32025.408	7	40663.645-	8638.233	-4	5.5-	5.5	5.5-	5.5	.	.	.373	1.145	1.514	369			3121.6156	
	32024.611	3																3121.6933	
2	32023.780	3	43823.020-	11799.241	1	.	.	4.5-	5.5	.	.	.	1.235	1.373	138			3121.7743	
2	32023.319	6	35993.175-	3969.846	-10	2.5-	2.5	2.5-	2.5	.	.	.675	0.990	1.670*	680		50*	3121.8193	
	32022.984	3																3121.8519	
	32022.148	3																3121.9334	
	32021.558	4																3121.9910	
	32020.479	3																3122.0962	
	32020.266	3																3122.1169	
	32019.929	4																3122.1498	
2	32019.169	4	14295.565-	46314.760	-26	.	.	3.5-	3.5	.	.	.	0.790	1.055	265			3122.2239	
	32018.033	3																3122.3347	
2	32017.519	7	37735.495-	5717.976	0	3.5-	3.5	3.5-	3.5	.	.	.498	1.090	1.596	506			3122.3848	
	32016.370	3																3122.4969	
	32015.804	3																3122.5521	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	32014.012	4																3122.7269	
	32010.473	3																3123.0721	
2	32009.016	3	14295.565-46304.585	-4		.	.	3.5-	2.5				0.790	0.980*	190			3123.2143	
2	32008.458	7	8138.666-40207.135	-11		2.5-	2.5	2.5-	2.5	.415	1.020	.605	0.414	1.020*	606			3123.2687	
2	32007.627	5	42733.945-10726.322	4		.	.	4.5-	4.5				1.090	1.391	301			3123.3498	
	32007.377	3																3123.3742	
	32006.624	4																3123.4477	
	32005.482	3																3123.5592	
	32004.450	3																3123.6599	
	32004.140	3																3123.6901	
	32003.680	3																3123.7350	
	32003.245	3																3123.7775	
	32002.779	3																3123.8230	
2	32002.364	9	37720.350- 5717.976	-10		4.5-	3.5	4.5-	3.5	1.143	1.59	.453	1.145	1.596	451	37		3123.8635	
2	32000.854	9	40639.100- 8638.233	-13		4.5-	5.5	4.5-	5.5	1.29	1.52	.23	1.310	1.514	204			3124.0109	
	32000.358	4																3124.0593	
	31999.571	4																3124.1362	
	31999.427	4																3124.1502	
	31998.632	3																3124.2279	
	31998.193	3																3124.2707	
	31997.581	3																3124.3305	
	31994.324	5										SHL						3124.6485	DJ1
2	31993.276	6	42719.590-10726.322	8		5.5-	4.5	5.5-	4.5	1.18	1.39	.21	1.185	1.391	206			3124.7509	
	31991.877	3																3124.8876	
	31991.468	4																3124.9275	
	31991.103	4				5.5-	5.5					191						3124.9632	JQ 2J06
	31989.475	3																3125.1222	
	31988.996	3																3125.1690	
	31988.491	3																3125.2193	
	31988.249	3																3125.2420	
	31985.771	3																3125.4841	
	31984.292	3																3125.6286	
	31984.112	3																3125.6462	
2	31983.736	6	39262.620- 7278.862	-22		3.5-	4.5	3.5-	4.5	.955	1.545	.590	0.950	1.545	595			3125.6830	
1	31982.870	3	9336.801-41369.665	6		.	.	5.0-	4.0				0.801	1.120*	319			3125.7676	
2	31982.212	4	41690.195- 9707.980	-3		.	.	6.5-	6.5				1.090	1.485	395			3125.8319	
	31981.511	4																3125.9004	DJ0
	31981.305	4																3125.9206	
	31979.900	3																3126.0579	
2	31979.451	4	41221.810- 9242.356	-3		.	.	4.5-	3.5				1.180	1.369	189			3126.1018	
	31979.205	3																3126.1259	
2	31978.646	4	16499.640-48478.270	16		.	.	3.5-	3.5				0.773	0.970	197			3126.1805	DJ0
	31977.603	4																3126.2825	
	31976.916	3																3126.3496	
	31976.624	3																3126.3782	
	31974.701	3																3126.5662	
	31974.480	3																3126.5878	
	31973.259	3																3126.7072	
2	31972.918	6	42699.235-10726.322	5		4.5-	4.5	4.5-	4.5			.195	1.195	1.391	196			3126.7406	
2	31972.252	3	43771.490-11799.241	3		.	.	4.5-	5.5				1.045	1.373	328			3126.8057	
	31971.731	3																3126.8567	
	31971.430	4																3126.8861	
2	31971.254	5	39250.070- 7278.862	46		.	.	4.5-	4.5				1.155	1.545	390			3126.9033	B
1	31971.254	5	6313.866-38285.120	0		4.0-	5.0	4.0-	5.0	.485	1.145	.655	0.487	1.145	658			3126.9033	B
	31970.795	3																3126.9482	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	31970.643	3																		
	31970.393	3																		3126.9631
2	31966.819	7	39465.195-	7498.364	-12	2.5-	2.5	2.5-	2.5	1.070	1.315	.245	1.070	1.321	251				3126.9875	
2	31964.155	3	10436.770-	42400.935	-10	. -	.	4.5-	4.5				0.724	1.000*	276				3127.3372	
1	31953.914	4	8768.139-	40732.070	-17	. -	.	2.0-	2.0			.673	0.362	1.040*	678				3127.5978	
	31961.538	3																		3127.6214
	31961.321	3																		3127.8539
	31960.760	3																		3127.8752
	31960.254	3																		3127.9301
	31957.885	3																		3127.9796
	31956.658	3																		3128.2115
	31956.370	3																		3128.3306
	31955.304	3																		3128.3598
	31952.166	3																		3128.4641
	31951.879	3																		3128.7714
	31951.055	3																		3128.7995
	31949.246	3																		3128.8802
	31948.051	5																		3129.0574
2	31947.462	9	37665.440-	5717.976	-2	4.5-	3.5	4.5-	3.5			.490	1.105	1.596	491		-56*		3129.1744	
	31946.462	6																		3129.2321
	31944.803	3																		3129.3301
	31944.445	3																		3129.4926
	31942.077	4											.13							3129.5276
2	31940.698	9	41183.055-	9242.356	-1	3.5-	3.5	3.5-	3.5	1.100	1.370	.270	1.100	1.369	269				3129.7597	
	31938.184	3																		3129.8948
2	31937.621	8	37439.680-	5502.060	1	. -	.	0.5-	1.5	1.20	1.20		1.110	1.169*	59				3130.1412	
	31937.148	3																		3130.1963
2	31936.663	3	17296.905-	49233.475	93	. -	.	4.5-	3.5				0.494	0.980*	486				3130.2427	
	31936.312	3																		3130.2902
2	31934.898	3	13809.910-	45744.825	-17	. -	.	4.5-	3.5				0.657	0.000*	0				3130.3247	
	31933.457	3																		3130.4633
	31933.232	3																		3130.6045
2	31932.892	9	35902.735-	3969.846	3	1.5-	2.5	1.5-	2.5	1.61	1.67	.06	1.605	1.670	65		16		3130.6266	
	31931.479	3																		3130.6599
	31930.972	3																		3130.7985
1	31930.554	3	36230.220-	4299.659	-7	. -	.	2.0-	2.0				1.200	1.482*	282		-1		3130.8482	
	31928.806	5				3.5-	2.5					.25								3130.8892
	31928.243	3																		3130.6045
	31926.012	3																		3130.6266
	31925.740	3																		3130.6599
	31925.224	3																		3130.7985
2	31923.026	4	37640.995-	5717.976	7	. -	.	2.5-	3.5				1.350	1.596*	246				3130.8482	
1	31922.716	3	31922.720-	0.000	-4	. -	.	1.0-	0.0				1.278	0.000	0		35*		3130.8892	
	31922.226	3																		3131.0606
	31921.291	3																		3131.1158
	31920.085	3																		3131.3346
	31919.300	7								1.088										3131.3613
2	31918.492	6	35838.345-	3969.846	-7	2.5-	2.5	2.5-	2.5	.95	1.67	.715	0.965	1.670	705		85*		3131.4119	
1	31918.162	4	39692.853-	7774.653	-38	. -	.	3.0-	4.0				1.025	1.463	438		-174*		3131.6275	
	31918.050	4																		3131.6579
2	31916.972	9	31916.975-	0.000	-3	1.5-	0.5	1.5-	0.5	1.36	3.15	1786	1.363	3.150	1787		26*		3131.7060	
	31916.548	3																		3131.7977
	31915.673	3																		3131.9161
	31915.232	3																		3131.9931
	31914.775	4																		3132.0724
																				3132.0724
																				3132.1048
																				3132.1157
																				3132.2215
																				3132.2631
																				3132.3490
																				3132.3923
																				3132.4372

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	31914.413	3																		
	31913.163	7											.57							3132.4727
2	31910.325	3		16593.963-48504.345	3	2.5-	2.5	2.5-	2.5	.98	.79	.192	0.983	0.790*	193				3132.5954	DJ0 2JD6
	31909.118	3																		3132.8681
	31908.476	3																		3132.9925
	31908.279	3																		3133.0556
	31907.457	3																		3133.0749
2	31906.946	7		39185.820- 7278.862	-12	5.5-	4.5	5.5-	4.5	1.315	1.545	.235	1.313	1.545	232				3133.1556	
2	31906.815	9		39405.150- 7498.364	29	3.5-	2.5	3.5-	2.5	1.11	1.32	.210	1.110	1.321	211				3133.2058	
	31906.521	3																		3133.2187
	31905.127	3																		3133.2475
2	31904.702	3		12048.548-43953.290	-40	.	.	1.5-	1.5	.	.	.	-0.054	1.510	1564				3133.3844	
	31904.412	3																		3133.4262
	31904.129	3																		3133.4547
2	31900.497	9		8198.666-40099.165	-2	2.5-	2.5	2.5-	2.5	.	.	.54	0.414	0.950*	536				3133.4825	
2	31900.102	9		41608.075- 9707.980	7	6.5-	6.5	6.5-	6.5	1.090	1.485	.395	1.095	1.485	390				3133.8392	
2	31897.168	5		14295.565-46192.700	33	.	.	3.5-	3.5	.	.	.	0.790	0.950	160				3133.8780	
	31896.140	3																		3134.1663
2	31895.167	3		43694.395-11799.241	13	.	.	5.5-	5.5	.	.	.	1.130	1.373	243				3134.2673	
2	31894.233	7		39173.105- 7278.862	-5	4.5-	4.5	4.5-	4.5	.	.	.505	1.035	1.545*	510				3134.3629	
1	31894.238	7		8768.139-40662.380	-3	2.0-	3.0	2.0-	3.0	.	.	.	0.362	1.050	688				3134.4542	
	31893.123	3																		2LNS
2	31892.019	3		35861.855- 3969.846	10	.	.	3.5-	2.5	.	.	.	1.155	1.670	515				3134.5638	
1	31891.222	5		6313.866-38204.990	98	4.0-	3.0	4.0-	3.0	.485	1.085	.600	0.487	1.085	598				3134.6723	
2	31391.222	5		41133.595- 9242.356	-17	3.5-	3.5	3.5-	3.5	1.195	1.365	.17	1.195	1.369	174				3134.7507	
	31887.458	3																		2LNS
	31887.246	3																		3135.1207
	31886.312	4																		3135.1416
	31885.807	4																		3135.2334
	31885.643	3																		3135.2831
2	31834.346	4		16593.963-48478.270	39	.	.	2.5-	3.5	.	.	.	0.983	0.970	13				3135.2992	
	31882.759	4																		3135.4267
2	31881.926	5		35117.695- 3235.770	1	.	.	1.5-	0.5	.	.	.	1.505	0.299	1206				3135.5828	
	31881.192	3																		3135.6647
2	31880.817	7		42607.125-10726.322	14	4.5-	4.5	4.5-	4.5	1.13	1.39	.26	1.130	1.391	261				3135.7369	
	31879.069	3																		3135.7738
2	31877.375	9		33892.325- 2014.966	16	0.5-	1.5	0.5-	1.5	1.22	1.88	.66	1.220	1.881	661				3135.9517	
	31877.179	5																		3136.1124
	31876.709	3																		3136.1317
2	31875.153	6		13809.910-45685.090	8	4.5-	4.5	4.5-	4.5	.655	.960	.305	0.657	0.955	298				3136.1780	
	31874.224	4																		3136.3276
1	31872.549	4		6313.866-38186.420	-5	4.0-	5.0	4.0-	5.0	.	.	.47	0.487	0.952	465				3136.4225	
2	31869.702	3		14476.135-46345.820	17	.	.	4.5-	4.5	.	.	.	1.060	1.030	30				3136.5873	
	31868.917	4																		3136.8675
2	31868.733	6		42595.005-10726.322	50	4.5-	4.5	4.5-	4.5	1.120	1.390	.270	1.115	1.391	276				3136.9448	
	31867.270	3																		3136.9629
	31864.017	3																		3137.1069
	31863.252	3																		3137.4272
2	31862.855	9		37580.805- 5717.976	26	2.5-	3.5	2.5-	3.5	1.225	1.590	.365	1.215	1.596	381				3137.5025	
2	31861.959	3		42050.415-10188.463	7	.	.	1.5-	0.5	.	.	.	1.180	2.402*	1222				3137.5416	
2	31861.558	3		15178.115-47039.640	33	.	.	0.5-	1.5	.	.	.	-0.085	1.020*	1105				3137.6299	
	31861.113	5																		3137.6693
2	31860.367	4		12992.644-44853.015	-4	.	.	2.5-	2.5	.	.	.	0.643	0.920*	277				3137.7132	
2	31860.225	5		37362.265- 5502.050	20	.	.	1.5-	1.5	.	.	.	1.215	1.169	46				3137.7866	
1	31860.225	5		9386.801-41247.030	-4	.	.	5.0-	4.0	.	.	.	0.801	1.065	264				3137.8006	
																				C2
																				C2

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	31854.883	3															3138.3268	
2	31852.975	9	40491.205-	8638.233	3	4.5-	5.5	4.5-	5.5	1.148	1.512	.364	1.155	1.514	359		3138.5148	SI
2	31852.586	9	33867.535-	2014.966	17	1.5-	1.5	1.5-	1.5	1.67	1.88	.21	1.670	1.881*	211	24	3138.5532	
2	31851.321	4	16352.000-	48213.315	6	.	.	4.5-	3.5	.	.	.	1.050	1.040*	10		3138.6778	ZR Q
	31350.355	3															3138.7730	
2	31849.023	4	42575.325-	10726.322	20	.	.	5.5-	4.5	.	.	.	1.090	1.391	301		3138.9043	
2	31848.439	9	39127.295-	7278.862	6	5.5-	4.5	5.5-	4.5	.	.	.34	1.179	1.545	366	43*	3138.9619	SO
1	31848.197	6	9336.801-	41234.990	8	5.0-	4.0	5.0-	4.0	.	.	.285	0.801	1.080	279	-243	3138.9857	SO
	31847.761	3															3139.0287	
	31847.553	3															3139.0492	
2	31846.036	6	37564.000-	5717.976	12	4.5-	3.5	4.5-	3.5	.	.	.47	1.120	1.596*	476		3139.1987	
	31842.555	3															3139.5419	
	31842.422	4															3139.5550	
2	31841.033	3	16499.640-	48340.695	-22	.	.	3.5-	4.5	.	.	.	0.773	1.260*	487		3139.6920	
2	31840.389	3	15641.100-	47481.485	4	.	.	3.5-	3.5	.	.	.	1.040	1.000*	40		3139.7555	
2	31839.708	9	8198.666-	40038.370	4	2.5-	1.5	2.5-	1.5	.40	.40	.	0.414	0.440*	26		3139.8226	
	31839.174	4															3139.8753	
2	31838.640	5	39336.975-	7498.364	29	1.5-	2.5	1.5-	2.5	.78	1.32	.54	0.780	1.321*	541		3139.9280	SI
	31838.293	3															3139.9622	
	31835.523	3															3140.2354	
1	31834.532	9	6313.866-	38148.375	23	4.0-	3.0	4.0-	3.0	.	.	.20	0.487	0.690	203		3140.3332	PB
	31833.563	3															3140.4288	
	31832.447	6H										1.40					3140.5389	DJO 2JOG
	31831.992	3															3140.5838	
	31831.696	3															3140.6130	
	31830.522	3															3140.7288	
	31829.700	4															3140.8099	
	31829.373	4															3140.8422	
	31828.006	3															3140.9771	
1	31826.524	6	6313.866-	38140.400	-10	4.0-	3.0	4.0-	3.0	.48	1.12	.637	0.487	1.120*	633		3141.1234	PB
2	31826.350	9	8198.666-	40025.010	6	2.5-	3.5	2.5-	3.5	.412	.900	.488	0.414	0.900	486	-606	3141.1405	
	31825.798	3															3141.1950	
	31825.286	3															3141.2455	
2	31824.282	3	15657.156-	47481.485	-47	.	.	2.5-	3.5	.	.	.	1.000	1.000	0		3141.3447	
2	31823.041	3	13013.685-	44836.670	56	.	.	5.5-	4.5	.	.	.	0.950	1.085	135		3141.4672	
	31822.102	4				2.0-	3.0			.	.	.69					3141.5599	JQ
	31821.951	4															3141.5748	
	31821.755	3															3141.5941	
	31821.520	3															3141.6173	
	31820.263	3															3141.7414	
	31820.038	3															3141.7636	
2	31817.446	9	37535.410-	5717.976	12*	2.5-	3.5	2.5-	3.5	.	.	.44	1.140	1.596	456		3142.0196	SI
	31815.010	3															3142.2602	
	31814.541	3															3142.3065	
2	31813.780	3	39092.590-	7278.862	52	.	.	3.5-	4.5	.	.	.	1.180	1.545	365		3142.3817	
	31813.271	3															3142.4320	
2	31810.917	3	14221.716-	46032.640	-7	.	.	0.5-	1.5	.	.	.	-0.108	0.000*	0		3142.6645	
	31809.876	3															3142.7674	
	31809.498	3															3142.8047	
	31808.954	3															3142.8585	
	31808.679	3															3142.8856	
	31808.053	3															3142.9475	
	31807.138	3															3143.0379	
	31806.763	4															3143.0750	
2	31805.813	3	16593.963-	48399.780	-4	.	.	2.5-	3.5	.	.	.	0.983	0.950	33		3143.1688	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	31805.479	9	33920.430-		2014.965	15	1.5-	1.5	1.5-	1.5	.	.	.465	1.410	1.881	471			3143.2018	
2	31804.929	5	8769.640-40514.565			4	.	.	3.5-	2.5	.	.	.	0.308	0.800	492			3143.2562	
2	31804.420	3	17296.905-49101.235			40	.	.	4.5-	4.5	.	.	.	0.494	1.050*	556			3143.3065	
2	31803.864	4	48967.305-17163.470			29	.	.	3.5-	4.5	.	.	.	1.090	1.200	110			3143.3615	
	31803.546	3					.	.			.	.	.						3143.3929	
	31803.214	4					.	.			.	.	.						3143.4257	
2	31802.726	9	39081.580-		7278.862	8	4.5-	4.5	4.5-	4.5	.	.	.330	1.207	1.545	338			3143.4739	
	31802.167	4					.	.			.	.	.						3143.5292	
	31800.864	4					.	.			.	.	.						3143.6580	
	31800.559	3					.	.			.	.	.						3143.6882	
	31799.917	3					.	.			.	.	.						3143.7516	
	31798.800	3					.	.			.	.	.						3143.8621	
	31798.531	3					.	.			.	.	.						3143.8887	
	31796.378	3					.	.			.	.	.						3144.1016	
	31795.277	5					.	.			.	.	.						3144.2104	
2	31794.926	5	15098.815-46893.745			-4	1.5-	1.5	1.5-	1.5	1.075	.680	.395	1.079	0.670*	409			3144.2451	
	31793.215	3					.	.			.	.	.						3144.4144	
	31792.330	3					.	.			.	.	.						3144.5019	
	31792.099	3					.	.			.	.	.						3144.5247	
2	31790.814	8	39289.160-		7498.364	18	2.5-	2.5	2.5-	2.5	1.020	1.315	.30	1.020	1.321	301			3144.6519	
	31790.130	4					.	.			.	.	.						3144.7195	
2	31788.956	5	40427.120-		8638.233	9	.	.	4.5-	5.5	.	.	.	1.165	1.514	349			3144.8357	
2	31788.370	9	8709.640-40498.010			0	3.5-	4.5	3.5-	4.5	.305	.860	.553	0.308	0.860*	552			3144.8936	SI
2	31787.655	7	40425.890-		8538.233	-2	5.5-	5.5	5.5-	5.5	1.13	.	.38	1.130	1.514	384			3144.9644	
2	31787.323	3	42513.590-10726.322			55	.	.	5.5-	4.5	.	.	.	1.115	1.391	276			3144.9972	
	31787.092	3					.	.			.	.	.						3145.0201	
1	31786.611	3	9386.801-41173.380			32*	.	.	5.0-	4.0	.	.	.	0.801	1.150	349			3145.0677	
	31785.860	3					.	.			.	.	.						3145.1420	
	31784.800	3					.	.			.	.	.						3145.2469	
	31784.002	3					.	.			.	.	.						3145.3258	
	31783.118	3					.	.			.	.	.						3145.4133	
	31781.616	3					.	.			.	.	.						3145.5620	
	31779.870	3					.	.			.	.	.						3145.7348	
2	31779.352	9	37281.410-		5502.060	2	0.5-	1.5	0.5-	1.5	.72	1.17	.45	0.730	1.169*	439			3145.7861	GQ 2J06
2	31778.965	5	39057.820-		7278.862	7	.	.	4.5-	4.5	.	.	.	1.156	1.545	389			3145.8244	
2	31778.581	5	31778.615-		0.000	-34	.	.	0.5-	0.5	.	.	.	2.897	3.150	253			3145.8624	
2	31778.246	9	39057.100-		7278.852	8	3.5-	4.5	3.5-	4.5	1.220	1.545	.325	1.220	1.545	325			3145.8956	
	31777.849	5					.	.			.	.	.						3145.9349	
	31777.475	4					.	.			.	.	.						3145.9719	
	31776.023	3					.	.			.	.	.						3146.1157	
	31775.121	3					.	.			.	.	.						3146.2050	
2	31773.789	9	12046.548-43322.335			2	1.5-	2.5	1.5-	2.5	-0.055	.95	1005	-0.054	0.950*	1004			3146.3369	
	31773.551	3					.	.			.	.	.						3146.3604	
	31771.477	3					.	.			.	.	.						3146.5658	
1	31771.182	3	33974.800-		2203.606	-12	.	.	2.0-	1.0	.	.	.	1.110	1.495*	385			3146.5951	
	31768.962	3					.	.			.	.	.						3146.8150	
	31766.777	4					.	.			.	.	.68						3147.0314	DJ0 2J06
	31766.422	3					.	.			.	.	.						3147.0666	
	31765.990	3					.	.			.	.	.						3147.1094	
2	31762.391	8	40400.610-		8638.233	14	6.5-	5.5	6.5-	5.5	1.18	1.52	.34	1.180	1.514*	334			3147.4660	S00
	31761.514	4					.	.			.	.	.						3147.5529	
	31757.274	4					.	.			.	.	.						3147.9732	
	31756.606	3					.	.			.	.	.						3148.0394	
	31754.945	3					.	.			.	.	.						3148.2040	
	31753.572	4					.	.			.	.	.						3148.3402	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	31749.936	9	41457.915-	9707.980	1	6.5-	6.5	6.5-	6.5	1.100	1.485	.380	1.100	1.485*	385					3148.7007		
	31749.429	4																			3148.7451	
	31749.279	4																			3148.7659	
2	31749.107	5	42475.410-	10726.322	19	.	.	4.5-	4.5						1.140	1.391	251				3148.7830	
	31743.769	3																			3148.8224	
	31748.490	4																			3148.8442	
	31746.954	6																			3148.9925	DJO
	31745.740	3																			3149.1169	
	31744.976	3																			3149.1927	
	31744.593	3																			3149.2317	
	31744.053	3																			3149.2838	
2	31743.432	4	41451.460-	9707.980	-43	.	.	5.5-	6.5						1.280	1.485	205	-252*			3149.3459	CQ
	31741.763	5																			3149.5115	
2	31741.449	8	13809.910-	45551.330	29	4.5-	5.5	4.5-	5.5					.41	0.657	1.060*	403				3149.5427	SI
	31740.064	3																			3149.6801	
	31739.852	3																			3149.7011	
	31739.508	3																			3149.7353	
	31738.738	4												.57							3149.8117	DJO 2JOG
	31738.022	3																			3149.8828	
	31737.708	3																			3149.9139	
2	31736.289	4	41444.280-	9707.980	-11	.	.	5.5-	6.5						1.065	1.485	420				3150.0548	
	31736.072	3																			3150.0763	
	31735.271	3																			3150.1558	
	31734.476	4																			3150.2347	
	31733.906	3																			3150.2913	
	31731.247	4						3.5-	3.5					1.47							3150.5553	DJOJQ2JD
2	31730.486	5	37232.550-	5502.060	-4	2.5-	1.5	2.5-	1.5	.985	1.170	.23	0.985	1.169	184						3150.6309	SO
	31730.218	3																			3150.6575	
	31728.704	3																			3150.8078	
	31726.659	3																			3151.0109	
	31725.070	3																			3151.1688	
	31724.591	3																			3151.2164	
2	31723.599	4	40965.950-	9242.356	5	3.5-	3.5	3.5-	3.5						1.105	1.369	264				3151.3149	DJO JQ
2	31723.256	3	14476.135-	46199.395	-4	.	.	4.5-	3.5						1.060	0.955	105				3151.3490	
	31722.057	7								2.866		.335									3151.4681	f SI DGQ
2	31722.057	7	37440.110-	5717.976	-77	.	.	4.5-	3.5						1.125	1.596	471				3151.4681	CQ 2LNQ
	31721.709	3																			3151.5027	
	31721.240	3																			3151.5493	
	31719.576	4																			3151.7146	
	31718.630	4																			3151.8086	
2	31718.341	9	38997.205-	7278.862	-2	5.5-	4.5	5.5-	4.5	1.075	1.545	.47	1.073	1.545	472			189			3151.8373	SOO
	31717.695	3																			3151.9015	
	31716.173	3																			3152.0528	
	31715.357	4																			3152.1339	
	31715.067	5																			3152.1627	
2	31714.543	4	15098.815-	46813.350	-2	.	.	1.5-	2.5						1.079	1.070*	9				3152.2148	
2	31714.283	6	14295.565-	46009.840	8	.	.	3.5-	4.5						0.790	1.050	260				3152.2406	
2	31713.288	4	12992.644-	44705.905	27	.	.	2.5-	3.5						0.643	0.950*	307				3152.3395	
	31712.693	3																			3152.3987	
2	31708.812	5	40951.155-	9242.356	13	2.5-	3.5	2.5-	3.5	1.015	1.370	.355	1.015	1.369	354						3152.7845	
	31707.563	3																			3152.9087	
	31707.279	3																			3152.9370	
2	31706.121	9	40344.355-	8638.233	-1	5.5-	5.5	5.5-	5.5			.350	1.165	1.514	349			-111*			3153.0521	
	31705.110	3																			3153.1527	
	31704.871	3																			3153.1764	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	31700.542	3	17532.937	-	49233.475	4	.	.	3.5-	3.5	.	.	.	1.238	0.980*	258	.	.	3153.6071	
	31699.041	3					.	.			.	.	.				.	.	3153.7564	
	31698.267	3					.	.			.	.	.				.	.	3153.8334	
2	31696.903	6	8709.640	-	40406.550	-2	3.5-	4.5	3.5-	4.5	.305	1.080	.78	0.308	1.090*	782	.	.	3153.9686	
2	31696.627	9	41404.605	-	9707.980	2	6.5-	6.5	6.5-	6.5	1.080	1.485	.405	1.080	1.485	405	.	.	3153.9966	
	31692.632	3					.	.			.	.	.				.	.	3154.3942	
	31691.608	3					.	.			.	.	.				.	.	3154.4961	
	31691.275	3					.	.			.	.	.				.	.	3154.5292	
	31690.698	3					.	.			.	.	.				.	.	3154.5867	
	31689.777	5					.	.			1.08	.	.08				.	.	3154.6784	fDJ02JD6
	31689.190	3					.	.			.	.	.				.	.	3154.7368	
2	31683.871	9	39187.220	-	7498.364	15	2.5-	2.5	2.5-	2.5	.	.	.145	1.170	1.321*	151	.	.	3154.7686	
	31688.120	3					.	.			.	.	.				.	.	3154.8433	
	31685.935	3					.	.			.	.	.				.	.	3155.0609	
	31683.381	5					.	.			.	.	.				.	.	3155.3152	
	31681.288	3					.	.			.	.	.				.	.	3155.5237	
1	31680.958	4	33884.565	-	2203.606	-1	1.0-	1.0	1.0-	1.0	1.04	1.49	.45	1.040	1.495*	455	.	.	3155.5566	
2	31680.519	3	13009.910	-	45490.434	-5	.	.	4.5-	4.5	.	.	.	0.657	1.065	408	.	.	3155.6003	
	31680.138	3					.	.			.	.	.				.	.	3155.6382	
	31679.764	3					.	.			.	.	.				.	.	3155.6755	ZR Q
	31679.335	3					.	.			.	.	.				.	.	3155.7182	
	31678.698	3					.	.			.	.	.				.	.	3155.7817	
2	31678.155	4	14476.135	-	46154.290	0	.	.	4.5-	3.5	.	.	.	1.060	1.090*	30	.	.	3155.8358	
	31677.991	3					.	.			.	.	.				.	.	3155.8521	
2	31676.950	9	38955.805	-	7278.862	7	3.5-	4.5	3.5-	4.5	1.16	1.56	.405	1.165	1.545	380	.	.	3155.9558	SI
	31676.354	3					.	.			.	.	.				.	.	3156.0152	
2	31675.367	9	34911.115	-	3235.770	22	1.5-	0.5	1.5-	0.5	1.28	.30	.98	1.300	0.299	1001	.	.	3156.1136	
	31674.867	3					.	.			.	.	.				.	.	3156.1634	
2	31674.573	4	43681.995	-	12007.503	81	.	.	1.5-	1.5	.	.	.	1.065	0.019	1084	.	.	3156.1927	CQ
	31673.211	3					.	.			.	.	.				.	.	3156.3284	
	31672.728	3					.	.			.	.	.				.	.	3156.3766	
	31671.487	3					.	.			.	.	.				.	.	3156.5002	
	31671.255	3					.	.			.	.	.				.	.	3156.5234	
	31671.046	3					.	.			.	.	.				.	.	3156.5942	
1	31669.387	3	35969.064	-	4299.659	-18	.	.	2.0-	2.0	.	.	.	0.765	1.482	717	-170*	.	3156.7096	
	31669.232	3					.	.			.	.	.				.	.	3156.7250	
2	31668.050	9	35637.895	-	3969.846	1	3.5-	2.5	3.5-	2.5	1.16	1.67	.51	1.158	1.670	512	.	.	3156.8428	S00
	31667.387	4					.	.			.	.	.				.	.	3156.9089	
	31667.071	3					.	.			.	.	.				.	.	3156.9404	
	31666.543	3					.	.			.	.	.				.	.	3156.9931	
	31664.845	3					.	.			.	.	.				.	.	3157.1624	
2	31664.350	3	17073.340	-	48737.664	26	.	.	1.5-	2.5	.	.	.	0.576	0.970*	394	.	.	3157.2117	
	31664.089	3					.	.			.	.	.				.	.	3157.2377	
	31663.348	3					.	.			.	.	.				.	.	3157.3116	
	31662.020	3					.	.			.	.	.				.	.	3157.4441	
2	31660.141	3	13192.903	-	44853.015	29	.	.	2.5-	2.5	.	.	.	0.372	0.920*	548	.	.	3157.6315	
	31659.700	4					.	.			.	.	.				.	.	3157.6755	
2	31658.183	3	8709.640	-	40367.875	-52	.	.	3.5-	4.5	.	.	.	0.308	1.175	867	.	.	3157.8268	ZR Q
2	31657.959	4	15235.771	-	46893.745	-15	.	.	0.5-	1.5	.	.	.	1.791	0.670*	1121	.	.	3157.8491	
	31657.757	5					.	.			.	.	.				.	.	3157.8693	DJ1
2	31656.947	4	40295.200	-	8638.233	-20	.	.	4.5-	5.5	.	.	.	1.045	1.514	469	.	.	3157.9501	
1	31656.520	4	31656.500	-	0.000	20	.	.	1.0-	0.0	.	.	.	0.901	0.000	0	-40	.	3157.9927	
2	31655.954	9	37373.930	-	5717.976	0	4.5-	3.5	4.5-	3.5	.	.	.420	1.175	1.596	421	.	.	3158.0491	
	31655.517	3					.	.			.	.	.				.	.	3158.0927	
	31655.118	3					.	.			.	.	.				.	.	3158.1325	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	31654.760	4																	3158.1683	
2	31653.345	3	16362.000	-	48015.425	-30	.	.	4.5-	3.5	.	.	.	1.050	1.080*	30	.	.	3158.3094	
	31653.195	3					.	.			.	.	.						3158.3244	
	31652.955	3					.	.			.	.	.						3158.3484	
2	31651.781	3	16499.640	-	48151.405	16	.	.	3.5-	3.5	.	.	.	0.773	1.010	237	.	.	3158.4655	
	31650.206	3					.	.			.	.	.						3158.6227	
	31649.914	5					.	.			.	.	.						3158.6518	
	31649.504	4					.	.			.	.	.						3158.6927	
	31648.453	4					.	.			.	.	.						3158.7976	
	31648.056	3					.	.			.	.	.						3158.8373	
	31647.019	5					.	.			.	.	.						3158.9408	
	31646.617	3					.	.			.	.	.						3158.9809	
	31645.927	3					.	.			.	.	.						3159.0498	
1	31645.319	3	9724.351	-	41369.665	5	.	.	3.0-	4.0	.	.	.	0.442	1.120*	678	.	.	3159.1105	
	31644.840	4					.	.			.	.	.						3159.1583	
2	31644.408	9	35614.250	-	3969.846	4	1.5-	2.5	1.5-	2.5	1.54	1.67	.13	1.560	1.670	110	-82	.	3159.2014	SI
	31643.669	3					.	.			.	.	.						3159.2752	
	31643.456	3					.	.			.	.	.						3159.2965	
	31643.007	5					.	.			.	.	.						3159.3413	
2	31641.888	3	15098.815	-	46740.710	-7	.	.	1.5-	1.5	.	.	.	1.079	0.930*	149	.	.	3159.4531	
	31640.648	3					.	.			.	.	.						3159.5769	
	31640.019	3					.	.			.	.	.						3159.6397	
	31639.031	3					.	.			.	.	.						3159.7384	
	31638.314	3					.	.			.	.	.						3159.8100	
	31637.847	3					.	.			.	.	.						3159.8566	
2	31637.476	8	35607.320	-	3969.846	2	3.5-	2.5	3.5-	2.5	.	.	.47	1.150	1.670	520	.	.	3159.8937	
2	31637.322	9	8198.666	-	39835.970	18	2.5-	3.5	2.5-	3.5	.	.	.47	0.414	0.850*	436	-568	.	3159.9091	
2	31635.473	9	38915.335	-	7278.862	0	5.5-	4.5	5.5-	4.5	.	.	.43	1.120	1.545*	425	.	.	3159.9939	
	31633.745	4					.	.			.	.	.18						3160.2664	SI 2J06
	31631.896	3					.	.			.	.	.						3160.4511	
1	31626.587	4	6313.866	-	37940.455	-2	.	.	4.0-	3.0	.	.	.	0.487	1.170*	683	-238	.	3160.9817	
2	31626.163	4	14561.607	-	46187.750	20	.	.	1.5-	1.5	.	.	.	1.149	0.740	409	.	.	3161.0240	
	31625.981	3					.	.			.	.	.						3161.0422	
	31625.661	3					.	.			.	.	.						3161.0742	
	31624.719	3					.	.			.	.	.						3161.1684	
	31623.397	3					.	.			.	.	.						3161.3005	
	31622.699	3					.	.			.	.	.						3161.3703	
1	31622.212	6	33825.820	-	2203.606	-2	2.0-	1.0	2.0-	1.0	1.100	1.485	.385	1.104	1.495	391	-20	.	3161.4190	
	31621.197	4					.	.			.	.	.						3161.5205	
2	31619.578	5	33634.550	-	2014.966	-6	.	.	1.5-	1.5	.	.	.	1.230	1.881*	651	36*	.	3161.6824	
2	31619.099	9	31619.095	-	0.000	4	1.5-	0.5	1.5-	0.5	.	.	1.53	1.613	3.150	1537	-56*	.	3161.7303	
2	31618.697	9	37336.640	-	5717.976	33	2.5-	3.5	2.5-	3.5	.	.	.37	1.207	1.596	389	.	.	3161.7705	
	31617.932	3					.	.			.	.	.						3161.8470	
	31617.634	3					.	.			.	.	.						3161.8768	
2	31617.017	5	35586.850	-	3969.846	13	.	.	1.5-	2.5	.	.	.	1.160	1.670*	510	-82	.	3161.9385	
	31615.794	3					.	.			.	.	.						3161.9608	
	31615.978	3					.	.			.	.	.						3162.0424	
	31615.630	5					.	.			.	.	.						3162.0772	
	31615.021	3					.	.			.	.	.						3162.1381	
	31614.712	3					.	.			.	.	.						3162.1690	
	31614.559	4					.	.			.	.	.						3162.1843	
2	31614.328	6	33629.300	-	2014.966	-6	.	.	2.5-	1.5	.	.	.	1.242	1.881	639	-79	.	3162.2074	
2	31613.852	9	38892.715	-	7278.862	-1	3.5-	4.5	3.5-	4.5	.	.	.37	1.165	1.545	380	.	.	3162.2550	SI JQ
	31612.825	4					.	.			.	.	.						3162.3578	
	31612.375	4					.	.			.	.	.						3162.4028	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	31611.521	4	40853.860-		9242.356	17	.	.	2.5-	3.5	.	.	.	1.160	1.369*	209	.	.	3162.4882	
	31610.330	3					.	.			.	.	.				.	.	3162.6074	
2	31609.323	4	35579.170-		3969.846	-1	.	.	2.5-	2.5	.	.	.	1.190	1.670*	480	.	1*	3162.7082	
2	31608.865	9	34844.620-		3235.770	15	1.5-	0.5	1.5-	0.5	.	.	1.22	1.528	0.299	1229	.	-29	3162.7540	
	31606.597	3					.	.			.	.	.				.	.	3162.9809	
1	31605.968	3	37750.470-		6144.515	13	.	.	2.0-	3.0	.	.	.	0.980	1.473*	493	.	-86*	3163.0439	
	31605.179	3					.	.			.	.	.				.	.	3163.1229	
2	31604.696	9	33619.660-		2014.966	2	0.5-	1.5	0.5-	1.5	1.45	1.88	.43	1.470	1.881	411	.	41	3163.1712	
	31603.953	3					.	.			.	.	.				.	.	3163.2451	
2	31603.472	7	8709.640-		40313.110	2	3.5-	4.5	3.5-	4.5	.305	1.010	.705	0.308	1.010	702	.	.	3163.2937	
	31603.107	3					.	.			.	.	.				.	.	3163.3302	
	31602.809	3					.	.			.	.	.				.	.	3163.3601	
	31601.952	3					.	.			.	.	.				.	.	3163.4459	
	31600.621	3					.	.			.	.	.				.	.	3163.5791	
	31600.327	3					.	.			.	.	.				.	.	3163.6085	
2	31600.127	4	41308.120-		9707.980	-13	.	.	5.5-	6.5	.	.	.	1.040	1.485	445	.	.	3163.6286	
	31598.423	3					.	.			.	.	.				.	.	3163.7992	
	31596.080	4					.	.			.	.	.				.	.	3164.0338	
	31595.792	4					.	.			.	.	.				.	.	3164.0626	
	31595.488	3					.	.			.	.	.				.	.	3164.0931	
2	31594.231	5	39092.590-		7498.364	5	.	.	3.5-	2.5	.	.	.	1.180	1.321	141	.	.	3164.2190	
	31593.992	4					.	.			.	.	.				.	.	3164.2429	
	31593.603	4					.	.			.	.	.				.	.	3164.2819	
	31593.316	4					.	.			.	.	.				.	.	3164.3106	ZR Q
2	31592.989	9	10436.770-		42029.735	24	4.5-	3.5	4.5-	3.5	.725	.695	.030	0.724	0.695	29	.	.	3164.3434	SI
	31592.556	3					.	.			.	.	.				.	.	3164.3867	
2	31591.250	5	40833.605-		9242.356	1	.	.	4.5-	3.5	.	.	.	1.090	1.369*	279	.	.	3164.5176	
	31590.253	6					5.5-	5.5			.	.	.22				.	.	3164.6174	DJ0
	31590.197	8					.	.			.	.	.				.	.	3164.6231	DJ1
2	31590.117	5	42316.425-		10726.322	14	.	.	5.5-	4.5	.	.	.	1.155	1.391	236	.	.	3164.6311	
	31589.808	3					.	.			.	.	.				.	.	3164.6620	
	31588.736	3					.	.			.	.	.				.	.	3164.7694	
	31587.394	3					.	.			.	.	.				.	.	3164.9049	
2	31586.836	9	37088.890-		5502.060	6	0.5-	1.5	0.5-	1.5	.850	1.18	.33	0.890	1.169*	279	.	.	3164.9598	
	31585.845	4					.	.			.	.	.				.	.	3165.0591	
	31583.945	3					.	.			.	.	.				.	.	3165.2495	
	31582.850	3					.	.			.	.	.				.	.	3165.3593	
2	31581.805	9	39080.135-		7498.364	34	2.5-	2.5	2.5-	2.5	1.250	1.315	.065	1.255	1.321	66	.	.	3165.4640	
	31580.949	4					.	.			.	.	.				.	.	3165.5498	
	31578.247	4					.	.			.	.	.				.	.	3165.8207	
	31577.325	3					.	.			.	.	.				.	.	3165.9131	
2	31576.591	9	40214.805-		8638.233	19	4.5-	5.5	4.5-	5.5	1.32	1.51	.19	1.320	1.514	194	.	-8*	3165.9867	
	31575.909	3					.	.			.	.	.				.	.	3166.0551	
	31575.375	3					.	.			.	.	.				.	.	3166.1086	
2	31574.679	4	11504.095-		43078.770	4	.	.	3.5-	2.5	.	.	.	0.859	0.840*	19	.	.	3166.1784	
	31573.840	3					.	.			.	.	.				.	.	3166.2626	
	31572.977	3					.	.			.	.	.				.	.	3166.3491	
	31572.111	4					.	.			.	.	.				.	.	3166.4360	
2	31569.416	4	11504.095-		43073.510	1	.	.	3.5-	4.5	.	.	.	0.859	0.950*	91	.	-519*	3166.7063	
	31569.209	5					3.0-	4.0			.445	.965	.520				.	.	3166.7271	SI
	31568.961	4					.	.			.	.	.				.	.	3166.7519	
	31567.614	3					.	.			.	.	.				.	.	3166.8871	
	31567.328	3					.	.			.	.	.				.	.	3165.9158	
	31565.540	3					.	.			.	.	.				.	.	3167.0952	
	31563.462	3					.	.			.	.	.				.	.	3167.3037	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS D6	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES
	31561.343	5																		
1	31560.830	4	9386.801-40947.640			-9	.	.	5.0-	5.0	.	.	.	0.801	1.145	344		-217	3167.5163	
	31560.434	3																		
2	31558.739	7	39057.100-7498.364			3	3.5-	2.5	3.5-	2.5	1.23	1.32	.09	1.220	1.321	101			3167.6025	SO
2	31557.422	5	16593.963-48151.405			-20	.	.	2.5-	3.5	.	.	.	0.983	1.010	27			3167.7777	
	31556.751	3																		
2	31556.475	9	37058.525-5502.060			10	1.5-	1.5	1.5-	1.5	1.175	1.175		1.180	1.169	11			3167.9099	
	31556.148	5																		
	31555.714	5																		
	31554.138	4																		
	31552.406	3																		
	31551.724	4																		
1	31550.429	4	6313.866-37864.295			0	.	.	4.0-	4.0	.	.	.	0.487	1.110*	623		-201	3168.0050	
	31550.024	4																		
2	31549.242	5	43348.445-11799.241			38	.	.	5.5-	5.5	.	.	.	1.115	1.373	258			3168.0378	
	31547.410	4																		
	31546.717	4																		
	31545.893	4																		
	31545.499	7																		
	31544.935	5																		
2	31544.434	9	39042.775-7498.364			23	1.5-	2.5	1.5-	2.5	1.045	1.315	.28	1.050	1.321	271			3168.0814	
	31543.926	3																		
2	31542.960	9	31542.950-0.000			10	1.5-	0.5	1.5-	0.5	1.01	3.14	2.13	1.026	3.150	2124			3168.2396	
	31542.353	5																		
	31539.912	5																		
	31539.382	3																		
	31539.178	3																		
	31538.768	3																		
	31536.081	3																		
	31535.322	3																		
	31533.991	4																		
2	31533.732	4	14476.135-46009.840			27	.	.	4.5-	4.5	.	.	.	1.060	1.050	10			3168.4135	
2	31533.078	9	38811.900-7278.862			40	3.5-	4.5	3.5-	4.5	.	.	.410	1.115	1.545	430		-166*	3168.4820	SI
	31532.185	4																		
	31531.606	3																		
2	31530.873	6	38809.725-7278.862			10	.	.	4.5-	4.5	.	.	.371	1.110	1.545	435			3168.6121	DJO
	31530.117	3																		
	31528.824	3																		
2	31528.445	6	42254.735-10726.322			32	5.5-	4.5	5.5-	4.5	.	.	.22	1.180	1.391	211		41*	3168.6528	SO
	31523.633	5																		
2	31523.335	9	41711.780-10188.463			18	1.5-	0.5	1.5-	0.5	1.134	2.40	1.27	1.130	2.402*	1272			3168.7313	
1	31522.676	6	9724.351-41247.030			-3	3.0-	4.0	3.0-	4.0	.445	1.065	.620	0.442	1.065	623			3168.9153	
2	31522.256	5	37240.235-5717.976			-3	.	.	3.5-	3.5	.	.	.	1.240	1.596	356		-62*	3169.0677	
	31520.977	4																		
	31518.566	3																		
	31518.246	4																		
	31517.196	4																		
	31515.733	3																		
	31515.274	4																		
2	31514.568	8	37232.550-5717.976			-6	2.5-	3.5	2.5-	3.5	.985	1.593	.608	0.985	1.596	611			3169.1073	
	31514.274	4																		
	31513.961	4																		
2	31513.007	6	13192.903-44705.905			5	.	.	2.5-	3.5	.	.	.	0.372	0.950*	578			3169.1640	
1	31512.516	9	9724.351-41236.870			-3	3.0-	4.0	3.0-	4.0	.445	1.020	.575	0.442	1.020	578			3169.1640	
	31511.754	4																		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	31511.502	7																	3172.5265	
	31511.253	4																	3172.5516	
2	31510.677	5	42236.985-10726.322		14	.	.	3.5-	4.5	.	.	.	.	1.035	1.391	356			3172.6096	
2	31510.146	9	35479.995-3969.846		-3	3.5-	2.5	3.5-	2.5	.	.	.	.35	1.335	1.670	335			3172.6630	SO
	31508.875	3																	3172.7910	
2	31506.755	9	37224.725-5717.976		6	4.5-	3.5	4.5-	3.5	.	.	.	.445	1.145	1.596	451			3173.0045	SOO
	31506.274	3																	3173.0529	
2	31504.289	9	40142.525-8638.233		-3	6.5-	5.5	6.5-	5.5	1.165	1.520	.355		1.165	1.514	349			3173.2529	SOO
	31503.871	4																	3173.2950	
	31503.401	4																	3173.3423	
	31502.513	4																	3173.4318	
2	31501.196	5	12992.644-44493.850		-10	2.5-	1.5	2.5-	1.5	.64	1.11	.47		0.643	1.110*	467			3173.5645	SOO
	31500.429	3																	3173.6417	
2	31497.511	4	8709.640-40207.135		16	.	.	3.5-	2.5	.	.	.		0.308	1.020*	712			3173.9358	HAZY
2	31497.118	3	16593.963-48091.025		56	.	.	2.5-	2.5	.	.	.		0.983	1.100	117			3173.9754	
	31495.639	4																	3174.1244	
2	31494.760	7	38993.130-7498.364		-6	2.5-	2.5	2.5-	2.5	1.020	1.315	.295		1.025	1.321	296			3174.2130	
2	31494.572	6	37212.525-5717.976		23	.	.	2.5-	3.5	.	.	.	.63	0.960	1.596*	636			3174.2320	SI
	31493.728	4																	3174.3170	
	31492.606	4																	3174.4301	
	31492.349	3																	3174.4560	
2	31492.034	9	40130.265-8638.233		2	5.5-	5.5	5.5-	5.5	1.150	1.520	.367		1.150	1.514	364			3174.4878	
	31490.428	5																	3174.6497	
1	31489.375	6	6313.866-37803.250		-9	.	.	4.0-	3.0	.	.	.	.58	0.487	1.081	594		-249	3174.7559	
2	31489.142	4	43288.355-11799.241		28	.	.	6.5-	5.5	.	.	.		1.150	1.373	223			3174.7793	
	31488.582	4																	3174.8358	
	31487.680	3																	3174.9268	
	31487.103	4																	3174.9849	
	31486.827	7																	3175.0128	
	31486.540	4																	3175.0417	
	31485.971	4																	3175.0991	
	31485.836	3																	3175.1127	
2	31485.450	9	31485.455-0.000		-5	1.5-	0.5	1.5-	0.5	1.300	3.182	1882		1.300	3.150	1850		79	3175.1516	
	31484.980	3																	3175.1990	
	31484.659	4																	3175.2314	
	31483.967	3																	3175.3012	
	31483.540	4																	3175.3443	
2	31480.996	9	38759.850-7278.862		8	3.5-	4.5	3.5-	4.5	1.165	1.545	.380		1.165	1.545	380			3175.6009	
2	31476.985	6	13809.910-45286.880		15	.	.	4.5-	5.5	.	.	.		0.657	1.000*	343			3176.0055	
	31476.627	3																	3176.0417	
2	31475.990	9	40114.225-8638.233		-2	4.5-	5.5	4.5-	5.5	1.132	1.514	.382		1.135	1.514	379			3176.1060	
	31475.492	3																	3176.1562	
	31475.325	4																	3176.1731	
	31474.860	4																	3176.2200	
	31474.503	4																	3176.2560	
	31473.887	3																	3176.3182	
2	31473.667	9	40716.010-9242.356		13	3.5-	3.5	3.5-	3.5	.	.	.	.28	1.100	1.369*	269			3176.3404	
	31473.113	4																	3176.3963	
	31470.864	4																	3176.6233	
	31470.500	5						4.5-	5.5	.	.	.	.19						3176.6600	JQ
	31469.374	4																	3176.7737	
	31468.650	3																	3176.8468	
2	31467.999	7	36970.040-5502.060		19	2.5-	1.5	2.5-	1.5	1.410	1.170	.240		1.405	1.169	236			3176.9125	
	31467.012	4						1.0-	2.0	.36	1.19	.83							3177.0122	
	31466.324	3																	3177.0816	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
		31466.054	4																	3177.1089	
		31464.836	3																	3177.2319	
		31463.937	4																	3177.3227	
		31462.668	3																	3177.4508	
2		31462.255	5	35432.095-		3969.846	6	1.5-	2.5	1.5-	2.5	1.190	1.660	.470	1.190	1.670	480		3177.4925		
		31461.145	4																	3177.6047	
		31460.308	3																	3177.6892	
2		31457.442	4	38955.805-		7498.364	1	3.5-	2.5	3.5-	2.5	1.15	1.32	.17	1.165	1.321	156		3177.9787	SO JQ	
		31456.344	3																	3178.0897	
		31454.515	3																	3178.2745	
		31454.201	4																	3178.3062	
		31453.868	3																	3178.3378	
		31453.622	3																	3178.3647	
2		31449.659	9	38948.000-		7498.364	23	2.5-	2.5	2.5-	2.5			.225	1.090	1.321	231		3178.7652		
1		31449.023	7	9724.351-		41173.380	-6*	3.0-	4.0	3.0-	4.0	.445	1.150	.705	0.442	1.150	708		3178.8295		
		31447.683	4																	3178.9650	
1		31447.394	6	6313.866-		37761.260	0	4.0-	3.0	4.0-	3.0	.48	1.11	.63	0.487	1.110*	623		3178.9942	SOO	
		31446.382	4																	3179.0965	
2		31445.581	4	19466.530-		50912.115	-4			4.5-	3.5				1.151	0.950*	201		3179.1775		
		31445.310	3																	3179.2049	
		31444.940	4																	3179.2423	
		31444.262	3																	3179.3108	
2		31443.263	9	36945.320-		5502.060	3	1.5-	1.5	1.5-	1.5	1.030	1.170	.140	1.030	1.169	139		3179.4118		
		31442.592	3																	3179.4797	
		31442.213	3																	3179.5180	
		31441.430	4																	3179.5972	
		31441.243	3																	3179.6161	
		31440.947	3																	3179.6461	
2		31440.715	5	36942.795-		5502.060	-20			2.5-	1.5				1.040	1.169	129		3179.6695		
		31440.526	5																	3179.6886	
		31439.321	4																	3179.8105	
2		31438.515	4	15641.100-		47079.610	5			3.5-	2.5				1.040	0.960*	80		3179.8920		
		31438.091	3																	3179.9349	
		31437.702	4																	3179.9743	
		31437.222	4																	3180.0228	
		31434.734	3																	3180.2745	
		31433.494	3																	3180.4000	
		31431.735	3																	3180.5780	
2		31431.293	3	8709.640-		40140.890	43			3.5-	2.5				0.308	0.720*	412		3180.6227		
2		31431.040	4	43230.265-		11799.241	16			6.5-	5.5				1.075	1.373	298		3180.6483		
2		31430.077	9	40068.320-		8638.233	-10	6.5-	5.5	6.5-	5.5	1.137	1.514	.377	1.135	1.514	379		3180.7458	SOO	
2		31429.662	7	38708.515-		7278.862	9			5.5-	4.5				1.035	1.545	510		3180.7878		
		31428.047	3																	3180.9512	
		31427.555	4																	3181.0010	
		31426.910	3																	3181.0663	
2		31426.572	4	37144.560-		5717.976	-12			3.5-	3.5				1.220	1.596	376		3181.1005		
2		31425.789	9	33440.770-		2014.966	-15	2.5-	1.5	2.5-	1.5			.86	1.016	1.881	865	38*	3181.1798		
		31424.089	4																	3181.3519	
		31422.894	4																	3181.4729	
2		31422.644	4	12992.644-		44415.300	-12*			2.5-	3.5				0.643	0.940	297		3181.4982		
1		31422.441	4	8768.139-		40190.580	0			2.0-	2.0				0.362	0.920	558		3181.5188	C2	
2		31422.441	4	14295.565-		45718.025	-19			3.5-	3.5				0.790	1.065	275		3181.5188	C2	
		31422.157	4																	3181.5475	
		31420.596	3																	3181.7056	
		31419.742	4																	3181.7921	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	31418.838	7	43218.185-11799.241	-56	4.5-	5.5	4.5-	5.5	.	.	.	.	.	.26	1.155	1.373	218	.	.	3181.8786	
	31417.855	4							.	.	.	.	.	.						3181.9832	
	31417.446	3							.	.	.	.	.	.						3182.0246	
	31417.255	3							.	.	.	.	.	.						3182.0438	
	31416.912	6							.	.	.	.	.	.						3182.0787	
2	31416.465	9	40558.815- 9242.356	6	3.5-	3.5	3.5-	3.5	.	.	.	.	.	.20	1.170	1.369*	199	.	.	3182.1240	
	31416.247	3							.	.	.	.	.	.						3182.1460	
	31416.024	9							.	.	.	.	.	.						3182.1686	RQ
2	31415.879	9	40054.100- 8638.233	12	4.5-	5.5	4.5-	5.5	1.165	1.520	.355	.	.	.	1.160	1.514	354	.	.	3182.1833	RQ
	31414.690	5							.	.	.	.	.	.						3182.3038	
	31414.136	5							.	.	.	.	.	.						3182.3548	
	31413.783	4							.	.	.	.	.	.						3182.3957	
	31413.081	3							.	.	.	.	.	.						3182.4668	
	31412.195	5					2.5-	3.5	.	.	.	.	.	.						3182.5565	JQ
	31411.333	4							.	.	.	.	.	.						3182.6439	
	31410.783	4							.	.	.	.	.	.						3182.6996	
	31410.493	3							.	.	.	.	.	.						3182.7290	
	31409.197	5							.	.	.	.	.	.						3182.8603	ZR Q
	31408.776	3							.	.	.	.	.	.						3182.9030	
	31408.392	3							.	.	.	.	.	.						3182.9419	
	31407.885	3							.	.	.	.	.	.						3182.9933	
	31407.440	4							.	.	.	.	.	.						3183.0384	
	31406.228	5							.	.	.	.	.	.						3183.1612	
	31405.565	3							.	.	.	.	.	.						3183.2283	
	31405.187	3							.	.	.	.	.	.						3183.2667	
2	31404.580	9	41593.040-10188.463	3	1.5-	0.5	1.5-	0.5	1.152	2.401	1249	.	.	.	1.150	2.402*	1252	.	.	3183.3283	
	31403.967	3							.	.	.	.	.	.						3183.3904	
2	31402.974	3	12048.548-43451.520	2	.	.	1.5-	1.5	.	.	.	.	.	.	-0.054	1.190*	1244	.	.	3183.4911	
	31402.672	3							.	.	.	.	.	.						3183.5217	
	31402.075	5							.	.	.	.	.	.						3183.5822	
	31400.730	4							.	.	.	.	.	.						3183.7186	
	31399.821	3							.	.	.	.	.	.						3183.8108	
2	31399.415	4	42125.715-10726.322	22	.	.	5.5-	4.5	.	.	.	.	.	.	1.165	1.391	226	.	.	3183.8519	
	31399.154	3							.	.	.	.	.	.						3183.8784	
	31398.666	3							.	.	.	.	.	.						3183.9279	
	31398.325	3							.	.	.	.	.	.						3183.9625	
	31398.039	3							.	.	.	.	.	.						3183.9915	
2	31396.753	8	40639.100- 9242.356	9	4.5-	3.5	4.5-	3.5	.	.	.	.	.	.06	1.310	1.369	59	.	.	3184.1219	SO
	31395.737	5							.	.	.	.	.	.						3184.2249	
2	31395.019	9	34630.775- 3235.770	14	1.5-	0.5	1.5-	0.5	1.18	.30	.88	.	.	.	1.198	0.299	899	109*	.	3184.2978	SI
2	31394.349	5	32892.715- 7498.364	-2	.	.	3.5-	2.5	.	.	.	.	.	.	1.165	1.321	156	.	.	3184.3657	
	31393.162	4							.	.	.	.	.	.						3184.4861	
	31391.352	4							.	.	.	.	.	.						3184.6697	
	31390.903	4							.	.	.	.	.	.						3184.7153	
2	31389.539	6	14295.565-45685.090	14	.	.	3.5-	4.5	.	.	.	.	.	.	0.790	0.955	165	.	.	3184.8537	
2	31388.311	5	32667.180- 7278.862	-7	.	.	4.5-	4.5	.	.	.	.	.	.	1.092	1.545	453	-22*	.	3184.9783	
2	31326.833	9	37104.860- 5717.976	-1	4.5-	3.5	4.5-	3.5	.	.	.	.	.	.42	1.171	1.596	425	72	.	3185.1232	
	31336.446	4							.	.	.	.	.	.						3185.1676	
	31333.710	4							.	.	.	.	.	.						3185.4452	
	31333.129	4							.	.	.	.	.	.						3185.5042	
	31332.181	4							.	.	.	.	.	.						3185.6005	
2	31380.601	8	36882.645- 5502.060	16	2.5-	1.5	2.5-	1.5	.	.	.	.	.	.	1.010	1.169	159	.	.	3185.7609	
2	31379.304	4	12592.644-44371.925	23	.	.	2.5-	3.5	.	.	.	.	.	.	0.643	0.970*	327	.	.	3185.8925	
	31378.330	5							.	.	.	.	.	.						3185.9914	
	31378.043	4							.	.	.	.	.	.						3186.0206	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	31377.349	4																			
1	31377.033	4	37521.550-	6144.515	3	.	.	3.0-	3.0	.	.	.	.	1.315	1.473	158			3186.0910		
2	31375.021	6	33389.920-	2014.966	67	1.5-	1.5	1.5-	1.5	.940	1.880	.940		0.943	1.881	938		-50	3186.1226		
	31373.162	4																		3186.3275	
	31372.596	3																		3186.5163	
	31370.270	3																		3186.5738	
2	31368.870	4	12992.644-	44361.495	19	2.5-	2.5	2.5-	2.5	.	.	.225		0.643	0.850*	207			3186.8100		
2	31366.552	5	37084.510-	5717.976	18	3.5-	3.5	3.5-	3.5	.	.	.514		1.080	1.596*	516			3186.9523		
	31364.025	3																		3187.1878	
	31363.742	3																		3187.4446	
	31363.418	3																		3187.4734	
	31363.127	3																		3187.5063	
2	31362.427	9	35332.255-	3969.846	18	2.5-	2.5	2.5-	2.5	.	.	.413		1.263	1.670	407		-78	3187.5359		
	31361.897	5								1.05*	1.05*									3187.6070	
	31361.284	3																		3187.6609	
	31360.662	4																		3187.7232	
	31358.823	3																		3187.7864	
2	31357.653	3	43156.875-	11799.241	19	.	.	5.5-	5.5	.	.	.		1.160	1.373*	213			3187.9734		
	31357.204	3																		3188.0923	
	31356.919	4																		3188.1380	
	31354.153	3																		3188.1670	
	31353.145	3																		3188.4482	
	31351.847	3																		3188.5507	
	31351.155	4																		3188.6827	
1	31350.711	5	8768.139-	40118.850	0*	2.0-	3.0	2.0-	3.0	.352	1.012	.660		0.362	1.020	658			3188.7531		
	31347.531	3																		3188.7983	
	31346.891	3																		3189.1218	
2	31346.473	9	39984.710-	8638.233	-4	5.5-	5.5	5.5-	5.5	.	.	.435		1.085	1.514	429		59*	3189.1869		
2	31346.473	9	38844.845-	7498.364	-8	.	.	2.5-	2.5	.	.	.		1.340	1.321	19			3189.2294	C2	
	31345.831	3																		3189.2948	
	31345.061	3																		3189.3731	
	31344.389	3																		3189.4415	
	31344.074	3																		3189.4735	
1	31343.697	3	6313.866-	37657.560	3	.	.	4.0-	3.0	.	.	.		0.487	1.132	645			3189.5119		
2	31342.910	3	42069.210-	10726.322	22	.	.	3.5-	4.5	.	.	.		1.190	1.391	201			3189.5920		
	31342.387	3																		3189.6452	
	31340.402	3																		3189.8472	
	31339.977	3																		3189.8905	
	31339.661	4																		3189.9227	
	31338.430	3																		3190.0480	
2	31338.163	3	18720.075-	50058.235	3	.	.	3.5-	3.5	.	.	.		1.060	1.000*	60			3190.0752		
	31337.636	3																		3190.1288	
1	31336.516	3	8768.139-	40104.650	5	.	.	2.0-	2.0	.	.	.		0.362	1.090	728		-278	3190.2428		
	31336.225	3																		3190.2725	
2	31335.039	9	42061.340-	10726.322	21	4.5-	4.5	4.5-	4.5	1.18	1.39	.208		1.175	1.391	216			3190.3932		
	31334.171	5																		3190.4816	
	31333.827	6																		3190.5166	
	31333.473	3																		3190.5527	
	31331.619	3																		3190.7415	
	31331.054	3																		3190.7990	
	31330.926	4																		3190.8120	
	31330.325	4																		3190.8733	
	31329.986	3																		3190.9078	
	31329.817	3																		3190.9250	
	31327.662	3																		3191.1445	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS - J1	TERM J2	TERM - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
		31326.932	5																	3191.2189	ZR Q
		31324.843	3																	3191.4317	
2		31324.296	9	34560.050-	3235.770	15	1.5-	0.5	1.5-	0.5	1.14	.30	.85	1.130	0.299	831			3191.4874		
2		31323.336	3	20121.145-	51444.460	21	. - .		2.5-	2.5				0.710	0.910*	200			3191.5852		
		31322.968	3																	3191.6227	
		31322.156	3																	3191.7055	
2		31321.795	3	16362.000-	47683.770	25	. - .		4.5-	3.5				1.050	1.090*	40			3191.7423		
		31321.274	3																	3191.7954	
2		31320.799	6	40563.165-	9242.356	-10	2.5-	3.5	2.5-	3.5	.995	1.370	.375	0.995	1.369	374			3191.8438		
		31318.928	3																	3192.0345	
		31318.626	3																	3192.0652	
		31318.238	3																	3192.1048	
		31317.959	3																	3192.1291	
		31317.576	3																	3192.1723	
		31315.595	4																	3192.3742	
2		31315.364	3	8709.640-	40025.010	-6	. - .		3.5-	3.5				0.308	0.900	592	-265		3192.3978		
		31314.958	3																	3192.4391	
2		31314.279	5	43113.500-	11799.241	20	. - .		6.5-	5.5				1.130	1.373	243			3192.5084		
		31313.952	3																	3192.5417	
2		31313.529	9	38811.900-	7498.364	-7	3.5-	2.5	3.5-	2.5	1.12	1.31	.19	1.115	1.321	206	-150*		3192.5848		
		31313.164	4																	3192.6221	
2		31312.058	9	13013.685-	44326.520	23	. - .		5.5-	4.5	.895			0.950	0.960*	10			3192.6533	f SO	
		31311.802	3																	3192.7609	
		31311.562	3																	3192.7834	
		31311.202	3																	3192.8221	
2		31310.906	5	16499.640-	47810.565	-19	. - .		3.5-	3.5				0.773	1.160	387			3192.8523		
		31310.545	3																	3192.8891	
1		31310.199	3	6313.866-	37624.090	-25	. - .		4.0-	3.0				0.487	1.150*	663	-210		3192.9244		
		31309.938	3																	3192.9510	
		31306.830	3																	3193.2680	
		31306.280	3																	3193.3241	
		31305.715	3																	3193.3817	
2		31304.855	4	13013.685-	44318.570	-30	. - .		5.5-	5.5				0.950	1.035	85	-332*		3193.4695		
		31304.801	4																	3193.4750	
		31304.684	4																	3193.4869	
1		31304.222	5	33507.825-	2203.606	3	2.0-	1.0	2.0-	1.0	1.110	1.495	.385	1.109	1.495	386	-33		3193.5341		
2		31304.049	9	8198.666-	39502.705	10	2.5-	3.5	2.5-	3.5	.420	.925	.505	0.414	0.920*	506	-506		3193.5517		
2		31303.661	5	42029.980-	10726.322	3	. - .		3.5-	4.5				1.060	1.391*	331			3193.5913		
2		31303.446	3	35273.260-	3969.846	32	. - .		1.5-	2.5				0.865	1.670	805			3193.6132		
		31302.434	3																	3193.7165	
		31301.901	3																	3193.7709	
		31301.225	3																	3193.8398	
2		31300.928	3	13192.903-	44493.850	-19	. - .		2.5-	1.5				0.372	1.110*	738			3193.8701		
		31299.816	6																	3193.9836	
		31298.820	3																	3194.0853	
2		31296.950	7	38575.800-	7278.862	12	3.5-	4.5	3.5-	4.5	1.150	1.545	.395	1.150	1.545	395			3194.2761		
2		31295.954	5	35265.810-	3969.546	-10	. - .		3.5-	2.5				0.980	1.670*	690	73*		3194.3778		
		31295.446	4																	3194.4296	
		31295.002	4																	3194.4750	
		31294.732	3																	3194.5025	
2		31294.214	9	38572.970-	7278.862	106	5.5-	4.5	5.5-	4.5			.53	1.035	1.545	510			3194.5554	2LNS	
2		31294.214	9	37012.210-	5717.976	-20	4.5-	3.5	4.5-	3.5			.422	1.164	1.596	432	63		3194.5554	2LNS	
		31293.341	3																	3194.6445	
		31293.123	4																	3194.6668	
2		31291.317	3	13809.910-	45101.220	7	. - .		4.5-	5.5				0.657	1.060*	403			3194.8512		

C	HAVENUMBER	I	T2	-	T1	O-C	OES	GOS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1				G2	G1	D6		IS		
	31291.089	3									.	.							3194.8744	
	31239.405	4									.	.							3195.0464	
	31283.960	3									.	.							3195.0918	
2	31283.136	7	11504.095-42792.230		1	3.5-	3.5	3.5-	3.5	.859	.890	.031	0.859	0.900	41			3195.1760		
	31287.750	3									.	.							3195.2154	
	31287.482	3									.	.							3195.2428	
	31287.179	3									.	.							3195.2737	
	31285.449	4									.	.							3195.4504	
	31234.549	3									.	.							3195.5424	
	31284.310	3									.	.							3195.5668	
1	31283.829	3	37428.345- 6144.515		-1	.	.	2.0-	3.0				1.330	1.473*	143			3195.6159		
1	31282.496	5	9724.351-41085.850		-3*	3.0-	4.0	3.0-	4.0	.445	1.210	.765	0.442	1.210	768			3195.7521		
	31281.612	3									.	.							3195.8424	
	31281.314	3									.	.							3195.8728	
	31280.335	3									.	.							3195.9729	
1	31279.966	5	8768.139-40948.080		25*	2.0-	3.0	2.0-	3.0	.365	1.005	.640	0.362	1.005	643			3196.0106		
2	31279.692	3	43287.195-12007.503		0	.	.	1.5-	1.5				1.205-0.019	1224				3196.0386		
	31278.899	3									.	.							3196.1196	
	31277.941	3									.	.							3196.2175	
	31277.053	5									.	.							3196.3082	
2	31275.745	6	38774.085- 7498.364		24	2.5-	2.5	2.5-	2.5	1.17	1.32	.15	1.170	1.321*	151			3196.4419	2LNQ	
2	31275.745	6	41464.210-10188.463		-2	.	.	1.5-	0.5				1.065	2.402	1337			3196.4419	2LNQ	
	31275.032	3									.	.							3196.5148	
	31274.243	4									.	.							3196.5954	
	31274.020	3									.	.							3196.6182	
	31272.296	3									.	.							3196.7945	
	31271.627	3									.	.							3196.8629	
2	31270.878	5	40513.220- 9242.356		14	3.5-	3.5	3.5-	3.5			.45	0.925	1.369	444			3196.9394		
	31270.527	3									.	.							3196.9753	
	31270.157	3									.	.							3197.0131	
	31268.613	3									.	.							3197.1710	
	31266.948	3									.	.							3197.3413	
	31266.455	3									.	.							3197.3917	
1	31265.028	5	9724.351-40989.380		-1	3.0-	4.0	3.0-	4.0	.445	.995	.550	0.442	1.000	558			3197.5376		
	31263.381	3									.	.							3197.7061	
2	31261.481	5	38759.850- 7498.364		-5	3.5-	2.5	3.5-	2.5	1.165	1.315	.150	1.165	1.321	156			3197.9004		
	31260.928	3									.	.							3197.9570	
	31260.284	3									.	.							3198.0229	
2	31258.132	5	36976.110- 5717.976		-2	.	.	3.5-	3.5				1.200	1.596	396			3198.2431		
	31257.892	4									.	.							3198.2676	
	31257.183	4									.	.							3198.3402	
	31256.678	3									.	.							3198.3919	
	31256.317	4									.	.							3198.4288	
2	31255.947	9	31255.945- 0.000		2	1.5-	0.5	1.5-	0.5	.916	3.145	2.23	0.921	3.150	2229		-7	3198.4667		
	31255.480	3									.	.							3198.5145	
	31255.230	3									.	.							3198.5400	
	31254.979	3									.	.							3198.5657	
2	31253.329	7	39891.565- 8538.233		-3	.	.	4.5-	5.5			.44	1.090	1.514	424			3198.7346		
2	31253.093	4	43052.235-11799.241		49	.	.	5.5-	5.5				1.150	1.373	223			3198.7588		
2	31252.075	9	36970.040- 5717.976		11	2.5-	3.5	2.5-	3.5			.17	1.405	1.596	191			3198.8630		
	31251.602	3									.	.							3198.9114	
	31251.331	3									.	.							3198.9391	
	31250.497	3									.	.							3199.0245	
2	31249.665	6	36967.635- 5717.976		6	4.5-	3.5	4.5-	3.5			.40	1.190	1.596	406			3199.1097		
2	31248.846	4	40491.205- 9242.356		-3	.	.	4.5-	3.5				1.155	1.369	214			3199.1935		

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	31247.510	3																3199.3303	
	31247.226	3																3199.3594	
	31245.640	4																3199.5218	
	31245.462	3																3199.5400	
2	31242.929	4	35212.780-	3969.846	-5	.	.	2.5-	2.5	.	.	.	1.108	1.670	562	.	.	3199.7994	
	31241.052	3																3199.9917	
	31240.641	3																3200.0338	
	31239.242	3																3200.1771	
2	31238.731	9	39876.970-	8638.233	-6	4.5-	5.5	4.5-	5.5	.	.	.404	1.115	1.514	399	.	.	3200.2294	SI
	31235.717	3																3200.5383	
	31235.317	3																3200.5792	
	31234.949	3																3200.6169	
2	31234.581	7	34470.355-	3235.770	-4	0.5-	0.5	0.5-	0.5	.	.	.17	0.480	0.299*	181	79*	.	3200.6547	
	31233.288	4																3200.7872	
	31232.058	6																3200.9132	
	31231.777	4																3200.9420	
	31231.579	3																3200.9623	
2	31231.208	9	31231.210-	0.000	-2	0.5-	0.5	0.5-	0.5	.	.	2.28	0.860	3.150*	2290	11*	.	3201.0003	DG*
	31229.985	3																3201.1257	
	31228.959	3																3201.2309	
2	31228.427	9	38507.290-	7278.862	-1	3.5-	4.5	3.5-	4.5	.	.	.270	1.270	1.545	275	2*	.	3201.2854	SI
	31226.919	4																3201.4400	
2	31226.529	5	38724.885-	7498.364	8	.	.	2.5-	2.5	.	.	.	1.140	1.321	181	.	.	3201.4800	
2	31226.166	7	40934.150-	9707.980	-4	.	.	5.5-	6.5	.	.	.	1.165	1.485	320	.	.	3201.5172	
	31225.735	3																3201.5614	
	31225.343	3																3201.6016	
2	31224.828	9	36942.795-	5717.976	9	2.5-	3.5	2.5-	3.5	1.040	1.595	.555	1.040	1.596	556	.	.	3201.6544	
	31224.308	3																3201.6995	
1	31223.235	3	6313.866-	37537.100	1	.	.	4.0-	3.0	.	.	.	0.487	1.070*	583	.	.	3201.8178	
	31222.821	4																3201.8602	
	31221.077	3																3202.0391	
2	31218.690	3	35188.565-	3969.846	-29	.	.	3.5-	2.5	.	.	.	1.154	1.670	516	5*	.	3202.2839	
	31217.649	3																3202.3907	
	31216.778	3																3202.4801	
2	31216.631	3	16593.963-	47810.565	29	.	.	2.5-	3.5	.	.	.	0.983	1.160	177	.	.	3202.4951	
	31215.494	3																3202.6118	
2	31213.903	9	38492.760-	7278.862	5	3.5-	4.5	3.5-	4.5	1.095	1.545	.450	1.095	1.545	450	.	.	3202.7750	
	31213.364	3																3202.8324	
1	31212.999	9	8768.139-	39981.145	-7	2.0-	3.0	2.0-	3.0	.	.	.52*	0.362	0.905	543	-265	.	3202.8678	
2	31212.714	3	45203.680-	13790.952	-14	.	.	2.5-	1.5	.	.	.	1.150	1.728*	578	.	.	3202.8971	
1	31211.869	3	31211.905-	0.000	-36	.	.	1.0-	0.0	.	.	.	1.235	0.000	0	-72	.	3202.9838	
	31211.804	4																3202.9904	
1	31211.428	4	9724.351-	40935.790	-11*	.	.	3.0-	4.0	.	.	.	0.442	1.160*	718	.	.	3203.0290	
	31211.202	3																3203.0522	
	31210.561	3																3203.1180	
1	31208.733	6	6313.866-	37522.600	-1	4.0-	3.0	4.0-	3.0	.485	1.26	.775	0.487	1.260*	773	.	.	3203.3056	
	31207.580	3																3203.4240	
	31206.916	3																3203.4921	
	31205.992	3																3203.5870	
	31205.372	3																3203.6507	
	31204.441	3																3203.7462	
	31204.032	3																3203.7882	
1	31203.583	4	35503.238-	4299.659	4	3.0-	2.0	3.0-	2.0	.	.	.345	1.135	1.482	347	.	.	3203.8343	SO
	31201.507	3																3204.0475	
	31200.155	3																3204.1864	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	31198.964	3																		
2	31197.281	9	31197.285-	0.000	-4	0.5-	0.5	0.5-	0.5	.76	3.14	2.38	0.776	3.150	2374		-11*	3204.3087		
2	31196.022	4	11504.695-	42700.125	-8	. - .		3.5-	2.5				0.859	0.815	44			3204.6109		
2	31194.862	5	14295.565-	45490.434	-7	. - .		3.5-	4.5				0.790	1.065	275			3204.7301		
2	31194.645	4	41920.925-	10726.322	42	. - .		5.5-	4.5				1.120	1.391	271			3204.7523		
	31193.995	5																	3204.8191	
2	31193.468	9	8709.640-	39903.115	-7	3.5-	4.5	3.5-	4.5	.31	1.06	.75	0.308	1.060*	752			3204.8733	SI	
	31191.419	4																	3205.0838	
	31190.501	4																	3205.1781	
1	31188.846	5	8768.139-	39956.990	-5	2.0-	2.0	2.0-	2.0	.362	1.048	.686	0.362	1.050	688		-232	3205.3482		
	31187.118	3																	3205.5258	
	31186.082	4																	3205.6323	
2	31184.826	6	40427.180-	9242.356	2	4.5-	3.5	4.5-	3.5			.215	1.165	1.369	204			3205.7614	SO	
2	31181.404	4	17296.905-	48478.270	39	. - .		4.5-	3.5				0.494	0.970	476			3206.1133		
	31180.142	4																	3206.2430	
2	31179.021	5	13192.903-	44371.925	-1	2.5-	3.5	2.5-	3.5	.37	.95	.58	0.372	0.970*	598			3206.3583	SI JQ	
	31177.545	4																	3206.5101	
	31177.208	4																	3206.5448	
	31176.957	5																	3206.5706	
	31176.730	5																	3206.5940	
2	31174.643	9	33189.610-	2014.966	-1	2.5-	1.5	2.5-	1.5	1.13	1.88	.75	1.121	1.881	760		-57	3206.8086		
	31174.225	4																	3206.8516	
	31173.351	6																	3206.9415	
2	31173.044	5	13013.685-	44186.735	-6	. - .		5.5-	5.5				0.950	1.090*	140			3206.9731		
	31172.620	3																	3207.0167	
2	31172.258	4	15641.100-	46813.360	-2	. - .		3.5-	2.5				1.040	1.070*	30			3207.0540		
	31172.079	4																	3207.0724	
	31171.593	4																	3207.1224	
	31170.338	3																	3207.2515	
2	31169.801	6	40412.140-	9242.356	17	3.5-	3.5	3.5-	3.5			.20	1.170	1.369	199			3207.3068		
	31169.172	4																	3207.3715	
2	31168.592	4	13192.903-	44361.495	0	. - .		2.5-	2.5				0.372	0.850*	478			3207.4312		
	31168.406	3																	3207.4504	
	31166.757	3																	3207.6201	
2	31165.980	9	40873.960-	9707.980	0	5.5-	6.5	5.5-	6.5	1.080	1.485	.405	1.080	1.485	405			3207.7000		
2	31164.821	9	36666.870-	5502.060	11	. - .		2.5-	1.5	1.13	1.13		1.157	1.169	12			3207.8193		
	31164.182	3																	3207.8851	
1	31163.675	9	6313.866-	37477.540	1	4.0-	3.0	4.0-	3.0	.485	1.120	.615	0.487	1.120	633			3207.9373		
2	31163.441	9	39801.675-	8638.233	-1	4.5-	5.5	4.5-	5.5	1.07	1.51	.44	1.065	1.514	449			3207.9614		
	31162.780	4																	3208.0294	
	31161.752	3																	3208.1353	
2	31161.114	7	36663.170-	5502.060	4	1.5-	1.5	1.5-	1.5	1.635	1.170	.465	1.635	1.169	466			3208.2010		
	31160.418	3																	3208.2726	
2	31158.560	4	40400.905-	9242.356	11	. - .		2.5-	3.5				1.100	1.369	269			3208.4639		
	31158.062	4																	3208.5152	
	31157.800	4																	3208.5422	
2	31156.771	9	38435.630-	7278.862	3	5.5-	4.5	5.5-	4.5	1.12	1.52	.40	1.150	1.545*	395		60*	3208.6482		
	31155.997	6																	3208.7279	
	31155.535	7																	3208.7755	
	31154.922	4																	3208.8386	
	31151.896	7																	3209.1503	
	31151.548	6																	3209.1862	DJO
	31150.293	3																	3209.3149	
2	31149.469	6	14295.565-	45445.065	-31	. - .		3.5-	4.5			.20	0.790	1.000*	210			3209.4004	DJ1 HAZY	
	31148.966	3																	3209.4522	

C	HAVE NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	31147.857	9	35117.695	-	3969.846	8	1.5	2.5	1.5	2.5	1.505	1.660	.155	1.505	1.670	165		-120	3209.5665	
	31147.464	3																	3209.6070	
	31147.260	3																	3209.6280	
	31146.051	3																	3209.7526	
	31145.649	3																	3209.7940	
1	31145.449	7	8768.139	-	39913.605	-17	2.0	3.0	2.0	3.0	.36	1.07	.712	0.362	1.075	713			3209.8146	
	31144.741	4																	3209.8876	
	31144.348	3																	3209.9281	
	31143.516	5									1.17		.09						3210.0138	f 2J06
	31142.180	3																	3210.1516	
	31141.208	4																	3210.2518	
	31140.509	4																	3210.3238	
	31139.914	3																	3210.3852	
	31139.078	4																	3210.4714	
	31137.999	4																	3210.5826	
	31137.780	4																	3210.6052	
2	31137.234	7	41325.730	-	10138.463	17	0.5	0.5	0.5	0.5	.50	2.41	191	0.560	2.402*	1842			3210.6563	
2	31136.921	9	8709.640	-	39846.560	1	3.5	4.5	3.5	4.5				0.308	1.021	713			3210.6938	DJ1
	31136.154	4																	3210.7729	
	31135.553	5																	3210.8230	
	31134.940	4																	3210.8981	
	31134.191	3																	3210.9753	
2	31133.182	8	40841.155	-	9707.980	7	5.5	6.5	5.5	6.5	1.127	1.505	.380	1.105	1.485	380			3211.0794	DJ1
	31132.715	4																	3211.1276	
	31132.165	7																	3211.1843	
	31131.358	4																	3211.2675	
1	31130.609	5	31130.605	-	0.000	4	1.0	0.0	1.0	0.0	2.35	.00		2.342	0.000	0		-68	3211.3448	
	31130.301	3																	3211.3766	
	31129.624	3																	3211.4464	
	31128.149	3																	3211.5986	
	31127.933	4																	3211.6209	
2	31127.637	9	36845.610	-	5717.976	3	4.5	3.5	4.5	3.5	1.180	1.59	.414	1.180	1.596	416		215*	3211.6514	
	31127.215	4																	3211.6950	
2	31126.339	4	8709.640	-	39835.970	9	.	.	3.5	3.5				0.308	0.850*	542		-227	3211.7854	
	31125.309	4																	3211.8916	
	31124.139	5																	3212.0124	ZR Q
	31124.023	4																	3212.0244	
	31123.264	3																	3212.1027	
	31121.925	3																	3212.2409	
	31121.522	7																	3212.2825	2LNS
	31121.522	7																	3212.2825	2LNS
2	31120.911	4	36833.925	-	5717.976	-38	.	.	3.5	3.5	1.746		.37	1.225	1.596	371		-230*	3212.3456	
	31120.393	7																	3212.3990	f SI
	31120.126	3																	3212.4266	
2	31119.499	4	16362.000	-	47481.485	14	.	.	4.5	3.5				1.050	1.000*	50			3212.4913	
	31117.923	3																	3212.6540	
	31117.723	3																	3212.6747	
	31116.038	4																	3212.8487	
	31115.519	3																	3212.9022	
2	31115.103	4	15778.634	-	46893.745	-8	.	.	1.5	1.5				1.133	0.670*	463			3212.9452	
	31114.552	3																	3213.0021	
	31113.412	3																	3213.1198	
2	31112.913	9	10436.770	-	41549.680	3*	4.5	5.5	4.5	5.5	.72	1.065	.345	0.724	1.070*	346			3213.1714	SI
	31112.400	4																	3213.2243	
	31112.028	4																	3213.2628	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	31111.174	5	9386.801-40497.975			0	.	.	5.0-	5.0	.	.	.	0.801	1.060*	259		-261	3213.3510	DJO
	31109.526	5					.	.			.	.	.						3213.5212	
	31109.165	5					1.5-	1.5			.	.	2027						3213.5585	JQ 2JDG
	31108.857	4					.	.			.	.	.						3213.5903	
2	31108.610	4	33123.580- 2014.966			-4	.	.	2.5-	1.5	.	.	.	1.285	1.881	596		115*	3213.6158	
2	31107.720	4	39745.960- 8638.233			-7	.	.	5.5-	5.5	.	.	.	1.185	1.514	329			3213.7078	
	31107.106	4					.	.			.	.	.						3213.7712	
	31106.865	4					.	.			.	.	.						3213.7961	
	31106.513	4					.	.			.	.	.						3213.8325	
	31103.012	7					.	.			.	.	.						3214.1943	ZR Q
	31102.802	3					.	.			.	.	.						3214.2160	
	31102.524	4					.	.			.	.	.						3214.2447	
1	31101.631	9	6313.866-37415.495			2	4.0-	5.0	4.0-	5.0	.	.	.497	0.487	0.980	493		-250	3214.3370	
	31100.778	4					.	.			.	.	.						3214.4251	
	31100.506	4					.	.			.	.	.						3214.4533	
	31100.235	3					.	.			.	.	.						3214.4813	
	31099.136	6					.	.			.	.	.						3214.5949	
	31098.750	3					.	.			.	.	.						3214.6348	
2	31097.883	9	8709.640-39807.520			3	3.5-	4.5	3.5-	4.5	.305	.725	.39	0.308	0.725	417			3214.7244	
	31097.336	3					.	.			.	.	.						3214.7758	
	31097.121	3					.	.			.	.	.						3214.8032	
	31096.728	3					.	.			.	.	.						3214.8438	
	31095.103	4					.	.			.	.	.						3215.0118	
1	31094.420	9	6313.866-37408.285			1	4.0-	4.0	4.0-	4.0	.487	1.037	.550	0.487	1.045	558		-199	3215.0824	
	31094.138	4					.	.			.	.	.						3215.1116	
2	31093.362	9	41819.660-10726.322			24	4.5-	4.5	4.5-	4.5	.	.	.240	1.150	1.391	241			3215.1918	
2	31093.073	4	16593.963-47687.019			17	.	.	2.5-	2.5	.	.	.	0.983	0.000*	0			3215.2217	
2	31092.141	7	42891.360-11799.241			22	.	.	4.5-	5.5	.	.	.	1.170	1.373*	203			3215.3181	
	31090.979	4					.	.			.	.	.						3215.4383	
2	31089.829	5	16593.963-47683.770			22	.	.	2.5-	3.5	.	.	.	0.983	1.090*	107			3215.5572	
	31089.440	4					.	.			.	.	.						3215.5974	
2	31088.960	4	15098.815-46187.750			25	.	.	1.5-	1.5	.	.	.	1.079	0.740	339			3215.6471	
2	31088.356	3	43095.860-12007.503			-1	.	.	1.5-	1.5	.	.	.	1.120	-0.019*	1139			3215.7096	
	31083.263	4					.	.			.	.	.						3215.7192	
	31087.612	4					.	.			.	.	.						3215.7865	
2	31035.120	6	17532.937-48618.050			7	3.5-	3.5	3.5-	3.5	.	.	.307	1.238	0.920*	318			3216.0443	
2	31084.535	4	38582.890- 7498.364			9	.	.	2.5-	2.5	.	.	.	1.120	1.321	201			3216.1049	
2	31084.134	9	36586.190- 5502.060			4	2.5-	1.5	2.5-	1.5	.	.	.14*	1.330	1.169	161			3216.1464	
1	31083.877	5	35383.505- 4299.659			31	.	.	3.0-	2.0	.	.	.	1.032	1.482	450			3216.1730	
2	31083.566	4	15657.156-46740.710			12	.	.	2.5-	1.5	.	.	.	1.000	0.930*	70			3216.2051	
	31081.814	4					.	.			.	.	.						3216.3864	
	31079.081	5					.	.			1.12	1.12	.						3216.6693	
	31078.808	5					.	.			.	.	.						3216.6975	
2	31077.454	4	38575.800- 7498.364			18	.	.	3.5-	2.5	.	.	.	1.150	1.321	171			3216.8377	
	31075.039	3					.	.			.	.	.						3217.0877	
2	31074.555	6	42873.785-11799.241			11	5.5-	5.5	5.5-	5.5	.	.	.17	1.215	1.373	158			3217.1378	
2	31074.257	4	40316.585- 9242.356			28	.	.	3.5-	3.5	.	.	.	1.085	1.369	284			3217.1687	
2	31073.991	3	12048.548-43122.525			14	.	.	1.5-	2.5	.	.	.	-0.054	0.000*	0			3217.1962	
	31072.678	3					.	.			.	.	.						3217.3321	
	31072.197	4					.	.			.	.	.						3217.3820	
	31071.241	4					.	.			.	.	.						3217.4809	
	31070.184	3					.	.			.	.	.						3217.5904	
	31069.066	3					.	.			.	.	.						3217.7062	
2	31067.795	4	13013.685-44081.440			40	.	.	5.5-	4.5	.	.	.	0.950	0.875	75			3217.8378	CQ
	31067.174	3					.	.			.	.	.						3217.9022	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	31065.994	4L											.78								
2	31065.156	7	39703.385-		8638.233	4	5.5-	5.5	5.5-	5.5	.	.	.425	1.090	1.514	424			3218.0244	DJ0 2JD6	
	31064.826	3									.	.	.						3218.1112		
	31064.690	3									.	.	.						3218.1454		
	31064.499	3									.	.	.						3218.1595		
	31063.767	3									.	.	.						3218.1793		
	31063.337	4									.	.	.						3218.2551		
	31060.478	3									.	.	.						3218.2997		
	31058.457	3									.	.	.						3218.5959		
	31058.200	3									.	.	.						3218.8053		
	31057.663	3									.	.	.						3218.8320		
	31057.296	3									.	.	.						3218.8876		
2	31056.901	9	36774.865-		5717.976	12	3.5-	3.5	3.5-	3.5	.	.	.47	1.127	1.596	469			3218.9257		
	31055.470	3									.	.	.						3218.9666		
	31053.209	3									.	.	.						3219.1150		
2	31048.832	7	41775.135-		10726.322	19	4.5-	4.5	4.5-	4.5	1.075	1.390	.31	1.070	1.391	321			3219.3493		
1	31048.274	5	8768.139-		39816.410	3*	2.0-	2.0	2.0-	2.0	.36	1.19	.83	0.362	1.190*	828			3219.8032		
	31047.731	4									.	.	.						3219.8611		
	31045.784	3									.	.	.						3219.9174		
	31044.236	3									.	.	.						3220.1193		
	31043.158	3									.	.	.						3220.2799		
	31043.110	4									.	.	.						3220.3917		
	31042.848	3									.	.	.						3220.3967		
1	31042.391	5	12159.465-		43201.845	11	4.0-	5.0	4.0-	5.0	.846	1.093	.247	0.844	1.090	246			3220.4239		
	31040.733	4									.	.	.						3220.4713	DJ1 SI	
	31039.370	4									.	.	.						3220.6428		
	31039.092	4									.	.	.						3220.7848		
1	31038.837	7	6313.866-		37352.720	-17	.	.	4.0-	3.0	.	.	.64	0.487	1.130*	643	-267		3220.8136	DJ1	
2	31033.277	6	42837.570-		11799.241	-52	.	.	5.5-	5.5	.	.	.	1.220	1.373	153			3220.8401	C2 CQ	
2	31038.277	6	38536.615-		7498.364	26	.	.	1.5-	2.5	.	.	.	1.000	1.321	321			3220.8982	C2	
2	31037.858	9	33052.825-		2014.966	-1	0.5-	1.5	0.5-	1.5	1.223	1.887	.664	1.242	1.881	639	21*		3220.9417		
	31037.404	3									.	.	.						3220.9888		
	31037.149	3									.	.	.						3221.0152		
2	31034.748	3	15778.634-		46813.360	22	.	.	1.5-	2.5	.	.	.	1.133	1.070*	63			3221.2644		
	31034.101	3									.	.	.						3221.3316		
	31033.616	3									.	.	.						3221.3819		
	31033.280	3									.	.	.						3221.4168		
2	31033.004	4	18720.075-		49753.063	16	.	.	3.5-	3.5	.	.	.	1.060	1.000*	60			3221.4455		
	31032.370	3									.	.	.						3221.5113		
2	31031.764	9	38530.110-		7498.364	18	2.5-	2.5	2.5-	2.5	.	.	.08	1.245	1.321	76			3221.5742		
	31031.378	4									.	.	.						3221.6143		
	31031.067	4									.	.	.						3221.6466		
	31029.237	4									.	.	.						3221.8366		
	31028.797	3									.	.	.						3221.8823		
	31028.560	4									.	.	.						3221.9069		
2	31026.770	3	13809.910-		44836.670	10	.	.	4.5-	4.5	.	.	.	0.657	1.085	428			3222.0928		
	31026.445	3									.	.	.						3222.1265		
	31025.984	4									1.19	1.19	.						3222.1744	HAZY	
	31024.386	3									.	.	.						3222.3404		
2	31023.561	5	10436.770-		41460.320	11	4.5-	3.5	4.5-	3.5	.72	.98	.26	0.724	0.980*	256			3222.4261		
	31021.740	3									.	.	.						3222.6152		
	31021.506	3									.	.	.						3222.6395		
	31017.843	3									.	.	.						3223.0201		
	31017.469	3									.	.	.						3223.0590		
	31016.505	3									.	.	.						3223.1592		

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	31014.407	4	41202.885-10188.463	-15	1.5-	0.5	1.5-	0.5	1.07	2.40	1.33	1.070	2.402*	1332						3223.3772	
2	31014.231	5	42813.440-11799.241	32	6.5-	5.5	6.5-	5.5	1.123	1.373	.250	1.185	1.373	188						3223.3955	
	31013.930	3																		3223.4268	
	31013.454	4																		3223.4763	
	31011.300	3																		3223.7002	
	31010.031	3																		3223.8321	
2	31009.624	4	15178.115-46137.750	-11	0.5-	1.5	0.5-	1.5	-0.08	.72	.80	-0.085	0.740	825						3223.8744	
	31009.336	3																		3223.9043	
	31003.838	4																		3223.9561	
	31007.845	4																		3224.0594	
	31006.916	7			3.5-	4.5														3224.1560	JQ SI
	31006.631	3																		3224.1856	
	31005.147	3																		3224.2359	
	31003.734	3																		3224.4869	
2	31002.817	4	13013.685-44016.500	2	.	.	5.5-	4.5				0.950	1.050*	100						3224.5823	
	31002.176	3																		3224.6489	
	31001.968	3																		3224.6706	
2	31000.020	9	31000.010- 0.000	10	1.5-	0.5	1.5-	0.5			1.50	1.669	3.150	1481				67		3224.8732	SO
	30999.558	3																		3224.9213	
	30999.167	3																		3224.9620	
	30998.918	3																		3224.9879	
2	30997.685	5	38276.535- 7278.862	12	.	.	5.5-	4.5			.35*	1.200	1.545*	345				4		3225.1161	DJ1
	30996.729	4																		3225.2156	
2	30995.059	4	15578.500-46573.500	59	.	.	6.5-	5.5				0.000	1.025*	0						3225.3894	
1	30994.805	4	6313.866-37308.707	-36	.	.	4.0-	4.0				0.487	1.040	553				-221		3225.4158	
2	30994.406	9	38492.760- 7498.364	10	3.5-	2.5	3.5-	2.5	1.086	1.311	.225	1.095	1.321	226						3225.4574	
	30993.032	4																		3225.6004	
2	30992.448	3	39630.685- 8638.233	-4	.	.	4.5-	5.5				1.125	1.514	389						3225.6611	
	30991.951	4																		3225.7129	
	30990.942	4																		3225.8179	
	30989.657	4																		3225.9517	
	30988.979	3																		3226.0222	
	30988.278	3																		3226.0952	
	30986.906	3																		3226.2381	
	30986.068	3																		3226.3253	
	30985.430	3																		3226.3865	
	30984.744	4																		3226.4632	
	30983.591	3																		3226.5833	
	30983.027	3																		3226.6420	
2	30981.880	3	16499.640-47481.485	35	.	.	3.5-	3.5				0.773	1.000	227						3226.7615	
2	30979.561	9	32994.525- 2014.966	2	1.5-	1.5	1.5-	1.5			.775	1.110	1.881	771						3227.0030	
	30978.820	3																		3227.0802	
1	30977.652	4	33181.270- 2203.606	-12*	.	.	1.0-	1.0	1.48	1.48		1.490	1.495*	5						3227.2019	
	30976.961	5																		3227.2739	
	30975.288	4																		3227.4482	
2	30974.751	5	41701.060-10726.322	13	.	.	5.5-	4.5				1.085	1.391	306						3227.5041	
	30974.425	3																		3227.5381	
	30972.880	3																		3227.6991	
	30972.648	3																		3227.7233	
2	30972.443	3	40214.805- 9242.356	-6	.	.	4.5-	3.5				1.320	1.369	49				4*		3227.7447	
2	30971.979	4	14295.565-45267.550	-6	.	.	3.5-	4.5				0.790	1.045	255						3227.7930	
2	30971.403	3	17532.937-48504.345	-5	.	.	3.5-	2.5				1.238	0.790*	448						3227.8530	
2	30971.103	9	41697.420-10726.322	5	3.5-	4.5	3.5-	4.5	1.13	1.39	.26	1.130	1.391*	261						3227.8843	
1	30970.661	4	33174.265- 2203.606	2	.	.	2.0-	1.0				0.864	1.495	631				-39		3227.9304	
	30970.105	3																		3227.9883	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
		30967.397	5									1.09	1.09							3228.2706	
		30966.648	3																	3228.3487	
		30966.401	4																	3228.3745	
1		30964.435	6	9386.801-40351.235		1	5.0-	5.0	5.0-	5.0		.800	1.070	.27	0.801	1.070	269			3228.5794	
		30964.155	3																	3228.6085	
		30963.090	3																	3228.7197	
2		30962.095	4	15778.634-46740.710		19	.	.	1.5-	1.5					1.133	0.930*	203			3228.8235	
		30961.919	3																	3228.8418	
		30960.055	3																	3229.0362	
		30959.831	3																	3229.0596	
2		30959.530	9	38238.390-7278.862		2	5.5-	4.5	5.5-	4.5	1.095	1.545	.450	1.095	1.545	450			3229.0910	SO	
2		30957.867	4	34193.640-3235.770		-3	.	.	1.5-	0.5					0.970	0.299*	671			3229.2644	
		30957.461	3																	3229.3068	
2		30956.079	7	34925.920-3969.846		5	.	.	2.5-	2.5					1.115	1.670	555	21*		3229.4510	
2		30955.673	9	40663.645-9707.980		8	5.5-	6.5	5.5-	6.5	1.135	1.485	.350	1.145	1.485	340			3229.4933		
		30955.073	8																	3229.5559	
		30954.194	4																	3229.6476	
		30953.649	5																	3229.7045	
		30952.728	4																	3229.8006	
2		30952.214	9	38231.070-7278.862		6	3.5-	4.5	3.5-	4.5	1.140	1.545	.41	1.130	1.545*	415			3229.8542		
		30951.783	4																	3229.8992	
		30951.471	4																	3229.9318	
		30951.197	3																	3229.9604	
		30950.327	4																	3230.0512	
		30949.886	4																	3230.0972	
		30949.492	3																	3230.1383	
		30949.231	3																	3230.1656	
2		30948.871	5	36666.870-5717.976		-23	.	.	2.5-	3.5					1.157	1.596	439			3230.2031	
		30948.398	4																	3230.2525	
		30946.595	3																	3230.4407	
2		30945.491	5	41133.945-10188.463		9	.	.	1.5-	0.5					1.210	2.402*	1192			3230.5560	
		30945.122	3																	3230.5945	
		30944.882	4																	3230.6195	
		30944.398	6				4.5-	4.5				1.19	1.39	.304						3230.6701	ZQ
2		30941.276	5	34911.115-3969.846		7	1.5-	2.5	1.5-	2.5				.38	1.300	1.670	370			3230.9961	
		30940.914	4																	3231.0339	
2		30939.253	7	40181.615-9242.356		-6	3.5-	3.5	3.5-	3.5	1.08	1.37	.293	1.080	1.369*	289			3231.2073		
		30938.244	3																	3231.3127	
		30937.984	4																	3231.3399	
		30937.238	3																	3231.4178	
2		30936.633	9	39574.860-8638.233		6	5.5-	5.5	5.5-	5.5	1.095	1.526	.431	1.070	1.514*	444			3231.4810		
		30935.823	3																	3231.5651	
		30934.606	5																	3231.6927	ZR Q
		30934.186	4																	3231.7366	
2		30933.820	4	15098.815-46032.640		-5	.	.	1.5-	1.5					1.079	0.000*	0			3231.7749	
2		30932.923	9	34902.775-3969.846		-1	3.5-	2.5	3.5-	2.5	1.156	1.673	.517	1.155	1.670	515	165		3231.8681		
		30931.909	3																	3231.9745	
		30931.623	3																	3232.0044	
		30931.269	3																	3232.0414	
		30930.340	3																	3232.1385	
		30929.961	4																	3232.1781	
1		30929.521	8	6313.866-37243.390		-3	4.0-	3.0	4.0-	3.0				.811	0.487	1.300*	813			3232.2241	2LNS
1		30929.521	8	30929.516-0.000		5	1.0-	0.0	1.0-	0.0					2.260	0.000	0	-74		3232.2241	2LNS
		30929.416	9																	3232.2350	
		30928.804	4																	3232.2990	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS D6	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30928.612	3																3232.3191	
	30927.835	3																3232.4003	
	30927.002	6																3232.4873	
	30926.536	3																3232.5361	
	30926.215	4																3232.5696	
2	30925.625	9	34895.470-	3969.846	1	3.5-	2.5	3.5-	2.5			.51	1.165	1.670	505	191	3232.6313	SOO	
2	30924.986	7	36642.955-	5717.976	7	.	.	3.5-	3.5				1.356	1.596	240	-58	3232.6981	DJO	
1	30923.717	4	35223.380-	4299.659	-4	.	.	3.0-	2.0				1.240	1.482*	242	-35*	3232.8307		
	30923.359	4																3232.8682	
	30923.004	4																3232.9053	
	30922.051	3																3233.0049	
	30921.562	3																3233.0560	
	30921.039	3																3233.1107	
2	30920.481	4	15657.156-	46577.625	12	.	.	2.5-	3.5				1.000	0.750*	250		3233.1691		
1	30918.776	4	37063.300-	6144.515	-9	4.0-	3.0	4.0-	3.0	.96	1.47	.51	0.965	1.473	508	49	3233.3474		
	30917.008	4																3233.5323	
	30916.319	3																3233.6044	
	30915.504	4																3233.6896	
	30914.192	3																3233.8268	
	30913.997	3																3233.8472	
2	30913.263	5	17242.750-	48156.010	3	2.5-	2.5	2.5-	2.5	1.22	.98	.24	1.200	0.920*	280		3233.9240	PBQ GQ	
	30912.847	3																3233.9676	
	30911.618	3																3234.0961	
	30911.324	5																3234.1269	ZR Q
	30910.913	5																3234.1699	
	30910.302	4																3234.2338	
	30910.003	3																3234.2651	
	30909.697	3																3234.2971	
	30909.415	5																3234.3266	
	30909.035	4																3234.3664	
	30908.748	3																3234.3964	
	30903.357	3																3234.4374	
	30906.852	3																3234.5949	
2	30906.183	9	40148.535-	9242.356	4	3.5-	3.5	3.5-	3.5			.31	1.060	1.369	309		3234.6649		
	30905.775	3																3234.7076	
	30905.486	3																3234.7378	
	30904.856	4																3234.8038	
	30904.557	3																3234.8351	
	30904.293	3																3234.8627	
2	30903.871	4	39542.145-	8638.233	-41	.	.	4.5-	5.5				0.985	1.514	529		3234.9069		
	30903.649	3																3234.9301	
2	30902.064	5	41628.325-	10726.322	61	.	.	4.5-	4.5				1.155	1.391	236		3235.0961		
	30901.365	4																3235.1692	
2	30899.995	5	42699.235-	11799.241	1	.	.	4.5-	5.5				1.195	1.373	178		3235.3127	DJ1	
	30898.750	3																3235.4430	
1	30898.441	4	6313.866-	37212.310	-3	4.0-	5.0	4.0-	5.0			.496	0.487	0.990	503	-246	3235.4754		
2	30896.839	9	11504.095-	42400.935	-1	3.5-	4.5	3.5-	4.5	.860	1.015	.155	0.859	1.000*	141		3235.6432		
	30896.389	4																3235.6903	
	30895.924	3																3235.7390	
	30895.534	3																3235.7798	
	30895.350	6																3235.7991	
2	30895.164	6	36613.145-	5717.976	-5	.	.	4.5-	3.5			.58	1.010	1.596*	586		3235.8186		
	30894.843	3																3235.8522	
	30894.121	3																3235.9278	
	30893.507	4																3235.9922	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30893.250	3																	3236.0191	
	30892.269	4																	3236.1218	
	30891.517	3																	3236.2006	
	30891.246	3																	3236.2290	
1	30890.732	5	9386.801	-	40277.550	-17*	5.0	-	5.0	5.0	-	5.0	.802	1.124	.322	0.801	1.125	324	3236.2829	
	30889.603	3																	3236.4012	
	30889.299	4																	3236.4330	
	30888.653	3																	3236.5002	
	30887.420	4																	3236.6299	
	30887.100	3																	3236.6634	
	30886.789	4																	3236.6960	
2	30886.146	5	16362.000	-	47248.155	-9	.	-	.	4.5	-	5.5	1.03	1.03		1.050	1.030*	20	3236.7634	
	30885.836	3																	3236.7959	
	30885.530	3																	3236.8280	
	30884.946	5																	3236.8892	
	30884.278	4																	3236.9592	
	30883.802	4																	3237.0091	
	30883.562	3																	3237.0342	
	30882.973	3																	3237.0960	
	30881.611	4																	3237.2387	
	30881.051	3																	3237.2975	
	30880.652	3																	3237.3393	
	30880.466	3																	3237.3588	
	30879.885	3																	3237.4197	
	30878.934	4																	3237.5142	
1	30878.573	5	35178.224	-	4299.659	8	.	-	.	3.0	-	2.0				1.070	1.482	412	3237.5573	71
	30877.437	4																	3237.6764	
	30877.101	3																	3237.7116	
	30876.326	3																	3237.7929	
	30875.408	4																	3237.8891	
	30875.185	3																	3237.9125	
2	30874.773	8	34844.620	-	3969.846	-1	1.5	-	2.5	1.5	-	2.5			.14	1.528	1.670	142	3237.9557	-55
	30874.503	3																	3237.9841	
	30874.055	3																	3238.0310	
2	30873.714	4	41062.170	-	10188.463	7	.	-	.	1.5	-	0.5				1.425	2.402	977	3238.0668	
	30872.749	3																	3238.1680	
2	30871.858	5	40114.225	-	9242.356	-11	.	-	.	4.5	-	3.5			.20*	1.135	1.369	234	3238.2615	DJ1
	30871.598	4																	3238.2888	
	30870.974	4																	3238.3542	
2	30869.861	9	42669.090	-	11799.241	12	6.5	-	5.5	6.5	-	5.5	1.10	1.375	.27	1.110	1.373	263	3238.4710	SO
	30869.396	3																	3238.5198	
	30868.905	3																	3238.5713	
2	30868.272	3	36586.190	-	5717.976	58	.	-	.	2.5	-	3.5				1.330	1.596	266	3238.6377	
	30867.815	3																	3238.6856	
	30867.505	3																	3238.7182	
	30867.204	3																	3238.7498	
1	30866.932	4	33070.573	-	2203.606	-15	2.0	-	1.0	2.0	-	1.0			.81	0.673	1.495	822	3238.7762	-175
	30865.515	3																	3238.9270	
	30864.973	4																	3238.9839	
	30864.781	3																	3239.0040	
1	30864.113	9	6313.866	-	37177.970	9	4.0	-	5.0	4.0	-	5.0	.485	1.125	.624	0.487	1.125	638	3239.0741	SI
	30863.763	3																	3239.1109	
	30863.084	4																	3239.1821	
	30862.685	4																	3239.2240	
	30862.344	4																	3239.2598	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS			TERM			OBS		TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS				
	30861.839	7					4.0-	4.0		.487	1.209	.722								3239.3128	
	30860.849	4																		3239.4167	
2	30860.646	4	38359.000-		7498.364	10	.	.	1.5-	2.5			0.995	1.321	326				3239.4380		
	30860.230	5																		3239.4754	
	30850.018	4																		3239.5039	
2	30859.552	3	42658.795-		11799.241	-2	.	.	6.5-	5.5			1.180	1.373	193				3239.5529		
	30859.084	4																		3239.6020	
	30858.500	4																		3239.6633	
	30858.072	4																		3239.7082	
	30855.963	3																		3239.8247	
	30856.426	3																		3239.8811	
	30855.528	4																		3239.9691	
	30855.162	5										.40								3240.0138	SO 2JD6
	30854.850	4																		3240.0466	
	30854.339	4																		3240.1002	
	30854.084	4																		3240.1270	
	30853.730	4																		3240.1642	
1	30853.126	4	36997.640-		6144.515	1	.	.	4.0-	3.0			1.256	1.473	217				3240.2276		
	30852.674	3																		3240.2751	
	30852.459	4																		3240.2977	
	30852.220	3																		3240.3228	
	30851.814	3																		3240.3654	
	30351.432	3																		3240.4055	
1	30850.322	3	12351.522-		43201.845	-1	.	.	6.0-	5.0			0.995	1.090	95				3240.5221		
	30849.682	3																		3240.5894	
	30848.419	4																		3240.7220	
2	30846.892	3	15641.100-		46488.000	-8	.	.	3.5-	2.5			1.040	1.000*	40				3240.8825		
	30846.363	3																		3240.9381	
	30845.962	4																		3240.9802	
	30845.340	5																		3241.0455	ZR Q
2	30845.157	4	14295.565-		45140.685	37	.	.	3.5-	2.5			0.790	0.850	60				3241.0648		
1	30844.228	4	33047.830-		2203.606	4	1.0-	1.0	1.0-	1.0		1.50	.29	1.207	1.495	288		37	3241.1624		
	30843.212	4																		3241.2692	
	30842.693	4																		3241.3237	
	30842.431	3																		3241.3512	
2	30842.067	9	34077.830-		3235.770	7	1.5-	0.5	1.5-	0.5	1.64	.30	1.34	1.650	0.299	1351		-77*	3241.3895		
	30841.606	3																		3241.4380	
	30841.228	5																		3241.4777	
	30840.770	3																		3241.5258	
	30840.397	3																		3241.5650	
2	30839.832	6	16362.000-		47201.830	2	.	.	4.5-	3.5			1.050	0.895*	155				3241.6244		
2	30839.099	9	38337.450-		7498.364	13	1.5-	2.5	1.5-	2.5	1.15	1.315	.19*	1.160	1.321	161			3241.7015		
	30838.842	4																		3241.7285	
	30838.035	3																		3241.8133	
	30837.654	4																		3241.8534	
2	30837.135	9	39475.380-		8638.233	-12	6.5-	5.5	6.5-	5.5	1.11	1.52	.407	1.110	1.514	404		79*	3241.9079		
	30835.592	4																		3242.0702	
	30835.309	4																		3242.0999	
	30834.567	5																		3242.1779	
1	30833.295	5	33036.920-		2203.605	-19	0.0-	1.0	0.0-	1.0	.000	1.498		0.000	1.495	0			3242.3117	DJ1 2LNS	
	30833.295	5											.15*							3242.3117	2LNS DJ1
	30833.016	4																		3242.3410	
	30832.591	4																		3242.3857	
	30832.128	3																		3242.4344	
2	30831.130	9	38109.990-		7278.862	2	3.5-	4.5	3.5-	4.5			.43	1.105	1.545	440		58*	3242.5394		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	30830.200	4																	3242.6372	
2	30829.670	5	12992.644	-	43822.335	-21	.	.	2.5-	2.5	.	.	.	0.643	0.950*	307			3242.6929	-171*
	30829.226	4					.	.			.	.	.						3242.7397	
	30828.782	3					.	.			.	.	.						3242.7864	
	30827.943	3					.	.			.	.	.						3242.8746	
	30827.625	3					.	.			.	.	.						3242.9081	
	30827.451	3					.	.			.	.	.						3242.9264	
2	30827.058	9	36545.045-		5717.976	-11	2.5-	3.5	2.5-	3.5	1.212	1.600	.388	1.330	1.596	266			3242.9677	74
2	30826.407	9	32841.375-		2014.966	-2	1.5-	1.5	1.5-	1.5	.	.	.63	1.234	1.881	647			3243.0362	-92
	30826.009	4					.	.			.	.	.						3243.0781	
	30825.758	3					.	.			.	.	.						3243.1045	
1	30825.228	4	33028.868-		2203.606	-34	.	.	2.0-	1.0	.	.	.	0.987	1.495	508			3243.1602	7
	30824.946	4					.	.			.	.	.						3243.1899	
	30824.721	5					.	.			.	.	.						3243.2136	
2	30824.348	9	36326.420-		5502.060	-12	2.5-	1.5	2.5-	1.5	.	.	.09	1.099	1.169	70			3243.2528	14*
	30823.915	4					.	.			.	.	.						3243.2984	
	30823.532	3					.	.			.	.	.						3243.3387	
2	30822.942	9	36540.920-		5717.976	-2	3.5-	3.5	3.5-	3.5	.	.	.407	1.200	1.596*	396			3243.4008	-33*
	30822.517	3					.	.			.	.	.						3243.4455	
	30822.174	4					.	.			.	.	.						3243.4816	
	30821.915	3					.	.			.	.	.						3243.5089	
	30821.674	3					.	.			.	.	.						3243.5342	
	30821.424	4					.	.			.	.	.						3243.5605	
	30820.751	3					.	.			.	.	.						3243.6314	
	30820.540	4					.	.			.	.	.						3243.6536	
	30819.714	4					.	.			.	.	.						3243.7405	
	30818.653	3					.	.			.	.	.						3243.8522	
	30817.318	4					.	.			.	.	.						3243.9927	
	30816.634	4					.	.			.	.	.						3244.0647	
1	30815.707	9	6313.866-		37129.590	-17	4.0-	5.0	4.0-	5.0	.485	1.010	.520	0.487	1.010	523			3244.1623	-187
	30815.333	4					.	.			.	.	.						3244.2017	
	30813.924	3					.	.			.	.	.						3244.3500	
2	30812.918	9	34048.700-		3235.770	-12	0.5-	0.5	0.5-	0.5	.38	.30	.08	0.400	0.299*	101			3244.4560	
	30812.600	4					.	.			.	.	.						3244.4894	
	30812.204	4					.	.			.	.	.						3244.5311	
2	30811.737	5	40054.100-		9242.356	-7	.	.	4.5-	3.5	.	.	.18*	1.160	1.369	209			3244.5803	
	30811.438	4					.	.			.	.	.						3244.6118	
2	30810.744	4	14476.135-		45226.880	-1	.	.	4.5-	5.5	.	.	.	1.060	1.000*	60			3244.6849	
2	30810.511	4	38308.875-		7498.364	0	.	.	3.5-	2.5	.	.	.	1.010	1.321*	311			3244.7094	
	30810.122	4					.	.			.	.	.						3244.7504	
	30809.909	3					.	.			.	.	.						3244.7728	
	30809.530	4					.	.			.	.	.36						3244.8128	
	30808.513	3					.	.			.	.	.						3244.9199	
	30808.414	4					.	.			.	.	.						3244.9303	
2	30807.877	5	42607.125-		11799.241	-7	.	.	4.5-	5.5	.	.	.	1.130	1.373	243			3244.9869	
	30807.278	4					.	.			.	.	.						3245.0500	
	30806.634	4					.	.			.	.	.						3245.1178	
	30806.267	5					.	.			.	.	.						3245.1565	
2	30805.801	9	32820.775-		2014.966	-8	2.5-	1.5	2.5-	1.5	1.321	1.889	.568	1.315	1.281	566			3245.2055	-74
2	30805.483	9	40047.795-		9242.356	44	.	.	3.5-	3.5	.	.	.	1.100	1.369*	269			3245.2390	
	30805.134	4					.	.			.	.	.						3245.2758	
	30804.731	7					.	.			.	.	.						3245.3183	
	30804.600	3					.	.			.	.	.						3245.3321	
	30804.079	4					.	.			.	.	.						3245.3870	
	30803.734	3					.	.			.	.	.						3245.4233	

DJ1 2JD6

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	G6	G2	G1	G6	IS	IS		
1	30803.260	5	35102.955	-	4299.659	-36	.	.	3.0-	2.0	.	.	.	1.390	1.482*	92	-90	3245.4733		
	30302.669	4					.	.			.	.	.					3245.5355	
	30302.351	3					.	.			.	.	.					3245.5690	
	30801.828	4					.	.			.	.	.					3245.6241	
	30801.524	3					.	.			.	.	.					3245.6562	
	30800.978	9					5.0-	6.0			.800	1.030	.230					3245.7137	EXACT	
	30300.429	3					.	.			.	.	.					3245.7716	
	30799.742	4					.	.			.	.	.					3245.8440	
	30799.415	4					.	.			.	.	.					3245.8784	
	30799.123	5					.	.			.	.	.					3245.9092	
2	30793.735	3	17073.340	-	47872.094	-19	.	.	1.5-	1.5	.	.	.	0.576	0.760*	184		3245.9501		
	30798.206	4					.	.			.	.	.					3246.0059	
	30797.097	3					.	.			.	.	.					3246.1228	
	30796.816	4					.	.			.	.	.					3246.1524	
	30796.326	4					.	.			.	.	.					3246.2040	
2	30795.761	5	42595.005	-	11799.241	-3	.	.	4.5-	5.5	.	.	.	1.115	1.373	258		3246.2636		
	30795.592	3					.	.			.	.	.					3246.2814	
2	30795.147	9	40503.160	-	9707.980	-33	5.5-	6.5	5.5-	6.5	1.115	1.485	.374	1.110	1.485*	375		3246.3283		
2	30794.931	9	30794.930	-	0.000	1	1.5-	0.5	1.5-	0.5	1.07	3.14	2.07	1.084	3.150	2066	-4	3246.3511		
	30794.455	3					.	.			.	.	.					3246.4002	
	30794.101	4					.	.			.	.	.					3246.4386	
	30792.664	4					.	.			.	.	.					3246.5901	
	30791.674	3					.	.			.	.	.					3246.6945	
2	30791.427	3	14476.135	-	45267.550	12	.	.	4.5-	4.5	.	.	.	1.060	1.045	15		3246.7205		
2	30791.104	3	16362.000	-	47153.090	14	.	.	4.5-	5.5	.	.	.	1.050	1.040*	10		3246.7546		
	30790.783	3					.	.			.	.	.					3246.7854	
	30790.393	4					.	.			.	.	.					3246.8296	
	30789.853	4					.	.			.	.	.					3246.8865	
	30788.790	3					.	.			.	.	.					3246.9986	
	30788.491	4					.	.			.	.	.					3247.0301	
2	30788.006	9	34757.860	-	3969.846	-8	3.5-	2.5	3.5-	2.5	1.200	1.670	.46	1.202	1.670	468	39	3247.0813	SO	
	30787.744	4					.	.			.	.	.					3247.1089	
	30787.509	3					.	.			.	.	.					3247.1337	
	30787.065	5					.	.			.	.	.					3247.1805	
	30786.818	4					.	.			.	.	.					3247.2066	
	30786.536	3					.	.			.	.	.					3247.2363	
	30786.296	4					.	.			.	.	.					3247.2617	
	30786.002	4					.	.			.	.	.					3247.2927	
	30785.758	3					.	.			.	.	.					3247.3184	
	30785.229	3					.	.			.	.	.					3247.3742	
2	30784.855	5	40973.325	-	10188.463	-7	.	.	0.5-	0.5	.	.	.	0.485	2.402	1917		3247.4137		
	30784.471	4					.	.			.	.	.					3247.4542	
	30784.331	3					.	.			.	.	.					3247.4689	
2	30733.448	9	39421.670	-	8638.233	11	4.5-	5.5	4.5-	5.5	1.100	1.515	.415	1.100	1.514	414		3247.5621	CU*	
	30782.981	3					.	.			.	.	.					3247.6114	
	30782.678	4					.	.			.	.	.					3247.6433	
	30782.354	4					.	.			.	.	.					3247.6775	
	30782.116	4					.	.			.	.	.					3247.7026	
	30781.814	4					.	.			.	.	.					3247.7345	
1	30781.544	5	32985.135	-	2203.606	15	.	.	2.0-	1.0	.	.	.	0.757	1.495	738	-48	3247.7630		
	30781.276	5					.	.			.	.	.					3247.7913	
	30780.853	4					.	.			.	.	.					3247.8359	
	30780.205	4					.	.			.	.	.					3247.9043	
	30779.814	4					.	.			.	.	.					3247.9455	
	30779.596	3					.	.			.	.	.					3247.9685	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
		30779.446	3																	3247.9844	
		30779.228	4																	3248.0074	
		30778.876	4																	3248.0445	
		30778.133	3																	3248.1229	
		30777.532	3																	3248.1864	
		30776.993	4																	3248.2432	
		30776.664	3																	3248.2780	
		30776.534	3																	3248.2917	
2		30776.086	7	42575.325-		11799.241	2	5.5-	5.5	5.5-	5.5	1.08	1.37	.29	1.090	1.373	283			3248.3390	
		30775.418	4																	3248.4095	
		30775.185	4																	3248.4341	
		30774.655	4																	3248.4900	
		30774.176	3																	3248.5406	
		30774.033	5																	3248.5557	
		30773.603	5																	3248.6011	TI Q
2		30773.168	9	40015.520-		9242.356	4	2.5-	3.5	2.5-	3.5	1.070	1.365	.285	1.070	1.369*	299			3248.6470	
2		30772.787	9	11504.095-		42276.885	-3	3.5-	4.5	3.5-	4.5			.270	0.859	1.120*	261			3248.6872	
2		30772.643	4	17242.750-		48015.425	-32	.	.	2.5-	3.5				1.200	1.080*	120			3248.7024	
		30772.372	3																	3248.7310	
2		30770.825	9	40013.240-		9242.356	1	2.5-	3.5	2.5-	3.5	1.183	1.36	.186	1.185	1.369	184			3248.8880	
2		30770.336	3	45203.630-		14433.351	7	.	.	2.5-	1.5				1.150	1.925*	775			3248.9460	
		30769.659	3																	3249.0175	
		30769.189	3																	3249.0671	
		30768.814	3																	3249.1067	
		30767.655	3																	3249.2260	
		30767.304	4																	3249.2662	
		30767.102	3																	3249.2875	
		30766.483	3																	3249.3529	
		30766.013	4									1.11	1.11							3249.4025	
		30765.401	3																	3249.4672	
		30764.742	4																	3249.5368	
		30764.057	5																	3249.6091	
		30763.553	4																	3249.6624	
		30761.746	4																	3249.8533	
1		30761.144	5	35060.819-		4299.659	-16	2.0-	2.0	2.0-	2.0			.35	1.125	1.482	357			3249.9169	
		30760.662	4									1.02	1.02							3249.9678	II
		30760.506	3																	3249.9843	
		30759.948	3																	3250.0433	
		30759.715	4																	3250.0679	
		30757.983	4																	3250.2509	
		30756.945	3																	3250.3606	
		30756.586	3																	3250.3985	ZR Q
		30755.848	5									.86		.40						3250.4765	f S02JD6
2		30755.329	3	20689.110-		51444.460	-21	.	.	3.5-	2.5				1.270	0.910*	360			3250.5314	
		30754.072	3																	3250.6642	
		30753.535	4																	3250.7210	
		30752.780	3																	3250.8008	
2		30752.341	5	36470.320-		5717.976	-3	3.5-	3.5	3.5-	3.5			.42	1.172	1.596	424			3250.8472	
		30751.415	3									1.00	1.00							3250.9451	
		30751.251	4									1.19	1.19							3250.9625	
		30750.319	3																	3251.0610	
		30749.610	3																	3251.1360	
		30749.365	4																	3251.1619	
		30748.577	4																	3251.2452	
		30748.358	3																	3251.2683	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
	30748.114	3																		3251.2941		
	30747.923	3																		3251.3143		
	30747.560	3																		3251.3527		
	30746.651	3																		3251.4488		
	30746.265	4																		3251.4897		
	30745.829	4																		3251.5358		
	30745.346	3																		3251.5869		
	30744.718	3																		3251.6533		
	30744.060	4																		3251.7229		
	30743.332	4																		3251.7999		
	30742.304	4																		3251.9086		
	30742.166	5																		3251.9232		
	30741.996	3																		3251.9412		
1	30740.964	6	9386.801-40127.800	-35*			5.0-	4.0	5.0-	4.0	.800	1.020	.215	0.801	1.020	219				3252.0504		
1	30740.783	9	8768.139-39508.910	12			2.0-	3.0	2.0-	3.0			.495	0.362	0.870	508				3252.0695	SI	
	30739.658	5											.20								3252.1885	SI
	30738.380	3																			3252.3238	
	30736.608	3																			3252.5113	5
	30734.853	3																			3252.6970	5
2	30734.416	7	39976.890- 9242.356-118				.	.	3.5-	3.5			.17*	1.170	1.369	199	-6*			3252.7433	2LNS CQ	
2	30734.416	9	38013.250- 7278.862	28			5.5-	4.5	5.5-	4.5			.405	1.145	1.545	400				3252.7433	SOO 2LNS	
	30734.041	4																			3252.7829	5
	30732.924	3																			3252.9012	5
2	30732.709	9	39370.905- 8638.233	37			.	.	5.5-	5.5			.365	1.160	1.514*	354	-21*			3252.9239	2LNS	
2	30732.709	9	38231.070- 7498.364	3			3.5-	2.5	3.5-	2.5			.17*	1.130	1.321*	191				3252.9239	SO 2LNS	
2	30731.899	5	41458.205-10726.322	16			.	.	4.5-	4.5				1.130	1.391	261				3253.0097	DJO	
	30731.727	3																			3253.0279	5
	30730.136	3																			3253.1963	5
	30729.837	3																			3253.2280	5
	30729.607	3																			3253.2523	5
	30729.212	3																			3253.2941	5
	30728.444	4																			3253.3754	5
	30727.255	3																			3253.5013	5
	30726.297	3																			3253.6028	5
	30726.143	3																			3253.6191	5
2	30725.138	9	41451.460-10726.322	0			5.5-	4.5	5.5-	4.5	1.18	1.39	.213	1.280	1.391	111	-228*			3253.7255		
	30724.611	6																			3253.7813	5
	30724.291	3																			3253.8152	5
2	30723.956	9	39362.185- 8638.233	4			4.5-	5.5	4.5-	5.5	1.068	1.514	.446	1.075	1.514	439				3253.8507		
	30723.387	5																			3253.9110	5
	30722.653	3																			3253.9887	5
	30722.234	3																			3254.0331	5
	30721.704	4																			3254.0892	5
	30720.823	3																			3254.1825	5
1	30720.629	4	10486.922-41207.555	-4			1.0-	2.0	1.0-	2.0	.355	.925	.570	0.355	0.925	570				3254.2031		
2	30718.787	4	12992.644-43711.415	16			.	.	2.5-	3.5				0.643	0.955	312				3254.3982		
2	30718.540	3	17296.905-48015.425	20			.	.	4.5-	3.5				0.494	1.080*	586				3254.4244	5	
2	30717.974	8	41444.280-10726.322	16			5.5-	4.5	5.5-	4.5			.328	1.065	1.391	326				3254.4844		
	30717.576	4																			3254.5265	5
1	30716.027	9	32919.605- 2293.606	28			.	.	1.0-	1.0	1.495	1.495		1.490	1.495*	5				3254.6907		
	30715.730	4																			3254.7221	5
2	30714.377	9	42513.590-11799.241	28			5.5-	5.5	5.5-	5.5	1.115	1.375	.26	1.115	1.373	258				3254.8655		
	30713.909	4																			3254.9151	5
	30713.534	4																			3254.9549	5
	30712.963	5																			3255.0154	HAZY 5

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30712.213	4															3255.0949	5
	30711.129	4															3255.2098	5
	30708.174	4															3255.5230	5
	30707.943	5															3255.5475	5
	30707.491	4															3255.5954	5
	30707.112	4															3255.6356	5
2	30706.877	5	37985.715-	7278.862	24	. . .	3.5-	4.5				1.180	1.545*	365			3255.6605	
	30704.911	4															3255.8690	5
	30704.353	4															3255.9282	5
2	30703.968	8	42503.155-	11799.241	54	6.5-	5.5	6.5-	5.5	1.09	1.37	.285	1.090	1.373	283		3255.9690	2LNS
2	30703.968	8	36206.050-	5502.060	-22	. . .	1.5-	1.5				0.870	1.169*	299			3255.9690	2LNS
	30702.976	3															3256.0742	5
	30701.826	4															3256.1962	5
	30701.540	4															3256.2265	5
	30700.970	6				0.5-	0.5		1.315	.300	1.02						3256.2870	
2	30700.897	6	40889.360-	10188.463	-10	1.5-	0.5	1.5-	0.5	1.35	2.40	1.05	1.350	2.402*	1052		3256.2958	
	30700.641	4															3256.3219	5
	30699.982	4															3256.3918	5
	30698.817	4															3256.5153	5
	30698.555	3															3256.5431	5
2	30698.173	9	34668.015-	3969.846	4	2.5-	2.5	2.5-	2.5			.485	1.175	1.670	495	41*	3256.5837	
1	30697.918	4	9386.801-	40084.697	22	. . .	5.0-	6.0				0.801	1.510	709	-298		3256.6107	5
	30695.553	4															3256.8616	5
	30692.937	4															3257.1392	5
2	30692.614	4	40400.610-	9707.980	-16	. . .	6.5-	6.5				1.180	1.485*	305			3257.1735	
2	30691.077	4	39933.405-	9242.356	28	. . .	3.5-	3.5				1.045	1.369	324			3257.3366	
	30690.513	4															3257.3965	5
	30689.661	4															3257.4869	5
	30689.433	4															3257.5111	5
	30688.433	3															3257.6173	5
	30688.212	3															3257.6407	5
	30688.064	4															3257.6564	5
	30686.432	4															3257.8297	5
1	30685.600	6	9386.801-	40072.380	21*	5.0-	5.0	5.0-	5.0	.800	1.098	.298	0.801	1.100	299		3257.9180	
	30685.332	4															3257.9465	5
	30685.138	4															3257.9671	5
2	30683.725	6	42482.960-	11799.241	6	. . .	6.5-	5.5				1.135	1.373	238			3258.1171	5
	30683.566	3															3258.1340	5
	30683.327	4															3258.1594	5
	30682.909	3															3258.2038	5
	30682.073	4															3258.2926	5
	30681.804	3															3258.3211	5
2	30681.334	9	34651.175-	3969.846	5	3.5-	2.5	3.5-	2.5			.630	1.047	1.670	623	86	3258.3710	
2	30680.418	3	17532.937-	48213.315	40	. . .	3.5-	3.5				1.238	1.040*	198			3258.4683	5
2	30678.288	5	37957.130-	7278.852	20	. . .	4.5-	4.5				1.160	1.545	385			3258.6946	
	30677.109	9				4.5-	5.5					.278					3258.8198	JQ SI
	30676.858	4															3258.8465	5
2	30676.193	4	42475.410-	11799.241	24	. . .	4.5-	5.5				1.140	1.373	233			3258.9171	
	30675.780	4															3258.9610	5
	30675.050	4															3259.0386	5
	30674.278	4															3259.1206	5
2	30673.661	4	15641.100-	46314.760	1	. . .	3.5-	3.5				1.040	1.055*	15			3259.1862	5
	30673.040	4															3259.2521	5
	30671.729	3															3259.3915	5
	30671.447	3															3259.4214	5

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
1	30571.053	9	30671.063-	0.000	-10	1.0-	0.0	1.0-	0.0	.79	.00	0.771	0.000	0	76					3259.4633			
	30670.642	4																			3259.5070	5	
	30670.169	4																			3259.5572	5	
	30668.876	4																			3259.6947	5	
	30668.692	4																			3259.7142	5	
	30667.141	4																			3259.8791	5	
2	30664.947	5	38163.310-	7498.364	1	. - .	1.5-	2.5				1.220	1.321	101						3260.1123			
2	30664.654	4	18720.075-	49384.725	4	. - .	3.5-	2.5				1.060	0.930*	130						3260.1435	5		
2	30663.537	5	15641.100-	46304.585	52	. - .	3.5-	2.5				1.040	0.980*	60						3260.2623	5		
	30661.692	5																		3260.4584	5		
2	30660.937	9	41387.240-	10726.322	19	. - .	5.5-	4.5				1.125	1.391	266						3260.5387	SO 2LNS		
2	30660.937	9	34630.775-	3969.846	8	1.5-	2.5	1.5-	2.5	1.20	1.67	.47	1.198	1.670	472	83*				3260.5387	SI 2LNS		
	30660.260	4																		3260.6107	5		
	30659.866	4																		3260.6526	5		
	30658.884	4																		3260.7571	5		
	30658.733	6																		3260.7731	5		
	30656.833	9																		3260.9752	5		
2	30656.603	9	33892.325-	3235.770	48	. - .	0.5-	0.5				.90	1.220	0.299	921					3260.9997			
	30656.340	4																		3261.0277	5		
2	30655.868	9	32670.835-	2014.966	-1	2.5-	1.5	2.5-	1.5			.525	1.361	1.881	520	-49				3261.0779			
	30655.636	4																		3261.1026			
	30653.359	5										.27								3261.3448	DJ02J065		
2	30652.423	9	39290.645-	8638.233	11	6.5-	5.5	6.5-	5.5	1.075	1.515	.440	1.075	1.514	439					3261.4444			
2	30651.586	5	12048.548-	42700.125	9	. - .	1.5-	2.5												3261.5335			
	30551.131	4																		3261.5819	5		
	30650.741	6																		3261.6234	5		
2	30650.463	4	12992.644-	43643.060	47	. - .	2.5-	3.5												3261.6530	5		
	30649.975	4																		3261.7049	5		
2	30649.233	9	39291.565-	9242.356	24	4.5-	3.5	4.5-	3.5	1.086	1.365	.29	1.090	1.369	279					3261.7839			
2	30647.437	4	15657.156-	46304.585	8	. - .	2.5-	2.5												3261.9750	5		
	30647.324	6																		3261.9871	5		
	30646.231	4																		3262.1034	5		
	30645.857	4																		3262.1432	5		
	30645.134	4																		3262.2202	5		
	30644.507	4																		3262.2869	5		
1	30644.251	7	6313.866-	36958.090	27*	4.0-	5.0	4.0-	5.0	.487	1.000	.513	0.487	1.000	513	-263				3262.3142	SI		
1	30642.861	5	9386.801-	40029.640	22	5.0-	5.0	5.0-	5.0	.800	1.230	.430	0.801	1.230	429	-265				3262.4622			
2	30641.854	4	16362.000-	47003.820	34	. - .	4.5-	3.5												3262.5694	5		
	30641.559	4																		3262.6008	5		
	30637.967	4																		3262.9897	5		
	30636.782	4																		3263.1095	5		
2	30636.379	9	40344.355-	9707.920	4	5.5-	6.5	5.5-	6.5			.32	1.165	1.485	320	-106*				3263.1525	SI		
2	30634.620	9	39876.970-	9242.356	6	4.5-	3.5	4.5-	3.5			.265	1.115	1.369	254					3263.3398	SOO		
	30634.282	4																		3263.3758	5		
	30633.466	5										.23								3263.4628	JQ 2J065		
	30633.253	4																		3263.4855	5		
	30632.454	5																		3263.5706	5		
2	30631.784	6	33867.535-	3235.770	19	1.5-	0.5	1.5-	0.5			1.34	1.670	0.299*	1371	43				3263.6420			
2	30631.277	5	39873.620-	9242.356	13	. - .	3.5-	3.5												3263.6960	5		
	30630.580	5																		3263.7703	5		
2	30629.437	5	13192.903-	43322.335	5	. - .	2.5-	2.5												0.372	0.950*	578	-175*
	30628.270	4																		3264.0164	5		
2	30627.237	8	36345.225-	5717.976	-12	. - .	3.5-	3.5												1.214	1.596	382	
	30626.887	4																		3264.1265			
2	30625.918	4	41352.185-	10726.322	55	. - .	4.5-	4.5												1.225	1.391	166	
																				3264.1638	5		
																				3264.2671	CQ		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	CBS J1	TERM J2	TERM J1	CBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES			
	30625.296	9										1.03	1.03							3264.3334	2LNS	5	
2	30625.296	9	37904.140-		7278.852	18	.	.	3.5-	4.5				1.275	1.545	270				3264.3334	2LNS	5	
2	30625.131	6	14476.135-		45101.220	46	.	.	4.5-	5.5		1.06	1.06	1.060	1.060*	0				3264.3510		5	
	30624.579	3																			3264.4098		5
2	30623.803	9	39866.140-		9242.356	19	2.5-	3.5	2.5-	3.5		1.10	1.377	.268		1.095	1.369	274		3264.4926		5	
	30622.134	4																			3264.6705		5
	30619.613	3																			3264.9393		5
2	30618.480	4	17532.937-		48151.405	12	.	.	3.5-	3.5					1.238	1.010	228			3265.0601		5	
	30617.746	4																			3265.1384		5
1	30617.383	9	6313.866-		36931.250	-1	4.0-	3.0	4.0-	3.0		.487	1.030	.543	0.487	1.030	543			3265.1771	SOO	5	
	30616.590	7										1.13	1.13								3265.2617	GQ	5
	30614.676	4																			3265.4658		5
2	30614.239	9	11504.095-		42118.305	29	3.5-	4.5	3.5-	4.5		.86	1.04	.183	0.859	1.040	181			3265.5124		5	
2	30614.053	5	42413.240-		11799.241	54	.	.	4.5-	5.5					1.055	1.373	318			3265.5323		5	
	30613.185	5																			3265.6248		5
	30612.791	4																			3265.6669		5
2	30611.834	9	39250.070-		8538.233	-3	4.5-	5.5	4.5-	5.5		1.155	1.51	.360	1.155	1.514	359			3265.7690	SI	5	
	30610.166	3																			3265.9470		5
2	30608.469	9	36326.420-		5717.976	25	2.5-	3.5	2.5-	3.5				.49	1.099	1.596	497			3266.1280	SI	5	
	30608.276	3																			3266.1486		5
	30608.188	5																			3266.1580		5
	30607.172	4																			3266.2664		5
1	30606.440	4	8768.139-		39374.580	-1	.	.	2.0-	3.0					0.362	0.885	523			3266.3446		5	
2	30605.396	5	13809.910-		44415.300	6*	.	.	4.5-	3.5					0.657	0.940	283			3266.4560		5	
	30605.147	4																			3266.4826		5
	30604.696	6																			3266.5307		5
2	30603.861	4	45296.930-		14693.090	21	.	.	1.5-	0.5					1.245	0.840	405			3266.6198		5	
	30603.608	4																			3266.6468		5
	30602.954	4																			3266.7166		5
	30601.740	4																			3266.8462		5
	30600.389	4																			3266.9905		5
	30599.453	5																			3267.0904		5
	30596.961	4																			3267.3565		5
	30596.455	5					5.5-	5.5						.28							3267.4105		5
	30592.947	4																			3267.7852		5
	30592.632	4																			3267.8189		5
2	30591.087	5	36309.025-		5717.976	38	.	.	2.5-	3.5					1.095	1.596	501			3267.9839		5	
2	30590.584	5	10436.770-		41027.335	19	.	.	4.5-	4.5					0.724	0.895	171			3268.0377		5	
2	30590.236	5	34560.050-		3969.846	32	.	.	1.5-	2.5					1.130	1.670	540			3268.0748		5	
2	30589.769	9	40297.730-		9707.980	19	5.5-	6.5	5.5-	6.5				.42	1.070	1.485	415			3268.1247	SI	5	
	30589.421	4																			3268.1619		5
	30588.398	4																			3268.2712		5
	30587.978	5																			3268.3161		5
	30586.070	4																			3268.5200		5
	30585.686	4																			3268.5610		5
	30585.118	4																			3268.6217		5
2	30584.639	9	33820.430-		3235.770	-21	1.5-	0.5	1.5-	0.5				1.05	1.410	0.299	1111			3268.6729		5	
	30583.581	9												1.88							3268.7860	2J06	5
	30582.822	4																			3268.8671		5
2	30582.596	9	36300.540-		5717.976	32	4.5-	3.5	4.5-	3.5				.47	1.142	1.596	454			3268.8913	SO	5	
2	30581.800	6	41508.120-		10726.322	2	5.5-	4.5	5.5-	4.5				.34*	1.040	1.391	351			3268.9764		5	
	30581.362	4																			3269.0232		5
	30579.624	4																			3269.2090		5
	30578.310	4																			3269.3495		5
	30577.741	4																			3269.4103		5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30577.006	4																	3269.4889	5
2	30576.568	4	12992.644-43559.180		32	.	.	2.5-	3.5	.	.	.	.	0.643	1.005	362			3269.5357	
	30575.488	4				.	.			.	.	.	.						3269.6512	5
	30575.157	4				.	.			.	.	.	.						3269.6866	5
	30574.880	4				.	.			.	.	.	.						3269.7163	5
	30574.009	4				.	.			.	.	.	.						3269.8094	5
	30571.995	4				.	.			.	.	.	.						3270.0248	5
	30571.131	4				.	.			.	.	.	.						3270.1172	5
	30570.475	4				.	.			.	.	.	.						3270.1874	5
	30569.471	4				.	.			.	.	.	.						3270.2948	5
1	30568.805	4	8768.139-39336.870		74	.	.	2.0-	1.0	.	.	.	.	0.362	1.025	663		-251	3270.3661	
	30568.190	3				.	.			.	.	.	.						3270.4319	5
	30566.145	4				.	.			.	.	.	.						3270.6507	5
1	30565.132	6	8768.139-39333.250		21	2.0-	2.0	2.0-	2.0	.	.995	.633	.	0.362	0.995	633			3270.7591	
	30564.335	4				.	.			.	.	.	.						3270.8443	5
	30563.895	4				.	.			.	.	.	.						3270.8915	5
	30563.199	3				.	.			.	.	.	.						3270.9660	5
2	30562.013	9	30562.000- 0.000		13	0.5-	0.5	0.5-	0.5	2.686	3.150	.464	.	2.689	3.150	461		62	3271.0929	
	30561.554	3				.	.			.	.	.	.						3271.1420	5
	30560.945	5				.	.			.	.	.	.						3271.2072	
	30560.597	4				.	.			.	.	.	.						3271.2445	5
	30560.382	4				.	.			.	.	.	.						3271.2675	5
	30559.589	4				.	.			.	.	.	.						3271.3524	5
2	30559.343	9	39801.675- 9242.356		24	4.5-	3.5	4.5-	3.5	.	.	.320	.	1.065	1.369	304			3271.3787	SO
	30559.086	3				.	.			.	.	.	.						3271.4062	5
	30558.990	4				.	.			.	.	.	.						3271.4165	5
2	30558.424	6	36060.445- 5502.060		39	.	.	1.5-	1.5	.	.	.	.	1.520	1.169*	351		24	3271.4771	
	30557.814	4				.	.			.	.	.	.						3271.5424	5
2	30557.485	5	14295.565-44853.015		35	.	.	3.5-	2.5	.	.	.	.	0.790	0.920*	130			3271.5776	
	30555.598	4				.	.			.	.	.	.						3271.7797	5
	30551.938	4				.	.			.	.	.	.						3271.8503	5
2	30553.999	9	37832.845- 7278.862		16	4.5-	4.5	4.5-	4.5	.	.	.29	.	1.250	1.545	295		-80	3271.9509	
	30553.466	4				.	.			.	.	.	.						3272.0080	5
	30553.059	5				.	.			.	.	.	.						3272.0516	5
	30552.726	4				.	.			.	.	.	.						3272.0872	5
	30552.447	3				.	.			.	.	.	.						3272.1171	5
2	30552.175	9	34522.010- 3969.846		11	2.5-	2.5	2.5-	2.5	.	.	.585	.	1.085	1.670	585			3272.1462	
	30551.707	4				.	.			.	.	.	.						3272.1964	5
	30551.453	5				.	.			.	.	.	.						3272.2236	5
	30548.268	4				.	.			.	.	.	.						3272.5648	5
2	30547.605	5	39185.820- 8638.233		18	.	.	5.5-	5.5	.	.	.	.	1.313	1.514	201		-45*	3272.6358	
	30547.441	3				.	.			.	.	.	.						3272.6534	5
	30547.360	5				.	.			.	.	.	.						3272.6620	5
	30547.162	4				.	.			.	.	.	.						3272.6832	5
2	30545.979	6	39788.335- 9242.356		0	2.5-	3.5	2.5-	3.5	1.095	1.360	.265	.	0.000	1.369	0			3272.8100	
	30544.525	4				.	.			.	.	.	.						3272.9658	5
	30543.450	4				.	.			.	.	.	.						3273.0810	5
2	30543.166	9	32558.100- 2014.966		32	0.5-	1.5	0.5-	1.5	1.380	1.890	.510	.	1.370	1.881*	511		59	3273.1114	
2	30542.292	4	15657.156-46199.395		53	.	.	2.5-	3.5	.	.	.	.	1.000	0.955	45			3273.2051	CQ
	30541.549	4				.	.			.	.	.	.						3273.2847	5
	30541.046	4				.	.			.	.	.	.						3273.3386	5
2	30540.762	6	32555.705- 2014.966		23	1.5-	1.5	1.5-	1.5	.	.	.60	.	1.269	1.881	612		-45*	3273.3691	
	30540.483	4				.	.			.	.	.	.						3273.3990	5
	30539.424	3				.	.			.	.	.	.						3273.5125	5
	30539.057	4				.	.			.	.	.	.						3273.5508	5

C	HA	NUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES			
								J2	J1	J2	J1							G2	G1			G6	G2	G1	G6	IS	IS
2	30538.630	9	36256.590- 5717.976	16				3.5-	3.5	3.5-	3.5	1.115	1.595	.480				1.115	1.596	481			3273.5976	
2	30539.460	9	39176.695- 8638.233	-2				6.5-	5.5	6.5-	5.5	1.185	1.520	.335				1.180	1.514	334		23*	3273.6158	
	30537.507	5																					3273.7180	5
	30536.756	4																					3273.7985	5
	30536.419	6																					3273.8346	5
	30536.050	5																					3273.8742	5
	30534.313	4																					3274.0605	5
2	30533.125	5	12048.548-42531.655	18				.	.	1.5-	1.5	.	.	.86				-0.054	0.790*	844			3274.1879	
	30532.096	4																					3274.2982	5
	30531.218	3																					3274.3924	5
	30530.901	4																					3274.4264	5
1	30529.433	4	34829.137- 4299.659	5				.	.	3.0-	2.0	.	.	.				1.125	1.482	357		-100	3274.5785	
2	30529.130	4	15235.771-45764.910	-9				.	.	0.5-	1.5	.	.	.				1.791	0.660*	1131			3274.6163	5
2	30528.257	9	37807.135- 7278.862	-6				3.5-	4.5	3.5-	4.5	1.090	1.545	.444				1.090	1.545*	455		-79*	3274.7089	SI
	30527.556	4																					3274.7852	5
2	30527.088	5	42326.310-11799.241	19				.	.	6.5-	5.5	.	.	.				1.095	1.373	278			3274.8354	
	30526.173	6										1.495	1.495	.0*									3274.9335	5
2	30525.990	4	15778.634-46304.585	39				.	.	1.5-	2.5	.	.	.				1.133	0.980*	153			3274.9532	5
2	30525.620	4	11504.095-42029.735	-20				.	.	3.5-	3.5	.	.	.				0.859	0.695	164			3274.9929	
	30524.894	4																					3275.0708	5
2	30524.386	9	36026.425- 5502.060	21				2.5-	1.5	2.5-	1.5	1.345	1.170	.175				1.344	1.169	175			3275.1253	
	30524.113	4																					3275.1546	5
	30524.095	1																					3275.1565	
1	30523.354	9	6313.866-36837.190	30*				4.0-	5.0	4.0-	5.0	.485	.965	.480				0.487	0.965	478			3275.2360	
	30522.815	4																					3275.2938	5
	30522.191	4																					3275.3608	5
	30520.034	4																					3275.5869	5
	30519.590	5																					3275.6400	5
	30519.138	5																					3275.6885	5
2	30518.616	9	10436.770-40955.385	1				4.5-	3.5	4.5-	3.5	.	.	.137				0.724	0.850	126		-166	3275.7445	
1	30517.628	9	8768.139-39285.760	7*				2.0-	2.0	2.0-	2.0	.	.	.66				0.362	1.020	658		-264	3275.8506	
2	30516.780	5	41243.080-10726.322	22				.	.	3.5-	4.5	.	.	.26				1.145	1.391	246			3275.9416	
	30516.252	4																					3275.9983	5
	30515.030	5																					3276.0221	5
2	30514.028	9	39152.255- 8638.233	6				4.5-	5.5	4.5-	5.5	1.187	1.520	.327				1.187	1.514	327			3276.2371	SI
2	30513.739	5	38012.065- 7498.364	38				.	.	2.5-	2.5	.	.	.				0.990	1.321*	331			3276.2681	
2	30513.419	4	18720.075-49233.475	19				.	.	3.5-	3.5	.	.	.				1.060	0.980*	80			3276.3024	5
2	30512.841	9	34482.680- 3969.846	7				2.5-	2.5	2.5-	2.5	1.305	1.660	.360				1.307	1.670	363			3276.3645	
	30510.989	4																					3276.5634	5
	30510.008	4																					3276.6687	5
	30509.496	4																					3276.7237	5
	30508.994	9						2.0-	3.0			.	.	.72									3276.7776	JQ
2	30508.702	8	13809.910-44318.570	42				.	.	4.5-	5.5	.	.	.53Q				0.657	1.035	378		-304*	3276.8090	IISIJCQ
1	30507.425	9	6313.866-36821.290	1				4.0-	5.0	4.0-	5.0	.485	1.162	.677				0.487	1.162	675		-283	3276.9462	
	30506.724	3																					3277.0215	5
	30506.482	3																					3277.0475	5
2	30506.182	6	32521.160- 2014.966	-12*				2.5-	1.5	2.5-	1.5	1.015	1.880	.865				1.020	1.881	861			3277.0797	
	30504.495	3																					3277.2609	5
	30502.719	3																					3277.4518	5
	30502.116	3						4.0-	5.0			1.112	1.435	.323									3277.5166	SI 5060Q
	30499.420	3																					3277.8063	5
2	30497.167	4	15657.156-46154.290	33				.	.	2.5-	3.5	.	.	.				1.000	1.090*	90			3278.0484	5
	30495.930	4																					3278.1814	5
2	30495.516	4	41221.810-10726.322	28				.	.	4.5-	4.5	.	.	.				1.180	1.391	211			3278.2259	5
	30494.870	3																					3278.2954	5

C	HAVERNUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1				G2	G1	DG	G2	G1			DG	IS	IS
	30494.478	3																	3278.3375	5
	30493.854	3																	3278.4046	5
	30493.079	3																	3278.4879	5
	30491.587	4																	3278.6484	5
2	30491.113	9	35993.175-	5502.060	-2	.	.	2.5-	1.5	.	.	.	.20	0.990	1.169*	179	77*	3278.6993	SOQ 2JD6
	30490.742	3																3278.7392	5	
	30490.435	3																3278.7722	5	
2	30490.023	9	39732.360-	9242.356	19	3.5-	3.5	3.5-	3.5	.	.	.	.095	1.275	1.369	94	-51	3278.8165	
	30489.638	3																3278.8579	5	
	30489.458	3																3278.8773	5	
2	30489.057	9	39127.295-	8638.233	-5	5.5-	5.5	5.5-	5.5	1.185	1.520	.36		1.179	1.514	335	36*	3278.9204		
	30488.737	3																3278.9548	5	
	30488.164	3																3279.0165	5	
2	30487.358	9	37985.715-	7498.364	7	3.5-	2.5	3.5-	2.5	.	.	.	.15*	1.180	1.321*	141		3279.1032	SO
	30486.960	4																3279.1460	5	
2	30485.284	9	33721.040-	3235.770	14	1.5-	0.5	1.5-	0.5	1.240	.300	.940		1.228	0.299	929	52	3279.3263		
	30484.583	3																3279.4017	5	
	30484.290	3																3279.4332	5	
	30483.204	3																3279.5500	5	
2	30482.508	4	17532.937-	48015.425	20	.	.	3.5-	3.5	.	.	.		1.238	1.080*	158		3279.6249		
	30481.831	3																3279.6978	5	
2	30481.463	5	37979.815-	7498.364	12	1.5-	2.5	1.5-	2.5	1.10	.	.21		1.100	1.321*	221		3279.7374		
	30479.580	3																3279.9400	5	
	30479.056	6				5.0-	5.0			.800	1.110	3.10						3279.9964	5555Q2J5	
	30478.497	3																3280.0565	5	
	30478.214	6											.11					3280.0870	DJ12JD65	
1	30477.512	9	6313.866-	36791.380	-2	4.0-	5.0	4.0-	5.0	.485	1.025	.54		0.487	1.025	538		3280.1625		
	30477.150	3																3280.2015	5	
	30476.866	3																3280.2321	5	
2	30474.124	6	42273.350-	11799.241	15	.	.	6.5-	5.5	.	.	.		1.065	1.373	308		3280.5272		
	30473.707	3																3280.5721	5	
	30473.239	4																3280.6225	5	
	30471.640	3																3280.7947	5	
	30470.790	5																3280.8862	5	
1	30470.232	6	6313.866-	36734.100	-2	4.0-	3.0	4.0-	3.0	.485	1.115	.617		0.487	1.115	628	-242	3280.9463		
	30468.439	3																3281.1394	5	
	30467.283	4																3281.2638	5	
	30466.443	3																3281.3543	5	
1	30466.110	5	32669.730-	2203.606	-14*	2.0-	1.0	2.0-	1.0	.965	1.495	.530		0.965	1.495	530		3281.3902		
	30464.818	3																3281.5294	5	
	30463.667	3																3281.6533	5	
	30462.865	4																3281.7397	5	
1	30462.624	7	30462.625-	0.000	-1	1.0-	0.0	1.0-	0.0	1.265	.000			1.250	0.000	0	83	3281.7657		
	30460.531	3																3281.9912	5	
2	30459.085	3	37957.445-	7498.364	4	.	.	2.5-	2.5	.	.	.		1.260	1.321*	61		3282.1470	C2	
1	30459.085	3	36603.601-	6144.515	-1	.	.	4.0-	3.0	.	.	.		1.134	1.473	339	-1	3282.1470	C2	
2	30458.883	3	12992.644-	43451.520	7	.	.	2.5-	1.5	.	.	.		0.643	1.190*	547		3282.1688		
	30458.333	3																3282.2281	5	
	30457.923	3																3282.2722	5	
	30457.462	4																3282.3219	5	
	30457.207	4																3282.3494	5	
2	30456.720	7	41183.055-	10726.322	-13	.	.	3.5-	4.5	.	.	.		1.100	1.391	291		3282.4019		
	30456.373	3																3282.4393	5	
2	30455.520	4	42254.735-	11799.241	26	.	.	5.5-	5.5	.	.	.		1.180	1.373	193	40*	3282.5312		
	30454.714	3																3282.6181	5	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	30454.182	6											.18						3282.6755	S02LQ2J5
2	30451.291	4	13013.685-43464.975			1	5.5-	5.5	5.5-	5.5	.95	1.06	.116	0.950	1.050*	100			3282.9871	DJ02JDG5
	30449.545	3																	3283.1754	5
	30449.170	3																	3283.2158	5
	30447.857	3																	3283.3574	5
	30446.230	5																	3283.5329	SI 5
2	30445.826	6	39688.175- 9242.356			7	4.5-	3.5	4.5-	3.5			.25*	1.140	1.369	229			3283.5764	SO 5
	30445.370	3																	3283.6256	5
	30445.067	3																	3283.6583	5
	30444.831	5																	3283.6837	5
2	30444.377	5	12992.644-43437.020			1	.	.	2.5-	3.5				0.643	0.960*	317			3283.7327	
	30443.879	3																	3283.7864	5
2	30443.346	9	39081.580- 8638.233			-1	4.5-	5.5	4.5-	5.5	1.215	1.520	.305	1.207	1.514	307			3283.8439	SI 5
	30442.474	4																	3283.9380	5
2	30441.491	9	37720.350- 7278.862			3	4.5-	4.5	4.5-	4.5	1.130	1.545	.415	1.145	1.545	400		43	3284.0440	
	30441.247	3																	3284.0704	5
	30440.813	3																	3284.1172	5
	30440.497	3																	3284.1513	5
	30439.775	3																	3284.2292	5
1	30438.751	5	9386.801-39825.550			2	5.0-	4.0	5.0-	4.0	.800	1.030	.23	0.801	1.030	229		-244	3284.3397	
1	30438.152	4	38212.799- 7774.653			6	.	.	5.0-	4.0				1.170	1.463	293		-73	3284.4043	
2	30437.746	3	19466.530-49904.305			-29	.	.	4.5-	3.5				1.151	0.000*	0			3284.4481	CQ 5
	30436.291	3																	3284.6051	5
	30435.615	4																	3284.6781	5
	30435.285	5																	3284.7137	5
	30435.026	4																	3284.7417	5
2	30434.545	5	40142.525- 9707.980			0	6.5-	6.5	6.5-	6.5			.320	1.165	1.485	320			3284.7936	
	30434.356	5																	3284.8140	5
	30434.088	3																	3284.8429	5
	30433.764	3																	3284.8779	5
	30432.139	3																	3285.0533	5
	30431.199	3																	3285.1548	5
	30430.601	5																	3285.2193	5
	30430.121	3																	3285.2711	5
	30429.415	3																	3285.3474	5
	30429.085	3																	3285.3830	5
	30428.768	3																	3285.4172	5
2	30428.266	4	14295.565-44723.835			-4	.	.	3.5-	2.5				0.790	0.810*	20			3285.4714	
	30428.041	3																	3285.4957	5
	30427.787	4																	3285.5232	5
	30426.253	5																	3285.6888	5
	30425.879	4																	3285.7292	5
	30425.404	3																	3285.7805	5
	30424.796	9																	3285.8462	2LNS 5
	30424.677	9					2.0-	3.0			.360	1.010							3285.8590	2LNS 5
	30424.027	4																	3285.9292	5
	30423.604	3																	3285.9749	5
1	30423.350	4	34723.000- 4299.659			9	.	.	2.0-	2.0				1.280	1.482*	202		-35*	3286.0023	
	30422.660	3																	3286.0769	5
2	30422.292	5	40130.265- 9707.980			7	.	.	5.5-	6.5				1.150	1.485	335			3286.1166	
	30422.021	3																	3286.1459	5
	30421.345	4																	3286.2189	5
	30420.989	3																	3286.2574	5
	30420.693	3																	3286.2894	5
	30420.225	4																	3286.3334	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
2	30419.589	9	39057.820-		8638.233	2	4.5-	5.5	4.5-	5.5	1.155	1.520	.355	1.156	1.514	358		159	3286.4086			
	30419.055	5																		3286.4663	5	
	30418.691	3																		3286.5056	5	
	30418.149	4																		3286.5642	5	
	30417.913	4																		3286.5897	5	
	30417.589	4																		3286.6247	5	
	30417.354	3																		3286.6501	5	
	30415.971	4																		3286.7996	5	
	30415.128	4																		3286.8907	5	
	30414.753	3																		3286.9312	5	
1	30414.351	6	8768.139-		39182.490	0	.	.	2.0-	2.0	.	.	.	0.362	0.990*	628			-284	3286.9746		
1	30413.847	9	6313.866-		36727.705	8	4.0-	3.0	4.0-	3.0	.485	.905	.420	0.487	0.905	418			-187	3287.0291		
	30413.072	3																			3287.1129	
	30412.806	3																			3287.1416	5
	30412.563	3																			3287.1679	5
1	30411.190	7	34710.860-		4299.659	-11	2.0-	2.0	2.0-	2.0	1.170	1.480	.31	1.170	1.482	312				3287.3163		
2	30409.908	3	16593.963-		47003.820	51	.	.	2.5-	3.5	.	.	.	0.983	0.935	48				3287.4549		
	30409.462	3																			3287.5031	5
2	30409.159	4	15778.634-		46187.750	43	.	.	1.5-	1.5	.	.	.	1.133	0.740	393				3287.5359	5	
	30408.777	3																			3287.5772	5
2	30408.299	9	42207.525-		11799.241	15	6.5-	5.5	6.5-	5.5	1.145	1.375	.230	1.140	1.373	233			-32	3287.6288		
	30407.994	4																			3287.6618	5
	30407.697	4																			3287.6939	5
2	30407.283	4	41133.595-		10726.322	10	.	.	3.5-	4.5	.	.	.	1.195	1.391	196				3287.7387		
2	30406.611	4	40595.070-		10188.463	4	.	.	1.5-	0.5	.	.	.	0.825	2.402	1577				3287.8114		
	30406.249	3																			3287.8505	5
2	30405.787	9	37904.140-		7498.364	11	3.5-	2.5	3.5-	2.5	1.275	1.315	.040	1.275	1.321	46			-12*	3287.9005		
	30404.974	3																			3287.9884	5
	30403.873	4																			3288.1075	5
1	30403.438	6	9724.351-		40127.800	-11*	3.0-	4.0	3.0-	4.0	.445	1.020	.575	0.442	1.020	578				3288.1545		
	30403.093	4																			3288.1918	5
	30402.813	3																			3288.2221	5
	30402.250	4																			3288.2830	5
2	30401.821	5	44392.825-		13990.952	8	1.5-	1.5	1.5-	1.5	.	.	.74	0.950	1.728*	778				3288.3229	5	
2	30400.694	9	35902.735-		5502.060	19	1.5-	1.5	1.5-	1.5	1.605	1.170	.435	1.605	1.169	436			43	3288.4513		
1	30399.402	5	32603.005-		2203.606	3	1.0-	1.0	1.0-	1.0	.920	1.495	.575	0.920	1.495	575				3288.5911		
2	30398.783	6	33634.550-		3235.770	8	1.5-	0.5	1.5-	0.5	1.240	.300	.94	1.230	0.299*	931			55*	3288.6575		
2	30395.630	9	35897.685-		5502.060	5	0.5-	1.5	0.5-	1.5	2.170	1.175	.995	2.170	1.169*	1001				3288.9992		
2	30395.208	5	14295.565-		44690.770	3	.	.	3.5-	4.5	.	.	.	0.790	0.000*	0				3289.0448	5	
	30394.977	4																			3289.0698	5
	30394.396	4																			3289.1327	5
1	30393.308	3	34692.946-		4299.659	21	.	.	3.0-	2.0	.	.	.	1.191	1.482	291			-49	3289.2505		
1	30391.959	4	8768.139-		39160.120	-22*	2.0-	1.0	2.0-	1.0	.360	1.230	.870	0.362	1.230	868				3289.3965		
	30391.297	4																			3289.4681	5
2	30390.402	3	15641.100-		46031.465	37	.	.	3.5-	2.5	.	.	.	1.040	0.800*	240				3289.5650	5	
	30390.251	4																			3289.5803	5
	30389.466	4																			3289.6663	5
1	30389.071	9	9386.801-		39775.870	2	5.0-	4.0	5.0-	4.0	.800	.935	.185	0.801	0.985	184			-206	3289.7091		
2	30388.355	9	39630.685-		9242.356	36	.	.	4.5-	3.5	.	.	.	1.125	1.369	244				3289.7855		
2	30386.942	4	17296.905-		47623.770	77	.	.	4.5-	3.5	.	.	.	0.494	1.090*	596				3289.9396	5	
2	30386.597	9	37665.440-		7278.262	19	4.5-	4.5	4.5-	4.5	1.105	1.545	.440	1.105	1.545	440			-50*	3289.9769		
2	30385.290	9	35828.345-		5502.060	5	2.5-	1.5	2.5-	1.5	.965	1.170	.205	0.965	1.169	204			112*	3290.0102		
	30385.795	4																			3290.0638	5
2	30385.900	8	33619.660-		3235.770	10	0.5-	0.5	0.5-	0.5	1.485	.300	1185	1.470	0.299	1171			60	3290.2590		
2	30383.198	9	32398.160-		2014.966	4	2.5-	1.5	2.5-	1.5	1.305	1.880	.575	1.308	1.881	573			188*	3290.3450		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES			
	30382.678	4																	3290.4013	5			
	30381.757	4																	3290.5011	5			
2	30380.752	4	15098.815-45479.584	-17					1.5- 2.5					1.079	0.895	184			3290.6099				
1	30380.337	4	9724.351-40104.650	38					3.0- 2.0					0.442	1.090	648	-278		3290.6549	5			
2	30377.547	8	40566.005-10188.463	5			0.5-	0.5	0.5- 0.5		1.170	2.400	1230					1.170	2.402*	1232			
	30377.380	3																			3290.9752	5	
2	30376.841	4	13809.910-44186.735	16					4.5- 5.5						0.657	1.090*	433				3291.0336		
	30376.581	6																				3291.0618	5
2	30376.137	9	37874.470- 7498.364	31			1.5-	2.5	1.5- 2.5		1.030	1.315	.285		1.030	1.321	291				3291.1099		
	30375.825	3																				3291.1437	5
	30374.874	6																				3291.2467	5
2	30374.353	4	15657.156-46031.465	44					2.5- 2.5						1.000	0.800*	200				3291.3032	5	
	30374.052	4																				3291.3358	5
	30373.158	4																				3291.4327	5
	30372.938	3																				3291.4565	5
	30371.122	3																				3291.6533	5
	30370.292	4																				3291.7433	5
	30370.022	6					7.5-	6.5			1.732		117									3291.7726	f SI2J06
	30369.247	4																				3291.8566	
	30369.003	4																				3291.8830	5
	30368.724	4																				3291.9133	5
	30367.348	4																				3292.0624	5
	30365.810	4																				3292.2292	5
	30365.165	4																				3292.2991	5
2	30364.780	4	8198.666-38563.445	1					2.5- 2.5						0.414	1.085	671				3292.3409		
	30364.642	6																				3292.3558	5
	30363.153	4																				3292.5162	5
1	30362.757	9	6313.866-35676.620	3			4.0-	4.0	4.0- 4.0		.485	1.140	.655		0.487	1.150*	663	-349			3292.5602		
	30362.258	4																				3292.6143	5
	30361.609	4																				3292.6847	5
2	30360.747	5	12992.644-43353.370	21					2.5- 3.5						0.643	0.970*	327				3292.7782		
	30359.948	6					4.0-	4.0					.145									3292.8649	JQ D6Q 5
2	30358.985	8	38997.205- 8638.233	13			5.5-	5.5	5.5- 5.5		1.080	1.520	.440		1.073	1.514	441	182			3292.9693		
	30358.284	4																				3293.0454	5
	30357.165	4																				3293.1668	5
	30356.939	4																				3293.1913	5
1	30356.367	5	34656.014- 4299.659	12					3.0- 2.0						1.110	1.482	372	-44			3293.2533		
	30355.866	5																				3293.3077	5
	30354.740	4																				3293.4299	5
1	30353.114	9	9386.801-39739.870	45*			5.0-	6.0	5.0- 6.0		.800	1.140	.340		0.801	1.140	339	-266			3293.6063		
	30352.236	4																				3293.7016	5
	30351.651	3																				3293.7650	5
1	30351.317	5	34650.965- 4299.659	11					2.0- 2.0						1.250	1.482*	232	-55*			3293.8013		
	30350.620	3																				3293.8769	5
	30350.211	4																				3293.9213	5
	30349.805	5																				3293.9654	5
1	30348.734	5	32552.325- 2203.606	15			2.0-	1.0	2.0- 1.0		.990	1.495	.505		0.982	1.495	513	-59			3294.0816		
	30346.962	5									1.095	1.095										3294.2740	5
	30345.867	4																				3294.3929	5
	30344.662	4																				3294.5237	5
1	30343.412	4	9386.801-39730.200	13			5.0-	4.0	5.0- 4.0		.800	1.025	.225		0.801	1.025	224				3294.6594	5	
2	30341.489	9	37839.835- 7498.364	18			3.5-	2.5	3.5- 2.5		1.220	1.315	.095		1.220	1.321	101				3294.8682		
	30341.011	4																				3294.9201	5
2	30340.189	5	42139.380-11799.241	50					6.5- 5.5						1.150	1.373	223				3295.0094		
1	30339.434	5	11840.715-42180.150	-1*			3.0-	4.0	3.0- 4.0		.838	1.030	.192		0.811	1.020*	209				3295.0914		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30338.859	3																	3295.1539	5
	30338.468	2																	3295.1963	
	30335.084	4																	3295.5639	5
	30333.790	5																	3295.7045	5
	30332.764	4																	3295.8160	5
2	30331.719	7	39574.070-	9242.356	5	2.5-	3.5	2.5-	3.5	.985	1.365	.380	0.990	1.369*	379			3295.9296		
2	30330.331	7	34300.160-	3969.846	17	2.5-	2.5	2.5-	2.5			.302	1.370	1.670*	300			3296.0804		
	30330.101	5										.40							3296.1054	DJ12JG65
	30329.620	4																	3296.1577	5
	30329.217	4																	3296.2015	5
1	30328.947	5	8768.139-	39097.075	11	2.0-	3.0	2.0-	3.0	.360	1.345	.985	0.362	1.345	983			3296.2308		
	30327.536	4																	3296.3842	5
	30326.725	4																	3296.4658	5
1	30326.536	4	6313.866-	36640.400	2	.	.	4.0-	3.0				0.487	1.035	548		-205	3296.4929		
	30324.514	4																	3296.7127	5
	30324.125	3																	3296.7550	5
1	30323.697	4	9724.351-	40048.080	-32*	.	.	3.0-	3.0				0.442	1.005	563			3296.8015		
	30323.021	4																	3296.8750	5
1	30322.697	9	9386.801-	39709.460	38*	5.0-	5.0	5.0-	5.0	.800	1.068	.268	0.801	1.070	269		-238	3296.9102		
	30322.420	4																	3296.9404	5
	30321.973	4																	3296.9890	5
	30321.032	4																	3297.0913	5
	30320.768	4																	3297.1200	5
	30320.217	4																	3297.1799	5
	30319.174	4																	3297.2933	5
2	30317.634	5	13013.685-	43331.310	9*	5.5-	5.5	5.5-	5.5			.103	0.950	1.055	105			3297.4608		
	30317.358	4																	3297.4909	5
	30316.156	5																	3297.6216	5
	30315.556	4																	3297.6869	5
	30315.468	3																	3297.6964	
	30314.887	5																	3297.7597	5
1	30313.972	9	6313.866-	36627.825	13	4.0-	4.0	4.0-	4.0	.485	.975	.490	0.487	0.980	493		-174	3297.8592		
1	30313.526	3	38088.180-	7774.653	-1*	.	.	4.0-	4.0				1.230	1.463*	233			3297.9077		
	30312.745	4																	3297.9927	5
2	30310.946	6	37589.795-	7278.862	13	.	.	5.5-	4.5			.435	1.120	1.545*	425			3298.1884		
	30309.622	4																	3298.3325	5
2	30308.787	9	37807.135-	7498.364	16	3.5-	2.5	3.5-	2.5	1.083	1.315	.232	1.090	1.321*	231		-63*	3298.4234	SO	
2	30308.487	9	36026.425-	5717.976	38	2.5-	3.5	2.5-	3.5	1.340	1.590	.250	1.344	1.596	252			3298.4560	SI	
	30308.037	4																	3298.5050	5
	30307.729	5																	3298.5385	5
	30305.995	4																	3298.7273	5
	30305.362	6																	3298.7962	5
	30304.649	4																	3298.8738	5
	30304.327	4																	3298.9088	5
2	30303.814	4	41030.115-	10726.322	21	.	.	3.5-	4.5				1.100	1.391*	291			3298.9647		
1	30303.692	3	9724.351-	40023.005	38	.	.	3.0-	2.0				0.442	0.980*	538			3298.9780		
	30302.868	4																	3299.0677	5
1	30302.181	6	9386.801-	39688.930	2	5.0-	4.0	5.0-	4.0	.80	.98	.18	0.801	0.980*	179			3299.1425		
2	30301.300	4	48967.305-	18666.006	1	.	.	3.5-	2.5				1.090	1.365	275			3299.2384		
	30300.766	4																	3299.2966	5
2	30299.832	8	39542.145-	9242.356	43	4.5-	3.5	4.5-	3.5			.390	0.985	1.369	384			3299.3983	SOO	
	30299.507	4																	3299.4336	5
	30298.775	4																	3299.5134	5
	30297.185	3																	3299.6865	5
	30296.216	4																	3299.7921	5

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1		
	30295.497	3																	3299.8704	5
	30294.430	5																	3299.9812	5
	30290.366	3																	3300.4294	5
	30288.347	4																	3300.6494	5
	30283.035	6									.875		.25						3300.6834	f SO2JD6
	30283.909	4																	3300.8061	5
	30283.318	4																	3300.8705	5
2	30285.150	9	37564.000-	7278.862	12		4.5-	4.5	4.5-	4.5	1.120	1.545	.425	1.120	1.545*	425		3300.9978		
	30283.226	4																	3301.2076	5
2	30281.195	6	8709.640-	38990.840	-5		.	.	3.5-	4.5				0.308	1.105	797	-228	3301.4290		
	30280.797	4																	3301.4724	5
	30280.524	5																	3301.5021	
	30278.498	4																	3301.7231	5
1	30278.214	9	6313.866-	36592.070	10		4.0-	3.0	4.0-	3.0	.485	1.300	.815	0.487	1.300	813	-232	3301.7540		
	30277.726	6																	3301.8073	5
2	30277.325	4	13192.903-	43470.195	33		.	.	2.5-	3.5				0.372	0.860	488		3301.8510		
2	30276.754	5	39984.710-	9707.980	24		.	.	5.5-	6.5				1.085	1.485	400	64*	3301.9133		
2	30275.221	4	35993.175-	5717.976	22		.	.	2.5-	3.5				0.990	1.596*	606	57*	3302.0805		
	30274.991	4																	3302.1055	5
	30273.436	4																	3302.2752	5
	30273.027	4																	3302.3198	5
2	30271.536	9	13809.910-	44081.440	6		4.5-	4.5	4.5-	4.5	.640	.875	.235	0.657	0.875	218		3302.4824		
	30270.673	6																	3302.5766	5
	30270.285	5																	3302.6189	5
	30269.599	3																	3302.6938	5
	30269.341	4																	3302.8310	5
	30267.349	4																	3302.9393	5
	30266.710	3																	3303.0090	5
1	30265.762	4	34565.410-	4299.659	11		.	.	1.0-	2.0				0.980	1.482*	502		3303.1125		
	30265.613	4																	3303.1288	5
2	30264.846	9	38903.090-	8638.233	-11		4.5-	5.5	4.5-	5.5	1.135	1.520	.385	1.135	1.514	379		3303.2125		
	30264.379	4																	3303.2634	5
	30263.950	4																	3303.3103	5
2	30262.523	9	34232.360-	3969.846	9		3.5-	2.5	3.5-	2.5	.980	1.660	.680	0.980	1.670	690		3303.4660		
	30262.208	4																	3303.5004	5
	30261.885	4																	3303.5357	5
	30260.969	3																	3303.6357	5
	30260.485	4																	3303.6885	5
	30260.054	4																	3303.7356	5
	30259.466	4																	3303.7998	5
	30259.146	5																	3303.8347	5
	30258.272	4																	3303.9302	5
	30257.274	4																	3304.0391	5
1	30256.797	8	9724.351-	39981.145	3		3.0-	3.0	3.0-	3.0	.445	.905	.460	0.442	0.905	463	-265	3304.0912		
	30256.420	4																	3304.1259	5
	30255.206	4																	3304.2650	5
	30254.925	4																	3304.2957	5
	30254.274	4																	3304.3668	5
	30253.775	4																	3304.4213	5
2	30252.833	4	15778.634-	46031.465	2		.	.	1.5-	2.5				1.133	0.800*	333		3304.5242	5	
1	30250.970	5	12351.522-	42502.510	-18*		6.0-	7.0	6.0-	7.0	.995	1.320	.325	0.995	1.320	325		3304.7277		
	30248.826	5																	3304.9619	5
1	30248.255	6	12351.522-	42599.780	-3		6.0-	6.0	6.0-	6.0			.150	0.995	1.140*	145	-258	3305.0243		
	30247.571	4																	3305.0991	5
2	30247.234	4	35749.300-	5502.060	-6		.	.	2.5-	1.5				1.140	1.169*	29		3305.1359		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	30247.052	4																	3305.1558	5
	30246.561	4																	3305.2094	5
	30246.184	4																	3305.2506	5
	30244.774	7H									.45		115						3305.4047	f SO2JDG
	30244.530	4																	3305.4314	5
2	30244.129	4	13192.903	-	43437.020	12	.	.	2.5-	3.5	.	.	.	0.372	0.960*	588			3305.4752	
	30243.750	4																	3305.5166	5
	30242.553	4																	3305.6475	5
	30241.854	4																	3305.7239	5
	30240.506	4																	3305.8713	5
	30240.065	4																	3305.9195	5
2	30239.648	4	40965.950	-	10726.322	20	.	.	3.5-	4.5	.	.	.	1.105	1.391	286			3305.9651	5
	30239.322	4																	3306.0007	5
	30238.237	4																	3306.1193	5
	30237.410	4																	3306.2098	5
2	30237.135	7	37735.495	-	7498.364	4	3.5-	2.5	3.5-	2.5	1.090	1.315	.225	1.090	1.321	231			3306.2398	
	30236.810	6																	3306.2754	ZR Q 5
	30236.334	6																	3306.3219	5
	30235.979	4																	3306.3662	5
	30234.977	4																	3306.4758	5
	30234.629	4																	3306.5139	5
	30234.362	4																	3306.5431	5
1	30233.965	9	9386.801	-	39620.765	1	5.0-	6.0	5.0-	6.0	.800	.963	.163	0.801	0.965	164	-268		3306.5865	
1	30233.265	9	6313.866	-	36547.135	-4	4.0-	4.0	4.0-	4.0	.485	1.080	.595	0.487	1.080	593			3306.6631	
1	30232.744	7	9386.801	-	39619.530	15*	5.0-	4.0	5.0-	4.0	.	.	.31	0.801	1.115	314			3306.7200	
	30230.800	4																	3306.9327	5
	30230.135	4																	3307.0054	5
2	30229.072	4	16362.000	-	46591.055	17	.	.	4.5-	3.5	.	.	.	1.050	1.100*	50			3307.1217	5
1	30228.271	4	34527.915	-	4299.659	15	.	.	2.0-	2.0	.	.	.	1.310	1.482	172	-92*		3307.2094	
	30227.914	4																	3307.2484	5
	30227.757	3																	3307.2656	5
	30227.621	5																	3307.2805	5
	30226.898	4																	3307.3596	5
	30226.463	5																	3307.4072	5
	30226.220	4																	3307.4338	5
	30225.916	6					1.5-	2.5					.61						3307.4670	5
	30225.328	4																	3307.5314	5
2	30224.132	7	35726.195	-	5502.060	-3	0.5-	1.5	0.5-	1.5	.	.	.	1.550	1.169*	381			3307.6623	
2	30223.813	9	34193.640	-	3969.846	19	1.5-	2.5	1.5-	2.5	.955	1.660	.705	0.970	1.670*	700			3307.6972	SI
	30223.276	9																	3307.7560	5
2	30222.849	6	39465.195	-	9242.356	10	.	.	2.5-	3.5	.	.	.	1.070	1.369	299			3307.8027	
1	30222.516	6	6313.866	-	36536.380	2	.	.	4.0-	3.0	.	.	.	0.487	0.950*	463	-160		3307.8391	
	30222.071	5																	3307.8879	5
	30220.210	4																	3308.0916	5
	30220.032	4																	3308.1110	5
	30219.693	4																	3308.1482	5
2	30219.411	4	16593.963	-	46813.360	14	.	.	2.5-	2.5	.	.	.	0.983	1.070*	87			3308.1790	5
	30218.778	4																	3308.2483	5
	30218.533	5																	3308.2752	5
1	30218.441	8	11840.715	-	42059.140	16	3.0-	4.0	3.0-	4.0	.805	1.055	.250	0.811	1.060	249			3308.2852	
	30218.095	3																	3308.3231	5
	30218.002	5																	3308.3333	5
	30216.127	3																	3308.5386	5
	30216.029	5																	3308.5493	5
2	30215.649	4	16362.000	-	46577.625	24	.	.	4.5-	3.5	.	.	.	1.050	0.750*	300			3308.5909	5

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2 - J1	J2 - J1	G2	G1							G6	G2			G1	G6	IS	IS
	30215.118	4																	3308.6491	5
	30214.787	4																	3308.6853	5
1	30214.211	9	6313.866-36528.070		7		4.0- 3.0	4.0- 3.0	.485	.985	.500		0.487	0.985	498				3308.7484	5
	30213.620	4																	3308.8131	5
	30213.516	5																	3308.8247	5
	30213.003	4																	3308.8807	5
	30212.209	3																	3308.9677	5
	30212.102	4																	3308.9794	5
	30211.832	4																	3309.0090	5
	30211.631	5																	3309.0310	5
2	30211.523	7	16362.000-45573.500		23		. - .	4.5- 5.5	.93		.16		1.050	1.025*	25				3309.0428	f 2JDG
	30210.741	3																	3309.1285	5
	30210.629	5																	3309.1407	5
	30210.236	3																	3309.1838	5
	30209.744	4																	3309.2377	5
	30208.207	4																	3309.4061	5
	30207.944	5																	3309.4349	5
2	30207.834	7	40934.150-10726.322		6		. - .	5.5- 4.5					1.165	1.391	226				3309.4469	5
	30207.426	4																	3309.4916	5
	30206.713	4																	3309.5697	5
2	30206.590	5	13809.910-44016.500		0		. - .	4.5- 4.5					0.657	1.050*	393				3309.5832	5
	30205.720	4																	3309.6785	5
	30204.363	3																	3309.8294	5
	30204.224	4																	3309.8425	5
	30201.872	3																	3310.1002	5
	30199.532	4																	3310.3512	5
	30198.361	4																	3310.4851	5
	30198.093	4																	3310.5145	5
	30197.727	4																	3310.5546	5
1	30197.574	5	34497.235- 4299.659		-2		3.0- 2.0	3.0- 2.0	1.060	1.480	.420		1.070	1.482*	412		-88		3310.5714	5
	30197.368	4																	3310.5962	5
1	30195.684	4	34495.354- 4299.659		-11		. - .	2.0- 2.0					1.180	1.482*	302		-72		3310.7786	5
	30195.526	5																	3310.7893	5
2	30195.437	9	32210.400- 2014.966		3		2.5- 1.5	2.5- 1.5	1.335	1.880	.545		1.339	1.881	542		11		3310.8057	5
	30195.047	4																	3310.8484	5
	30194.527	4																	3310.9055	5
	30193.962	4																	3310.9674	5
	30193.782	3																	3310.9872	5
	30193.616	4																	3311.0054	5
	30193.468	5																	3311.0216	5
2	30193.294	5	30193.265- 0.000		29		1.5- 0.5	1.5- 0.5	1.365	3.150	1785		1.364	3.150	1786		18		3311.0407	5
	30192.028	4																	3311.1729	5
	30191.654	4																	3311.2205	5
	30191.105	3																	3311.2808	5
	30190.875	4																	3311.3060	5
	30190.642	4																	3311.3315	5
	30190.448	4																	3311.3528	5
	30189.842	4																	3311.4193	5
	30188.159	4																	3311.6039	5
	30187.288	3																	3311.6995	5
1	30186.702	6	8768.139-38954.840		1		2.0- 2.0	2.0- 2.0	.36	1.02	.66		0.362	1.020*	658				3311.7637	5
	30186.569	4																	3311.7783	5
2	30186.130	4	40374.595-10183.463		-2		. - .	0.5- 0.5					0.960	2.402*	1442				3311.8265	5
	30185.763	4																	3311.8668	5
	30185.464	9							1.28		.41								3311.8996	f SI2JDG

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	30184.303	3																	3312.0270	5
	30181.890	4																	3312.2918	5
	30180.801	4																	3312.4113	5
	30130.452	4																	3312.4496	5
	30130.058	3																	3312.4928	5
	30179.844	5																	3312.5163	5
2	30179.322	4	39421.670-	9242.356	8	.	.	4.5-	3.5	.	.	.	1.100	1.369	269	.	.	3312.5736	5	
	30179.134	4																	3312.5943	5
	30178.904	1																	3312.6195	5
2	30178.651	9	39886.605-	9707.980	26	5.5-	6.5	5.5-	6.5	1.228	1.485	.257	1.228	1.485	257		7*	3312.6473	5	
	30177.999	4																	3312.7189	5
	30177.489	3																	3312.7748	5
	30177.256	3																	3312.8004	5
	30177.094	3																	3312.8281	5
	30176.479	3																	3312.8857	5
	30176.192	3																	3312.9172	5
	30175.958	4																	3312.9429	5
	30175.729	4																	3312.9681	5
	30175.523	6										106							3312.9907	2J06
	30172.557	4																	3313.3164	5
	30172.302	4																	3313.3444	5
	30172.067	3																	3313.3702	5
	30171.774	6																	3313.4024	5
2	30171.515	9	38809.725-	8638.233	23	4.5-	5.5	4.5-	5.5	1.110	1.520	.410	1.110	1.514	404			3313.4308	5	
	30171.152	4																	3313.4707	5
	30170.881	4																	3313.5004	5
2	30170.394	9	35888.345-	5717.976	25	2.5-	3.5	2.5-	3.5	.965	1.593	.628	0.965	1.596	631		92*	3313.5539	5	
	30170.023	5																	3313.5947	5
	30169.125	4																	3313.6933	5
	30164.028	4																	3314.2533	5
	30163.565	4																	3314.3041	5
	30163.123	4																	3314.3527	5
	30162.139	4																	3314.4608	5
	30161.740	4																	3314.5047	5
2	30161.272	9	37440.110-	7278.862	24	4.5-	4.5	4.5-	4.5	1.125	1.544	.419	1.125	1.545	420			3314.5561	5	
2	30160.495	4	13192.903-	43353.370	28	.	.	2.5-	3.5	.	.	.	0.372	0.970*	598			3314.6415	5	
2	30157.510	9	35659.575-	5502.060	-5	0.5-	1.5	0.5-	1.5	.	.	.	0.460	1.169*	709		-97*	3314.9696	5	
2	30156.806	5	8198.666-	38355.450	22	.	.	2.5-	1.5	.	.	.	0.414	0.698	284		-442	3315.0470	5	
	30156.139	4																	3315.1203	5
2	30155.155	4	21670.405-	51825.535	25	.	.	1.5-	2.5	.	.	.	2.328	0.990*	1338			3315.2285	5	
2	30154.160	9	33389.920-	3235.770	10	1.5-	0.5	1.5-	0.5	.945	.298	.647	0.943	0.299	644		-31	3315.3379	5	
2	30153.498	4	40341.970-	10188.463	-9	.	.	1.5-	0.5	.	.	.	0.890	2.402*	1512			3315.4107	5	
	30152.668	4																	3315.5019	5
	30151.273	4																	3315.6553	5
2	30150.817	6	17532.937-	47683.770	-16	.	.	3.5-	3.5	.	.	.	1.238	1.090*	148			3315.7055	5	
	30150.205	5																	3315.7728	5
	30149.605	4																	3315.8388	5
	30149.252	4																	3315.8776	5
	30148.742	5																	3315.9337	5
2	30147.472	9	37426.335-	7278.862	-1	3.5-	4.5	3.5-	4.5	1.104	1.500	.396	1.149	1.545	396			3316.0734	5	
	30147.085	4																	3316.1160	5
2	30146.752	5	16593.963-	46740.710	5	.	.	2.5-	1.5	.	.	.	0.983	0.930*	53			3316.1526	5	
2	30146.016	5	35863.985-	5717.976	7	.	.	4.5-	3.5	.	.	.	1.210	1.596*	386		-34*	3316.2336	5	
2	30145.066	5	15641.100-	45786.224	-58	.	.	3.5-	2.5	.	.	.	1.040	0.895*	145			3316.3381	5	
	30144.564	5																	3316.3933	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	30143.351	4																	3316.5268	5
2	30142.646	8	37640.995-	7498.364	15	2.5-	2.5	2.5-	2.5	.	.	.	1.350	1.321*	.29			3316.6043		
2	30140.078	8	32155.060-	2014.966	-16	2.5-	1.5	2.5-	1.5	.	.	.590	1.284	1.881	597		148*	3316.8869		
	30139.958	8																	3316.9001	
2	30139.490	8	32154.455-	2014.966	1	.	.	0.5-	1.5	1.85	.	.	1.970	1.881*	89			3316.9516	f SO	
1	30138.975	8	8768.139-	33907.115	-1	2.0-	2.0	2.0-	2.0	.360	1.135	.775	0.362	1.135	773			3317.0083		
2	30138.376	4	17733.709-	47872.094	-9	.	.	0.5-	1.5	.	.	.	-0.510	0.760*	1270			3317.0742	5	
	30137.074	5																	3317.2176	5
	30135.953	3																	3317.3410	5
2	30134.729	4	40361.025-	10726.322	26	.	.	3.5-	4.5	.	.	.	1.105	1.391	286			3317.4757		
	30134.249	4																	3317.5285	5
2	30133.782	9	35635.830-	5502.060	12	2.5-	1.5	2.5-	1.5	1.165	1.170	.005	1.165	1.169	4			3317.5800		
	30133.428	4																	3317.6189	5
	30133.248	4																	3317.6388	5
	30132.563	3																	3317.7142	5
	30131.431	4																	3317.8333	5
	30131.193	4																	3317.8650	5
	30130.842	3																	3317.9037	5
	30130.407	5																	3317.9516	5
2	30129.873	4	12992.644-	43122.525	-8	.	.	2.5-	2.5	.	.	.	0.643	0.000*	0			3318.0104	5	
	30129.599	5																	3318.0406	5
2	30129.255	4	15657.156-	45786.224	-13	.	.	2.5-	2.5	.	.	.	1.000	0.895	105			3318.1005	5	
	30127.953	4																	3318.2218	5
2	30127.376	9	37406.230-	7278.862	8	5.5-	4.5	5.5-	4.5	1.125	1.545	.420	1.125	1.545	420			3318.2854		
	30126.688	6																	3318.3612	5
	30125.831	4																	3318.4556	5
	30125.439	3																	3318.4988	5
	30124.528	4																	3318.5991	5
	30123.863	4																	3318.6724	5
	30123.358	3																	3318.7280	5
	30122.993	3																	3318.7682	5
1	30122.436	8	6313.866-	36436.294	8	4.0-	3.0	4.0-	3.0	.485	1.095	.610	0.487	1.095	608		-193	3318.8296		
2	30121.717	6	41920.925-	11799.241	33	.	.	5.5-	5.5	.	.	.	1.120	1.373	253			3318.9088		
	30121.312	3																	3318.9535	5
	30120.670	5																	3319.0242	5
	30120.397	4																	3319.0543	5
	30120.008	4																	3319.0972	5
2	30119.835	5	39362.185-	9242.356	6	.	.	4.5-	3.5	.	.	.	1.075	1.369	294			3319.1162		
2	30118.871	5	34088.695-	3969.346	22	2.5-	2.5	2.5-	2.5	.	.	.335	1.340	1.670	330		-52*	3319.2225		
	30117.137	7								.98	.	.22							3319.4136	f SO2JDG
	30114.850	3																	3319.6646	5
	30114.631	3																	3319.6898	5
	30114.377	3																	3319.7178	5
2	30113.947	9	35831.915-	5717.976	8	4.5-	3.5	4.5-	3.5	1.17	1.59	.42	1.170	1.596*	426			3319.7652		
	30113.286	6										.74							3319.8381	I 5
	30112.657	5																	3319.9074	5
2	30112.209	5	35614.250-	5502.060	19	.	.	1.5-	1.5	.	.	.	1.560	1.169	391		-55	3319.9568		
	30112.170	4																	3319.9611	5
	30111.657	7																	3320.0177	5
	30110.598	3																	3320.1345	5
	30110.173	5																	3320.1813	5
	30109.646	3																	3320.2394	5
	30103.333	4																	3320.3787	5
2	30107.996	6	34077.830-	3969.846	12	.	.	1.5-	2.5	.	.	.	1.650	1.670	20		-103*	3320.4214		
2	30107.294	4	40833.605-	10726.322	11	.	.	4.5-	4.5	.	.	.	1.090	1.391*	301			3320.4988		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS				
	30106.709	7																			
1	30106.316	9	6313.856-36420.170		12		4.0-	5.0	4.0-	5.0	.485	1.025	.540	0.487	1.025	538		-297	3320.5633	5	
	30105.841	4																	3320.6067		
	30104.949	4																	3320.6591	5	
1	30104.259	9	6313.866-36418.125		0		4.0-	4.0	4.0-	4.0			.585	0.487	1.075	538		-198	3320.7575	5	
	30103.898	4																	3320.8336		
	30103.173	3																	3320.8734	5	
	30102.350	4																	3320.9534	5	
1	30101.187	4	9724.351-39825.550		-12		.	.	3.0-	4.0				0.442	1.030	588		-240	3321.0442	5	
	30101.023	4																	3321.1725		
	30100.565	4																	3321.1906		
	30100.373	4																	3321.2411	5	
	30099.739	4																	3321.2623	5	
	30098.904	4																	3321.3323	5	
1	30097.896	6	34397.513- 4299.659		42		.	.	3.0-	2.0				1.155	1.482	327		-25*	3321.4244	5	
	30096.979	4																	3321.5357		
	30096.010	4																	3321.6369	5	
2	30095.098	8	37373.930- 7278.862		30		.	.	4.5-	4.5	1.195	1.530	.365	1.175	1.545	370			3321.7438	5	
1	30095.098	8	9386.801-39481.900		-1		5.0-	5.0	5.0-	5.0	.800	1.165	.365	0.801	1.165	364		-277	3321.8445	2LNS	
	30093.935	3																	3321.8445	2LNS	
1	30092.561	9	32296.170- 2203.606		-3*		1.0-	1.0	1.0-	1.0	.935	1.495	.560	0.935	1.495	560		-45	3321.9729	5	
	30092.248	4																	3322.1246		
	30091.195	4																	3322.1591	5	
1	30090.774	9	32294.378- 2203.606		2		2.0-	1.0	2.0-	1.0	1.025	1.495	.470	1.016	1.495	479		-48	3322.2754	5	
	30090.473	4																	3322.3219		
	30090.036	4																	3322.3551	5	
	30089.687	3																	3322.4033	5	
	30089.062	5																	3322.4419	5	
	30088.765	4																	3322.5109	5	
	30088.289	4																	3322.5437	5	
2	30087.641	3	15657.156-45744.825		-28		.	.	2.5-	3.5				1.000	0.000*	0			3322.5963	5	
	30087.259	4																	3322.6678		
	30086.641	3																	3322.7100	5	
2	30086.122	6	12992.644-43078.770		-4		.	.	2.5-	2.5				0.643	0.840*	197			3322.7783	5	
1	30085.699	3	36230.220- 6144.515		-6		.	.	2.0-	3.0				1.200	1.473*	273		-3	3322.8356	5	
2	30084.833	5	35586.850- 5502.060		43		.	.	1.5-	1.5				1.160	1.169*	9		-55	3322.8823		
	30084.577	4																	3322.9779		
	30084.071	4																	3323.0062	5	
	30083.661	4																	3323.0621	5	
	30082.865	4																	3323.1074	5	
2	30082.450	5	37580.805- 7498.364		9		.	.	2.5-	2.5				1.215	1.321	106		26*	3323.1953	5	
	30081.791	5																	3323.2412		
	30080.712	4																	3323.3140	5	
	30080.281	9					5.0-	6.0			.80	1.18	.38						3323.4332	5	
1	30080.037	8	9386.801-39466.835		3		5.0-	5.0	5.0-	5.0	.800	1.065	.265	0.801	1.065	264		-217	3323.4808	SI	
	30078.309	4																	3323.5078	DJO	
	30077.745	4																	3323.6987	5	
2	30077.117	9	35579.170- 5502.060		7		2.5-	1.5	2.5-	1.5	1.19	1.17	.02	1.190	1.169*	21		28*	3323.7611	5	
	30076.641	4																	3323.8305		
2	30076.365	5	14295.565-44371.925		5		.	.	3.5-	3.5				0.790	0.970*	180			3323.8831	5	
	30076.096	5																	3323.9136	5	
	30074.979	4																	3323.9433	5	
	30074.332	4																	3324.0667	5	
	30073.407	5																	3324.1383	5	
	30073.099	3																	3324.2405	5	
																			3324.2746	5	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	30072.698	4																	3324.3189	5
	30071.995	4																	3324.3966	5
	30071.268	5																	3324.4770	5
2	30070.289	6	38708.515-		8638.233	7	.	.	5.5-	5.5	.	.	.	1.035	1.514	479			3324.5852	
	30069.078	7																	3324.7191	5
2	30068.504	9	12048.548-		42117.035	17	1.5-	2.5	1.5-	2.5	-0.053	.832	.885	-0.054	0.835	889		-78*	3324.7826	
	30067.939	4																	3324.8451	5
	30067.468	4																	3324.8971	5
1	30066.243	9	30056.252-		0.000	-9	1.0-	0.0	1.0-	0.0	.491	.000		0.476	0.000	0		-94	3325.0326	
2	30065.957	6	14295.565-		44361.495	27	.	.	3.5-	2.5	.	.	.	0.790	0.850*	60			3325.0642	
	30065.699	4																	3325.0928	5
2	30065.353	5	16499.640-		46565.005	-12	.	.	3.5-	4.5	.	.	.	0.773	1.040*	267			3325.1310	5
	30065.179	4																	3325.1503	5
	30064.236	4																	3325.2546	5
	30063.693	4																	3325.3147	5
	30063.318	4																	3325.3561	5
2	30052.876	5	41852.090-		11799.241	27	.	.	6.5-	5.5	.	.	.	1.145	1.373	228		81*	3325.4050	
	30061.947	4																	3325.5078	5
	30061.213	3																	3325.5890	5
	30060.336	4																	3325.6860	5
2	30059.838	5	13013.685-		43073.510	13	.	.	5.5-	4.5	.	.	.	0.950	0.950*	0		-173*	3325.7411	
	30059.529	4																	3325.7753	5
	30057.033	6					1.5-	1.5			.80	1.17	.37						3326.0515	5
1	30056.684	4	8768.139-		38324.820	3	.	.	2.0-	3.0	.	.	.	0.362	0.832	470		-190	3326.0901	
	30056.408	4																	3326.1207	5
1	30056.008	9	6313.866-		36369.870	4	4.0-	5.0	4.0-	5.0	.485	1.070	.585	0.487	1.069	582		-258	3326.1649	
	30055.610	6																	3326.2090	5
	30054.171	3																	3326.3682	5
	30053.442	4																	3326.4489	5
	30053.028	4																	3326.4948	5
	30052.766	4																	3326.5238	5
	30051.932	4																	3326.6161	5
1	30050.987	4	6313.866-		36364.850	3	.	.	4.0-	4.0	.	.	.	0.487	1.080*	593		-208	3326.7207	
	30050.731	4																	3326.7435	5
	30050.430	5																	3326.7824	5
	30050.183	4																	3326.8094	5
	30049.465	3																	3326.8892	5
	30048.395	4																	3327.0077	5
	30047.804	5											1.12						3327.0731	5
	30047.064	4																	f TRIPL	
1	30046.715	9	9386.801-		39433.510	6	5.0-	4.0	5.0-	4.0	.800	.920	.120	0.801	0.925	124		-270	3327.1551	
	30046.264	3																	3327.1937	5
	30045.425	4																	3327.2436	5
	30044.092	6	34013.940-		3969.846	-2	3.5-	2.5	3.5-	2.5	1.11	1.67	.557	1.121	1.670	549		39	3327.3366	
2	30043.772	6	35545.800-		5502.060	32	0.5-	1.5	0.5-	1.5	.95	1.17	.22	0.961	1.169	208		-174	3327.4842	
	30042.775	4																	3327.5196	5
2	30041.871	5	15098.815-		45140.685	1	1.5-	2.5	1.5-	2.5	.	.	.24	1.079	0.850	229			3327.6301	5
	30041.483	5																	3327.7302	5
2	30040.989	4	19863.335-		49904.305	19	.	.	2.5-	3.5	.	.	.	0.921	0.000*	0			3327.7732	5
	30038.521	4																	3327.8279	5
2	30037.983	9	39745.960-		9707.980	3	5.5-	6.5	5.5-	6.5	1.23	1.52	.29	1.185	1.485	300			3328.1013	5
	30037.349	6																	3328.1609	5
2	30037.050	5	37535.410-		7498.364	4*	.	.	2.5-	2.5	.	.	.	1.140	1.321	181			3328.2312	5
	30036.826	5																	3328.2643	5
	30036.413	5																	3328.2891	5
																			3328.3349	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	30035.269	4																		3328.4617	5
	30034.646	4																		3328.5307	5
	30034.081	3																		3328.5933	5
1	30033.713	3	36178.230-		6144.515	-2	.	.	4.0-	3.0	.	.	.	1.080	1.473*	393		-40	3328.6341	5	
	30032.890	3																		3328.7254	5
	30032.447	3																		3328.7745	5
2	30031.324	5	35749.309-		5717.976	0	.	.	2.5-	3.5	.	.	.	1.140	1.596*	456			3328.8989	5	
2	30030.903	6	14295.565-		44326.520	-52	.	.	3.5-	4.5	.	.	.	0.790	0.960*	170			3328.9456	CQ	
	30030.432	3																		3328.9978	5
	30030.204	3																		3329.0231	5
	30029.841	3																		3329.0633	5
	30029.038	4																		3329.1524	5
	30028.745	4																		3329.1848	5
	30028.322	3																		3329.2317	5
	30028.108	4																		3329.2555	5
	30027.767	3																		3329.2933	5
	30027.353	4																		3329.3392	5
2	30026.832	8	32041.795-		2014.966	3	1.5-	1.5	1.5-	1.5	.983	1.888	.905	0.981	1.881	900		-133	3329.3970		
	30026.504	3																		3329.4333	
	30025.892	4																		3329.5012	5
	30025.502	4																		3329.5444	5
	30022.742	4																		3329.8505	5
	30022.456	4																		3329.8823	5
	30021.960	4																		3329.9373	5
	30021.614	3																		3329.9756	5
	30021.404	4																		3329.9989	5
1	30020.640	7	12159.465-		42180.150	-45*	4.0-	4.0	4.0-	4.0	.84	1.02	.18	0.844	1.020*	176			3330.0837		
	30020.385	9									1.88	.	.157							3330.1120	f SI
	30019.690	4																		3330.1891	5
	30018.736	3																		3330.2949	5
	30018.219	4																		3330.3523	5
1	30017.421	5	11840.715-		41858.135	1	3.0-	3.0	3.0-	3.0	.81	1.09	.280	0.811	1.090	279			3330.4408	5	
	30016.912	4																		3330.4973	5
	30016.597	4																		3330.5322	5
	30016.247	3																		3330.5711	5
	30016.009	3																		3330.5975	5
	30014.273	4																		3330.7901	5
	30013.160	4																		3330.9137	5
	30011.399	4																		3331.1091	5
	30010.465	3																		3331.2128	5
	30009.649	3																		3331.3034	5
	30009.261	4																		3331.3464	5
1	30008.948	6	32212.561-		2203.606	-7	2.0-	1.0	2.0-	1.0	.	.	.	1.400	1.495*	95		-18	3331.3812	SO	
2	30007.705	9	39250.070-		9242.356	-9	.	.	4.5-	3.5	.	.	.22	1.155	1.369	214			3331.5192	SO	
2	30007.522	9	15778.634-		45786.224	-68	.	.	1.5-	2.5	.	.	.	1.133	0.895	238			3331.5395	5	
	30007.016	3																		3331.5957	5
2	30006.323	3	17073.340-		47079.610	53	.	.	1.5-	2.5	.	.	.	0.576	0.960*	384			3331.6726	5	
1	30005.059	6	8768.139-		38773.125	53	2.0-	2.0	2.0-	2.0	.36	1.03	.67	0.362	1.038	676		-230	3331.8152		
	30004.503	4																		3331.8747	5
	30001.621	5																		3332.1948	5
	30001.235	4																		3332.2377	5
1	30000.354	9	9386.801-		39387.160	-5*	5.0-	6.0	5.0-	6.0	.	.	.235	0.801	1.029	228		-288	3332.3355	SI	
	30000.176	7																		3332.3553	5
	29999.257	3																		3332.4574	5
	29993.875	3																		3332.4998	5

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29995.830	3																				
2	29995.409	9	39703.385-	9707.980	4	5.5-	6.5	5.5-	6.5	1.090	1.485	.395	1.090	1.485	395					3332.8381	5	
	29994.837	3																			3332.8849	
	29994.523	4																			3332.9485	5
	29994.384	4																			3332.9834	5
1	29994.150	9	9386.801-	39380.945	6	5.0-	4.0	5.0-	4.0	.80	1.07	.269	0.801	1.070*	269					3332.9988	5	
	29993.827	3																			3333.0248	5
2	29993.451	3	16362.000-	46355.430	21	.	.	4.5-	3.5	.	.	.	1.050	0.950*	100					3333.0607	5	
	29992.819	4																			3333.1025	5
	29991.892	3																			3333.1727	5
	29990.144	3																			3333.2758	5
2	29989.702	7	40716.010-	10726.322	14	3.5-	4.5	3.5-	4.5	1.10	1.39	.29	1.100	1.391*	291					3333.4701	5	
2	29986.297	3	15778.634-	45764.910	21	.	.	1.5-	1.5	.	.	.	1.133	0.660*	473					3333.5192		
	29986.103	4																			3333.8977	5
1	29985.826	5	9386.801-	39372.685	2	5.0-	5.0	5.0-	5.0	.80	1.01	.21	0.801	1.010*	209					3333.9193	5	
	29984.656	3																			3333.9434	5
2	29983.843	3	16362.000-	46345.820	23	.	.	4.5-	4.5	.	.	.	1.050	1.030*	20					3334.0802	5	
2	29982.961	7	8709.640-	38692.585	16	3.5-	2.5	3.5-	2.5	.305	.720	.425	0.308	0.720	412					3334.1706	5	
	29982.616	3																			3334.2687	
	29981.282	3																			3334.3070	5
	29981.039	4																			3334.4554	5
	29980.782	3																			3334.4824	5
	29979.828	3																			3334.5110	5
	29979.236	4																			3334.6171	5
	29978.930	3																			3334.6763	5
1	29977.974	3	6313.865-	36291.840	0	.	.	4.0-	3.0	.	.	.	0.487	0.980	493					3334.7170	5	
1	29977.536	3	9386.801-	39364.330	7	.	.	5.0-	5.0	.	.	.	0.801	1.130	329					3334.8234		
	29976.893	3																			3334.8721	5
2	29975.907	4	41775.135-	11799.241	13	4.5-	5.5	4.5-	5.5	.	.	.31	1.070	1.373	303					3334.9436	5	
2	29974.035	4	43965.055-	13990.952	-8	0.5-	1.5	0.5-	1.5	.78	1.74	.96	0.770	1.728*	958					3335.0533		
	29973.619	3																			3335.2549	5
	29972.997	3																			3335.3079	5
2	29972.823	3	15578.500-	45551.330	-7	.	.	6.5-	5.5	.	.	.	0.000	1.060*	0					3335.3771	5	
	29972.013	3																			3335.3965	5
2	29970.953	6	41770.185-	11799.241	9	.	.	6.5-	5.5	.	.	.	1.090	1.373	283					3335.4866	5	
2	29970.578	3	15098.815-	45069.320	73	.	.	1.5-	2.5	.	.	.	1.079	0.730*	349					3335.6046		
	29970.157	3																			3335.6463	5
2	29969.823	3	10436.770-	40406.550	43	.	.	4.5-	4.5	.	.	.	0.724	1.090*	366					3335.6932	5	
	29968.827	3																			3335.7304	
	29968.593	3																			3335.8412	5
	29967.878	3																			3335.8673	5
	29967.555	3																			3335.9469	5
	29966.249	3																			3335.9828	
2	29964.912	5	41764.120-	11799.241	33	.	.	5.5-	5.5	.	.	.	1.080	1.373	293					3336.1282		
	29964.541	3																			3336.2771	
2	29964.107	5	41763.300-	11799.241	48	.	.	6.5-	5.5	.	.	.	1.125	1.373	248					3336.3184	5	
	29962.277	3																			3336.3667	
	29952.089	3																			3336.5705	5
	29961.762	3																			3336.5915	5
	29961.314	3																			3336.6279	5
	29959.620	4																			3336.6778	
	29958.291	3																			3336.8664	5
	29957.984	3																			3337.0145	5
	29957.493	5																			3337.0487	5
	29957.269	3																			3337.1034	5
																					3337.1283	5

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	29957.078	3																	3337.1496	5
2	29955.241	3	11504.095-41460.320		16	. - .			3.5-	3.5	.	.	.	0.859	0.980*	121			3337.2428	
2	29955.720	4	43681.995-13726.318		43	. - .			1.5-	2.5	.	.	.	1.065	0.784	281			3337.3009	5
	29953.910	5									.	.	.						3337.5025	5
	29953.458	3									.	.	.						3337.5529	5
2	29953.015	3	43943.935-13990.952		32	. - .			1.5-	1.5	.	.	.	1.095	1.728	633			3337.6023	5
2	29952.840	3	16362.000-46314.760		80	. - .			4.5-	3.5	.	.	.	1.050	1.055*	5			3337.6218	5
	29952.539	3									.	.	.						3337.6587	5
2	29952.069	9	29952.065- 0.000		4	1.5-	0.5	1.5-	0.5		1.177	3.131	1.95	1.184	3.150	1966	-1		3337.7077	
	29951.530	4									.	.	.						3337.7622	5
2	29951.288	3	17296.905-47248.155		38	. - .			4.5-	5.5	.	.	.	0.494	1.030	536			3337.7947	5
	29950.780	3									.	.	.						3337.8513	5
	29949.872	4									.	.	.						3337.9525	5
	29949.519	3									.	.	.						3337.9919	5
	29947.943	3									.	.	.						3338.1676	5
1	29946.203	5	36090.717- 6144.515		1	. - .			4.0-	3.0				1.227	1.473	246	57		3338.3615	
2	29945.873	9	37224.725- 7278.862		10	4.5-	4.5	4.5-	4.5		1.145	1.545	.400	1.145	1.545	400			3338.3983	
	29945.572	5									.	.	.						3338.4319	5
	29945.283	3									.	.	.						3338.4635	5
	29945.004	4									.	.	.						3338.4952	5
2	29943.374	5	43934.325-13990.952		1	. - .			1.5-	1.5	.	.	.	1.060	1.728	668			3338.6769	5
	29942.994	9									.	.	.						3338.7193	5
	29941.427	3									.	.	.						3338.8940	5
1	29940.936	9	6313.866-36254.860		2	4.0-	5.0	4.0-	5.0		.	.	.547	0.487	1.030	543	-178		3338.9421	SI
1	29940.583	4	34240.242- 4299.659		0	. - .			2.0-	2.0	.	.	.	1.190	1.482*	292	0*		3338.9882	
	29940.246	4									.	.	.						3339.0258	5
	29939.767	3									.	.	.						3339.0792	5
2	29939.180	4	14476.135-44415.300		15*	. - .			4.5-	3.5	.	.	.	1.060	0.940	120			3339.1446	5
	29937.910	4									.	.	.						3339.2863	5
2	29937.336	3	40663.645-10726.322		13	. - .			5.5-	4.5	.	.	.	1.145	1.391	246			3339.3503	
	29936.078	3									.	.	.						3339.4907	5
2	29934.732	7	38572.970- 8638.233		-5	5.5-	5.5	5.5-	5.5		1.035	1.520	.485	1.035	1.514	479			3339.6408	
	29934.102	4									.	.	.						3339.7111	5
2	29933.355	9	35435.415- 5502.060		0	2.5-	1.5	2.5-	1.5		.935	1.170	.235	0.937	1.169	232			3339.7945	
	29932.927	3									.	.	.						3339.8422	5
2	29932.431	3	40658.815-10726.322		-62	. - .			3.5-	4.5	.	.	.	1.170	1.391*	221			3339.8976	
2	29932.246	4	14561.607-44493.850		3	. - .			1.5-	1.5	.	.	.	1.149	1.110*	39			3339.9182	5
	29931.984	3									.	.	.						3339.9474	5
	29931.240	3									.	.	.						3340.0305	5
2	29930.749	9	39173.105- 9242.356		0	4.5-	3.5	4.5-	3.5		1.030	1.365	.335	1.035	1.369*	334			3340.0853	
2	29930.040	9	35432.095- 5502.060		5	1.5-	1.5	1.5-	1.5		.	.	.	1.190	1.169	21			3340.1644	
2	29929.645	3	13192.903-43122.525		23	. - .			2.5-	2.5	.	.	.	0.372	0.000*	0			3340.2085	5
	29928.868	3									.	.	.						3340.2952	5
2	29927.979	9	37426.335- 7498.364		8	3.5-	2.5	3.5-	2.5		.	.	.167	1.149	1.321	172			3340.3944	
	29926.518	4									.	.	.						3340.5575	ZR Q 5
	29926.097	3									.	.	.						3340.6045	5
	29925.577	5									1.15	.	.						3340.6625	f 5
	29925.271	3									.	.	.						3340.6967	5
	29924.846	3									.	.	.						3340.7441	5
	29924.412	4									.	.	.						3340.7926	5
	29923.141	3									.	.	.						3340.9345	5
	29922.765	3									.	.	.						3340.9765	5
	29922.519	3									.	.	.						3341.0040	5
	29922.066	3									.	.	.						3341.0545	5
	29921.695	3									.	.	.						3341.0960	5

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	29920.408	3																	3341.2397	5
	29920.118	4																	3341.2721	5
2	29919.932	4	35637.895-		5717.976	13	.	.	3.5-	3.5	.	.	.	1.158	1.596	438			3341.2928	
	29919.599	4																	3341.3300	5
	29919.332	3																	3341.3598	5
	29918.821	3																	3341.4169	5
	29918.323	3																	3341.4720	5
2	29917.860	7	35635.830-		5717.976	6	2.5-	3.5	2.5-	3.5	1.165	1.595	.430	1.165	1.596	431			3341.5243	
	29916.743	3																	3341.6490	5
	29915.485	4																	3341.7672	5
	29914.238	4																	3341.9289	5
2	29913.604	4	8709.640-		38623.240	4	.	.	3.5-	3.5	.	.	.	0.308	0.640*	332			3341.9997	
	29913.155	4																	3342.0499	5
2	29912.802	5	40639.100-		10726.322	24	.	.	4.5-	4.5	.	.	.	1.310	1.391	81			3342.0893	
2	29912.315	8	14221.716-		44134.025	6	0.5-	0.5	0.5-	0.5	-0.110	1.620	1730	-0.108	1.620	1728			3342.1437	5
	29912.015	3																	3342.1772	5
	29911.050	3																	3342.2851	5
	29910.708	4																	3342.3233	5
2	29909.903	3	39152.255-		9242.356	4	.	.	4.5-	3.5	.	.	.	1.187	1.369	182			3342.4132	
	29907.877	3																	3342.6397	5
2	29907.074	9	33876.910-		3969.846	10	3.5-	2.5	3.5-	2.5	1.032	1.671	.639	1.043	1.670	627	153*		3342.7294	
	29905.968	3																	3342.8530	5
	29904.950	3																	3342.9668	5
2	29902.012	9	31916.975-		2014.966	3	1.5-	1.5	1.5-	1.5	1.355	1.880	.525	1.363	1.881	518	23*		3343.2953	
2	29901.815	3	41701.060-		11799.241	-4	.	.	5.5-	5.5	.	.	.	1.085	1.373	288			3343.3173	
2	29901.534	4	13809.910-		43711.415	29	.	.	4.5-	3.5	.	.	.	0.657	0.955	298			3343.3488	
2	29900.683	3	19277.180-		49177.890	-27	.	.	3.5-	3.5	.	.	.	0.847	1.040*	193			3343.4439	5
1	29899.673	4	12159.465-		42059.140	-2	.	.	4.0-	4.0	.	.	.	0.844	1.060	216			3343.5569	
	29898.571	4																	3343.6801	5
	29896.911	5																	3343.8658	5
	29896.662	3																	3343.8936	5
	29895.412	4																	3344.0334	5
1	29895.177	4	9724.351-		39619.530	-2*	.	.	3.0-	4.0	.	.	.	0.442	1.115	673			3344.0597	
	29893.195	3																	3344.2815	5
	29891.262	4																	3344.4977	5
1	29890.487	6	6313.866-		36204.345	8	4.0-	3.0	4.0-	3.0	.485	1.205	.720	0.487	1.200	713	-188		3344.5844	
	29890.099	3																	3344.6279	5
2	29889.349	4	35607.320-		5717.976	5	.	.	3.5-	3.5	.	.	.	1.150	1.596	446			3344.7118	5
	29888.783	4																	3344.7751	5
	29888.278	4																	3344.8316	5
	29888.035	3																	3344.8588	5
2	29886.694	4	17242.750-		47129.430	14	.	.	2.5-	2.5	.	.	.	1.200	0.920*	280			3345.0089	5
	29886.343	3																	3345.0482	5
2	29883.493	9	38521.710-		8638.233	16	4.5-	5.5	4.5-	5.5	1.135	1.510	.375	1.145	1.514	369			3345.3672	
1	29882.424	4	8768.139-		38650.550	13	.	.	2.0-	2.0	.	.	.	0.362	0.785	423	-240		3345.4869	
	29880.915	3																	3345.6559	5
1	29876.955	7	6313.866-		36190.820	1	4.0-	5.0	4.0-	5.0	.485	1.030	.545	0.487	1.030	543			3346.0993	
	29874.244	3																	3346.4030	5
	29871.512	4																	3346.7091	5
	29870.280	3																	3346.8471	5
	29869.843	4																	3346.8961	5
2	29866.910	7	39574.850-		9707.980	30	5.5-	6.5	5.5-	6.5	1.085	1.485	.400	1.070	1.485*	415			3347.2248	
2	29865.710	7	37144.560-		7278.862	12	3.5-	4.5	3.5-	4.5	1.220	1.545	.325	1.220	1.545	325			3347.3592	
	29865.338	3																	3347.4009	5
2	29863.930	5	37362.265-		7498.364	29	.	.	1.5-	2.5	.	.	.	1.215	1.321	106			3347.5588	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	29861.637	4																3347.8158	5
2	29861.201	9	35579.170-	5717.976	7	2.5-	3.5	2.5-	3.5	.	.	.38	1.190	1.596*	406		8*	3347.8647	
	29860.933	5																3347.8948	5
2	29859.350	5	41659.050-	11799.241	41	.	.	4.5-	5.5	.	.	.	1.120	1.373	253			3348.0162	
	29859.282	3																3348.0799	5
	29857.426	3																3348.2880	5
	29855.605	4																3348.3801	5
1	29855.268	9	6313.866-	36170.110	24*	4.0-	4.0	4.0-	4.0	.485	.940	.455	0.487	0.942*	455		-203	3348.4179	
	29855.585	3																3348.4945	5
	29855.380	3																3348.5175	5
2	29854.839	3	46141.340-	16286.582	81	.	.	1.5-	0.5	.	.	.	0.960-	0.122*	1082			3348.5782	5
2	29853.878	3	8709.640-	38563.445	73	.	.	3.5-	2.5	.	.	.	0.308	1.085	777			3348.6859	5
	29852.808	3																3348.7970	5
	29852.486	3																3348.8421	5
	29852.071	3																3348.8887	5
	29851.290	3																3348.9763	5
2	29850.288	4	39092.590-	9242.356	54	.	.	3.5-	3.5	.	.	.	1.180	1.369	189			3349.0887	
	29849.997	3																3349.1213	5
2	29849.347	3	15641.100-	45490.434	13	.	.	3.5-	4.5	.	.	.	1.040	1.065*	25			3349.1943	5
	29848.368	3																3349.3041	5
	29848.080	3																3349.3365	5
2	29847.036	4	40035.490-	10183.463	9	.	.	1.5-	0.5	.	.	.	1.180	2.402*	1222			3349.4536	
	29846.873	3																3349.4719	5
	29846.434	5																3349.5212	5
2	29846.200	4	16499.640-	46345.820	20	.	.	3.5-	4.5	.	.	.	0.773	1.030	257			3349.5474	5
1	29845.832	4	9724.351-	39570.175	8	.	.	3.0-	2.0	.	.	.	0.442	1.150*	708		-254*	3349.5887	
1	29845.437	9	29845.430-	0.000	7	1.0-	0.0	1.0-	0.0	1.355	.00	.	1.336	0.000	0		7	3349.6331	
	29844.887	4																3349.6948	5
	29844.440	4																3349.7450	5
	29844.268	3																3349.7643	5
	29843.519	3																3349.8484	5
	29843.238	3																3349.8799	5
	29842.940	3																3349.9133	5
	29842.685	3																3349.9420	5
2	29842.448	4	14476.135-	44318.570	13	.	.	4.5-	5.5	.	.	.	1.060	1.035	25		-652*	3349.9586	
	29842.051	3																3350.0131	5
	29841.691	4																3350.0536	5
1	29841.294	3	37615.923-	7774.653	24	.	.	5.0-	4.0	.	.	.	1.095	1.463	368		-65	3350.0981	
	29840.762	3																3350.1579	5
	29840.303	3																3350.2094	5
	29840.014	3																3350.2418	5
	29839.744	3																3350.2722	5
2	29839.232	9	39081.580-	9242.356	8	4.5-	3.5	4.5-	3.5	1.200	1.365	.165	1.207	1.369	162		-58	3350.3296	
	29838.926	3																3350.3640	5
	29838.799	3																3350.3783	5
	29838.558	4																3350.4053	5
2	29838.298	9	37336.640-	7498.364	22	2.5-	2.5	2.5-	2.5	1.215	1.315	.100	1.207	1.321	114			3350.4345	
	29837.903	3																3350.4789	5
	29836.044	3																3350.6876	5
	29835.199	3				1.0-	2.0					.22						3350.7825	JQ 5
	29834.942	3																3350.8114	5
	29834.710	3																3350.8375	5
2	29833.157	3	13809.910-	43643.060	7	.	.	4.5-	3.5	.	.	.	0.657	0.990*	333			3351.0119	5
	29832.944	4				5.0-	5.0					1.98						3351.0358	JQ 2J0G5 5
	29832.044	3																3351.1369	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	29831.290	3																	3351.2216	5
2	29330.710	4	15362.000-60192.700		10	.	.	4.5-	3.5	.	.	.	.	1.050	0.950*	100			3351.2868	5
2	29830.215	9	35332.255- 5592.060		20	2.5-	1.5	2.5-	1.5	.	.	.	.09	1.263	1.169	94	-51		3351.3424	SI
	29829.919	3																	3351.3757	5
	29829.613	3																	3351.4100	5
2	29829.106	4	41628.325-11799.241		22	.	.	4.5-	5.5	.	.	.	.	1.155	1.373	218			3351.4670	
	29827.793	4																	3351.6145	5
	29827.320	3																	3351.6677	5
	29826.829	3																	3351.7229	5
	29826.350	3																	3351.7767	5
2	29825.999	9	37104.860- 7278.862		1	4.5-	4.5	4.5-	4.5	1.170	1.539	.368		1.171	1.545	374	78		3351.8161	
	29825.572	3																	3351.8641	5
	29825.283	3																	3351.8966	5
	29824.950	3																	3351.9340	5
1	29824.560	4	35939.064- 6144.515		11	.	.	2.0-	3.0	.	.	.	.	0.765	1.473	708	-172*		3351.9779	
	29823.599	4																	3352.0859	5
	29823.266	4																	3352.1233	5
	29821.912	3																	3352.2755	5
	29821.565	4																	3352.3145	5
	29821.182	3																	3352.3576	5
	29820.663	3																	3352.4159	5
	29819.899	3																	3352.5018	5
	29818.901	3																	3352.6140	5
	29817.575	5																	3352.7631	5
2	29817.064	9	33052.825- 3235.770		9	0.5-	0.5	0.5-	0.5	1.245	.300	.945		1.242	0.299	943	40*		3352.8206	
2	29815.444	3	39057.820- 9242.356		-20	.	.	4.5-	3.5	.	.	.	.	1.156	1.369	213	171		3353.0028	
2	29814.317	6	43805.265-13990.952		4	1.5-	1.5	1.5-	1.5	1.085	1.725	.640		1.090	1.728	638			3353.1295	5
	29813.852	3																	3353.1818	5
	29813.591	3																	3353.2112	5
	29812.715	3																	3353.3097	5
	29812.254	4						2.0-	3.0	.890	1.155	.265							3353.3616	5
2	29808.841	3	41608.075-11799.241		7	.	.	6.5-	5.5	.	.	.	.	1.095	1.373	278	41*		3353.7455	
2	29807.541	6	35525.910- 5717.976		7	.	.	4.5-	3.5	.	.	.	.	1.176	1.596	420	41*		3353.8468	
	29807.359	7																	3353.9123	SO
	29807.134	8																	3353.9376	Q
	29806.747	3																	3353.9811	5
	29806.472	3																	3354.0121	5
2	29805.648	9	37084.510- 7278.862		0	3.5-	4.5	3.5-	4.5	1.08	1.54	.46		1.080	1.545*	465			3354.1048	
	29805.342	4																	3354.1392	5
	29804.649	3																	3354.2172	5
	29804.305	4																	3354.2559	5
2	29803.935	4	15641.100-45445.065		20	.	.	3.5-	4.5	.	.	.	.	1.040	1.000*	40			3354.2920	
	29803.057	4																	3354.3919	5
	29802.310	3																	3354.4805	5
	29801.536	3																	3354.5620	5
2	29800.501	5	12048.548-41849.030		19	.	.	1.5-	2.5	.	.	.	.	-0.054	1.080	1134			3354.6841	
	29800.215	3																	3354.7163	5
2	29799.907	4	14561.607-44361.495		19	.	.	1.5-	2.5	.	.	.	.	1.149	0.850*	299			3354.7510	
2	29799.598	3	12992.644-42792.230		12	.	.	2.5-	3.5	.	.	.	.	0.643	0.900	257			3354.7858	
	29799.220	3																	3354.8283	5
	29798.819	3																	3354.8735	5
2	29797.397	9	38435.630- 8638.233		0	5.5-	5.5	5.5-	5.5	.	.	.38		1.150	1.514*	364	53*		3355.0336	
	29797.134	3																	3355.0632	5
	29796.064	3																	3355.1837	5
	29794.728	3																	3355.3341	5

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	29793.476	3	34093.140-	4299.659	-5	.	.	.	3.0-	2.0	.	.	.	1.053	1.482	429	.	-33	3355.4751		
	29793.022	6				.	.	.				.	.	166					3355.5263	DJO 2J06
	29792.515	3				.	.	.				.	.						3355.5834	5
	29792.199	3				.	.	.				.	.						3355.6190	5
	29791.747	5				.	.	.				.	.						3355.6699	5
	29789.726	3				.	.	.				.	.						3355.8976	5
	29789.052	4				.	.	.				.	.						3355.9735	5
	29788.796	5				.	.	.				.	.						3356.0023	5
	29788.416	3				.	.	.				.	.						3356.0451	5
	29787.405	3				.	.	.				.	.						3356.1591	5
2	29786.978	9	33756.860-	3969.846	-36	3.5-	2.5	3.5-	2.540	1.272	1.670	398	.	-57	3356.2072	
	29786.870	9				2.5-	2.5	.	.	.	.	.	.	2.2					3356.2193	2J06
2	29785.875	4	14295.565-	44081.440	0	.	.	.	3.5-	4.5	.	.	.		0.790	0.875	85	.		3356.3315	
1	29784.558	6	9724.351-	39508.910	-1	.	.	.	3.0-	3.0	.	.	.		0.442	0.870	428	.		3356.4799	
2	29784.303	3	18720.075-	48504.345	33	.	.	.	3.5-	2.5	.	.	.		1.060	0.790*	270	.		3356.5086	5
2	29783.876	4	19317.370-	49101.285	-39	.	.	.	4.5-	4.5	.	.	.		1.225	1.050*	175	.		3356.5567	5
	29783.636	4				.	.	.				.	.						3356.5781	5
2	29783.421	9	29783.410-	0.000	11	0.5-	0.5	0.5-	0.5	2.591	3.142	.551	.	2.590	3.150*	560	.	11*	3356.6080		
	29780.927	3				.	.	.				.	.						3356.8891	5
	29779.933	4				.	.	.				.	.						3356.9955	5
	29778.151	3				.	.	.				.	.						3357.1987	5
2	29776.839	4	40503.160-	10726.322	1	.	.	.	5.5-	4.5	.	.	.		1.110	1.391*	281	.		3357.3500	
	29776.032	3				.	.	.				.	.						3357.4410	5
1	29775.395	5	34075.080-	4299.659	-26	3.0-	2.0	3.0-	2.0	.975	1.480	.505	.	0.975	1.482	507	.	-59	3357.5128		
	29774.319	3				.	.	.				.	.						3357.6342	5
	29773.859	4				.	.	.				.	.						3357.6860	5
	29772.302	3				.	.	.				.	.						3357.8616	5
	29772.120	3				.	.	.				.	.						3357.8822	5
	29771.252	3				.	.	.				.	.						3357.9767	5
	29770.718	3				.	.	.				.	.						3358.0403	5
2	29770.400	4	8198.666-	37969.065	1	.	.	.	2.5-	2.5	.	.	.		0.414	0.832	418	.	-651	3358.0762	
	29769.915	9				.	.	.				.	.						3358.1309	2LNSDJ15
	29769.915	9				.	.	.				.	.						3358.1309	2LNSDJ05
	29769.346	3				.	.	.				.	.						3358.1951	5
	29768.708	6				5.5-	5.5	.				.	.	.285					3358.2670	JQ
	29768.096	3				.	.	.				.	.						3358.3361	5
2	29767.407	9	39475.380-	9707.980	7	6.5-	6.5	6.5-	6.5	1.110	1.485	.375	.	1.110	1.485	375	.	84*	3358.4138		
2	29766.917	4	19466.530-	49233.475	-28	.	.	.	4.5-	3.5	.	.	.		1.151	0.980*	171	.		3358.4691	5
	29766.721	4				.	.	.				.	.						3358.4912	5
	29766.270	3				.	.	.				.	.						3358.5421	5
	29765.331	4				.	.	.				.	.						3358.6481	5
2	29764.913	3	40491.205-	10726.322	30	.	.	.	4.5-	4.5	.	.	.		1.155	1.391	236	.		3358.6952	
	29764.111	3				.	.	.				.	.						3358.7857	5
2	29763.633	9	31778.615-	2014.966	-16	0.5-	1.5	0.5-	1.5	2.904	1.888	1016	.	2.897	1.881	1016	.		3358.8397		
	29762.713	3				.	.	.				.	.						3358.9435	5
	29762.428	3				.	.	.				.	.						3358.9757	5
2	29762.024	9	35479.995-	5717.976	5	3.5-	3.5	3.5-	3.5	1.335	1.596	.261	.	1.335	1.596	261	.		3359.0213		
	29761.589	3				.	.	.				.	.						3359.0704	5
2	29759.266	4	13809.910-	43569.180	-4	.	.	.	4.5-	3.5	.	.	.		0.657	1.005	348	.		3359.3326	
	29759.043	9				.	.	.				.	.	.485					3359.3578	5
2	29758.759	8	32994.525-	3235.770	4	1.5-	0.5	1.5-	0.5	1.110	.300	.810	.	1.110	0.299	811	.		3359.3898		
	29758.635	9				.	.	.				.	.						3359.3982	Q
	29758.564	4				.	.	.				.	.						3359.4118	5
2	29758.035	3	8198.666-	37956.685	16	.	.	.	2.5-	1.5	.	.	.		0.414	0.904	490	.	-397	3359.4716	
	29757.769	3				.	.	.				.	.						3359.5016	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29756.000	5																		3359.7013	5
	29755.454	3																		3359.7630	5
	29755.012	3																		3359.8129	5
1	29754.642	5	9724.351-39479.000		-7		3.0-	3.0	3.0-	3.0	.44	.97	.53	0.442	0.970	528			3359.8547	5	
2	29754.234	4	15098.815-44853.015		34		.	.	1.5-	2.5				1.079	0.920*	159			3359.9007	5	
	29753.733	3																		3359.9573	5
	29753.457	3																		3359.9885	5
	29752.312	3																		3360.1178	5
	29751.683	3																		3360.1888	5
2	29751.202	5	33721.040- 3969.846		8		.	.	1.5-	2.5				1.228	1.670	442		26	3360.2432		
2	29750.780	5	32993.130- 9242.356		6		.	.	2.5-	3.5				1.025	1.369	344			3360.2908		
	29750.269	3																		3360.3553	5
	29749.990	3																		3360.3801	5
	29749.456	5																		3360.4404	5
	29748.154	7											333							3360.5875	2JD6
1	29746.981	4	37521.550- 7774.653		84		5.5-	5.5						1.315	1.463	148			3360.7200	5	
	29746.314	4					.	.	3.0-	4.0										3360.7953	5
2	29743.764	9	31758.755- 2014.966		-25		2.5-	1.5	2.5-	1.5			.61	1.270	1.881	611			3361.0835	SO PB	
	29743.274	5																		3361.1388	5
	29743.046	4																		3361.1646	5
2	29742.626	9	35460.660- 5717.976		-58		.	.	3.5-	3.5				1.145	1.596	451		168	3361.2121		
2	29741.871	9	37240.235- 7498.364		0		3.5-	2.5	3.5-	2.5	1.245	1.320	.075	1.240	1.321	81		-40*	3361.2974		
	29740.585	4																		3361.4428	5
2	29740.054	5	17073.340-46813.360		34		.	.	1.5-	2.5				0.576	1.070*	494			3361.5028	5	
	29739.635	6																		3361.5501	5
	29739.251	4																		3361.5935	5
	29738.709	4																		3361.6548	5
	29738.410	4																		3361.6886	5
	29737.945	5																		3361.7412	5
2	29737.670	5	41536.885-11799.241		26		.	.	4.5-	5.5				1.155	1.373	218			3361.7723		
2	29737.388	6	37016.265- 7278.862		-15		.	.	5.5-	4.5				1.150	1.545	395			3361.8042		
	29736.918	4																		3361.8573	5
	29736.559	4																		3361.8979	5
	29736.315	4																		3361.9255	5
	29735.854	4																		3361.9742	5
	29734.505	4																		3362.1301	5
2	29734.226	5	8709.640-38443.925		1		.	.	3.5-	4.5				0.308	1.020	712		-38	3362.1549		
	29733.701	5																		3362.2210	5
2	29733.359	9	37012.210- 7278.862		11		4.5-	4.5	4.5-	4.5			.379	1.164	1.545	381		69	3362.2597		
1	29732.962	9	29732.960- 0.000		2		1.0-	0.0	1.0-	0.0	1.320	.000		1.289	0.000	0		-22	3362.3046		
	29732.601	4																		3362.3454	5
	29732.097	4																		3362.4024	5
	29731.266	5																		3362.4964	5
1	29730.579	9	34030.240- 4299.659		-2		2.0-	2.0	2.0-	2.0	1.300	1.485	.185	1.300	1.482	182		-18	3362.5741		
2	29730.359	6	41529.540-11799.241		10		.	.	4.5-	5.5				1.165	1.373	208			3362.6046		
	29727.431	4																		3362.9302	5
	29725.652	4																		3363.1315	5
2	29724.635	4	31739.610- 2014.966		-9		.	.	2.5-	1.5				1.170	1.881*	711		6	3363.2465		
1	29723.355	6	6313.866-36037.220		1		4.0-	5.0	4.0-	5.0	.490	1.155	.665	0.487	1.155	668			3363.3914	5	
	29721.955	4																		3363.5498	5
	29719.972	4																		3363.7742	5
	29719.656	3																		3363.8100	5
1	29719.129	6	31922.720- 2203.606		15		1.0-	1.0	1.0-	1.0			.207	1.278	1.495	217		32*	3363.8697		
	29718.749	3																		3363.9127	5
	29718.485	4																		3363.9426	5

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	29717.451	5	35435.415-		5717.976	12	2.5-	3.5	2.5-	3.5	.	.	.638	0.937	1.596	659			3364.0596	
	29717.026	4									.	.							3364.1077	5
	29716.514	4									.	.							3364.1657	5
	29716.073	4									.	.							3364.2156	5
	29714.929	4									.	.							3364.3451	5
	29714.606	4									.	.							3364.3817	5
2	29714.170	5	37212.525-		7498.364	9	.	.	2.5-	2.5	.	.		0.960	1.321*	361			3364.4311	
	29713.897	3									.	.							3364.4620	5
2	29713.463	5	38955.805-		9242.356	14	.	.	3.5-	3.5	.	.		1.165	1.369	204			3364.5111	
	29712.956	5									.	.							3364.5685	5
	29712.378	4									.	.							3364.6340	5
	29711.107	4									.	.							3364.7779	5
	29710.584	7									.	.	.65						3364.8372	2LNS
2	29710.584	-5	14476.135-		44186.735	-16	.	.	4.5-	5.5	.98	.98		1.060	1.090*	30			3364.8372	2LNS
	29710.173	4									.	.							3364.8831	5
	29709.833	3									.	.							3364.9217	5
	29709.340	4									.	.							3364.9781	5
1	29709.167	5	9724.351-		39433.510	8	.	.	3.0-	4.0	.	.		0.442	0.925	483		-266	3364.9977	
	29707.836	4									.	.							3365.1484	5
1	29707.312	9	6313.866-		36021.165	13	4.0-	3.0	4.0-	3.0	.509	1.070	.561	0.487	1.048	561		-155	3365.2078	
2	29706.978	5	17296.905-		47003.820	63	.	.	4.5-	3.5	.	.		0.494	0.935	441			3365.2456	
	29706.319	4									.	.							3365.3203	5
2	29705.639	4	38948.000-		9242.356	-5	.	.	2.5-	3.5	.	.		1.090	1.369	279			3365.3973	
1	29704.062	5	8768.139-		38472.240	-39*	.	.	2.0-	3.0	.	.		0.362	1.050*	688			3365.5760	C2
1	29704.062	5	35848.508-		6144.515	69	.	.	4.0-	3.0	.	.		1.080	1.473	393		62	3365.5760	C2 CQ
1	29703.648	7	10486.922-		40190.580	-10	1.0-	2.0	1.0-	2.0	.355	.920	.565	0.355	0.920	565			3365.6229	5
	29703.308	9									1.086	1.086							3365.6546	5
	29702.878	4									.	.							3365.7102	5
	29702.699	4									.	.							3365.7304	5
	29702.391	4									.	.							3365.7653	5
	29701.630	5									.	.							3365.8516	5
	29700.079	4									.	.							3366.0274	5
2	29699.755	4	16499.640-		46199.395	0	.	.	3.5-	3.5	.	.		0.773	0.955	182			3366.0641	C2
2	29699.755	4	44392.825-		14693.090	20	.	.	1.5-	0.5	.	.		0.950	0.840*	110			3366.0641	C2
1	29699.609	4	12159.465-		41858.135	-1	.	.	4.0-	3.0	.	.		0.844	1.090	246			3366.1872	5
	29697.757	5					5.0-	5.0			.	.	.345						3366.2905	5
2	29697.262	4	36976.110-		7278.862	14	.	.	3.5-	4.5	.	.		1.200	1.545	345			3366.3467	
	29696.614	4									.	.							3366.4201	5
	29696.268	4									.	.							3366.4593	5
	29695.837	4									.	.							3366.5082	5
	29695.503	4									.	.							3366.5370	5
	29695.085	5									.	.							3366.5935	5
1	29694.735	6	8768.139-		38462.875	-1	2.0-	1.0	2.0-	1.0	.360	.765	.41	0.362	0.765	403		-227	3366.6331	
	29694.142	4									.	.							3366.7004	5
	29693.983	4									.	.							3366.7184	5
	29693.779	4									.	.							3366.7415	5
	29693.534	4									.	.							3366.7693	5
	29692.451	5									.	.							3366.8921	5
	29691.649	5									.	.							3366.9831	5
2	29691.040	5	43681.995-		13990.952	-3	.	.	1.5-	1.5	.	.		1.065	1.728	663			3367.0521	5
	29690.751	4									.	.							3367.0849	5
	29690.465	4									.	.							3367.1173	5
2	29689.439	4	20063.650-		49753.063	26	.	.	4.5-	3.5	.	.		1.049	1.000*	49			3367.2337	5
2	29688.790	7	36967.635-		7278.862	17	4.5-	4.5	4.5-	4.5	.	.	.354	1.190	1.545	355			3367.3073	
	29687.365	4									.	.							3367.4689	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29686.460	4																			
2	29685.878	4	40412.140-10726.322		60	.	.	3.5-	4.5	.	.	.	1.170	1.391	221	.	.		3367.5716	5	
	29685.615	6				.	.			.	.	.							3367.6376		
	29684.326	5				.	.			.	.	.							3367.6675	5	
	29683.903	4				.	.			.	.	.							3367.8137	5	
	29683.061	4				.	.			.	.	.							3367.8617	5	
	29682.770	4				.	.			.	.	.							3367.9572	5	
	29682.427	3				.	.			.	.	.							3367.9903	5	
1	29681.958	5	37456.630- 7774.653		-19	5.0-	4.0	5.0-	4.0	.	.80	.46	1.085	1.463	378	.	.		3368.0292	5	
	29680.794	5				.	.			.	.	.							3368.0824	S00 ZQ	
	29680.144	3				.	.			.	.	.							3368.2145	5	
2	29679.753	4	18720.075-48399.780		53	.	.	3.5-	3.5	.	.	.	1.060	0.950	110	.	.		3368.2883	5	
	29679.397	5				.	.			.	.	.							3368.3321	5	
	29678.150	4				.	.			.	.	.							3368.3730	5	
	29677.786	4				.	.			.	.	.							3368.3730	5	
	29677.332	4				.	.			.	.	.							3368.5146	5	
	29676.526	5				.	.			.	.	.							3368.5559	5	
	29675.975	4				.	.			.	.	.							3368.6074	5	
	29675.674	3				.	.			.	.	.							3368.6074	5	
	29675.336	3				.	.			.	.	.							3368.6989	5	
1	29675.146	9	33974.800- 4299.659		5	2.0-	2.0	2.0-	2.0	1.113	1.488	.375	1.110	1.482*	372		-80		3368.7615	5	
	29674.249	4				.	.			.	.	.							3368.7956	5	
	29672.921	4				.	.			.	.	.							3368.8340	5	
	29672.647	4				.	.			.	.	.							3368.8556	5	
	29672.160	4				.	.			.	.	.							3368.9574	5	
	29670.908	4				.	.			.	.	.							3369.9574	5	
	29670.524	4				.	.			.	.	.							3369.1082	5	
	29669.747	4				.	.			.	.	.							3369.1393	5	
2	29669.381	4	44102.745-14433.351		-13	.	.	1.5-	1.5	.	.	.	1.160	1.925*	765	.	.		3369.1946	5	
	29668.660	5				.	.			.	.	.							3369.3368	5	
2	29668.294	5	35386.270- 5717.976		0	.	.	4.5-	3.5	.	.	.	1.100	1.596	496		70		3369.4686	5	
	29667.735	3				.	.			.	.	.							3369.5102	5	
2	29667.370	4	17073.340-46740.710		0	.	.	1.5-	1.5	.	.	.	0.576	0.930*	354				3369.5921	5	
2	29665.994	2	46411.689-16745.720		25	.	.	3.5-	2.5	.	.	.	1.080	1.671*	591				3369.6337	5	
2	29664.716	9	33634.550- 3969.846		12	1.5-	2.5	1.5-	2.5	.	.	.45*	1.230	1.670*	440		29*		3369.6971	5	
	29664.165	4				.	.			.	.	.							3370.0401	SI	
	29663.586	4				.	.			.	.	.							3370.1027	5	
2	29662.927	9	39370.905- 9707.980		2	5.5-	6.5	5.5-	6.5	1.080	1.415	.335	1.160	1.485*	325		-116	-16*	3370.1685	5	
	29662.511	4				.	.			.	.	.							3370.2433	ISQ	
	29661.480	3				.	.			.	.	.							3370.2906	5	
	29661.252	6				.	.			.	.	.							3370.4078	5	
	29660.906	3				.	.			.	.	.							3370.4337	TI Q	
2	29660.757	4	38903.090- 9242.356		23	.	.	4.5-	3.5	.	.	.	1.135	1.369	234				3370.4730	5	
2	29660.346	6	13809.910-43470.195		61	.	.	4.5-	3.5	.	.	.	0.657	0.860	203				3370.4899	5	
	29659.879	4				.	.			.	.	.							3370.5366	CQ	
2	29659.450	9	33629.300- 3969.846		-4	2.5-	2.5	2.5-	2.5	1.235	1.670	.435	1.242	1.670	428		-69	-86	3370.5897	5	
	29658.985	3				3.5-	3.5			.	.	.435							3370.6385	JQ	
2	29653.931	6	41458.205-11799.241		17	.	.	4.5-	5.5	.	.	.	1.130	1.373	243				3370.6913	5	
1	29656.523	4	9724.351-39380.945		-8	.	.	3.0-	4.0	.	.	.	0.442	1.070*	628				3370.6918	5	
	29656.291	3				.	.			.	.	.							3370.9640	5	
	29655.739	5				.	.			.	.	.							3370.9975	5	
	29655.324	3				.	.			.	.	.							3371.0603	5	
	29654.955	4				.	.			.	.	.							3371.1074	5	
1	29654.570	9	31858.170- 2203.606		6	1.0-	1.0	1.0-	1.0	1.335	1.495	.160	1.335	1.495	160		181		3371.1494	5	
	29654.329	4				.	.			.	.	.							3371.1932	5	
						.	.			.	.	.							3371.2206	5	

C	HAVEN	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
		29654.123	4																			
2		29653.131	5	36931.980-		7278.862	13	.	.	5.5-	4.5	.	.	.	1.214	1.545	331	206		3371.2440	5	
		29652.723	4					.	.			.	.	.							3371.3568	
		29651.756	4					.	.			.	.	.							3371.4031	5
		29651.312	4					.	.			.	.	.							3371.5131	5
2		29650.978	4	17242.750-		46893.745	-17	.	.	2.5-	1.5	.	.	.	1.200	0.670*	530			3371.5636	5	
		29650.762	5					.	.			.	.	.							3371.6016	5
1		29650.226	6	9724.351-		39374.530	-3	3.0-	3.0	3.0-	3.0	.442	.885	.443	0.442	0.885	443			3371.6261	5	
		29649.128	6					1.10	.	.	.	.	.	.							3371.6871	
		29648.524	4					.	.			.	.	.							3371.8119	f
		29647.263	4					.	.			.	.	.							3371.8806	5
		29646.747	4					.	.			.	.	.							3372.0241	5
2		29646.240	3	37144.560-		7498.364	44	.	.	3.5-	2.5	.	.	.	1.220	1.321	101			3372.0827	5	
		29645.897	4					.	.			.	.	.							3372.1404	
2		29645.040	4	41444.280-		11799.241	1	.	.	5.5-	5.5	.	.	.	1.065	1.373	308			3372.1794	5	
2		29644.834	4	17242.750-		46887.595	-11	.	.	2.5-	3.5	.	.	.	1.200	0.930*	270			3372.2769		
		29644.561	4					.	.			.	.	.							3372.3004	5
2		29643.906	9	10436.770-		40080.685	-9	4.5-	5.5	4.5-	5.5	.710	1.050	.340	0.724	1.060*	336	-235		3372.3314	5	
		29643.510	6					.	.			.	.	.							3372.4059	5
		29641.618	6					.	.			.	.	.							3372.4510	5
1		29641.398	4	33941.055-		4299.659	2	.	.	3.0-	2.0	.	.	.	1.118	1.482	364	-28		3372.6663	I	
		29640.947	4					.	.			.	.	.							3372.6913	
		29639.950	4					.	.			.	.	.							3372.7426	5
		29639.459	4					.	.			.	.	.							3372.8549	5
1		29639.024	6	6313.856-		35952.890	0	4.0-	4.0	4.0-	4.0	.49	1.10	.61	0.487	1.100*	613			3372.9119	5	
2		29638.305	9	38276.535-		8638.233	3	.	.	5.5-	5.5	.	.	.	1.200	1.514*	314	-3		3372.9614		
		29638.017	3					.	.			.	.	.							3373.0433	DJO
		29637.881	4					.	.			.	.	.							3373.0760	5
		29637.403	4					.	.			.	.	.							3373.0915	5
1		29636.940	7	6313.866-		35950.800	6	4.0-	3.0	4.0-	3.0	.485	1.005	.520	0.487	1.005	518			3373.1459	5	
		29636.097	3					.	.			.	.	.							3373.1986	SO
		29635.119	4					.	.			.	.	.							3373.2946	5
		29633.048	4					.	.			.	.	.							3373.4059	5
		29632.481	4					.	.			.	.	.							3373.6417	5
		29630.971	4					.	.			.	.	.							3373.7062	5
		29630.466	4					.	.			.	.	.							3373.8782	5
		29629.412	4					.	.			.	.	.							3373.9357	5
		29629.196	4					.	.			.	.	.							3374.0557	5
		29627.788	4					.	.			.	.	.							3374.0803	5
2		29627.113	5	13809.910-		43437.020	3	.	.	4.5-	3.5	.	.	.	0.657	0.960*	303			3374.2406	5	
		29626.862	4					.	.			.	.	.							3374.3175	
		29626.210	4					.	.			.	.	.							3374.3461	5
1		29624.714	5	12351.522-		41976.230	6	.	.	6.0-	5.0	.	.	.	0.995	1.120*	125			3374.4204	5	
		29624.592	3					.	.			.	.	.							3374.5908	
		29624.314	9H					1.59	.	.	.	.	.	.97							3374.6047	5
		29624.045	4					.	.			.	.	.							3374.6363	f SI2JOG
		29623.571	4					.	.			.	.	.							3374.6669	5
		29623.300	4					.	.			.	.	.							3374.7210	ZR Q
		29622.894	4					.	.			.	.	.							3374.7519	5
		29622.695	4					.	.			.	.	.							3374.7981	5
		29622.420	4					.	.			.	.	.							3374.8208	
		29622.045	4					.	.			.	.	.							3374.8521	5
		29621.512	3					.	.			.	.	.							3374.8948	5
2		29621.311	4	29621.300-		0.000	11	.	.	1.5-	0.5	.	.	.	1.045	3.150	2105	61*		3374.9556	5	
		29618.822	5					.	.			.	.	.							3374.9785	
														3375.2621	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
2	29618.049	8	40344.355	-	10726.322	16	5.5-	4.5	5.5-	4.5	.	.	.23	1.165	1.391	226	-82*	3375.3502	SO	
	29617.689	4									.	.						3375.3912	5	
	29617.352	4									.	.						3375.4285	5	
	29616.982	4									.	.						3375.4718	5	
	29616.643	3									.	.						3375.5104	5	
	29616.366	4									.	.						3375.5420	5	
2	29615.646	6	35117.695	-	5502.060	11	.	.	1.5-	1.5	.	.		1.505	1.169	336	-93	3375.6241		
	29614.686	4									.	.						3375.7335	5	
2	29614.275	9	35332.255	-	5717.976	-4	2.5-	3.5	2.5-	3.5	.	.	.345	1.263	1.596	333	-71	3375.7804	DJ1	
1	29614.165	9	6313.866	-	35928.010	21	4.0-	4.0	4.0-	4.0	.	.	.470	0.487	0.960	473	-178	3375.7929	DJ0	
	29613.677	4									.	.						3375.8485	5	
	29613.006	4									.	.						3375.9250	5	
	29611.845	4									.	.						3376.0574	5	
	29611.329	5									.	.						3376.1162	5	
	29610.947	4									.	.						3376.1598	5	
	29609.939	5									.	.						3376.2747	5	
	29609.717	4									.	.						3376.3000	5	
1	29608.881	5	9724.351	-	39333.250	-18	.	.	3.0-	2.0	.	.		0.442	0.995	553		3376.3954		
	29607.417	4									.	.						3376.5623	5	
2	29605.630	9	32841.375	-	3235.770	25	1.5-	0.5	1.5-	0.5	1.25	.30	.950	1.234	0.299	935	-73	3376.7661		
	29605.529	6									.	.						3376.7776	5	
2	29605.351	4	41404.605	-	11799.241	-13	.	.	6.5-	5.5	.	.		1.080	1.373	293		3376.7980		
	29605.193	5									.	.						3376.8160	5	
	29604.441	3									.	.						3376.9018	5	
2	29604.140	9	31619.095	-	2014.966	11	1.5-	1.5	1.5-	1.5	1.633	1.901	.268	1.613	1.881	268	-59*	3376.9361		
2	29602.459	3	38844.845	-	9242.356	-30	.	.	2.5-	3.5	.	.		1.340	1.369	29		3377.1279		
	29602.390	4									.	.						3377.1357	5	
	29601.822	3									.	.						3377.2005	5	
	29601.612	4									.	.						3377.2245	5	
	29601.284	4									.	.						3377.2619	5	
	29601.030	3									.	.						3377.2909	5	
2	29600.320	9	10436.770	-	40037.110	-20*	4.5-	5.5	4.5-	5.5	.717	.877	.160	0.724	0.884	160	-73	3377.3719		
2	29600.178	7	38238.390	-	8638.233	21	5.5-	5.5	5.5-	5.5	1.095	1.520	.425	1.095	1.514	419		3377.3881		
	29599.670	4									.	.						3377.4461	5	
2	29599.324	7	13192.903	-	42792.230	-3	.	.	2.5-	3.5	.	.		0.372	0.900	528		3377.4856		
2	29598.744	3	16593.963	-	46192.700	7	.	.	2.5-	3.5	.	.		0.983	0.950	33		3377.5517	5	
	29597.579	4									.	.						3377.6847	5	
	29597.286	3									.	.						3377.7181	5	
1	29597.090	6	35741.610	-	6144.515	-5	3.0-	3.0	3.0-	3.0	.963	1.470	.507	0.965	1.473	508		3377.7405		
	29596.870	4									.	.						3377.7656	5	
1	29595.503	3	35740.015	-	6144.515	3	.	.	4.0-	3.0	.	.		1.105	1.473	368	-7	3377.9216		
	29595.294	4									.	.						3377.9455	5	
	29595.088	4									.	.						3377.9690	5	
	29594.382	4									.	.						3378.0496	5	
	29594.026	4									.	.						3378.0902	5	
2	29593.797	4	16593.963	-	46167.750	10	.	.	2.5-	1.5	.	.		0.983	0.740	243		3378.1164		
	29592.996	4									.	.						3378.2078	5	
	29592.371	4									.	.						3378.2792	5	
	29592.184	4									.	.						3378.3005	5	
	29591.153	4									.	.						3378.4176	5	
2	29590.709	5	17296.905	-	46087.595	19	.	.	4.5-	3.5	.	.		0.494	0.930	436		3378.4689		
	29590.039	4									.	.						3378.5454	5	
2	29589.002	3	12992.644	-	42581.655	-9	.	.	2.5-	1.5	.	.		0.643	0.790*	147		3378.6638		
	29588.504	4									.	.						3378.7207	5	
2	29588.230	8	10436.770	-	40025.010	-10	4.5-	3.5	4.5-	3.5	.725	.900	.175	0.724	0.900	176	-265	3378.7520		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	29588.010	6	41387.240	-	11799.241	11	5.5-	5.5	5.5-	5.5	.	.	.	1.125	1.373	248			3378.7771	
	29586.845	4									.	.	.						3378.9101	5
	29585.167	3									.	.	.						3379.1018	5
2	29594.943	5	11504.095	-	41089.060	-22	.	.	3.5-	2.5	.	.	.	0.859	0.935	76	-598		3379.1274	
	29583.824	4									.	.	.						3379.2552	5
2	29582.660	6	39290.645	-	9707.980	-5	.	.	6.5-	6.5	.	.	.	1.075	1.485	410			3379.3882	
	29582.038	4									.	.	.						3379.4535	5
1	29581.571	9	9386.801	-	38968.370	2	5.0-	5.0	5.0-	5.0	.800	1.065	.265	0.801	1.065	264			3379.5126	
	29580.471	4									.	.	.						3379.6383	5
	29579.420	4									.	.	.						3379.7515	5
1	29578.069	7	35722.593	-	6144.515	-9	3.0-	3.0	3.0-	3.0	1.115	1.470	.355	1.119	1.473	354	-11		3379.9127	
	29577.632	5									.	.	.						3379.9627	5
	29576.025	4									.	.	.						3380.1463	5
	29575.239	4									.	.	.						3380.2361	5
	29574.356	4									.	.	.						3380.3371	5
	29573.940	4									.	.	.						3380.3846	5
	29572.926	4									.	.	.						3380.5005	5
	29572.631	5									.	.	.						3380.5343	5
	29572.359	4									.	.	.						3380.5653	5
	29572.127	4									.	.	.						3380.5919	5
	29571.687	4									.	.	.						3380.6422	5
2	29571.333	6	40297.730	-	10726.322	-75	5.5-	4.5	5.5-	4.5	.	.	.32	1.070	1.391	321			3380.6826	2LNS
1	29571.333	6	29571.327-		0.000	6	1.0-	0.0	1.0-	0.0	1.15	.00		1.132	0.000	0	-81		3380.6826	2LNS PB
2	29570.612	4	17242.750	-	46813.360	2	.	.	2.5-	2.5	.	.	.	1.200	1.070*	130			3380.7651	5
	29570.325	4									.	.	.						3380.7979	5
2	29569.568	4	38811.900	-	9242.356	24	.	.	3.5-	3.5	.	.	.	1.115	1.369	254	-161*		3380.8844	
2	29568.880	4	40295.200	-	10726.322	2	.	.	4.5-	4.5	.	.	.	1.045	1.391	346			3380.9631	5
	29568.450	4									.	.	.						3381.0123	5
	29567.584	3									.	.	.						3381.1113	5
2	29567.366	9	38809.725	-	9242.356	-3	.	.	4.5-	3.5	.	.	.	1.110	1.369	259			3381.1362	
2	29567.133	4	43558.060	-	13990.952	25	.	.	0.5-	1.5	.	.	.	1.580	1.728*	148			3381.1629	5
2	29566.752	9	36845.610	-	7278.862	4	4.5-	4.5	4.5-	4.5	1.170	1.545	.375	1.180	1.545	365	221*		3381.2065	
	29566.314	3									.	.	.						3381.2565	5
	29566.187	4									.	.	.						3381.2711	5
	29564.903	4									.	.	.						3381.4179	5
2	29564.236	5	44257.315	-	14693.090	11	.	.	1.5-	0.5	.	.	.	1.185	0.840	345			3381.4942	5
	29563.348	4									.	.	.						3381.5958	5
	29562.680	4									.	.	.						3381.6722	5
	29562.135	4									.	.	.						3381.7345	5
	29561.685	5									.	.	.						3381.7850	5
1	29561.408	9	9724.351	-	39285.760	-1*	3.0-	2.0	3.0-	2.0	.	.	.56	0.442	1.020	578	-264		3381.8177	
	29560.630	4									.	.	.						3381.9010	5
2	29560.100	9	36838.925	-	7278.862	37	3.5-	4.5	3.5-	4.5	.	.	.32	1.225	1.545	320	-224*		3381.9674	
	29559.485	4									.	.	.						3382.0377	5
1	29558.853	4	37333.515	-	7774.653	1	.	.	5.0-	4.0	.	.	.	1.065	1.463	398	-47		3382.1089	
	29558.187	4									.	.	.						3382.1862	5
	29557.107	3									.	.	.						3382.3098	TI Q
2	29556.561	9	29556.550-		0.000	11	1.5-	0.5	1.5-	0.5	.	.	2.65	0.484	3.150	2666	-93		3382.3723	
	29556.193	4									.	.	.						3382.4144	5
	29555.915	4									.	.	.						3382.4463	5
	29555.065	4									.	.	.						3382.5435	5
	29554.715	4									.	.	.						3382.5836	5
1	29553.741	9	33853.410	-	4299.659	-10	3.0-	2.0	3.0-	2.0	.	.	.46	1.021	1.482	461	-20		3382.6951	
	29553.233	4									.	.	.						3382.7532	5
	29551.529	5									.	.	.						3382.9483	5

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	29551.215	4																	3382.9842	5
	29550.913	6																	3383.0188	5
	29550.516	5																	3383.0643	5
	29550.158	4																	3383.1052	5
	29548.272	4																	3383.3212	5
2	29547.841	9	35265.810-	5717.976	7	3.5-	3.5	3.5-	3.5				.613	0.980	1.596*	616		80*	3383.3705	5
	29546.656	4																	3383.5062	5
	29545.281	5																	3383.5950	5
	29545.529	4																	3383.6353	5
	29545.242	5																	3383.6682	5
	29544.005	4																	3383.8099	5
1	29543.695	4	9724.351-	39268.050	-4	. - .		3.0-	4.0					0.442	1.140*	698			3383.8454	5
2	29543.477	5	13809.910-	43353.370	17	. - .		4.5-	3.5					0.657	0.970*	313			3383.8703	5
	29543.253	4																	3383.8960	5
	29542.767	5																	3383.9517	5
	29542.128	9						6.5-	6.5		1.135	1.485	.350						3384.0249	5
	29541.594	4																	3384.0860	5
	29541.278	4																	3384.1222	5
1	29541.084	5	10486.922-	40028.005	1	1.0-	2.0	1.0-	2.0	.36	.98	.62		0.355	0.980*	625			3384.1445	5
	29538.698	4																	3384.4178	5
2	29538.149	4	43529.065-	13990.952	36	. - .		1.5-	1.5					1.040	1.728*	688			3384.4807	5
	29536.422	3																	3384.6786	5
	29535.917	4																	3384.7365	5
	29533.862	4																	3384.9720	5
	29533.718	3																	3384.9885	5
1	29532.460	7	8768.139-	38300.595	4	2.0-	2.0	2.0-	2.0					0.362	1.150	788			3385.1327	5
	29531.938	4																	3385.1925	5
2	29531.726	4	43965.055-	14433.351	22	. - .		0.5-	1.5					0.770	1.925*	1155			3385.2169	5
2	29531.012	4	8198.666-	37729.665	13	. - .		2.5-	2.5					0.414	1.050*	636		-660	3385.2987	5
	29529.996	3																	3385.4152	5
	29529.794	3																	3385.4383	5
1	29528.945	6	11240.715-	41359.665	-5	3.0-	4.0	3.0-	4.0	.81	1.12	.310		0.811	1.120*	309			3385.5357	5
2	29527.992	9	31542.950-	2014.966	8	1.5-	1.5	1.5-	1.5	1.010	1.880	.870		1.026	1.881	855			3385.6449	5
	29527.657	4																	3385.6834	5
	29527.098	4																	3385.7475	5
2	29526.784	4	14295.565-	43822.335	14	. - .		3.5-	2.5					0.790	0.950*	160		-171*	3385.7835	5
	29526.444	4																	3385.8225	5
	29525.733	4																	3385.9040	5
	29524.954	4																	3385.9933	5
	29522.967	3																	3386.2212	5
2	29522.721	3	15578.500-	45101.220	1	. - .		6.5-	5.5					0.000	1.060*	0			3386.2494	5
	29521.769	4																	3386.3586	5
1	29521.268	9	31724.867-	2203.606	7	2.0-	1.0	2.0-	1.0		1.48	.48		1.016	1.495	479		-74	3386.4161	5
	29520.790	4																	3386.4709	5
1	29516.500	6	6313.866-	35830.380	-14	4.0-	4.0	4.0-	4.0	.485	.965	.480		0.487	0.965	478		-225	3386.9632	HVL* 5
	29515.399	4																	3387.0895	5
	29515.169	5																	3387.1159	5
	29513.960	4																	3387.2547	5
	29513.657	4																	3387.2894	5
1	29513.029	7	9724.351-	39237.380	0	3.0-	2.0	3.0-	2.0	.442	1.170	.728		0.442	1.210*	768			3387.3615	5
	29511.267	4																	3387.5638	5
2	29508.462	9	39696.890-	10183.463	35	0.5-	0.5	0.5-	0.5	.897	2.399	1502		0.900	2.402	1502			3387.8858	5
	29507.674	5																	3387.9763	5
2	29507.236	4	13192.903-	42700.125	14	. - .		2.5-	2.5					0.372	0.815	443			3388.0266	5
	29506.633	4																	3388.0958	5

C	WAVE	NUMBER	I	T2	T1	O-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	29506.271	6	9724.351-39230.610	12*	3.0-	4.0	3.0-	4.0	.440	1.035	.645	0.442	1.090*	648	-207	3388.1374				
	29504.891	6																	3388.2958	ZR Q 5
	29504.480	4																	3388.3430	5
2	29501.812	6	31516.780- 2014.966	-2	2.5-	1.5	2.5-	1.5	1.215	1.880	.665	1.215	1.881	666					3388.6495	5
	29501.202	4																	3388.7195	5
	29500.633	4																	3388.7849	5
	29499.178	4																	3388.9521	5
	29497.212	5																	3389.1779	5
	29496.427	5																	3389.2681	5
2	29496.025	9	36774.865- 7278.862	22	3.5-	4.5	3.5-	4.5			.415	1.127	1.545	418					3389.3143	SI 5
	29495.734	4																	3389.3478	5
	29495.179	4																	3389.4116	5
2	29494.810	9	35212.780- 5717.976	6	. - .	2.5-	3.5				.36	1.108	1.596	488					3389.4540	5
	29494.712	9																	3389.4652	5
	29494.444	9																	3389.4960	5
	29494.126	4																	3389.5326	5
	29493.860	5																	3389.5631	5
2	29493.227	4	18720.075-49213.315	-13	. - .	3.5-	3.5					1.060	1.040*	20					3389.6359	5
	29493.061	4																	3389.6550	5
2	29492.431	5	35210.405- 5717.976	2	. - .	4.5-	3.5					0.977	1.596	619					3389.7274	5
	29491.988	4																	3389.7783	5
1	29491.408	9	6313.866-35805.270	4	4.0-	5.0	4.0-	5.0	.485	1.075	.590	0.487	1.075	588	-142	-138			3389.8450	5
	29490.917	4																	3389.9014	5
	29490.476	4																	3389.9521	5
	29490.114	4																	3389.9937	5
	29489.729	8																	3390.0380	5
	29489.284	4																	3390.0891	5
2	29488.493	6	40214.805-10726.322	10	. - .	4.5-	4.5					1.320	1.391	71			21*		3390.1801	5
	29488.203	4																	3390.2134	5
2	29487.201	9	33457.050- 3969.846	-3	3.5-	2.5	3.5-	2.5	1.004	1.677	.670	1.002	1.670	668					3390.3286	5
	29486.883	1																	3390.3648	5
2	29483.552	4	15557.156-45140.685	23	. - .	2.5-	2.5					1.000	0.850	150					3390.7482	5
2	29482.550	4	38724.885- 9242.356	21	. - .	2.5-	3.5					1.140	1.369	229					3390.8635	5
	29480.905	4																	3391.0527	5
	29480.536	4																	3391.0951	5
	29479.985	4																	3391.1585	5
2	29477.843	9	39185.820- 9707.980	3	5.5-	6.5	5.5-	6.5	1.311	1.483	.172	1.313	1.485	172	-44	-40*			3391.4049	IS* 5
	29477.041	4																	3391.4972	5
	29476.004	4																	3391.6165	5
	29475.678	4																	3391.6540	5
	29475.280	6																	3391.6998	5
	29473.357	5																	3391.9211	5
	29471.290	4																	3392.1590	5
2	29470.929	9	33440.770- 3969.846	5	2.5-	2.5	2.5-	2.5	1.017	1.670	.653	1.016	1.670	654	0	31*			3392.2006	IS* 5
2	29470.488	9	31485.455- 2014.966	-1	1.5-	1.5	1.5-	1.5			.59	1.300	1.881	581			76		3392.2514	5
1	29470.083	7	10486.922-39956.990	15	. - .	1.0-	2.0					0.355	1.050	695					3392.2980	I DJ1 5
	29469.705	5																	3392.3415	5
	29469.334	5																	3392.3842	5
	29469.021	5																	3392.4202	5
2	29468.692	8	39176.695- 9707.980	-23	6.5-	6.5	6.5-	6.5			.304	1.180	1.485	305					3392.4581	28* 5
	29466.732	4																	3392.6838	5
2	29466.343	5	10436.770-39903.115	-2	. - .	4.5-	4.5					0.724	1.060*	336					3392.7286	5
	29465.628	5																	3392.8109	5
	29465.378	4																	3392.8397	5
	29465.151	5																	3392.8658	5

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	G6	G2	G1	G6	IS	IS		
	29464.531	4																	3392.9372	5
	29461.347	4																	3393.3039	5
	29461.042	4																	3393.3367	5
	29459.638	5																	3393.5008	5
1	29458.141	9	9724.351-39182.490		2	3.0-	2.0	3.0-	2.0	.46	1.02	.56	0.442	0.990*	548		-284	3393.6732		
	29457.749	5																	3393.7184	5
2	29456.557	6	38094.785- 8638.233		5	. - .	5.5-	5.5					1.090	1.514*	424			3393.8557		
	29456.138	5																	3393.9040	5
2	29455.297	5	40181.615-10726.322		4	. - .	3.5-	4.5					1.080	1.391*	311			3394.0009	5	
	29454.926	4																	3394.0437	5
	29454.534	4																	3394.0888	5
1	29453.592	6	31657.182- 2203.606		16	. - .	2.0-	1.0					0.000	1.495*	0		17	3394.1974	HAZY 5	
2	29452.879	3	44941.447-15428.530		-38	. - .	3.5-	3.5					1.230	1.057*	173			3394.2796	C2	
1	29452.879	3	31656.500- 2203.606		-15	. - .	1.0-	1.0					0.901	1.495	594		-43	3394.2796	C2	
1	29452.522	9	6313.866-35766.380		8	4.0-	4.0	4.0-	4.0	.49	1.06	.57	0.487	1.055	568		-141	3394.3207		
	29451.676	4																	3394.4182	5
2	29451.279	4	11504.095-40955.385		-11	. - .	3.5-	3.5					0.859	0.850	9		-508	3394.4640		
	29451.078	7				3.0-	3.0					.256							3394.4871	5
	29449.552	4																	3394.6630	5
	29449.269	3																	3394.6956	5
2	29446.965	9	36945.320- 7498.364		9	1.5-	2.5	1.5-	2.5	1.059	1.330	.271	1.030	1.321	291			3394.9613		
	29446.257	3																	3395.0429	5
	29445.890	4																	3395.0852	5
2	29444.448	6	36942.795- 7498.364		17	2.5-	2.5	2.5-	2.5				1.040	1.321	281			3395.2515		
	29442.680	4																	3395.4554	5
	29442.007	3																	3395.5330	5
	29441.412	3																	3395.6016	5
	29440.621	4																	3395.6928	5
	29439.792	5																	3395.7885	5
2	29438.652	5	16593.963-46032.640		-25	. - .	2.5-	1.5					0.983	0.000*	0			3395.9200	5	
1	29436.871	4	8768.139-38204.990		20	. - .	2.0-	3.0					0.362	1.085	723		-277	3396.1254		
	29436.367	3																	3396.1836	5
	29434.734	3																	3396.3720	5
	29432.215	5																	3396.6627	5
	29431.413	5																	3396.7553	5
	29430.977	3																	3396.8056	5
	29430.397	5																	3396.8725	5
1	29428.211	5	37202.870- 7774.653		-6	4.0-	4.0	4.0-	4.0	1.123	1.463	.440	1.125	1.463	338		-66	3397.1249	5	
	29427.977	3																	3397.1519	5
	29426.875	4																	3397.2791	5
	29425.854	4																	3397.3970	5
	29425.350	5																	3397.4552	5
2	29424.820	3	38657.180- 9242.356		-4	. - .	4.5-	3.5					1.092	1.369	277		-17*	3397.5164		
	29424.606	4																	3397.5411	5
2	29423.864	5	34925.920- 5502.060		4	. - .	2.5-	1.5					1.115	1.169	54		48*	3397.6268		
	29423.655	3																	3397.6509	5
2	29422.207	7	40148.535-10726.322		-6	3.5-	4.5	3.5-	4.5				1.060	1.391	331			3397.8181		
2	29420.071	7	33339.920- 3969.846		-3	. - .	1.5-	2.5					0.943	1.670	727		-57	3398.0648		
2	29419.322	9	39127.295- 9707.980		7	5.5-	6.5	5.5-	6.5	1.169	1.475	.306	1.179	1.485	306		41 41*	3398.1513	IS* 5	
	29418.897	4																	3398.2004	5
	29417.448	3																	3398.3678	5
	29416.966	4																	3398.4235	5
	29415.299	4																	3398.6161	5
	29414.791	4																	3398.6748	5
	29414.112	5																	3398.7533	5

C	WAVELENGTH	I	T2	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
						J2	J1	J2	J1				G2	G1	G6	G2	G1			G6	IS	IS
2	29413.666	5	36692.525-	7278.862	3	.	.	5.5-	4.5	.	.	.	1.070	1.545	475			3398.8048	
	29413.209	4				.	.			.	.	.						3398.8576	5
	29412.515	4				.	.			.	.	.						3398.9378	5
2	29412.159	4	15657.156-	45069.320	-5	.	.	2.5-	2.5	.	.	.	1.000	0.730*	270			3398.9789	5
2	29409.773	7	10436.770-	39846.560	-17	4.5-	4.5	4.5-	4.5	.724	1.024	.300	0.724	1.021	297			3399.2547	
	29409.382	3				.	.			.	.	.						3399.2999	5
	29408.367	4				.	.			.	.	.						3399.4172	5
	29406.533	5				.	.			.	.	.						3399.6293	5
1	29406.329	4	11840.715-	41247.030	14	.	.	3.0-	4.0	.	.	.	0.811	1.065	254			3399.6528	
2	29403.961	9	40130.265-	10726.322	18	5.5-	4.5	5.5-	4.5	.	.	.233	1.150	1.391	241			3399.9266	SOO
	29403.530	2				.	.			.	.	.						3399.9765	
	29402.247	1				.	.			.	.	.						3400.1248	
	29401.457	0				.	.			.	.	.						3400.2162	
	29401.013	0				.	.			.	.	.						3400.2675	
	29400.577	0				.	.			.	.	.						3400.3180	
	29399.975	1				.	.			.	.	.						3400.3876	
2	29399.445	4	15657.156-	45056.650	-49	.	.	2.5-	2.5	.	.	.	1.000	1.030	30			3400.4489	5
2	29399.205	3	10436.770-	39835.970	5	4.5-	3.5	4.5-	3.5	.70	.84	.14	0.724	0.850*	126	-183	-227	3400.4767	
	29398.430	1				.	.			.	.	.						3400.5663	
1	29396.158	2	11840.715-	41236.870	3	.	.	3.0-	4.0	.	.	.	0.811	1.020	209			3400.8291	
2	29393.852	5	33363.790-	3969.846	-92	3.5-	2.5	3.5-	2.5	1.07	1.66	.587	1.078	1.670	592			3401.0960	2 LNS
2	29393.852	5	29393.835-	0.000	17	0.5-	0.5	0.5-	0.5	-0.516	3.145	3.66	-0.516	3.150	3666	-76	-95	3401.0960	2 LNS
	29392.875	5				.	.			.	.	.						3401.2090	5
	29392.279	4				.	.			.	.	.						3401.2780	5
	29391.940	0				.	.			.	.	.						3401.3172	
2	29391.700	1	14561.607-	43953.290	17	.	.	1.5-	1.5	.	.	.	1.149	1.510	361			3401.3450	
	29391.213	4				.	.			.	.	.						3401.4013	5
	29390.528	1				.	.			.	.	.						3401.4737	
	29389.646	4				.	.			.	.	.						3401.5827	5
2	29388.746	1	13192.903-	42581.655	-6	.	.	2.5-	1.5	.	.	.	0.372	0.790*	418			3401.6869	
	29388.502	1				.	.			.	.	.						3401.7151	
	29388.255	1				.	.			.	.	.						3401.7437	
2	29387.905	1	40114.225-	10726.322	2	.	.	4.5-	4.5	.	.	.	1.135	1.391	256			3401.7842	
2	29387.261	4	13013.685-	42400.935	11	5.5-	4.5	5.5-	4.5	.95	1.00	.05	0.950	1.000*	50			3401.8588	DJ1
	29386.468	1				.	.			.	.	.						3401.9506	
1	29385.400	4	39623.901-	10238.473	-28	.	.	6.0-	6.0	.	.	.	1.140	1.431*	291			3402.0742	5
	29385.051	1				.	.			.	.	.						3402.1146	
	29384.673	4				.	.			.	.	.						3402.1584	5
2	29384.309	0	36882.645-	7498.364	28	.	.	2.5-	2.5	.	.	.	1.010	1.321	311			3402.2005	
	29383.720	2				.	.			.	.	.						3402.2687	
	29383.481	1				.	.			.	.	.						3402.2964	
	29383.012	1				.	.			.	.	.						3402.3507	
	29382.696	1				.	.			.	.	.						3402.3873	
	29382.433	4				.	.			.	.	.						3402.4120	5
	29382.123	4				.	.			.	.	.						3402.4537	5
	29381.724	0				.	.			.	.	.						3402.4999	
	29381.294	3				.	.			.	.	.						3402.5497	
	29380.814	4				.	.			.	.	.						3402.6053	5
1	29380.229	5	8768.139-	38148.375	-7	2.0-	3.0	2.0-	3.0	.35	.66	.31	0.362	0.690	328			3402.6730	PB
2	29379.771	4	43370.680-	13990.952	43	.	.	2.5-	1.5	.	.	.	1.265	1.728	463			3402.7261	5
1	29379.448	2	37154.100-	7774.653	1	.	.	5.0-	4.0	.	.	.	1.120	1.463	343			3402.7635	
	29379.025	4				.	.			.	.	.						3402.8125	5
2	29378.512	0	39566.980-	10183.463	-5	.	.	1.5-	0.5	.	.	.	1.180	2.402*	1222			3402.8719	
	29378.213	4				.	.			.	.	.						3402.9065	5
	29377.213	4				.	.			.	.	.						3403.0224	5

C	HAVE	NUMBER	I	T2	-	T1	O-C	OSS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
		29376.790	4																		3403.0714	5
		29376.411	0																		3403.1153	
		29375.967	4																		3403.1667	5
		29375.532	4																		3403.2171	5
2		29375.022	4	38013.250-		8538.233	5	5.5-	5.5	5.5-	5.5			.375	1.145	1.514	369			3403.2762		
		29374.338	4																		3403.3554	5
		29373.669	4																		3403.4330	5
		29373.184	0																		3403.4892	
1		29372.709	3	9724.351-		39097.075	-15	3.0-	3.0	3.0-	3.0			.905	0.442	1.345	903			3403.5442		
		29372.475	4																		3403.5713	5
1		29371.971	5	6313.866-		35585.835	2	4.0-	5.0	4.0-	5.0	.503	1.120	.617	0.487	1.104	617	-118		3403.6297		
1		29371.307	0	9336.801-		38758.100	8	.	.	5.0-	5.0				0.801	1.530	729	-288		3403.7067	INTQ	
2		29370.747	6	10436.770-		39207.520	-3	.	.	4.5-	4.5	.713	.713		0.724	0.725	1			3403.7716		
		29370.362	4																		3403.8185	5
2		29370.123	0	19863.335-		49233.475	-17	.	.	2.5-	3.5				0.921	0.980*	59			3403.8439		
		29359.784	4																		3403.8832	5
		29359.412	4																		3403.9263	5
		29359.023	2																		3403.9714	
		29358.678	4																		3404.0091	5
		29358.272	2																		3404.0584	
		29358.097	4																		3404.0891	5
		29357.553	4																		3404.1418	5
		29357.239	4																		3404.1782	5
1		29366.829	1	11840.715-		41207.555	-11	.	.	3.0-	2.0				0.811	0.925	114			3404.2257		
		29366.127	2																		3404.3071	DJO
		29365.377	1																		3404.3940	
		29364.968	4																		3404.4414	5
		29364.453	1																		3404.5000	HVLQ
2		29364.109	6	36642.955-		7278.862	16	3.5-	4.5	3.5-	4.5	1.346	1.535	.189	1.356	1.545	189	-52		3404.5410		
		29363.574	1																		3404.6031	
		29362.599	1																		3404.7266	
2		29352.093	4	15778.634-		45140.685	42	.	.	1.5-	2.5				1.133	0.850	283			3404.7748	5	
		29361.647	2																		3404.8265	
		29361.046	1																		3404.8962	
		29360.827	0																		3404.9216	
		29360.609	0																		3404.9469	
		29359.950	4																		3405.0233	5
		29359.610	4																		3405.0628	5
		29359.251	0																		3405.1044	
1		29358.723	2	35503.238-		6144.515	0	.	.	3.0-	3.0				1.135	1.473	338			3405.1656		
		29358.532	1																		3405.1878	
		29358.059	3																		3405.2427	
		29357.235	3																		3405.3382	
		29356.997	4																		3405.3659	5
		29356.159	2																		3405.4631	
2		29354.636	2	17532.937-		46887.595	-22	.	.	3.5-	3.5				1.238	0.930	308			3405.6398		
		29353.493	4																		3405.7724	5
		29353.153	1																		3405.8118	
		29351.535	1																		3405.9996	
		29351.258	2																		3406.0317	
1		29349.942	4	35494.450-		6144.515	7	4.0-	3.0	4.0-	3.0	1.10	1.48	.38	1.098	1.473	375	-21		3406.1844		
		29349.239	1																		3406.2660	
		29348.747	1																		3406.3231	
		29348.262	1																		3406.3794	
2		29347.485	3	14295.565-		43643.060	-10	.	.	3.5-	3.5				0.790	0.990*	200			3406.4696		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29346.147	1																			
	29344.673	3																			
2	29342.569	5	34844.620-		5502.050	9	1.5-	1.5	1.5-	1.5	1.533	1.174	.359	1.528	1.169	359		-28			
	29341.918	2																			
	29341.021	1																			
2	29340.562	4	36838.925-		7478.364	1	3.5-	2.5	3.5-	2.5			.255	1.225	1.321	96		-208*			
	29340.051	1																			
	29339.872	1																			
	29337.429	6																			
	29337.054	1																			
2	29334.956	4	17242.750-		46577.625	81	.	.	2.5-	3.5				1.200	0.750*	450				5	
2	29334.285	6	36613.145-		7278.862	2	4.5-	4.5	4.5-	4.5	1.006	1.550	.544	1.010	1.545*	535				5	
	29332.595	2																			
	29332.273	2																			
	29329.831	1																			
1	29329.502	2	10486.922-		39316.410	14*	.	.	1.0-	2.0				0.355	1.190*	835					
1	29327.360	4	33627.017-		4299.659	2	2.0-	2.0	2.0-	2.0	1.317	1.490	.173	1.304	1.482	178	32	20		IS*	
	29325.758	0																			
	29323.803	0																			
2	29323.112	0	16362.000-		45685.090	22	.	.	4.5-	4.5				1.050	0.955*	95					
2	29322.326	4	32558.100-		3235.770	-4	0.5-	0.5	0.5-	0.5	1.39	.295	1.10	1.370	0.299*	1071		78			
2	29321.831	1	39510.275-		10128.453	19	.	.	0.5-	0.5				0.290	2.402*	2112					
2	29321.510	1	40047.795-		10726.322	37	.	.	3.5-	4.5				1.100	1.391*	291					
	29320.670	3																			
	29320.376	3																			
	29320.031	3																			
	29319.290	0																			
2	29318.896	4	37957.130-		8638.233	-1	4.5-	5.5	4.5-	5.5	1.160	1.520	.36	1.160	1.514	354					
2	29318.207	1	41325.730-		12007.503	-20	.	.	0.5-	1.5				0.560-	0.019*	579					
	29317.129	1																			
	29316.033	2																			
2	29315.763	0	15178.115-		44493.850	28	.	.	0.5-	1.5				-0.085	1.110*	1195					
2	29314.668	2	36593.540-		7278.852	-10	.	.	5.5-	4.5				1.145	1.545	400		-78*			
	29314.448	2																			
	29314.039	1																			
	29309.716	2																			
1	29309.386	3	35453.905-		6144.515	-4	4.0-	3.0	4.0-	3.0	1.115	1.452	.337	1.130	1.473	343					
	29308.180	2																			
1	29306.247	4	38485.490-		9179.262	19*	4.0-	5.0	4.0-	5.0	1.145	1.454	.309	1.145	1.454	309					
	29305.994	4																			
1	29305.263	3	9386.801-		32692.075	-11	5.0-	5.0	5.0-	5.0	.80	1.17	.37	0.801	1.170*	369				5	
	29304.892	1																			
	29304.475	0																			
	29304.144	0																			
	29302.208	1																			
	29301.696	1																			
2	29300.682	0	19317.370-		48618.050	2	.	.	4.5-	3.5				1.225	0.920*	305					
1	29299.614	4	6313.856-		35613.490	-10	4.0-	5.0	4.0-	5.0	.51	1.09	.586	0.487	1.090*	603					
1	29299.315	7	29299.312-		0.000	3	1.0-	0.0	1.0-	0.0	1.324	.000		1.307	0.000	0	-31	-55		IS*	
	29298.629	3																			
2	29296.267	2	43287.195-		13990.952	24	.	.	1.5-	1.5				1.205	1.728	523					
	29295.479	0																			
	29295.058	2																			
	29294.515	0																			
2	29294.162	1	17296.905-		46591.055	12	.	.	4.5-	3.5				0.494	1.100	606					

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29293.076	0																			
	29292.501	1																			
2	29289.224	5	38997.205-		9707.980	-1	5.5-	6.5	5.5-	6.5	1.073	1.485	.412	1.073	1.485	412	187	187	3412.7970		
	29288.710	4																		3412.8640	
2	29287.769	2	38530.110-		9242.356	15	.	.	2.5-	3.5	.	.	.	1.245	1.369	124			3413.2458	5	
	29286.219	5																		3413.3058	
	29285.916	4																		3413.4154	5
	29285.457	0																		3413.5961	5
1	29284.738	2	33584.384-		4299.659	13	3.0-	2.0	3.0-	2.0	.	.	.44	1.058	1.482	424		28	3413.6314		
	29284.275	1																		3413.6837	
	29282.293	1																		3413.7687	
2	29280.734	0	17296.905-		46577.625	14	.	.	4.5-	3.5	.	.	.	0.494	0.750*	256			3413.8227		
	29280.340	2					4.0-	4.0												3414.0538	
	29279.900	2																		3414.2356	
2	29279.354	1	38521.710-		9242.356	0	.	.	4.5-	3.5	.	.	.	1.145	1.369	224			3414.2815		
	29277.106	4																		3414.3328	
2	29276.636	0	17296.905-		46573.500	41	.	.	4.5-	5.5	.	.	.	0.494	1.025	531			3414.3965	5	
1	29276.407	1	37051.050-		7774.653	10	.	.	5.0-	4.0	.	.	.	1.192	1.463	271			3414.6587		
	29275.985	2																		3414.7135	
1	29275.306	3	33575.046-		4299.659	-1	.	.	3.0-	2.0	.	.	.	1.056	1.482	426		12	3414.7402		
	29274.010	2																		3414.7894	
2	29273.635	2	14295.565-		43569.180	20	.	.	3.5-	3.5	.	.	.	0.790	1.005	215			3414.8593		
	29273.400	1																		3415.0198	
	29267.705	3											1.19							3415.0636	
1	29266.170	3H	9386.801-		38652.990	-19	.	.	5.0-	4.0	.	.	.	0.801	1.090*	289			3415.0910	DJ1 SI	
	29265.529	3																		3415.7555	SO
2	29264.964	5	38507.290-		9242.356	30	3.5-	3.5	3.5-	3.5	1.29	1.37	.08	1.270	1.369	99	0	7*	3415.9347	IS* DJ0	
2	29263.583	1	13309.910-		43073.510	-17	.	.	4.5-	4.5	.	.	.	0.657	0.950*	293		-145*	3416.0095		
2	29263.223	5	13013.685-		42276.825	23	5.5-	4.5	5.5-	4.5	.940	1.125	.185	0.950	1.120*	170			3416.0754		
2	29260.727	0	14561.607-		43822.335	-1	.	.	1.5-	2.5	.	.	.	1.149	0.950*	199		-270*	3416.2367		
	29260.485	1																		3416.2787	
2	29259.606	0	29259.700-		0.000	-14	.	.	1.5-	0.5	.	.	.	1.250	3.150	1900		-27	3416.5701		
2	29259.443	2	8709.640-		37969.065	18	3.5-	2.5	3.5-	2.5	.	.	.	0.308	0.832	524		-310	3416.5984		
2	29258.402	2	39984.710-		10726.322	14	5.5-	4.5	5.5-	4.5	.	.	.	1.085	1.391	306		88*	3416.6917		
2	29258.074	2	15235.771-		44493.850	-5	.	.	0.5-	1.5	.	.	.	1.791	1.110*	681			3416.7200	SO	
2	29258.074	2	44746.615-		15488.530	-11	.	.	4.5-	3.5	.	.	.	1.095	1.057	38			3416.8799	C2	
	29257.584	1																		3416.8799	C2
	29256.275	1																		3416.9605	
	29255.897	2																		3417.0900	
	29252.220	1																		3417.1342	
	29251.658	1																		3417.5637	
	29251.060	1																		3417.6294	
2	29250.878	4	43943.935-		14693.090	33	.	.	1.5-	0.5	.	.	.	1.095	0.840	255			3417.6993		
2	29250.408	2	38492.760-		9242.356	4	.	.	3.5-	3.5	.	.	.	1.095	1.369	274			3417.7205	5	
1	29249.872	6	6313.866-		35563.728	10	4.0-	3.0	4.0-	3.0	.505	1.222	.717	0.487	1.204	717	-406	-407	3417.7754		
2	29248.642	0	43681.995-		14433.351	-2	.	.	1.5-	1.5	.	.	.	1.065	1.925	860			3417.8381		
2	29248.203	1	46411.669-		17163.470	-16	.	.	3.5-	4.5	.	.	.	1.080	1.200*	120			3417.9818		
	29247.839	1																		3418.0331	
	29247.027	4																		3418.0698	
1	29244.350	3	6313.866-		35558.235	11	.	.	4.0-	4.0	.	.	.	0.487	0.990	503		-217	3418.1706	5	
	29242.575	1																		3418.4800	
	29242.242	4																		3418.6910	
	29241.846	1																		3418.7299	5
	29241.540	1																		3418.7762	
2	29240.979	9	31255.945-		2014.966	0	1.5-	1.5	1.5-	1.5	.931	1.891	.960	0.921	1.881	960	0	-10	3418.8120	IS*	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	29236.300	3	11840.715	-	41077.010	5	.	.	3.0-	3.0	.	.	.293	0.811	1.100	289	-292	-292	3419.4248	
	29235.306	0					.	.			.	.							3419.5410	
	29234.823	1					.	.			.	.							3419.5975	
	29234.119	2					.	.			.	.							3419.6799	
	29232.895	1					.	.			.	.							3419.8229	
1	29230.491	2	9724.351	-	38954.840	2	.	.	3.0-	2.0	.	.		0.442	1.020*	578			3420.1043	
	29230.215	4					.	.			.	.							3420.1366	5
2	29229.811	2	14221.716	-	43451.520	7	.	.	0.5-	1.5	.	.		-0.108	1.190*	1298			3420.1839	
	29229.073	2					.	.			.	.							3420.2702	
	29228.475	2					.	.			.	.							3420.3402	
	29227.522	4					.	.			.	.							3420.4517	5
	29226.835	1					.	.			.	.							3420.5322	
	29225.828	2					.	.			.	.							3420.6500	
	29225.613	2					.	.			.	.							3420.6752	
	29224.308	1					.	.			.	.							3420.8279	
	29223.932	0					.	.			.	.							3420.8719	
	29223.292	1					.	.			.	.							3420.9469	
1	29222.994	2	36997.640	-	7774.653	7	.	.	4.0-	4.0	.	.		1.256	1.463	207			3420.9818	
	29221.360	4					.	.			.	.							3421.1731	5
1	29220.971	5	9386.801	-	38607.775	-3	5.0-	4.0	5.0-	4.0	.795	1.10	.315	0.801	1.105	304	-272		3421.2186	
	29220.114	2					.	.			.	.							3421.3189	
2	29219.778	7	33189.610	-	3969.846	14	2.5-	2.5	2.5-	2.5	1.127	1.674	.547	1.121	1.670	549	-41	-64	3421.3583	
	29218.922	1					.	.			.	.							3421.4585	
2	29217.618	4	47735.510	-	18517.872	-20	.	.	1.5-	0.5	.	.		1.095	2.755	1660			3421.6112	5
2	29217.387	1	37855.640	-	8638.233	-20	.	.	6.5-	5.5	.	.		1.090	1.514*	424			3421.6383	
	29217.101	1					.	.			.	.							3421.6718	
2	29216.242	4	31231.210	-	2014.966	-2	0.5-	1.5	0.5-	1.5	.88	1.87	.99	0.860	1.881*	1021		8*	3421.7724	
	29215.272	1					.	.			.	.							3421.8860	
	29214.738	0					.	.			.	.							3421.9485	
	29214.050	1					.	.			.	.							3422.0291	
	29213.324	0					.	.			.	.							3422.1142	
	29213.018	5					.	.			.	.							3422.1500	5
1	29212.533	5	9386.801	-	38599.385	-1	5.0-	6.0	5.0-	6.0	.80	1.04	.238	0.801	1.039	238	-224		3422.2010	
1	29208.182	4	33507.825	-	4299.659	16	.	.	2.0-	2.0	.	.		1.109	1.482	373		-35	3422.7166	
2	29207.960	6	34925.920	-	5717.976	16	.	.	2.5-	3.5	.	.		1.115	1.596	481	28	28*	3422.7427	IS*
2	29207.351	6	38915.335	-	5707.930	-4	5.5-	6.5	5.5-	6.5	1.11	1.48	.37	1.120	1.485*	365			3422.8140	
2	29207.121	1	39933.405	-	10726.322	38	.	.	3.5-	4.5	.	.		1.045	1.391	346			3422.8410	
	29206.379	2					.	.			.	.							3422.9279	
	29205.532	3					.	.			.	.							3423.0272	
	29204.585	0					.	.			.	.							3423.1382	
	29200.395	1					.	.			.	.							3423.6294	
	29198.135	1					.	.			.	.							3423.8944	
	29197.686	1					.	.			.	.							3423.9471	
	29197.342	5H					.	.			.	.							3423.9874	DJ1SI
	29195.578	1					.	.			.	.							3424.1943	
	29195.322	0					.	.			.	.							3424.2243	
	29195.122	4					.	.			.	.							3424.2478	5
2	29194.603	7	37832.845	-	8638.233	-9	4.5-	5.5	4.5-	5.5	1.250	1.514	.264	1.250	1.514	264	-71	-87	3424.3087	
	29194.160	1					.	.			.	.							3424.3606	
	29193.763	1					.	.			.	.							3424.4072	
2	29191.468	7	36470.320	-	7273.862	10	3.5-	4.5	3.5-	4.5	1.184	1.557	.373	1.172	1.545	373			3424.6764	
	29190.859	4					.	.			.	.							3424.7479	5
	29190.508	0					.	.			.	.							3424.7891	
1	29190.138	5	36964.778	-	7774.653	13	4.0-	4.0	4.0-	4.0	.	.	.354	1.110	1.463	353	0		3424.8325	IS*
2	29189.359	2	16362.000	-	45551.330	29	.	.	4.5-	5.5	.	.		1.050	1.060*	10			3424.9239	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
								J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS			
	29185.676	1																		3425.2387	
	29186.017	4																		3425.3161	5
	29185.776	3																		3425.3444	
	29185.473	4																		3425.3875	5
2	29184.802	7	34902.775-	5717.976	3	3.5-	3.5	3.5-	3.5	1.158	1.588	.430	1.155	1.596	441	168	172		3425.4587		
	29183.711	4																		3425.5867	5
2	29182.319	7	31197.285-	2014.966	0	0.5-	1.5	0.5-	1.5	.794	1.894	1.10	0.776	1.881	1105			-14*	3425.7501		
	29181.943	1																		3425.7943	
	29180.789	2																		3425.9298	
	29179.340	1																		3426.0999	
	29178.724	4																		3426.1722	5
	29178.262	1																		3426.2265	
	29178.040	1																		3426.2526	
2	29177.494	7	34895.470-	5717.976	0	3.5-	3.5	3.5-	3.5	1.179	1.608	.429	1.165	1.596	431	192	198		3426.3167		
	29177.138	5																		3426.3585	5
	29176.800	3																		3426.3982	
	29176.207	4																		3426.4678	
	29175.017	2																		3426.6076	
2	29174.650	3	16593.963-	45768.610	3	.	.	2.5-	2.5				0.983	0.755	228				3426.6507	C2	
2	29174.650	3	14295.565-	43470.195	20	.	.	3.5-	3.5				0.790	0.860	70				3426.6507	C2	
	29173.361	1																		3426.8021	
1	29172.322	3	8768.139-	37940.455	6	2.0-	3.0	2.0-	3.0	.375	1.185	.81	0.362	1.170*	808	-239	-239		3426.9241		
	29171.383	1																		3427.0345	
2	29170.940	1	16593.963-	45764.910	-7	.	.	2.5-	1.5				0.983	0.660*	323				3427.0865		
	29170.398	4																		3427.1502	5
	29168.720	1																		3427.3473	
2	29168.505	1	36666.870-	7498.354	-1	.	.	2.5-	2.5				1.157	1.321	164				3427.3726		
	29167.359	1						1.5-	2.5			1.00								3427.5073	
2	29166.946	1	14476.135-	43643.060	21	.	.	4.5-	3.5				1.060	0.990*	70				3427.5558		
	29166.628	1																		3427.5932	
2	29165.961	4	34668.015-	5502.060	6	.	.	2.5-	1.5	1.180	1.180		1.175	1.169	6			68*	3427.6716		
	29165.370	2																		3427.7410	
2	29164.810	1	36663.170-	7498.364	4	.	.	1.5-	2.5				1.635	1.321	314				3427.8068		
	29161.419	1																		3428.2055	
	29161.211	2																		3428.2299	
	29160.863	4																		3428.2708	5
2	29160.282	3	39836.605-	10726.322	-1	5.5-	4.5	5.5-	4.5	1.22	1.39	.17	1.228	1.391	163			31*	3428.3391		
2	29160.115	3	17733.707-	46893.745	79	.	.	0.5-	1.5				-0.510	0.670*	1180				3428.3588	CQ	
	29158.577	0																		3428.5396	
	29157.178	0																		3428.7041	
	29156.170	3																		3428.8227	
	29155.200	1																		3428.9367	
	29154.184	1																		3429.0562	
2	29153.737	4	33123.530-	3969.846	3	2.5-	2.5	2.5-	2.5	1.30	1.69	.39	1.285	1.670	385			108*	3429.1088		
	29152.230	2																		3429.2861	
	29151.219	2																		3429.4050	
2	29150.629	2	39876.970-	10726.322	-19	.	.	4.5-	4.5				1.115	1.391	276				3429.4744		
1	29150.482	2	8768.139-	37918.620	1	2.0-	1.0	2.0-	1.0	.360	.690	.33	0.362	0.690	328				3429.4917		
	29149.238	1																		3429.6381	
	29148.562	2																		3429.9059	
	29145.532	3																		3430.0742	
2	29144.583	1	36642.955-	7498.364	-3	.	.	3.5-	2.5				1.356	1.321	35			-36	3430.1853		
	29144.375	1																		3430.2104	
	29143.860	2																		3430.2710	
	29141.702	5																		3430.5250	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	29141.458	1																		3430.5537	
	29138.048	1																		3430.9529	
	29137.359	0																		3431.0364	
	29136.192	2																		3431.1738	
	29135.844	2																		3431.2148	
	29135.334	3																		3431.2689	
2	29134.914	2	40934.150-11799.241			5	.	.	5.5-	5.5	.	.	.	1.165	1.373	208			3431.3243		
	29134.023	0																		3431.4292	
	29132.652	1																		3431.5907	
	29132.337	3																-296		3431.6278	
	29131.819	3																		3431.6889	
	29130.428	1																		3431.8530	
	29129.983	1																		3431.9052	
	29129.044	1																		3432.0158	
2	29128.729	4	34630.775- 5502.060			14	.	.	1.5-	1.5	1.19	1.19	.	1.198	1.169	29		110*	3432.0529		
	29128.355	0																		3432.0970	
	29126.591	0																		3432.3048	
1	29126.079	4H	12351.522-41477.600			1	6.0-	7.0	6.0-	7.0	.995	1.085	.090	0.995	1.085	90			-141	3432.3652	
	29125.491	0																		3432.4345	
2	29124.400	4	12992.644-42117.035			9	2.5-	2.5	2.5-	2.5	.	.	.194	0.643	0.835	192			-72*	3432.5631	
	29123.687	3																		3432.6471	
	29120.627	2					5.5-	5.5												3433.0078	DJO JQ
	29118.416	4					3.5-	2.5			1.190	1.445	.255							3433.2685	2515q
	29118.241	1																		3433.2891	
	29117.744	2																		3433.3477	
	29116.945	2																		3433.4419	
	29115.734	1																		3433.5348	
	29115.432	1																		3433.6204	
	29115.062	2																		3433.6640	
	29114.858	2																		3433.6881	
1	29113.972	3	36888.610- 7774.653			15	4.0-	4.0	4.0-	4.0	.	.	.368	1.094	1.463	369			-10*	3433.7926	
	29113.345	2									.900	.900								3433.8665	
	29112.835	0																		3433.9266	
2	29112.168	1	43805.265-14693.090			-7	.	.	1.5-	0.5	.	.	.	1.090	0.840	250				3434.0054	
	29110.962	0																		3434.1476	
	29109.021	1																		3434.3766	
1	29108.768	4H	9326.801-38495.570			-1	5.0-	5.0	5.0-	5.0	.800	1.085	.285	0.801	1.085	284			-160 -183	3434.4065	DJO
	29108.341	1																		3434.4569	
	29107.243	2																		3434.5864	
	29105.831	4																		3434.7530	
1	29105.544	5	33405.200- 4299.659			3	2.0-	2.0	2.0-	2.0	1.289	1.497	.208	1.272	1.482	210			-24 -18	3434.7869	IS*
	29105.309	1																		3434.8146	
2	29105.072	1	19632.555-48737.654			-37	.	.	1.5-	2.5	.	.	.	1.010	0.970*	40				3434.8426	
2	29104.633	4	13013.685-42118.305			13	5.5-	4.5	5.5-	4.5	.95	1.04	.09	0.950	1.040	90			-261 -256	3434.8944	
	29103.701	1																		3435.0044	
	29103.225	3																		3435.0606	
	29101.993	1																		3435.2054	
	29101.564	1																		3435.2567	
1	29100.466	7	9724.351-38824.820			-3	3.0-	3.0	3.0-	3.0	.446	.836	.390	0.442	0.832	390			-190 -190	3435.3863	
	29099.808	4																		3435.4640	
1	29095.774	1	36870.455- 7774.653			-28	.	.	5.0-	4.0	.	.	.	1.125	1.463	338			52	3435.9403	
	29095.455	1																		3435.9780	
1	29095.099	2	11840.715-40935.790			26*	3.0-	4.0	3.0-	4.0	.815	1.165	.35	0.811	1.160*	349				3436.0200	
	29094.839	1																		3436.0507	
	29092.826	2									1.05	.								3436.2835	f

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
	29092.397	1																	3436.3392	
	29091.097	0																	3436.4927	
	29089.341	0																	3436.7002	
	29088.592	1																	3436.7887	
2	29087.872	1	33526.190-	7498.364	46	.	.	.	2.5-	2.5	.	.	.	1.330	1.321	9			3436.8737	
1	29087.556	1	12159.465-	41247.030	-9	.	.	.	4.0-	4.0	.	.	.	0.844	1.065	221			3436.9111	
	29086.915	2																	3436.9868	
1	29083.753	1	11840.715-	40924.450	18	.	.	.	3.0-	3.0	.	.	.	0.811	1.185	374	-195		3437.3605	
1	29083.243	4	10486.922-	39570.175	-10	1.0-	2.0	1.0-	2.0	.35	1.14	.79		0.355	1.150*	795	-282	-244*	3437.4208	
2	29082.401	3	19317.370-	48399.780	-9	.	.	.	4.5-	3.5	.	.	.	1.225	0.950	275			3437.5203	
2	29082.114	4	37720.350-	8638.233	-3	4.5-	5.5	4.5-	5.5	.	.	.30Q		1.145	1.514	369	36		3437.5542	
1	29081.198	3	33320.841-	4299.659	16	1.0-	2.0	1.0-	2.0	1.81	1.49	.32		1.810	1.482*	328	-90*		3437.6625	
2	29080.707	3	31095.675-	2014.966	-2	.	.	.	2.5-	1.5	.	.	.	1.170	1.881*	711	54		3437.7206	
	29079.920	2																	3437.8136	
	29078.930	0																	3437.9306	
	29078.261	2																	3438.0097	
1	29077.637	4	9724.351-	33801.970	18*	3.0-	4.0	3.0-	4.0	.45	1.09	.64		0.442	1.090*	648	-266	-266	3438.0835	
	29075.974	3																	3438.2802	5
1	29075.520	4	12159.465-	41234.990	-5	4.0-	4.0	4.0-	4.0	.845	1.080	.235		0.844	1.080	236	-242	-242	3438.3339	
	29074.998	0																	3438.3956	
2	29074.725	1	40873.960-	11799.241	6	.	.	.	5.5-	5.5	.	.	.	1.080	1.373	293			3438.4279	
2	29074.397	2	15778.634-	44853.015	16	.	.	.	1.5-	2.5	.	.	.	1.133	0.920*	213			3438.4667	
	29073.844	1																	3438.5321	
1	29073.461	4	29073.454-	0.000	7	1.0-	0.0	1.0-	0.0	1.367	.000			1.356	0.000	0	-35		3438.5774	
	29072.680	0																	3438.6697	
	29071.612	0																	3438.7961	
	29070.289	0																	3438.9526	
	29069.778	0																	3439.0130	
	29069.250	0																	3439.0755	
	29069.023	0																	3439.1024	
1	29068.602	3	31272.205-	2203.606	3	2.0-	1.0	2.0-	1.0	.	.	.31		1.173	1.495	322	-53		3439.1522	SO PB
	29068.395	1																	3439.1873	
	29067.968	0																	3439.2272	
	29067.518	0																	3439.2804	MVLQ
	29067.175	2																	3439.3210	
	29066.922	1																	3439.3509	
2	29066.683	1	15657.156-	44723.835	4	.	.	.	2.5-	2.5	.	.	.	1.000	0.810*	190			3439.3792	
2	29066.373	3	36345.225-	7278.852	10	.	.	.	3.5-	4.5	.	.	.	1.214	1.545	331			3439.4159	
2	29065.954	2	10436.770-	39502.705	19	.	.	.	4.5-	3.5	.	.	.	0.724	0.920*	196	-165		3439.4655	
1	29065.750	4	6313.866-	35379.603	13	4.0-	3.0	4.0-	3.0	.485	1.160	.679		0.487	1.165	678	-219	-233	3439.4896	
	29065.279	1																	3439.5454	
2	29064.822	1	15641.100-	44705.905	17	.	.	.	3.5-	3.5	.	.	.	1.040	0.950*	90			3439.5995	
	29064.274	3																	3439.6643	
	29064.007	0																	3439.6959	
2	29063.430	2	19277.180-	48340.695	-35	.	.	.	3.5-	4.5	.	.	.	0.847	1.260*	413			3439.7583	
	29062.962	1																	3439.8196	
	29061.108	3																	3440.0390	5
	29060.590	3																	3440.1004	5
	29060.210	0																	3440.1454	
	29059.313	2																	3440.2515	
	29059.150	0																	3440.2708	
	29058.946	3																	3440.2950	5
2	29058.551	3	17296.905-	46355.430	26	.	.	.	4.5-	3.5	.	.	.	0.494	0.950	456			3440.3418	5
2	29058.030	0	36560.050-	5502.050	40	.	.	.	1.5-	1.5	.	.	.	1.130	1.169	39			3440.4034	
2	29057.820	1	14295.565-	43353.370	15	.	.	.	3.5-	3.5	.	.	.	0.790	0.970*	180			3440.4283	

C	WAVELENGTH	I	T2	T1	D-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES			
						J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS					
	29057.221	1																3440.4992				
2	29056.796	0	20121.145-49177.890	51				2.5-	3.5						0.710	1.040*	330	3440.5496				
1	29056.541	1	36831.210-7774.653	-16				5.0-	4.0						1.080	1.463*	383	3440.5798	IS*			
	29056.274	5																3440.6114	5			
1	29055.768	4	6313.866-35369.610	24				4.0-	5.0	4.0-	5.0	.475	1.110	.635	0.487	1.120*	.633	-150	-179	3440.6713		
	29055.328	1																3440.7234				
2	29054.663	1	41062.170-12007.503	-4				1.5-	1.5						1.425	0.019	1444	3440.8021				
	29054.118	0																3440.8667				
	29053.685	0																3440.9180				
	29053.067	4																3440.9912	5			
	29052.616	1																3441.0446				
	29051.839	1																3441.1307				
	29051.381	3																3441.1909	5			
	29050.946	0																3441.2424				
	29050.553	0																3441.2771				
2	29049.694	2	15641.100-44690.770	24				3.5-	4.5						1.040	0.000*	0	3441.3907				
	29049.110	3																3441.4599	5			
1	29048.800	3	9724.351-38773.125	26				3.0-	2.0	3.0-	2.0	.43	1.02	.596	0.442	1.038	596	-219	-230	3441.4966		
2	29046.717	4	36545.045-7498.364	36				2.5-	2.5	2.5-	2.5			.114	1.330	1.321	9		96	3441.7434		
	29046.285	0																3441.7946				
	29045.763	3																3441.8565	5			
	29045.391	1																3441.9006				
1	29045.062	0	8768.139-37813.200	1				2.0-	2.0						0.362	0.955	593		-236	3441.9396		
2	29044.715	0	17532.937-46577.625	27				3.5-	3.5						1.238	0.750*	488			3441.9807		
	29044.122	3																3442.0438	5			
	29043.950	1																3442.0713				
	29043.755	3																3442.0945	5			
	29043.340	0																3442.1436				
2	29042.570	3	36540.920-7498.364	14				3.5-	2.5						1.200	1.321*	121		-11*	3442.2349		
	29041.965	2																3442.3066				
2	29040.573	0	12048.548-41039.060	61				1.5-	2.5						-0.054	0.935	989		-254	3442.4716		
2	29040.265	5	29040.265-0.000	20				1.5-	0.5	1.5-	0.5	1.457	3.162	1705	1.447	3.150	1703		20	3442.5081		
2	29039.878	5	34757.860-5717.976	-6				3.5-	3.5	3.5-	3.5			.382	1.202	1.596	394		46	3442.5540		
	29039.430	0																3442.6071				
	29039.033	0																3442.6542				
	29038.741	3																3442.6888	5			
	29037.427	0																3442.8446				
2	29037.116	3	12992.644-42029.735	25				2.5-	3.5						0.643	0.695	52			3442.8815		
	29036.661	4																3442.9354				
	29036.165	1																3442.9942				
1	29035.107	0	8768.139-37803.250	-4				2.0-	3.0						0.362	1.081	719		-250	3443.1197		
	29034.893	0																3443.1451				
	29034.386	1																3443.2052				
1	29033.727	4	35178.224-6144.515	18				3.0-	3.0	3.0-	3.0	1.056	1.459	.413	1.070	1.473	403		69	3443.2834		
	29033.504	4																3443.3098	5			
	29032.998	3																3443.3698	5			
2	29032.098	1	17532.937-46565.005	30				3.5-	4.5						1.238	1.040*	198			3443.4766		
	29031.515	0																3443.5457				
	29031.167	3																3443.5870	5			
2	29030.760	3	18656.277-47687.019	18				1.5-	2.5						0.000	0.000*	0			3443.6353	5	
	29030.564	3																3443.6585	5			
	29029.342	3																3443.8035	5			
	29028.740	3																3443.8749	5			
1	29028.402	4	6313.866-35342.260	8				4.0-	4.0	4.0-	4.0	.485	1.110	.625	0.487	1.110	623		-179	-178	3443.9150	5
	29027.650	3																3444.0042	5			

C	WAVENUMBER	I	T2	T1	O-C	OSS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS D6	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	HAVELENGTH	NOTES
2	29027.201	5	37665.440-	8638.233	-6	4.5-	5.5	4.5-	5.5	1.097	1.517	.420	1.105	1.514	409	-	-57*	3444.0575.	
1	29026.957	4	10486.922-	39513.870	9*	1.0-	1.0	1.0-	1.0	.355	.970	.615	0.355	0.965	610		-250	3444.0865	
	29026.525	3																3444.1376	5
	29026.106	2																3444.1874	
	29025.163	0																3444.2993	HVLQ
	29023.667	2																3444.4769	
	29022.892	0																3444.5689	
2	29021.675	6	36300.540-	7278.862	-3	4.5-	4.5	4.5-	4.5	1.135	1.530	.395	1.142	1.545	403		2	3444.7133	
	29021.483	1																3444.7361	
	29020.969	1H																3444.7971	HAZY
	29020.660	3																3444.8338	5
2	29019.995	4H	34522.010-	5502.060	45	.	.	2.5-	1.5				1.085	1.169	84			3444.9127	HAZY C2
2	29019.995	4H	8709.640-	37729.665	-30	.	.	3.5-	2.5				0.308	1.050*	742		-319	3444.9127	HAZY C2
	29019.647	3																3444.9541	5
	29019.334	3																3444.9912	5
	29018.677	3																3445.0692	5
	29018.093	0																3445.1385	
	29017.343	3																3445.2276	5
	29016.567	0																3445.3197	
	29016.188	0																3445.3647	
	29015.419	0																3445.4561	
	29014.555	3																3445.5587	5
	29014.316	1																3445.5870	
1	29013.922	1	12159.465-	41173.380	7*	.	.	4.0-	4.0				0.844	1.150	306			3445.6338	
	29013.644	0																3445.6668	
	29012.395	0																3445.8152	
	29011.859	1																3445.8789	
	29011.434	0																3445.9293	
	29011.135	0																3445.9648	
	29010.922	0																3445.9902	
2	29010.471	2	11504.095-	40514.565	1	.	.	3.5-	2.5				0.859	0.800	59		-465*	3446.0437	
	29009.596	3																3446.1477	5
	29009.264	1H																3446.1871	
1	29008.303	3	31211.905-	2203.606	4	1.0-	1.0	1.0-	1.0	1.22	1.49	.27	1.235	1.495	260		-75	3446.3013	
	29007.058	3																3446.4492	
	29005.700	3																3446.6106	5
	29005.409	0																3446.6451	
	29005.175	0																3446.6729	
	29004.231	1																3446.7851	
	29003.329	1																3446.8923	
1	29002.760	6	9386.801-	38389.560	1	5.0-	4.0	5.0-	4.0	.82	1.11	.29	0.801	1.070	269		-208 -204*	3446.9600	
	29002.351	3																3447.0086	5
2	29000.526	4	38708.515-	9707.980	-9	5.5-	6.5	5.5-	6.5	1.035	1.485	.450	1.035	1.485	450			3447.2255	
	29000.139	0																3447.2716	
	28999.367	4																3447.3633	5
	28998.833	1																3447.4268	
	28998.355	1																3447.4835	
	28996.998	3																3447.6449	5
	28995.974	2																3447.7667	
	28995.235	1																3447.8546	
	28994.349	1H																3447.9599	HAZY
2	28993.914	2	11504.095-	40498.010	-1	.	.	3.5-	4.5	.86	.86		0.859	0.860*	1		-400 -403	3448.0116	ISQ
1	28993.116	2	8768.139-	37761.260	-5	.	.	2.0-	3.0				0.362	1.110*	748			3448.1066	
	28992.673	0																3448.1592	
	28991.966	1																3448.2433	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	28991.681	3																	3448.2772	5
	28991.253	2																	3448.3281	
	28990.899	3																	3448.3702	5
	28989.929	0																	3448.4856	
2	28988.907	2	43681.995-	14693.090	2	. - .		1.5-	0.5					1.065	0.840	225		3448.6072		
2	28988.716	2	38231.070-	9242.356	2	. - .		3.5-	3.5					1.130	1.369*	239		3448.6299		
	28987.654	3																	3448.7563	5
	28986.660	1																	3448.8746	
	28986.073	3																	3448.9444	
	28985.596	0																	3449.0012	
2	28985.040	8	31000.010-	2014.966	-4	1.5-	1.5	1.5-	1.5	1.669	1.890	.221		1.669	1.881	212	45 64	3449.0673	IS*	
	28984.392	3																	3449.1444	5
	28982.912	1																	3449.3206	
2	28982.331	3	13809.910-	42792.230	11	4.5-	3.5	4.5-	3.5			.250		0.657	0.900	243		3449.3897		
2	28980.615	4	34422.680-	5502.060	-5	2.5-	1.5	2.5-	1.5	1.300	1.162	.138		1.307	1.169	138		3449.5940		
	28980.061	0																	3449.6599	
	28978.999	3																	3449.7863	5
	28978.693	3																	3449.8228	5
	28978.459	1																	3449.8506	
	28978.245	0																	3449.8761	
	28977.771	2																	3449.9325	
2	28977.095	0	39703.385-	10726.322	32	. - .		5.5-	4.5					1.090	1.391	301		3450.0130		
	28975.974	0																	3450.1465	
	28975.650	3																	3450.1839	5
	28975.350	5																	3450.2208	
	28974.919	1																	3450.2721	
	28974.530	4																	3450.3184	
	28973.995	0																	3450.3822	
	28973.637	5																	3450.4248	
	28973.314	3																	3450.4633	5
	28972.668	3																	3450.5402	
	28972.283	1																	3450.5860	
2	28971.953	3	36470.320-	7498.364	7	. - .		3.5-	2.5					1.172	1.321	149		3450.6242		
1	28971.118	2	35115.625-	6144.515	8	. - .		4.0-	3.0					1.110	1.473	363	-26	3450.7248		
	28970.620	2																	3450.7841	
	28970.167	0																	3450.8381	
	28969.649	0																	3450.8998	
	28969.212	3																	3450.9519	
	28968.875	3																	3450.9920	5
2	28968.301	3	34470.355-	5502.060	6	0.5-	1.5	0.5-	1.5	.49	1.18	.69		0.480	1.169*	689	80*	3451.0604		
	28967.910	3																	3451.1070	5
	28967.370	1																	3451.1713	
	28965.911	3																	3451.3451	5
	28964.107	0																	3451.5601	
2	28963.695	1	18720.075-	47683.770	0	. - .		3.5-	3.5					1.060	1.090*	30		3451.6092		
	28962.710	4H								1.01	1.01								3451.7266	HAZY
	28962.012	1																	3451.8098	
	28961.713	0																	3451.8448	
	28961.483	3																	3451.8728	5
	28961.093	3																	3451.9193	
	28960.554	0																	3451.9836	
	28960.268	2																	3452.0177	
	28959.761	1																	3452.0781	
1	28958.445	5	35102.955-	6144.515	5	3.0-	3.0	3.0-	3.0	1.40	1.48	.08		1.390	1.473*	83	-92	3452.2350		
	28958.093	3																	3452.2769	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	22957.015	2																			
	28956.382	4																		3452.4055	
2	22955.895	3	15178.115-44134.025		-15	.	.	0.5-	0.5	.	.	.	-0.085	1.620	1705				3452.4809		
	28955.635	3																	3452.5390		
	28955.017	3																	3452.5699		
	28954.285	0																	3452.6437	5	
	28953.813	3																	3452.7310		
1	28952.759	6	9386.801-38339.550		10*	5.0-	4.0	5.0-	4.0	.795	1.06	.26	0.801	1.070*	269	-200	-196	3452.7873	5		
	28952.203	3																	3452.9130		
2	28951.557	6	37589.795- 8638.233		-5	5.5-	5.5	5.5-	5.5	.	.	.400	1.120	1.514*	394	0			3452.9793	5	
	28951.329	4																	3453.0563	IS*	
	28951.111	3																	3453.0835	5	
	28950.840	3																	3453.1095	5	
	28950.560	0																	3453.1419	5	
2	28950.065	0	17242.750-46192.700		55	.	.	2.5-	3.5	.	.	.	1.200	0.950*	250				3453.1753		
	28949.774	3																	3453.2415		
	28949.545	1																	3453.2690	5	
	28948.753	3																	3453.2963		
1	28948.265	7	31151.870- 2203.606		1	2.0-	1.0	2.0-	1.0	1.635	1.494	.141	1.632	1.495	137	-115	-118	3453.3908	5		
	28947.558	2																	3453.4490		
	28946.017	1																	3453.5334		
	28945.754	1																	3453.7172		
2	28945.172	1	15778.634-44723.835		-29	.	.	1.5-	2.5	.	.	.	1.133	0.810*	323				3453.7486		
	28945.079	5																	3453.8181		
2	28945.000	3	17242.750-46187.750		0	.	.	2.5-	1.5	.	.	.	1.200	0.740*	460				3453.8292	5	
	28944.475	0																	3453.8386		
	28944.122	0																	3453.9013		
	28943.418	1																	3453.9434		
	28942.260	3																	3454.0274		
1	28941.819	2	6313.866-35255.665		20	.	.	4.0-	4.0	.	.	.	0.487	1.080*	593		-253		3454.1656	5	
	28940.628	1																	3454.2182		
	28940.123	0																	3454.3604		
1	28939.240	3	6313.866-35253.102		4	4.0-	5.0	4.0-	5.0	.487	1.11	.62	0.487	1.110*	623		-273		3454.4207		
	28939.007	3																	3454.5261		
	28938.815	3																	3454.5539	5	
	28938.220	2																	3454.5768	5	
	28937.487	4																	3454.6478		
	28933.652	3																	3454.7353		
2	28933.291	8	34651.175- 5717.976		2	3.5-	3.5	3.5-	3.5	1.052	1.596	.544	1.047	1.596	549	92	93		3455.1933	5	
	28932.554	3																	3455.2471		
	28932.089	3																	3455.3244	5	
	28931.675	3																	3455.3799	5	
	28930.452	3				4.0-	4.0					.345				-280			3455.4294	5	
	28930.063	1																	3455.5755	DJO	
	28929.717	0																	3455.6213		
	28929.454	0																	3455.6633		
1	28928.618	2	9724.351-38652.990		-21	3.0-	4.0	3.0-	4.0	.	.	.62	0.442	1.090*	648				3455.6947		
	28928.027	3																	3455.7945		
	28927.575	1																	3455.8651	5	
	28927.313	1																	3455.9191		
1	28927.010	6	31130.605- 2203.606		11	1.0-	1.0	1.0-	1.0	2.342	1.496	.846	2.342	1.495	847	-22	-71		3455.9504		
1	28926.200	7	9724.351-38650.550		1	3.0-	2.0	3.0-	2.0	.433	.776	.343	0.442	0.785	343	-240	-240		3455.9866		
2	28925.764	3	37564.000- 8638.233		-3	.	.	4.5-	5.5	.	.	.	1.120	1.514*	394				3456.0834		
	28925.507	2																	3456.1355		
2	28924.901	2	16362.000-45206.880		21	.	.	4.5-	5.5	.	.	.	1.050	1.000*	50				3456.1662		
																			3456.2386		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OSS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG	IS	IS		
2	28924.171	6	36203.035-		7278.862	-2	4.5-	4.5	4.5-	4.5	.	.	.560	0.983	1.545	562	+		3456.3259	
	28923.594	3					.	.	.	.	.	.	.						3456.3948	5
	28921.747	0					.	.	.	.	.	.	.						3456.6156	
	28921.475	3					.	.	.	.	.	.	.						3456.6481	5
2	28921.159	0	19632.555-		48553.715	-1	.	.	1.5-	2.5	.	.	.	1.010	0.640*	370			3456.6858	
	28920.746	0					.	.	.	.	.	.	.						3456.7352	
	28920.111	3					.	.	.	.	.	.	.						3456.8111	5
	28919.597	2					.	.	.	.	.	.	.						3456.8725	
2	28918.675	3	32154.455-		3235.770	-10	.	.	0.5-	0.5	.	.	.	1.970	0.299*	1671			3456.9828	
	28918.412	2					.	.	.	.	.	.	.						3457.0142	
	28917.815	2					.	.	.	.	.	.	.						3457.0856	
1	28917.538	2	12159.465-		41077.010	-7	.	.	4.0-	3.0	.	.	.	0.844	1.100	256		-291	3457.1187	
	28916.749	1					.	.	.	.	.	.	.						3457.2130	
	28916.570	1					.	.	.	.	.	.	.						3457.2344	
1	28916.322	4	35060.819-		6144.515	18	2.0-	3.0	2.0-	3.0	1.125	1.470	.345	1.125	1.473	348			3457.2641	
	28915.933	2					.	.	.	.	.	.	.						3457.3046	
1	28915.012	4	31118.615-		2203.606	3	2.0-	1.0	2.0-	1.0	.865	1.495	.630	0.865	1.495	630			3457.4207	
	28914.370	0					.	.	.	.	.	.	.						3457.4975	
	28913.824	3					.	.	.	.	.	.	.						3457.5628	5
	28912.928	0					.	.	.	.	.	.	.						3457.6628	
	28912.612	0					.	.	.	.	.	.	.						3457.7077	
	28911.993	3					.	.	.	.	.	.	.						3457.7818	5
2	28911.532	1	17242.750-		46154.290	-8	.	.	2.5-	3.5	.	.	.	1.200	1.090*	110			3457.8369	
	28910.616	0					.	.	.	.	.	.	.						3457.9464	
	28910.161	1					.	.	.	.	.	.	.						3458.0009	
1	28909.720	0	14292.176-		43201.845	51	.	.	5.0-	5.0	.	.	.	0.970	1.090	120			3458.0536	
	28909.493	0					.	.	.	.	.	.	.						3458.0802	
1	28908.931	4	33088.180-		9179.262	13*	4.0-	5.0	4.0-	5.0	.	.	.223	1.230	1.454*	224		0	3458.1480	SI IS*
	28908.148	1					.	.	.	.	.	.	.						3458.2417	
1	28907.840	2	11840.715-		40748.540	15*	3.0-	3.0	3.0-	3.0	.810	1.020	.210	0.811	1.020	209			3458.2785	
	28906.370	3					.	.	.	.	.	.	.						3458.4544	5
	28906.035	1					.	.	.	.	.	.	.						3458.4885	
2	28905.552	2	16362.000-		45267.550	2	.	.	4.5-	4.5	1.03	1.03		1.050	1.045*	5			3458.5523	
	28904.895	3					.	.	.	.	.	.	.						3458.6308	
	28904.477	3					.	.	.	.	1.087	1.087							3458.6809	
	28904.074	3					.	.	.	.	.	.	.						3458.7291	
	28903.678	1					.	.	.	.	.	.	.						3458.7765	
	28903.331	2					.	.	.	.	.	.	.						3458.8180	
2	28902.998	3	22541.470-		51444.460	8	.	.	1.5-	2.5	.	.	.	0.420	0.910*	490			3458.8579	5
2	28902.499	1	17296.905-		46199.395	9	.	.	4.5-	3.5	.	.	.	0.494	0.955	461			3458.9176	
	28902.153	3					.	.	.	.	.	.	.						3458.9590	5
	28901.913	0					.	.	.	.	.	.	.						3458.9877	
	28901.677	0					.	.	.	.	.	.	.						3459.0160	
	28901.434	2					.	.	.	.	.	.	.						3459.0451	
	28900.352	3					.	.	.	.	.	.	.						3459.1746	5
	28899.035	0					.	.	.	.	.	.	.						3459.3322	
	28898.654	3					.	.	.	.	.	.	.						3459.3778	
1	28893.318	5	9386.801-		38285.120	-1	5.0-	5.0	5.0-	5.0	.80	1.15	.345	0.801	1.145	344			3459.4181	
	28897.743	3					.	.	.	.	.	.	.						3459.4869	5
	28897.153	3					.	.	.	.	.	.	.						3459.5575	
	28896.661	4					.	.	.	.	.	.	.						3459.6164	
2	28895.961	1	19317.370-		48213.315	16	.	.	4.5-	3.5	.	.	.	1.225	1.040*	185			3459.7002	
	28894.210	1					.	.	.	.	.	.	.						3459.9099	
1	28893.400	3	36668.045-		7774.653	8	3.0-	4.0	3.0-	4.0	1.058	1.463	.305	1.158	1.463	305		0	3460.0069	IS*
	28893.202	2					.	.	.	.	.	.	.						3460.0306	

C	HAVENUMBER	I	T2	-	T1	0-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OSS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	22392.899	1																	3460.0669	
	22391.924	3																	3460.1837	5
	22391.670	0																	3460.2141	
1	22391.359	3	11840.715	-	40732.070	4	3.0-	2.0	3.0-	2.0	.811	1.041	.230	0.811	1.040*	229		3460.2513		
	22391.163	2																	3460.2748	
	22390.593	0																	3460.3431	
2	22389.911	1	14561.607	-	43451.520	-2	.	.	1.5-	1.5	.	.	.	1.149	1.190*	41		3460.4248		
2	22389.653	1	20073.840	-	43353.435	8	.	.	5.5-	4.5	.	.	.	0.790	1.055*	265		3460.4557		
1	22389.421	4	8768.139	-	37657.560	0	2.0-	3.0	2.0-	3.0	.362	1.132	.770	0.362	1.132	770		3460.4835		
	22389.713	2																	3460.5683	
2	22387.311	8	22887.310	-	0.000	1	0.5-	0.5	0.5-	0.5	.172	3.151	2979	0.162	3.150	2988	23	3460.7362		
	22386.922	0																	3460.7829	
	22386.509	0																	3460.8323	
	22386.023	3																	3460.8906	5
	22385.836	3																	3460.9070	5
2	22385.643	0	16593.963	-	45479.584	22	.	.	2.5-	2.5	.	.	.	0.983	0.895	88		3460.9361		
2	22385.338	3	39611.620	-	10726.322	40	.	.	3.5-	4.5	.	.	.	1.190	1.391*	201	65*	3460.9726		
1	22384.947	4	12322.613	-	41207.555	5	.	.	2.0-	2.0	.	.	.	1.036	0.925	111		3461.0195		
	22384.449	3																	3461.0792	5
	22384.214	3																	3461.1073	5
1	22383.974	4	6313.866	-	35197.829	11	4.0-	3.0	4.0-	3.0	.	.	.60	0.487	1.080	593	-185 -224	3461.1361		
1	22383.429	2	9724.351	-	38607.775	5	.	.	3.0-	4.0	.	.	.	0.442	1.105	663		3461.2014		
2	22382.234	3	47643.785	-	18761.580	29	.	.	4.5-	5.5	.	.	.	1.100	1.296*	196		3461.3446		
1	22381.612	5	33181.270	-	4299.659	1*	.	.	1.0-	2.0	1.49	1.49		1.490	1.482*	8	-	3461.4192		
	22381.203	0																	3461.4682	
	22380.915	4																	3461.5027	5
	22380.400	0																	3461.5644	
2	22378.841	2	19277.180	-	48156.010	11	.	.	3.5-	2.5	.	.	.	0.847	0.920	73		3461.7513		
	22378.149	1																	3461.8342	
	22377.736	1																	3461.8838	
	22376.869	2																	3461.9877	
	22375.271	1																	3462.1793	
1	22374.609	6	33174.265	-	4299.659	3	2.0-	2.0	2.0-	2.0	.882	1.500	.618	0.864	1.482	618	-24 -41	3462.2587	ISQ	
	22372.245	2																	3462.5422	
2	22371.759	5	8709.640	-	37581.395	4	3.5-	3.5	3.5-	3.5	.312	.752	.440	0.308	0.748	440	-124 -120	3462.6005		
2	22371.561	5	32841.375	-	3969.846	32	1.5-	2.5	1.5-	2.5	1.214	1.650	.436	1.234	1.670	436	-99	3462.6242		
	22371.028	4																	3462.6881	
	22369.825	4																	3462.8324	
2	22367.661	2	38109.990	-	9242.356	27	.	.	3.5-	3.5	.	.	.	1.105	1.369	264	63*	3463.0920		
	22367.283	1																	3463.1374	
1	22366.310	7	9386.801	-	38253.110	1	5.0-	4.0	5.0-	4.0	.80	.92	.12	0.801	0.920*	119	-215 -218	3453.2541		
	22365.680	2																	3463.3297	
2	22364.938	5	38572.970	-	9707.980	-2	.	.	5.5-	6.5	.	.	.	1.035	1.485	450		3463.4127		
2	22363.786	6	11504.095	-	40357.875	6	3.5-	4.5	3.5-	4.5	.79	1.10	.31	0.859	1.175	316		3463.5570		
	22360.642	5																	3463.9343	DJO PB
	22360.149	0																	3463.9935	
	22359.731	3																	3464.0436	
	22358.429	3																	3464.1999	
2	22355.372	1	12992.644	-	41849.030	-14	.	.	2.5-	2.5	.	.	.	0.643	1.080	437		3464.4469		
1	22355.944	4	8768.139	-	37624.090	-7	2.0-	3.0	2.0-	3.0	.36	1.15	.79	0.362	1.150*	788	-211 -211	3464.4983		
	22353.583	2																	3464.7818	
	22351.887	1																	3464.9854	
	22351.435	5																	3465.0397	5
2	22350.931	9	32820.775	-	3969.846	2	2.5-	2.5	2.5-	2.5	1.313	1.668	.354	1.315	1.670	355	-50 -81	3465.1002	IS*	
	22350.262	3																	3465.1806	5

C	WAVENUMBER	I	T2	-	T1	O-C	GSS J2	GSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	23549.755	2																			
2	22843.523	1	39574.860-10726.322		-10	.	.	5.5-	4.5	.	.	.	.	1.070	1.391*	321			3465.2415	
1	23347.395	2	12159.465-41006.850		10*	.	.	4.0-	4.0	.	.	.	.	0.844	1.210	366			3465.3889	
1	23346.309	1	10486.922-39333.250		-19	.	.	1.0-	2.0	.	.	.	.	0.355	0.995	640			3465.5250	
	22245.689	1																	3465.6555		
	22344.089	3																	3465.7300		
	22843.823	2																	3465.9222	5	
1	23842.916	6	31046.528- 2203.606		-6	.	.	2.0-	1.0	1.489	1.489			1.480	1.495*	15		-66	3465.9542		
	22842.354	2																	3466.0632		
	22340.423	3								1.49	1.49								3466.1307		
2	22839.867	2	40639.100-11799.241		8	.	.	4.5-	5.5					1.310	1.373	63			3466.3628		
	22338.765	3																	3466.4296		
	22837.269	1																	3466.5621		
2	22836.847	4	13192.903-42029.735		15	2.5-	3.5	2.5-	3.5	.375	.685	.310		0.372	0.695	323			3466.7419		
	22836.169	1																	3466.7927		
	22833.427	4B																	3466.8742		
2	22832.526	2	47594.160-18761.580		6	.	.	5.5-	5.5					1.090	1.296	206			3467.2039		
	22830.376	4																	3467.3050		
1	22829.922	2	12159.465-40989.380		7	.	.	4.0-	4.0					0.844	1.000	156			3467.5708		
	22829.381	0																	3467.6254		
1	22828.945	3	36603.601- 7774.653		-3	4.0-	4.0	4.0-	4.0				.33	1.134	1.463	329	+	-4	3467.6905		
	22828.532	2																	3467.7429		
	22828.353	2																	3467.7926		
2	22828.066	5	36326.420- 7498.364		10	2.5-	2.5	2.5-	2.5	1.098	1.320	.222		1.099	1.321	222	0	16*	3467.8141		
2	22826.961	1	14295.565-43122.525		1	.	.	3.5-	2.5					0.790	0.000*	0			3467.8487	IS*	
	22825.318	3																	3467.9816		
	22822.762	2B																	3468.1793	5	
	22822.593	2B																	3468.4869		
	22822.013	4																	3468.5072		
1	22821.669	4	11840.715-40662.380		4	3.0-	3.0	3.0-	3.0			.241		0.811	1.050	239			3468.5770		
2	22820.714	6	33120.375- 4299.659		-2	3.0-	2.0	3.0-	2.0	1.126	1.494	.368		-1.113	1.482	369	98	95	3468.6184		
1	22819.950	4	34964.470- 6144.515		-5	.	.	4.0-	3.0			.34		1.081	1.473	392	0	-2	3468.7333		
	22819.502	1																	3468.8253	IS* DJ1	
2	22818.679	2	14221.715-43040.400		-5	.	.	0.5-	1.5					-0.108	0.740*	848			3468.8792		
	22818.095	3																	3468.9783		
	22817.901	2																	3469.0486	5	
2	22817.139	8	8709.640-37526.775		4	3.5-	4.5	3.5-	4.5	.307	.590	.283		0.308	0.591	283	87	91	3469.0719		
	22816.248	3																	3469.1637		
2	22815.840	1B	39542.145-10726.322		17	.	.	4.5-	4.5					0.985	1.391	406			3469.2709	5	
	22815.733	3																	3469.3201		
1	22812.368	6	9336.801-38199.170		-1	5.0-	6.0	5.0-	6.0	.796	1.063	.267		0.801	1.068	267	-251	-253	3469.3329		
	22811.289	1																	3469.7381		
2	22810.665	2	36309.025- 7498.364		4	.	.	2.5-	2.5					1.095	1.321	226			3469.8581		
	22809.133	2																	3469.9432		
1	22807.729	1	8768.139-37575.920		-52*	.	.	2.0-	2.0					0.362	1.220*	858			3470.1278		
	22806.384	3																	3470.2969		
2	22806.031	3	32041.795- 3235.770		6	1.5-	0.5	1.5-	0.5	.964	.282	.682		0.981	0.299	682		-114	3470.4589	DJO	
	22804.576	1																	3470.5015		
2	22804.014	3	34522.010- 5717.976		-20	.	.	2.5-	3.5					1.085	1.596	511			3470.6768		
2	22802.375	6	22302.375- 0.000		0	0.5-	0.5	0.5-	0.5	.801	3.151	2350		0.800	3.150	2350			3470.7445		
2	22801.854	2	37440.110- 8638.233		-23	.	.	4.5-	5.5					1.125	1.514	339			3470.9420		
	22800.329	3																	3471.0068		
1	22799.621	6	9326.801-38126.420		2	5.0-	5.0	5.0-	5.0	.782	.933	.151		0.801	0.952	151	-208	-208	3471.1836	5	
	22799.211	3																	3471.2739		
1	22798.829	4	10486.922-39235.760		-9*	1.0-	2.0	1.0-	2.0	.355	1.020	.665		0.355	1.020	665	-257	-254	3471.3233	5	
																			3471.3694		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
2	23798.100	3	34300.160	-	5502.060	0	.	.	2.5-	1.5	.	.	.	1.370	1.169*	201	.	.	3471.4573	
	23794.745	3					.	.			.	.	.						3471.8618	
	23793.739	2					.	.			.	.	.						3471.9831	
	28792.661	1					.	.			.	.	.						3472.1131	
1	23792.232	3	30995.841-	-	2203.605	-3	2.0-	1.0	2.0-	1.0	1.44	1.44	.	1.470	1.495*	25		-79	3472.1648	
1	23788.185	3	12159.465-	-	40947.640	10	4.0-	5.0	4.0-	5.0	.844	1.145	.301	0.844	1.145	301	-216	-216	3472.6529	
	28787.335	1					.	.			.	.	.						3472.7555	
	28787.098	1					.	.			.	.	.						3472.7840	
	28786.339	1					.	.			.	.	.						3472.8756	
	28785.610	1					.	.			.	.	.						3472.9636	
	23785.246	1					.	.			.	.	.						3473.0075	
	28784.946	3					.	.			.	.	.						3473.0437	5
2	28783.215	2	14295.565-	-	43078.770	10	.	.	3.5-	2.5	.	.	.	0.790	0.840*	50			3473.2526	
	23782.450	2					.	.			.	.	.						3473.3449	
2	28781.805	1	17532.937-	-	46314.760	2	.	.	3.5-	3.5	.	.	.	1.238	1.055	183			3473.4203	
	28781.468	4					.	.			.	.	.						3473.4634	5
	28781.276	3					.	.			.	.	.						3473.4866	
	28780.988	3					.	.			.	.	.						3473.5213	5
2	28779.965	9	30794.930-	-	2014.956	1	1.5-	1.5	1.5-	1.5	1.086	1.880	.794	1.084	1.881	797		-7	3473.6448	
	28779.307	4					.	.			.	.	.						3473.7242	5
	28778.187	3					.	.			.	.	.						3473.8594	
2	28777.949	4	14295.565-	-	43073.510	4	.	.	3.5-	4.5	.	.	.	0.790	0.950*	160		-169*	3473.8881	
	28777.334	2					.	.			.	.	.						3473.9624	
	28776.935	2					.	.			.	.	.						3474.0105	
	28776.540	3					.	.			.	.	.						3474.0582	
1	28776.330	3	12159.465-	-	40935.790	5*	.	.	4.0-	4.0	.	.	.	0.844	1.160*	316			3474.0836	C2
1	23776.330	3	33075.985-	-	4299.659	4	.	.	3.0-	2.0	.	.	.	1.050	1.482*	432			3474.0836	C2
	28774.937	1					.	.			.	.	.						3474.2457	
	28773.931	3					.	.			.	.	.						3474.3732	5
1	28770.901	1	33070.573-	-	4299.659	-13	.	.	2.0-	2.0	.	.	.	0.673	1.482	809		-177	3474.7392	
	28770.312	1					.	.			.	.	.						3474.8103	
	28769.817	3					.	.			.	.	.						3474.8701	
1	28768.958	3	8768.139-	-	37537.100	-3	2.0-	3.0	2.0-	3.0	.36	1.07	.710	0.362	1.070*	708			3474.9738	
2	28767.979	2	37406.230-	-	8638.233	-18	.	.	5.5-	5.5	.	.	.	1.125	1.514	389			3475.0921	
	28767.373	1					.	.			.	.	.						3475.1653	
	28765.816	2					.	.			.	.	.						3475.3534	
1	28764.971	3	12159.465-	-	40924.450	-14	4.0-	3.0	4.0-	3.0	.845	1.185	.340	0.844	1.185	341	-194	-194	3475.4555	ISQ
	28761.498	2					.	.			.	.	.						3475.8752	
	28760.183	1					.	.			.	.	.						3476.0341	
2	28758.200	4	36256.590-	-	7498.364	-26	3.5-	2.5	3.5-	2.5	1.115	1.320	.205	1.115	1.321	206			3476.2738	
	28757.630	1					.	.			.	.	.						3476.3427	
	28757.191	2					.	.			.	.	.						3476.3958	
	28756.833	1					.	.			.	.	.						3476.4330	
1	28755.372	7	6313.866-	-	35070.230	8	4.0-	5.0	4.0-	5.0	.496	.878	.382	0.487	0.869	382	-128	-134	3476.4948	
2	28754.455	6	36033.315-	-	7278.862	2	.	.	4.5-	4.5	.	.	.402	1.134	1.545	411	+	18	3476.7266	DJO
	28752.343	3					.	.			1.16	.	.						3476.9820	
	23750.989	1					.	.			.	.	.						3477.1457	
	23750.691	3					.	.			.	.	.						3477.1818	5
1	28750.457	1	10486.922-	-	39237.380	-1	.	.	1.0-	2.0	.	.	.	0.355	1.210*	855			3477.2101	
	28749.672	1					.	.			.	.	.						3477.3050	
1	28748.168	5	33047.830-	-	4299.659	-3	1.0-	2.0	1.0-	2.0	1.217	1.492	.275	1.207	1.482	275	33	35	3477.4869	
1	28747.911	3	9724.351-	-	38472.240	22*	.	.	3.0-	3.0	.	.	.	0.442	1.050*	608			3477.5180	
	28747.112	1					.	.			.	.	.						3477.6147	
2	28746.809	1	19466.530-	-	48213.315	24	.	.	4.5-	3.5	.	.	.	1.151	1.040*	111			3477.6513	
	28746.307	2					.	.			.	.	.						3477.7121	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	28744.668	6	34239.139-	6144.515	-6	3.0-	3.0	3.0-	3.0	.989	1.475	.486	0.990	1.473	483	-78	-72	3477.9104	
	28742.793	2																3478.1367	
	28742.463	3																3478.1772	
	28742.221	1																3478.2065	
	28741.634	1																3478.2775	
	28741.407	1																3478.3050	
2	28741.139	3	18152.580-46893.745		-26			0.5-	1.5				-0.510	0.670*	1180			3478.3374	5
1	28740.699	6	6313.266-35054.565		0	4.0-	3.0	4.0-	3.0	.503	1.014	.511	0.487	0.998	511	-204	-203	3478.3907	
2	28740.053	1	15578.500-44318.570		-17			6.5-	5.5				0.000	1.035*	0			3478.4689	
	28739.705	3																3478.5110	
1	28738.929	6	28738.983-	0.000	1	1.0-	0.0	1.0-	0.0	1.896	.000		1.892	0.000	0	-26	-46	3478.5977	
	28737.443	0																3478.7848	
	28736.191	1																3478.9364	
2	28735.689	4	37373.930-	8638.233	-8	4.5-	5.5	4.5-	5.5	1.194	1.537	.343	1.175	1.514	339			3478.9971	
	28735.425	3																3479.0291	5
2	28734.048	4	34452.020-	5717.976	4	3.5-	3.5	3.5-	3.5	1.214	1.596	.382	1.215	1.596	381			3479.1958	
	28732.465	4																3479.3875	5
2	28730.833	2	15641.100-44371.925		8			3.5-	3.5				1.040	0.970*	70			3479.5852	
2	28729.456	5	8709.640-37439.105		-9	3.5-	3.5	3.5-	3.5			.618	0.308	0.926	618	-293	-255*	3479.7520	IS*
1	28729.218	2	33028.868-	4299.659	9			2.0-	2.0				0.987	1.482	495		5	3479.7808	
2	28727.645	6	32435.630-	9707.980	-5			5.5-	6.5				1.150	1.485*	335	38	58*	3479.9713	IS*
1	28725.904	6	30929.516-	2203.606	-6	1.0-	1.0	1.0-	1.0	2.265	1.498		2.260	1.495	765	-24	-77	3480.1822	
	28725.489	2																3480.2325	
	28718.929	2																3481.0275	
	28717.862	4																3481.1568	5
	28716.647	1																3481.3041	
2	28715.963	4	28715.965-	0.000	-2	1.5-	0.5	1.5-	0.5			2.29	0.875	3.150	2275		103	3481.3871	
	28715.537	3																3481.4326	
2	28715.212	1	15778.634-44493.850		-4			1.5-	1.5				1.133	1.110*	23			3481.4781	
2	28712.948	3	17296.905-46009.840		13			4.5-	4.5				0.494	1.050	556			3481.7526	5
2	28712.491	6	30727.440-	2014.966	17	1.5-	1.5	1.5-	1.5	1.209	1.884	.675	1.208	1.881	673	24	34	3481.8081	IS*
	28711.359	2																3481.9453	
	28709.977	0																3482.1129	
1	28709.404	1	8768.139-	37477.540	3			2.0-	3.0				0.362	1.120	758			3482.1824	
	28708.815	3																3482.2539	5
	28708.587	3																3482.2815	5
1	28707.711	5	9386.801-	38094.515	-3	5.0-	6.0	5.0-	6.0	.802	1.095	.293	0.801	1.095	294	-221	-221	3482.3878	
	28707.281	1																3482.4400	
2	28706.921	5	12048.548-	40755.465	4	1.5-	2.5	1.5-	2.5	-0.02	.825	.845	-0.054	0.800	854			3482.4836	
	28704.335	0																3482.7913	
2	28703.916	4	40503.160-	11759.241	-3	5.5-	5.5	5.5-	5.5			.26	1.110	1.373*	263			3482.8482	
2	28703.034	1	11504.095-	40207.135	-6			3.5-	2.5				0.859	1.020*	161			3482.9553	
2	28700.993	9	32670.835-	3969.846	4	2.5-	2.5	2.5-	2.5	1.363	1.668	.305	1.361	1.670	309	-44	-56	3483.2030	IS*
	28693.267	3																3483.5338	5
1	28695.562	5	10486.922-	39182.490	-6	1.0-	2.0	1.0-	2.0	.36	1.00	.64	0.355	0.990*	635	-274	-274	3483.8622	
2	28695.365	1	39421.670-	10726.322	17			4.5-	4.5				1.100	1.391	291			3483.8861	
	28694.564	4																3483.9834	
	28694.062	2																3484.0443	
2	28693.632	2	20044.005-	48737.664	23			1.5-	2.5				0.820	0.970*	150			3484.0905	
	28693.412	2																3484.1233	
	28692.584	2																3484.2238	
2	28692.245	4	38880.705-	10188.463	3	0.5-	0.5	0.5-	0.5	1.05	2.41	1.36	1.050	2.402*	1352	+		3484.2650	ISQ
	28691.960	3																3484.2996	5
2	28691.530	3	34193.640-	5502.960	0	1.5-	1.5	1.5-	1.5	.975	1.175	.20	0.970	1.169*	199			3484.3457	
1	28690.472	5	28690.482-	0.000	-10	1.0-	0.0	1.0-	0.0	1.197	.000		1.195	0.000	0	25	19	3484.4803	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	G2	G1		D6	G2	G1	D6	IS	IS			
1	28683.968	5	32988.621-		4299.659	6	3.0-	2.0	3.0-	2.0	1.162	1.470	.308	1.173	1.482	309	11	-16	3484.6630	ISQ
	28683.623	3																	3484.7043	5
	23623.295	1																	3484.7447	
1	28685.467	5	32985.135-		4299.659	-9	2.0-	2.0	2.0-	2.0			.725	0.757	1.482	725	-44	-50	3485.0883	IS*
2	23684.853	3	19466.530-		48151.405	-12			4.5-	3.5				1.151	1.010	141			3485.1617	5
1	28684.604	4	34229.137-		6144.515	-18	3.0-	3.0	3.0-	3.0			.345	1.125	1.473	348	-79	-102	3485.1931	
	22682.371	1																	3485.4645	
2	23681.207	3	31916.975-		3235.770	2	1.5-	0.5	1.5-	0.5	1.37	.30	107	1.363	0.299	1064		42*	3485.6059	
1	28679.582	3	6313.866-		34993.452	-4	4.0-	4.0	4.0-	4.0	.488	1.214	.726	0.487	1.213	726	-195	-193	3485.8034	
	28678.605	1																	3485.9222	
	28676.586	1																	3486.1676	
	28676.053	1																	3486.2318	
	28675.120	1																	3486.3459	
	28673.485	2																	3486.5447	
	28669.648	3																	3487.0113	
	28667.905	2																	3487.2233	
	28666.402	3																	3487.4062	
1	28665.216	5	9724.351-		38389.560	7	3.0-	4.0	3.0-	4.0	.440	1.068	.628	0.442	1.070	628	-197	-200*	3487.5505	
	28664.793	0																	3487.6019	
	28663.568	3																	3487.7510	
	28663.113	3																	3487.8063	
1	28662.753	4	6313.866-		34976.640	-21	4.0-	3.0	4.0-	3.0	.49	1.16	.67	0.487	1.160*	673	-313	-313	3487.8502	
	28662.029	3																	3487.9383	5
2	23661.785	3	37904.140-		9242.356	1			3.5-	3.5				1.275	1.369	94		-23*	3487.9680	
	28661.541	1																	3487.9976	
	28660.749	3																	3488.0940	
	28659.163	4																	3488.2871	
	28657.876	2																	3488.4437	
	28655.990	5																	3488.6733	
1	28655.279	5	34799.810-		6144.515	-16	4.0-	3.0	4.0-	3.0	1.38	1.38		1.145	1.473	328	-114		3438.7599	2LNS ISQ
1	28655.279	5	32954.929-		4299.659	9	3.0-	2.0	3.0-	2.0	1.15	1.48	.33	1.105	1.482	377	31	-52	3488.7599	2LNS ISQ
1	23653.076	3	6313.866-		34966.946	-4			4.0-	4.0				0.487	1.025	538		-291	3489.0281	
	28652.083	1																	3489.1491	
	28651.681	1																	3489.1980	
	28650.523	3																	3489.3391	5
1	23650.200	3	8768.139-		37418.345	-6	2.0-	2.0	2.0-	2.0	.362	.936	.524	0.362	0.932	570	-209	-211	3489.3784	
	28648.419	3																	3489.5953	
1	28648.153	5	9336.801-		35034.960	-1	5.0-	6.0	5.0-	6.0	.783	1.122	.339	0.801	1.140	339	-256	-256	3489.6271	
	28647.553	2																	3489.7008	
2	23644.552	2	39370.905-		10726.322	-31			5.5-	4.5				1.160	1.391*	231		8*	3490.0664	
	28644.300	3B																	3490.0971	IS*
2	23644.227	6	34362.170-		5717.976	33	4.5-	3.5	4.5-	3.5	1.03	1.03		1.198	1.596	398	0	54	3490.1060	
	28642.853	2																	3490.2735	
	28642.316	2																	3490.3339	
	28641.951	2																	3490.3834	
	28640.322	1H																	3490.5819	
	28638.351	2																	3490.8221	
	28637.755	2																	3490.8948	
2	28635.051	6	34353.025-		5717.976	2	3.5-	3.5	3.5-	3.5	1.171	1.568	.397	1.199	1.596	397	150	178	3491.2245	ISQ
	28632.939	1																	3491.4820	
	28632.230	1																	3491.5684	
1	28631.216	7	32930.874-		4299.659	1	3.0-	2.0	3.0-	2.0	1.210	1.471	.261	1.216	1.482	266	0	-40*	3491.6921	IS*
	28630.835	1																	3491.7386	
	28630.592	4																	3491.7682	
	28628.828	1																	3491.9834	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	28527.	953	1	40427.180-11799.241		14	.	.	4.5-	5.5	.	.	.	1.165	1.373	208	.	.	3492.0901		
	28527.	255	2				.	.			.	.	.							3492.1702	
2	28526.	534	2	40425.890-11799.241		-15	.	.	5.5-	5.5	.	.	.	1.130	1.373	243	.	.	3492.2510		
	28624.	615	2				.	.			.	.	.							3492.4973	
	28623.	757	1				.	.			.	.	.							3492.6020	
	28623.	591	2				.	.			.	.	.							3492.6223	
	28622.	601	2				.	.			.	.	.							3492.7431	
	28622.	228	2				.	.			.	.	.							3492.7836	
2	28621.	355	2	17532.937-46154.290		2	.	.	3.5-	3.5	.	.	.	1.238	1.090*	148	.	.	3492.8951		
	28620.	846	2				.	.			.	.	.							3492.9573	
	28620.	298	2				.	.			.	.	.							3493.0241	
1	28619.	564	6	32919.605- 4299.659		18	1.0-	2.0	1.0-	2.0	1.49	1.49	.	1.490	1.482*	8	+		3493.0649		
	28617.	777	3				.	.			.	.	.					-255		3493.3319	ISQ
	28617.	540	1				.	.			.	.	.							3493.3608	
	28617.	257	3				.	.			.	.	.							3493.3953	
1	28615.	202	4	9724.351-38339.550		3*	3.0-	4.0	3.0-	4.0	.475	1.08	.60	0.442	1.070*	628	-187	-192	3493.6462		
	28614.	351	1				.	.			.	.	.							3493.7501	
	28613.	635	1				.	.			.	.	.							3493.8314	
	28613.	108	1				.	.			.	.	.							3493.9019	
2	28612.	361	3	12992.644-41605.005		0	.	.	2.5-	2.5	.	.	.	0.643	0.935	292	.		-138	3493.9931	
	28611.	424	3				.	.			.	.	.							3494.1076	
	28607.	868	3				.	.			.	.	.							3494.5419	
1	28606.	452	5	6313.866-34920.315		3	4.0-	3.0	4.0-	3.0	.495	.952	.457	0.487	0.930	443	-245	-243	3494.7149		
	28604.	462	1				.	.			.	.	.							3494.9580	
	28603.	216	3				.	.			.	.	.							3495.1103	
	28602.	139	2				.	.			.	.	.							3495.2419	
1	28601.	877	4	9386.801-37928.690		-2	5.0-	6.0	5.0-	6.0	.79	1.08	.29	0.801	1.090*	289	-231	-231	3495.2739		
2	28601.	395	1	40400.610-11799.241		26	.	.	6.5-	5.5	.	.	.	1.180	1.373*	193	.			3495.3328	
	28601.	202	3				.	.			.	.	.							3495.3564	5
	28600.	878	0				.	.			.	.	.							3495.3960	
	28600.	171	2				.	.			.	.	.							3495.4824	
	28598.	223	1				.	.			.	.	.							3495.7199	
1	28597.	513	4	36372.210- 7774.653		-44*	4.0-	4.0	4.0-	4.0	.	.	.377	1.082	1.463	381	+		-6	3495.8073	
	28596.	137	1				.	.			.	.	.							3495.9755	
	28595.	656	1				.	.			.	.	.							3496.0343	
	28595.	462	0				.	.			.	.	.							3496.0580	
	28595.	045	3				.	.			.	.	.							3496.1090	5
	28593.	752	3				.	.			.	.	.							3496.2671	5
	28593.	360	2				.	.			.	.	.							3496.3150	
	28593.	115	3				.	.			.	.	.							3496.3450	
	28593.	083	6				.	.			.	.	.							3496.3483	5
	28592.	791	3				.	.			.	.	.							3496.3846	
1	28592.	617	7	6313.866-34906.470		13	4.0-	5.0	4.0-	5.0	.490	.928	.438	0.487	0.925	438	-158	-173	3496.4059		
	28592.	177	3				.	.			.	.	.							3496.4597	5
	28591.	798	0				.	.			.	.	.							3496.5061	
	28591.	573	0				.	.			.	.	.							3496.5336	
	28591.	341	3				.	.			.	.	.							3496.5619	5
2	28591.	031	0	13809.910-42400.935		6	.	.	4.5-	4.5	.	.	.	0.657	1.000*	343	.			3496.5999	
	28587.	181	2				.	.			.	.	.							3497.0708	
2	28586.	634	3	34083.695- 5502.060		-1	.	.	2.5-	1.5	.	.	.	1.340	1.169	171	+		-25*	3497.1377	
2	28585.	862	7	32555.795- 3969.846		3	1.5-	2.5	1.5-	2.5	1.260	1.661	.401	1.269	1.670	401	-20	-52*	3497.2321	PB ISQ	
2	28585.	123	5	35863.985- 7278.862		0	.	.	4.5-	4.5	.	.	.	1.210	1.545*	335	-		-28*	3497.3226	
1	28584.	580	4	8763.139-37352.720		-1	.	.	2.0-	3.0	.	.	.	0.362	1.130*	768	-268	-268	3497.3890		
2	28582.	925	6	35861.855- 7278.862		-8	3.5-	4.5	3.5-	4.5	1.16	1.55	.39	1.155	1.545	390	+		27	3497.5842	
	28582.	665	3				.	.			.	.	.							3497.6233	5

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	28582.187	2	34300.160-		5717.976	3	.	.	2.5-	3.5	.	.	.	1.370	1.596*	226	.	.	3497.6818	
	28581.953	1					.	.			.	.	.				.	.	3497.7098	
	28581.655	1					.	.			.	.	.				.	.	3497.7469	
	28531.279	0					.	.			.	.	.				.	.	3497.7929	
	28579.648	0					.	.			.	.	.				.	.	3497.9926	
1	28578.481	3	34723.000-		6144.515	-4	2.0-	3.0	2.0-	3.0	.	.	.187	1.280	1.473*	193		-37*	3498.1354	
2	28577.899	3	10436.770-		39014.650	9	.	.	4.5-	5.5	.	.	.	0.724	1.070*	346		-198	3498.2066	
	28576.811	1					.	.			.	.	.				.	.	3498.3398	
1	28576.250	2	9724.351-		38300.595	6	.	.	3.0-	2.0	.	.	.	0.442	1.150	708			3498.4085	
2	28575.782	2	34077.830-		5502.060	12	.	.	1.5-	1.5	.	.	.	1.650	1.169	481		-76*	3498.4658	
	28575.053	1					.	.			.	.	.				.	.	3498.5551	
1	28574.337	7	6313.866-		31888.198	5	4.0-	5.0	4.0-	5.0	.487	1.070	.583	0.487	1.070	583	-185	-188	3498.6427	
	28573.895	2					.	.			.	.	.				.	.	3498.6969	
	28573.668	3					.	.			.	.	.				.	.	3498.7247	
2	28573.139	2	37211.420-		8638.233	-48	.	.	6.5-	5.5	.	.	.	1.069	1.514	445		35	3498.7894	5
	28572.867	3					.	.			.	.	.				.	.	3498.8227	
	28572.652	2					.	.			.	.	.				.	.	3498.8491	
2	28568.555	4	38276.535-		9707.980	0	5.5-	6.5	5.5-	6.5	.	.	.	1.200	1.485*	285	+	2	3499.3508	
	28568.297	2					.	.			.	.	.				.	.	3499.3825	
1	28566.594	6	30770.199-		2203.605	1	2.0-	1.0	2.0-	1.0	1.222	1.504	.282	1.216	1.495	279	-50	-70	3499.5911	
	28566.264	2					.	.			.	.	.				.	.	3499.6315	
2	28564.782	2	37807.135-		9242.355	3	.	.	3.5-	3.5	.	.	.	1.090	1.369*	279		-74*	3499.8131	
1	28564.442	3	34708.947-		6144.515	10	4.0-	3.0	4.0-	3.0	1.045	1.47	.42	1.043	1.473	430	+	28*	3499.8547	
	28563.290	4					.	.			.	.	.				.	.	3499.9959	HAZY
	28562.824	0					.	.			.	.	.				.	.	3500.0530	
	28559.402	1					.	.			.	.	.				.	.	3500.4724	
	28555.743	2					.	.			.	.	.				.	.	3500.9209	
	28555.001	2					.	.			.	.	.				.	.	3501.0119	
2	28554.393	4	38262.375-		9707.980	-2	6.5-	6.5	6.5-	6.5	.	.	.43	1.060	1.485*	425			3501.0865	
1	28554.106	3	12177.963-		40732.070	-1	1.0-	2.0	1.0-	2.0	.525	1.055	.530	0.525	1.040*	515			3501.1216	
2	28553.051	3	35831.915-		7278.862	-2	.	.	4.5-	4.5	.	.	.	1.170	1.545*	375			3501.2510	
	28552.327	1					.	.			.	.	.				.	.	3501.3398	
	28551.423	2					.	.			.	.	.				.	.	3501.4507	
2	28551.333	2	32521.160-		3969.846	19*	.	.	2.5-	2.5	.	.	.	1.020	1.670	650			3501.4617	
	28548.741	3					.	.			.	.	.				.	.	3501.7796	5
1	28548.422	4	34692.946-		6144.515	-9	.	.	3.0-	3.0	.	.	.	1.191	1.473	282		-51	3501.8187	
	28548.197	4					.	.			.	.	.				.	.	3501.8463	
	28547.431	1					.	.			.	.	.				.	.	3501.9342	
2	28547.022	3	30562.000-		2014.966	-12	.	.	0.5-	1.5	.	.	.	2.689	1.881	808		59	3501.9905	
2	28546.649	1	34048.700-		5502.060	9	.	.	0.5-	1.5	.	.	.	0.400	1.169*	769			3502.0362	
	28546.265	1					.	.			.	.	.				.	.	3502.0834	
	28543.745	1					.	.			.	.	.				.	.	3502.3925	
2	28542.849	2	31778.615-		3235.770	4	.	.	0.5-	0.5	.	.	.	2.897	0.299	2598			3502.5025	
	28542.459	1					.	.			.	.	.				.	.	3502.5504	
	28541.287	4					.	.			.	.	.				.	.	3502.6942	
	28540.285	3					.	.			.	.	.				.	.	3502.8170	
	28539.370	1					.	.			.	.	.				.	.	3502.9295	
1	28538.532	4	6313.865-		34852.445	3	4.0-	3.0	4.0-	3.0	.489	1.230	.741	0.487	1.230	743	-284	-283	3503.0262	
	28538.752	1					.	.			.	.	.				.	.	3503.2459	
	28535.794	2					.	.			.	.	.				.	.	3503.3685	
1	28533.252	1	37712.550-		9179.262	4	.	.	5.0-	5.0	.	.	.	1.164	1.454	290		-62*	3503.6757	
	28530.319	2					.	.			.	.	.				.	.	3503.9794	
2	28530.398	5	38233.390-		9707.980	-12	.	.	5.5-	6.5	.	.	.39	1.095	1.485	390			3504.0311	
1	28528.763	2	9724.351-		38253.110	9	.	.	3.0-	4.0	.	.	.	0.442	0.920*	478		-214	3504.2313	
2	28528.059	2	36026.425-		7498.364	-2	2.5-	2.5	2.5-	2.5	1.32	1.32	.	1.344	1.321	23			3504.3184	JQ

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	G2	G1											OG	G2	G1	DG	IS	IS
	28527.085	2																		
	28526.561	2									1.03	1.03							3504.4380	
2	28524.230	6	38712.675-10183.463		18	0.5-	0.5	0.5-	0.5		1.316	2.405	1.08						3504.5024	
	28523.706	2																	3504.7888	
	28523.689	4																	3504.8532	
	28521.386	2																	3504.8553	5
	28518.157	2																	3505.1383	
	28517.083	4																	3505.5352	
	28516.075	2																	3505.6672	5
2	28514.375	3	34232.360- 5717.976		-9	.	.	3.5-	3.5										3505.7910	
	28512.518	1W																	3506.0001	
1	28511.485	5	34656.014- 6144.515		-14	3.0-	3.0	3.0-	3.0		1.11	1.47	.37						3506.2285	HAZY
	28510.899	3																	3506.3555	
	28510.521	3																	3506.4276	
	28509.762	3						4.0-	4.0										3506.4741	
	28507.532	2																	3506.5674	
	28507.077	2																	3506.8417	
1	28506.441	5	34650.965- 6144.515		-9	2.0-	3.0	2.0-	3.0		1.25	1.47	.22						3506.8977	
1	28502.919	4	12159.465-40662.380		4	4.0-	3.0	4.0-	3.0		.84	1.05	.208						3506.9760	
	28500.371	2																	3507.4093	
2	28498.501	5	40297.730-11799.241		12	5.5-	5.5	5.5-	5.5				.310						3507.7229	
	28495.664	2																	3507.9531	
	28494.869	2																	3508.3023	
	28494.497	2																	3508.4002	
2	28493.193	3	19317.370-47810.565		-2	.	.	4.5-	3.5										3508.4460	
	28491.301	2																	3508.6066	
1	28491.008	5	6313.866-34804.860		14	4.0-	4.0	4.0-	4.0		.472	.926	.454						3508.8396	
	28489.518	4																	3508.8757	
	28487.374	0																	3509.0592	
	28485.236	2																	3509.3233	
	28484.788	2																	3509.5867	
1	28484.086	4	34628.584- 6144.515		17	4.0-	3.0	4.0-	3.0				.31						3509.6419	
	28482.552	2																	3509.7284	
	28482.056	3																	3509.9174	
	28480.855	5						3.5-	4.5										3509.9786	DJ0 2J0G
1	28480.612	5	9724.351-38204.990		-27	3.0-	3.0	3.0-	3.0		.460	1.105	.645						3510.1266	J2535Q
2	28478.785	1	14561.607-43040.400		-8	.	.	1.5-	1.5										3510.1565	
	28478.293	1																	3510.3817	
	28477.989	3																	3510.4424	
1	28477.496	3	9336.801-37864.295		2	5.0-	4.0	5.0-	4.0		.80	1.11	.31						3510.4798	5
	28475.636	2																	3510.5406	
2	28475.291	2	17242.750-45718.025		16	.	.	2.5-	3.5										3510.7699	
1	28475.291	2	8768.139-37243.390		40	.	.	2.0-	3.0										3510.8125	C2
	28474.351	1																	3510.8125	C2 CQ
	28474.117	0																	3510.9284	
1	28469.040	6	34613.555- 6144.515		0	3.0-	3.0	3.0-	3.0		1.12	1.46	.34						3510.9572	
	28468.518	1																	3511.5834	
2	28467.672	2	12992.644-41460.320		-4	.	.	2.5-	3.5										3511.6478	
1	28467.425	5	30671.063- 2203.605		-32	1.0-	1.0	1.0-	1.0		.76	1.50	.74						3511.7521	
	28466.714	2																	3511.7826	
2	28466.016	5	12048.548-40514.565		-1	.	.	1.5-	2.5										3511.8703	
	28464.522	2																	3511.9564	
	28460.831	2B																	3512.1333	
	28460.676	3B																	3512.5962	
	28459.700	1																	3512.6154	
																			3512.7358	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	28459.488	2	39185.820-10726.322	-10	.	.	5.5- 4.5	.	.	.	1.313	1.391	78		-16*	3512.7620	
	28458.353	2														3512.9021	
2	28457.942	3	45203.680-16745.720	-12	.	.	2.5- 2.5	.	.	.	1.150	1.671*	521			3512.9521	
	28454.662	2														3513.3578	
	28453.634	2				3.5- 4.5				.185						3513.4847	
1	28449.854	5	32749.507- 4299.659	6	2.0-	2.0	2.0- 2.0	1.159	1.474	.315	1.166	1.482	316		-18	3513.9516	
	28449.409	3														3514.0065	
	28448.293	2														3514.1444	
1	28446.024	8	28446.024-	0.000	0	1.0-	0.0	1.0- 0.0	.745	.000	0.745	0.000	0		-81	3514.4247	
	28444.670	3														3514.5920	
	28443.528	2														3514.7257	5
1	28442.235	4	30645.856- 2203.606	-15	2.0-	1.0	2.0- 1.0	1.535	1.495	.040	1.541	1.495	46		-79	3514.8929	
	28442.061	2														3514.9144	
2	28440.828	4	38629.265-10188.463	26	0.5-	0.5	0.5- 0.5	1.37	2.40	103	1.380	2.402*	1022			3515.0668	
	28439.551	3														3515.2246	SO
	28438.640	2														3515.3372	
1	28436.651	5	37615.923- 9179.262	-10	5.0-	5.0	5.0- 5.0	.	.	.359	1.095	1.454	359		-68	3515.5831	
	28436.306	5														3515.6258	
	28433.220	2														3516.0074	
	28432.120	2														3516.1434	
	28431.705	2														3516.1947	
	28430.241	4														3516.3758	
2	28429.691	3	17121.640-45551.330	1	.	.	5.5- 5.5	.	.	.	0.000	1.060*	0			3516.4438	
1	28428.921	4	32723.585- 4299.659	-5	3.0-	2.0	3.0- 2.0	.	.	.54	0.947	1.482	535		-57	3516.5391	
2	28423.310	7	32398.160- 3969.846	-4	2.5-	2.5	2.5- 2.5	.	.	.362	1.308	1.670	362		181*	3516.6146	
	28427.875	3														3516.6685	5
2	28427.595	3	42418.545-13990.952	2	.	.	1.5- 1.5	.	.	.	1.060	1.728*	668			3516.7031	
1	28427.350	5	6313.866-34741.198	-2	4.0-	5.0	4.0- 5.0	.49	1.07	.58	0.487	1.070	583	-200	-203	3516.7359	
	28426.419	1														3516.8486	
2	28425.937	4	39152.255-10726.322	4	.	.	4.5- 4.5	.	.	.	1.187	1.391	204			3516.9082	C2
1	28425.937	4	12322.613-40748.540	10*	.	.	2.0- 3.0	.	.	.	1.036	1.020	16			3516.9082	C2
	28425.690	2														3516.9388	
1	28424.005	3	9724.351-33148.375	-19	3.0-	3.0	3.0- 3.0	.	.	.249	0.442	0.690	248			3517.1473	
1	28421.449	7	6313.866-34735.314	1	4.0-	3.0	4.0- 3.0	.489	.901	.412	0.487	0.899	412	-232	-253	3517.4636	
	28420.679	2														3517.5589	
	28420.304	4														3517.6053	
	28419.918	1														3517.6531	
1	28416.059	4	9724.351-38140.400	10	3.0-	3.0	3.0- 3.0	.44	1.12	.684	0.442	1.120*	678			3518.1308	PB
2	28415.573	2	40214.805-11799.241	9	.	.	4.5- 5.5	.	.	.	1.320	1.373	53		20*	3518.1910	
	28415.062	2														3518.2543	
2	28414.642	2	20063.650-48478.270	22	.	.	4.5- 3.5	.	.	.	1.049	0.970	79			3518.3063	
	28412.571	3														3518.5627	
	28411.225	2														3518.7294	
	28410.568	2														3518.8108	
	28410.073	2														3518.8721	
2	28409.815	3	19277.180-47687.019	-24	.	.	3.5- 2.5	.	.	.	0.847	0.000*	0			3518.9041	
1	28406.245	3	6313.866-34720.110	1	4.0-	4.0	4.0- 4.0	.487	1.031	.544	0.487	1.030	543		-483	3519.3463	
	28404.952	2														3519.5065	
	28404.673	2														3519.5411	
	28404.149	5														3519.6060	5
1	28403.580	4	36178.230- 7774.653	3	4.0-	4.0	4.0- 4.0	1.078	1.463	.385	1.080	1.463*	383	-43	-43	3519.6765	
2	28402.770	2	43095.860-14693.090	0	.	.	1.5- 0.5	.	.	.	1.120	0.840*	280			3519.7769	
	28402.208	3														3519.8466	
	28401.997	2														3519.8839	
1	28401.192	5	9386.801-37787.990	3	5.0-	4.0	5.0- 4.0	.80	1.26	.46	0.801	1.260	459	-349	-357	3519.9725	

C	HAVERN	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	28400.993	2	39127.295	-	10726.322	20	.	.	5.5-	4.5	.	.	.	1.179	1.391	212		65*	3519.9971		
	28400.391	2					.	.			.	.	.							3520.0780	
	28390.896	2					.	.			.	.	.							3520.2075	
	28388.421	2					.	.			.	.	.							3520.5639	
2	28386.107	2	10436.770	-	33332.875	2	4.5-	4.5	4.5-	4.5	.	.	.268	0.724	0.995	271		-229	3520.6028		
	28391.924	2					.	.			.	.	.							3521.1141	
	28391.553	2					.	.			.	.	.							3521.1676	
2	28390.260	1	33892.325	-	5502.060	-5	.	.	0.5-	1.5	.	.	.	1.220	1.169	51			3521.3279		
	28388.680	2					.	.			.	.	.							3521.5239	
	28388.444	3					.	.			.	.	.							3521.5532	
2	28385.802	5	38094.785	-	9707.980	-3	5.5-	6.5	5.5-	6.5	1.09	1.48	.39	1.090	1.485*	395			3521.7569		
	28386.023	2					.	.			.	.	.							3521.8535	
	28385.711	3					.	.			.	.	.							3521.8923	
1	28383.393	5	34527.915	-	6144.515	-17	2.0-	3.0	2.0-	3.0	1.31	1.47	.164	1.310	1.473	163		-94*	3522.1811	5	
	28382.975	3					3.0-	4.0			.	.	.226					-293		3522.3435	JQ ISQSO
	28379.333	2					.	.			.	.	.							3522.6832	
2	28378.009	4	37016.265	-	8638.233	-23	5.5-	5.5	5.5-	5.5	1.151	1.514	.363	1.150	1.514	364			3522.8482		
	28377.406	2					.	.			.	.	.							3522.9230	
	28376.011	1					.	.			.	.	.							3523.0962	
1	28375.028	5	32674.758	-	4299.659	-11	3.0-	2.0	3.0-	2.0	1.19	1.48	.29	1.189	1.482	293	0	31	3523.2108	IS*	
	28372.926	3					.	.			.	.	.					-201		3523.4793	ISQ
2	28370.705	2	34088.695	-	5717.976	-14	.	.	2.5-	3.5	1.26	1.26		1.340	1.596	256		-45*	3523.7551	2LNSQ CQ	
	28369.981	3					.	.			.	.	.							3523.8451	
	28368.449	1					.	.			.	.	.							3524.0354	
	28367.656	2					.	.			.	.	.							3524.1326	
	28367.370	2					.	.			.	.	.							3524.1694	
1	28365.863	4	9386.801	-	37752.690	-26	5.0-	6.0	5.0-	6.0	.801	1.11	.308	0.801	1.110*	309	-215	-215	3524.3566		
2	28365.458	1	33867.535	-	5502.060	-17	.	.	1.5-	1.5	.	.	.	1.670	1.169*	501		44	3524.4070		
2	28363.522	2B	35261.855	-	7498.364	31	.	.	3.5-	2.5	.	.	.	1.155	1.321	166		43	3524.6475	239B	
1	28363.244	4	6313.866	-	34677.111	-1	4.0-	4.0	4.0-	4.0	.	.	.595	0.487	1.080	593	-231	-233	3524.6821		
	28362.208	1					.	.			.	.	.							3524.8108	
	28361.340	3					.	.			.	.	.					-280		3524.9187	ISQ
2	28359.542	2	18720.075	-	47079.610	7	.	.	3.5-	2.5	.	.	.	1.060	0.960*	100			3525.1422		
2	28359.028	2	35637.895	-	7278.862	-5	.	.	3.5-	4.5	.	.	.	1.158	1.545	387			3525.2061		
1	28357.132	3	6313.866	-	34670.995	3	4.0-	5.0	4.0-	5.0	.49	1.01	.52	0.487	1.010*	523	-193	-207	3525.4418		
2	28355.416	3	15778.634	-	44134.025	25	.	.	1.5-	0.5	.	.	.	1.133	1.620	487			3525.6552		
2	28354.686	3	32324.550	-	3969.846	-18	.	.	3.5-	2.5	.	.	.	0.975	1.670	695			3525.7459		
1	28352.685	5	34497.235	-	6144.515	-35	.	.	3.0-	3.0	.	.	.	1.070	1.473*	403		-90	3525.9948		
	28352.467	3					.	.			.	.	.							3526.0219	
1	28350.840	6	34495.354	-	6144.515	1	2.0-	3.0	2.0-	3.0	1.18	1.49	.31	1.180	1.473*	293	-77	-74	3526.2242	IS*	
	28350.494	3					.	.			.	.	.							3526.2673	
1	28347.238	6	6313.866	-	34661.105	-1	4.0-	4.0	4.0-	4.0	.478	1.091	.613	0.487	1.100	613	-138	-144	3526.6723		
	28345.058	2					.	.			.	.	.							3526.9436	
2	28343.910	1	16362.000	-	44705.905	5	.	.	4.5-	3.5	.	.	.	1.050	0.950*	100			3527.0364		
2	28343.289	5	40142.525	-	11799.241	5	.	.	6.5-	5.5	.	.	.	1.165	1.373	208		+	3527.1637		
	28342.720	2					.	.			.	.	.							3527.2345	
2	28342.451	2	11504.095	-	39846.560	-14	.	.	3.5-	4.5	.	.	.	0.859	1.021	162			3527.2680		
	28339.072	1					.	.			.	.	.							3527.6886	
2	28339.883	3	36977.120	-	8638.233	-4	.	.	5.5-	5.5	.	.	.	1.125	1.514	389		-25*	3527.7121		
	28338.881	4					.	.			.	.	.							3527.7123	5
1	28338.492	3	12159.465	-	40497.975	-18	.	.	4.0-	5.0	.	.	.205	0.844	1.060*	216		-260	3527.7608		
	28336.348	2					.	.			.	.	.							3528.0277	
	28336.184	2					.	.			.	.	.							3528.0481	
1	28334.427	4	9386.801	-	37721.235	-7	5.0-	4.0	5.0-	4.0	.805	1.179	.374	0.801	1.180	379	-304	-304	3528.2669		
1	28332.430	3	13726.661	-	42059.140	1	.	.	3.0-	4.0	.	.	.	1.150	1.060	90			3528.5094		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	28331.492	6	39057.820-10726.322	-6			4.5-	4.5	4.5-	4.5	.	.	.	1.156	1.391	235	188	188	3528.6324		
2	28330.973	1	40130.265-11759.241	-51			.	.	5.5-	5.5	.	.	.	1.150	1.373	223			3528.6971		
2	28330.773	5	39057.100-10726.322	-5			.	.	3.5-	4.5	.	.	.	1.220	1.391	171	+		3528.7220		
	28330.157	2					.	.			.	.	.						3528.7987	
2	28329.396	6	36967.635- 8638.233	-6			4.5-	5.5	4.5-	5.5	1.200	1.515	.315	1.190	1.514	324			3528.8935		
	28328.932	2					.	.			.	.	.						3528.9513	
	28328.612	3					.	.			.	.	.						3528.9912	
1	28325.539	5	36100.190- 7774.653	2			5.0-	4.0	5.0-	4.0	.	.	.24	1.223	1.463	240	0	-7	3529.3740	IS*	
2	28321.630	4	37564.000- 9242.356	-14			4.5-	3.5	4.5-	3.5	.	.	.	1.120	1.369*	249	+		3529.8612		
	28321.239	2					.	.			.	.	.						3529.9037	
	28319.644	2					.	.			.	.	.						3530.1087	
2	28319.310	1	42752.670-14433.351	-9			.	.	1.5-	1.5	.	.	.	1.200	1.925*	725			3530.1504		
	28319.093	3					.	.			.	.	.						3530.1774	5
2	28318.404	2	33820.430- 5502.060	34			.	.	1.5-	1.5	.	.	.	1.410	1.169	241			3530.2633		
	28317.133	2					.	.			.	.	.						3530.4211	
	28316.435	2					.	.			.	.	.						3530.5087	
1	28316.059	6	36090.717- 7774.653	-5			4.0-	4.0	4.0-	4.0	1.208	1.442	.234	1.227	1.463	236	37	54	3530.5557	IS*	
2	28314.982	4	40114.225-11799.241	-2			.	.	4.5-	5.5	.	.	.	1.135	1.373	238			3530.6900		
2	28313.548	2	32283.420- 3969.846	-26			.	.	2.5-	2.5	.	.	.	1.045	1.670	625		29	3530.8688		
	28312.454	3					.	.			.	.	.						3531.0052	
	28310.219	3					.	.			.	.	.						3531.2840	
1	28309.545	7	9386.801-37696.345	1			5.0-	6.0	5.0-	6.0	.801	1.066	.265	0.801	1.066	265	-158	-158	3531.3681		
	28308.352	1					.	.			.	.	.						3531.5132	
1	28307.605	3	14292.176-42599.780	1			.	.	5.0-	6.0	.	.	.	0.970	1.140*	170		-253	3531.6101		
2	28307.169	4	31542.950- 3235.770	-11			.	.	1.5-	0.5	.	.	.	1.026	0.299	727			3531.6645		
	28306.710	2					.	.			.	.	.						3531.7218	
2	28305.263	3	38013.250- 9707.980	-7			.	.	5.5-	6.5	.	.	.	1.145	1.485	340			3531.9023		
	28304.434	3					.	.			.	.	.						3532.0058	
	28303.466	3					.	.			.	.	.						3532.1266	
	28298.165	1					.	.			.	.	.						3532.7882	
	28297.127	3					.	.			.	.	.						3532.9178	
2	28295.962	8	34013.940- 5717.976	-2			3.5-	3.5	3.5-	3.5	1.119	1.590	.471	1.121	1.596	475	49	46	3533.0633		
	28295.073	3					.	.			.	.	.						3533.1743	
	28294.679	0					.	.			.	.	.						3533.2235	
2	28293.739	7	36931.980- 8638.233	-8			5.5-	5.5	5.5-	5.5	1.209	1.512	.303	1.214	1.514	300	205	199	3533.3409		
	28291.559	4					.	.			1.50	.	.					-31		3533.6132	f IS*
	28290.913	4					0.5-	0.5			.	.	.						3533.6939		
	28287.753	2					.	.			.	.	.						3534.0886	
1	28287.126	1	11840.715-40127.800	41*			.	.	3.0-	4.0	.	.	.	0.811	1.020	209			3534.1669		
1	28286.929	2	36061.589- 7774.653	-7			.	.	5.0-	4.0	.	.	.	1.167	1.463	296		5	3534.1916		
1	28286.190	4	10486.922-38773.125	-13			1.0-	2.0	1.0-	2.0	.36	1.05	.69	0.355	1.038	683	-198	-220	3534.2839		
	28285.926	3					.	.			.	.	.						3534.3169	5
	28285.348	2					.	.			.	.	.						3534.3891	
1	28284.777	1	36059.430- 7774.653	0			.	.	4.0-	4.0	.	.	.	1.090	1.463	373		10	3534.4605		
	28284.016	2					.	.			.	.	.						3534.5556	
1	28280.484	5	6313.866-34594.350	0			4.0-	3.0	4.0-	3.0	.488	1.199	.711	0.487	1.198	711		-146	3534.9970		
	28279.322	2					.	.			.	.	.						3535.1423	
	28278.844	1					.	.			.	.	.						3535.2020	
	28278.023	2					.	.			.	.	.						3535.3047	
1	28277.326	3	37456.630- 9179.262	-42			.	.	5.0-	5.0	.	.	.	1.085	1.454	369			3535.3918		
	28276.424	2					.	.			.	.	.						3535.5046	
	28276.017	2					.	.			.	.	.						3535.5555	
2	28275.232	1	12992.644-41267.915	-39			.	.	2.5-	2.5	.	.	.	0.643	0.860	217			3535.6536		
	28271.905	3					5.5-	6.5			.95	1.20	.25					-449		3535.0697	ISQ
	28270.024	4									-307		3536.3050	ISQ

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		TERM	IS	IS	WAVELENGTH	NOTES		
							J2	J1	J2	J1				G2	G1	G6	G2	G1						G6	
	28269.769	3																							
2	28269.075	3	40068.320	-	11799.241	-4			6.5-	5.5															
1	28268.263	7	28268.265-		0.000	-2	1.0-	0.0	1.0-	0.0	1.274	.000													
2	28266.286	3	20073.840	-	48340.695	31			5.5-	4.5															
1	28263.913	2	11240.715	-	40104.650	-22			3.0-	2.0															
	28261.357	3																							
	28260.343	2H																							
2	28259.979	2	28259.990-		0.000	-11			1.5-	0.5															
1	28259.022	5	30462.625-		2203.606	3	1.0-	1.0	1.0-	1.0	1.259	1.497	.238												
	28258.653	1																							
	28258.035	3																							
	28256.093	3																							
	28254.594	3																							
	28254.021	2																							
1	28252.979	1	34397.513-		6144.515	-19			3.0-	3.0															
1	28252.656	5	32552.325-		4299.659	-10	2.0-	2.0	2.0-	2.0	.955	1.455	.500												
	28252.051	1																							
	28251.601	1																							
2	28250.953	4	35749.300-		7498.364	17	2.5-	2.5	2.5-	2.5			.15												
2	28247.048	7	35525.910-		7278.862	0	4.5-	4.5	4.5-	4.5	1.176	1.543	.367												
	28244.318	2																							
1	28242.334	4	36017.000-		7774.653	-13	4.0-	4.0	4.0-	4.0			.37												
	28241.898	2																							
2	28240.550	8	32210.400-		3969.846	-4	2.5-	2.5	2.5-	2.5	1.337	1.671	.334												
	28236.541	3																							
2	28234.897	7	37942.835-		9707.980	-8	6.5-	6.5	6.5-	6.5	1.122	1.510	.388												
	28234.082	3																							
1	28233.737	7	34378.267-		6144.515	-15	4.0-	3.0	4.0-	3.0	1.258	1.452	.194												
	28232.859	1																							
	28227.872	2																							
1	28227.364	5	9326.801-		37614.165	0	5.0-	6.0	5.0-	6.0	.795	1.185	.390												
1	28226.604	5	6313.866-		34540.469	1	4.0-	3.0	4.0-	3.0	.481	.882	.401												
	28225.136	4																							
2	28219.834	3	13809.910-		42029.735	9			4.5-	3.5															
	28219.474	1																							
2	28218.979	4	33721.040-		5502.060	-1	1.5-	1.5	1.5-	1.5	1.241	1.182	.059												
1	28216.099	3	9724.351-		37940.455	-5	3.0-	3.0	3.0-	3.0			.72												
	28214.373	2																							
	28212.991	3																							
	28212.594	3																							
	28211.395	2																							
	28208.385	2B																							
2	28203.234	4B	30223.215-		2014.966	-15			2.5-	1.5															
2	28207.372	2	35845.610-		8538.233	-5			4.5-	5.5															
1	28207.372	2	11240.715-		40048.020	7*			3.0-	3.0															
	28207.263	2B																							
1	28205.393	3	6313.866-		34519.250	9			4.0-	5.0															
	28204.532	3																							
2	28201.123	3	35479.995-		7278.862	-5			3.5-	4.5															
	28198.830	3																							
2	28197.737	2	37440.110-		9242.356	-17			4.5-	3.5															
	28196.307	3																							
	28195.931	2																							
2	28195.693	1	44941.447-		16745.720	-29			3.5-	2.5															
	28194.155	3																							

C	HAVERN	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	CBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	28191.529	3																				
2	28189.021	3		33915.335-10726.322			8	.	.	5.5- 4.5		.	.	.	1.120	1.391*	271			3546.1516		
1	28187.289	3		11840.715-40028.005			-1	3.0-	2.0	3.0- 2.0		.81	.98	.17	0.811	0.930*	169			3546.4671		
2	28185.469	6		10436.770-33623.240			-1	4.5-	3.5	4.5- 3.5		.70	.66	.04	0.724	0.640*	84			3546.6850		
2	28185.205	6		32155.060-3369.846			-9	2.5-	2.5	2.5- 2.5		1.280	1.666	.386	1.284	1.670	386	149	141*	3546.7882		
2	28181.797	4		35460.660- 7278.862			-1	3.5-	4.5	3.5- 4.5		1.148	1.545	.397	1.145	1.545	400	174	174	3546.9473	SI	
	28181.336	4						.	.			.	.	.						3547.3762	
	28180.762	2						.	.			.	.	.						3547.4342	
	28180.429	2						.	.			.	.	.						3547.5065	
2	28178.297	3		30193.265- 2014.966			-2	.	.	1.5- 1.5		.	.	.	1.364	1.881	517		15	3547.5484		
	28178.064	3						.	.			.	.	.						3547.8168	
2	28176.778	3		38903.090-10726.322			10	.	.	4.5- 4.5		.	.	.	1.135	1.391	256			3547.8462		
	28175.420	1						.	.			.	.	.						3548.0081	
	28175.219	2						.	.			.	.	.						3548.1716	
	28173.069	2						.	.			.	.	.						3548.2044	
	28170.613	4						.	.			.	.	.387						3548.4752	
1	28165.614	6		6313.856-34479.473			7	4.0-	4.0	4.0- 4.0		.457	.914	.457	0.487	0.944	457	-46	-196	3548.7846	IS*5060Q	
2	28165.183	3		15657.156-43822.335			9	.	.	2.5- 2.5		.	.	.	1.000	0.950*	50		-174*	3549.4145		
2	28164.126	2		19317.370-47451.485			11	.	.	4.5- 3.5		.	.	.	1.225	1.000	225			3549.4682		
1	28163.622	1		10486.922-38650.550			-6	.	.	1.0- 2.0		.	.	.	0.355	0.785	430		-230	3549.6020		
	28163.474	3						.	.			.	.	.						3549.6655	
2	28158.936	7		33876.910- 5717.976			2	3.5-	3.5	3.5- 3.5		1.004	1.555	.551	1.043	1.596	553	155	160*	3549.6842		
1	28158.210	6		30361.813- 2203.606			3	2.0-	1.0	2.0- 1.0		1.061	1.503	.442	1.044	1.495	451	-90	-92	3550.2563		
	28157.694	3						.	.			.	.	.						3550.3478	
	28155.661	2						.	.			.	.	.						3550.4129	
1	28154.254	4		37333.515- 9179.262			1	5.0-	5.0	5.0- 5.0		1.06	1.45	.39	1.065	1.454	389	-33	-50	3550.6692	IS*	
	28151.076	3						.	.			.	.	.						3550.8467	
	28149.558	2						.	.			.	.	.						3551.2475	
2	28149.128	6		36787.360- 8638.233			1	5.5-	5.5	5.5- 5.5		1.150	1.520	.370	1.150	1.514	364	64	87	3551.4391	ISQ	
	28148.067	3						.	.			.	.	.						3551.4933	
2	28147.648	5		37855.640- 9707.980			-12	6.5-	6.5	6.5- 6.5		.	.	.392	1.090	1.485*	395	0		3551.6272		
1	28146.473	5		12351.522-40497.975			20	6.0-	5.0	6.0- 5.0		.99	1.06	.07	0.995	1.060*	65	-266	-266	3551.6800	IS*	
	28144.302	0						.	.			.	.	.						3551.8283	DJ1 SO
	28142.959	1						.	.			.	.	.						3552.1023	
	28142.675	2						.	.			.	.	.						3552.2718	
	28142.147	1						.	.			.	.	.						3552.3077	
	28141.841	1						.	.			.	.	.						3552.3743	
1	28140.428	3		11840.715-39981.145			-2	3.0-	3.0	3.0- 3.0		.80	.90	.10	0.811	0.905	94	-259	-269	3552.4129		
1	28139.913	2		9724.351-37864.295			-31	.	.	3.0- 4.0		.	.	.	0.442	1.110*	668	-183	-202	3552.5913		
2	28139.554	1		35637.895- 7498.364			23	.	.	3.5- 2.5		.	.	.	1.158	1.321	163			3552.6563		
	28138.240	0						.	.			.	.	.						3552.7017	
	28137.761	0						.	.			.	.	.						3552.8676	
	28137.328	1						.	.			.	.	.						3552.9281	
	28137.328	1						.	.			.	.	.						3552.9827	
	28137.014	1						.	.			.	.	.						3553.0224	
1	28135.450	5		9386.801-37523.250			1	5.0-	6.0	5.0- 6.0		.801	1.055	.254	0.801	1.055	254	-181	-181	3553.0936		
	28135.979	4						.	.			.	.	.						3553.1531	
	28135.090	0						.	.			.	.	.						3553.2654	
	28134.117	0						.	.			.	.	.						3553.3883	
	28133.334	0						.	.			.	.	.						3553.4872	
	28132.893	1						.	.			.	.	.						3553.5429	
2	28132.509	3		33634.550- 5502.060			19	1.5-	1.5	1.5- 1.5		.	.	.055	1.230	1.169*	61		56*	3553.5914		
1	28131.455	3		13726.661-41858.135			-19	.	.	3.0- 3.0		.	.	.	1.150	1.090	60			3553.7245		
1	28130.913	3		10436.922-38517.815			20	1.0-	1.0	1.0- 1.0		.355	1.035	.680	0.355	1.035	680	-206	-206	3553.7930		
	28130.013	2						.	.			.	.	.						3553.9067	
	28129.481	2						.	.			.	.	.						3553.9739	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	28129.309	2																3553.9956	
	28128.856	0																3554.0529	
	28128.564	0																3554.0898	
	28128.156	0																3554.1413	
	28127.296	1																3554.2500	
	28127.075	1																3554.2779	
	28125.774	4																3554.4423	DJO
1	28125.203	5	35899.859-	7774.653	-3	3.0-	4.0	3.0-	4.0	.852	1.448	.596	0.870	1.463	593	-56	-56	3554.5145	IS*
	28124.851	0																3554.5590	
	28124.609	0																3554.5896	
	28124.049	3																3554.6604	
	28123.070	1																3554.7841	
	28121.209	2																3555.0194	
	28120.942	2																3555.0531	
	28119.450	0																3555.2417	
	28119.206	1																3555.2726	
	28118.347	2																3555.3180	
2	28117.604	3	33619.660-	5502.060	4	.	.	0.5-	1.5				1.470	1.169	301		61	3555.4752	DJ1
	28116.530	0																3555.6110	
1	28116.287	4	6313.866-	34430.160	-7	4.0-	3.0	4.0-	3.0	.469	.891	.422	0.487	0.000*	0			3555.6417	
1	28116.006	5	6313.866-	34429.910	-38	4.0-	3.0	4.0-	3.0	.489	.909	.420	0.487	0.910	423	-209	-209	3555.6772	S00
	28115.615	1																3555.7266	
	28114.373	1																3555.8205	
	28114.499	1																3555.8678	
	28114.167	2																3555.9098	
	28113.179	1M																3556.0348	
	28112.539	2																3556.1158	
	28112.379	3																3556.1360	
2	28112.010	1	20044.005-	48156.010	5	.	.	1.5-	2.5				0.820	0.920	100			3556.1827	
2	28111.662	2	35390.520-	7278.862	4	.	.	5.5-	4.5				1.055	1.545	490		97*	3556.2267	
	28111.150	1																3556.2915	
2	28110.674	4	28110.650-	0.000	24	1.5-	0.5	1.5-	0.5	.901	3.171	2270	0.899	3.150	2251	57	43	3556.3517	ISQ
	28109.911	1																3556.4482	
2	28108.954	7	35607.320-	7498.364	-2	3.5-	2.5	3.5-	2.5	1.15	1.32	.17	1.150	1.321	171	37		3556.5693	ISQ
1	28108.716	2	35383.360-	7774.653	9	.	.	5.0-	4.0				1.164	1.463	299		-41	3556.5994	
	28108.561	2																3556.6191	
	28108.179	3																3556.6674	
2	28107.406	7	35326.270-	7278.862	-2	4.5-	4.5	4.5-	4.5	1.097	1.538	.441	1.100	1.545	445	64	76	3556.7652	
	28106.429	1																3556.8838	
	28106.212	2																3556.9163	
2	28105.374	3	14295.565-	42400.935	4	.	.	3.5-	4.5				0.790	1.000*	210			3557.0224	
	28103.596	0																3557.1968	
	28103.830	1																3557.2115	
1	28103.356	1	30306.965-	2203.606	-3	.	.	1.0-	1.0				0.820	1.495	675		-60	3557.2778	
	28102.934	0																3557.3312	
	28102.651	1																3557.3670	
	28102.284	0																3557.4135	
	28101.932	2																3557.4581	
	28101.531	0																3557.5088	
	28099.686	1																3557.7424	
1	28096.257	5	34240.784-	6144.515	-12	3.0-	3.0	3.0-	3.0				1.067	1.473	406		-62	3558.1766	PB
1	28095.724	6	34240.242-	6144.515	-3	2.0-	3.0	2.0-	3.0			.28	1.190	1.473*	283	+	-2*	3558.2441	SI PB
	28095.107	0																3558.3223	
2	28094.283	1	37336.640-	9242.356	4	.	.	2.5-	3.5				1.207	1.369	162			3558.4260	
2	28093.307	3	18720.075-	46813.360	22	.	.	3.5-	2.5				1.060	1.070*	10			3558.5503	

C	HAVE NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	28092.343	2	32891.565	-11799.241	19	.	.	4.5-	5.5	.	.	.	1.090	1.373	283	.	.	3558.6724	C2
2	28092.343	2	12048.548	-40140.890	1	.	.	1.5-	2.5	.	.	.	-0.054	0.720*	774	.	.	3558.6724	C2
	28091.649	2				.	.			.	.	.				.	.	3558.7603	
	28091.056	0				.	.			.	.	.				.	.	3558.8354	
	28089.674	0				.	.			.	.	.				.	.	3559.0105	
1	28088.851	4	9724.351	-37813.200	2	3.0-	2.0	3.0-	2.0	.	.	.51	0.442	0.955	513	-236	-236	3559.1148	
2	28087.366	7	39886.605	-11799.241	2	.	.	5.5-	5.5	.	.	.150	1.228	1.373	145	30	30*	3559.3030	IS* DJO
	28086.687	0				.	.			.	.	.				.	.	3559.3890	
2	28085.588	1	38811.900	-10726.322	10	.	.	3.5-	4.5	.	.	.	1.115	1.391	276	.	-144*	3559.5283	
	28084.753	1				.	.			.	.	.				.	.	3559.6342	
	28084.372	1				.	.			.	.	.				.	.	3559.6824	
2	28083.398	4	38809.725	-10726.322	-5	.	.	4.5-	4.5	.	.	.	1.110	1.391	281	.	.	3559.8059	
	28082.549	1				.	.			.	.	.				.	.	3559.9135	
	28082.133	3				.	.			.	.	.				.	.	3559.9663	
2	28080.825	3	35579.170	-7498.364	19	.	.	2.5-	2.5	.	.	.	1.190	1.321*	131	.	30*	3560.1321	
	28080.446	0				.	.			.	.	.				.	.	3560.1801	
	28079.497	1				.	.			.	.	.				.	.	3560.3005	
1	28078.899	3	9724.351	-37803.250	0	3.0-	3.0	3.0-	3.0	.470	1.11	.639	0.442	1.081	639	-250	-250	3560.3763	IS*
	28078.117	1				.	.			.	.	.				.	.	3560.4755	
2	28077.748	1	39876.970	-11799.241	19	.	.	4.5-	5.5	.	.	.	1.115	1.373	258	.	.	3560.5223	
	28076.959	0				.	.			.	.	.				.	.	3560.6223	
	28076.317	0				.	.			.	.	.				.	.	3560.7037	
	28076.037	0				.	.			.	.	.				.	.	3560.7392	
	28075.182	0				.	.			.	.	.				.	.	3560.8477	
2	28074.968	3	13192.903	-41267.915	-44	2.5-	2.5	2.5-	2.5	.37	.85	.475	0.372	0.860	488	.	.	3560.8748	DJO
	28074.844	2				.	.			.	.	.				.	.	3560.8906	
1	28073.834	2	35843.508	-7774.653	29	.	.	4.0-	4.0	.	.	.	1.080	1.463	383	.	59	3561.0123	
	28073.496	0				.	.			.	.	.				.	.	3561.0615	
	28072.957	0				.	.			.	.	.				.	.	3561.1299	
1	28072.211	5	35846.861	-7774.653	3	.	.	5.0-	4.0	.	.	.	1.151	1.463	312	-30	35	3561.2246	ISQ
2	28071.942	4	32041.795	-3969.846	-7	.	.	1.5-	2.5	.	.	.	0.981	1.670	689	.	-140	3561.2587	
	28071.762	3				.	.			.	.	.				.	.	3561.2815	
	28071.469	4				.	.			.	.	.				.	-201	3561.3187	IS*
	28070.752	1				.	.			.	.	.				.	.	3561.4097	
2	28070.324	2B	15641.100	-43711.415	9	.	.	3.5-	3.5	.	.	.	1.040	0.955*	85	.	.	3561.4640	
	28070.175	2B				.	.			.	.	.				.	.	3561.4829	
	28069.854	2				.	.			.	.	.				.	.	3561.5236	
	28069.037	1				.	.			.	.	.				.	.	3561.6273	
	28068.576	0				.	.			.	.	.				.	.	3561.6858	
	28068.106	0				.	.			.	.	.				.	.	3561.7454	
	28067.601	0				.	.			.	.	.				.	.	3561.8095	
	28067.038	0				.	.			.	.	.				.	.	3561.8809	
2	28066.857	2	33784.830	-5717.976	3	.	.	4.5-	3.5	.	.	.	1.070	1.596	526	.	.	3561.9039	
	28066.353	0				.	.			.	.	.				.	.	3561.9679	
	28065.126	0				.	.			.	.	.				.	.	3562.1160	
	28064.599	0				.	.			.	.	.				.	.	3562.1905	
	28064.127	5H				.	.			.	.	.				.	-138	3562.2504	DJ150
1	28063.607	2B	9724.351	-37787.990	-32	.	.	3.0-	4.0	.	.	.	0.442	1.260	818	.	-353	3562.3164	
	28063.498	1B				.	.			.	.	.				.	.	3562.3303	
	28061.653	1				.	.			.	.	.				.	.	3562.5645	
	28060.567	1				.	.			.	.	.				.	.	3562.7024	
	28060.289	1				.	.			.	.	.				.	.	3562.7377	
	28050.016	1				.	.			.	.	.				.	.	3562.7723	
	28059.688	1				.	.			.	.	.				.	.	3562.8140	
1	28059.449	4	32359.115	-4299.659	-7	3.0-	2.0	3.0-	2.0	1.31	1.45	.14	1.320	1.482	162	.	90	3562.8443	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS				TERM			OBS		WAVELENGTH	NOTES			
							J2	J1	J2	J1	G2	G1	DG	G2	G1			DG	IS	IS
	28059.253	1														3562.8692				
	28058.761	1														3562.9317				
	28057.493	2														3563.0927				
	28055.797	3														3563.3081				
	28055.542	1														3563.3405				
2	28054.260	5	36692.525-	8638.233	-32	5.5-	5.5	5.5-	5.5			.443	1.070	1.514	444	-22	-22*	3563.5033	IS*	
	28054.053	2																3563.5290		
	28053.367	3																3563.6158		
	28052.674	1																3563.7048		
	28052.280	2																3563.7549		
	28051.384	0																3563.8687		
	28050.720	2																3563.9531		
1	28050.167	4	8758.139-	36818.300	6	2.0-	1.0	2.0-	1.0	.362	1.081	.719	0.362	1.103*	741	-253	-248	3564.0233	ISQ	
	28049.536	0																3564.1035		
	28048.922	1																3564.1815		
2	28048.515	4H	20589.110-	48737.664	-39	.	.	3.5-	2.5				1.270	0.970*	300			3564.2332	HAZY C2	
1	28048.515	4H	6313.866-	34362.360	21	.	.	4.0-	5.0				0.487	1.120*	633		-153	3564.2332	HAZY C2	
	28047.206	3																3564.3996		
	28046.846	1																3564.4453		
	28046.189	0																3564.5289		
	28045.832	1																3564.5742		
	28045.280	3																3564.6444		
	28044.979	3																3564.6826		
	28044.476	0																3564.7466		
	28044.185	1																3564.7836		
2	28043.724	2	15778.634-	43822.335	23	.	.	1.5-	2.5				1.133	0.950*	183		-173*	3564.8422		
	28043.463	0																3564.8747		
	28043.056	1																3564.9271		
	28042.136	1																3565.0441		
	28040.915	0																3565.1993		
	28040.605	3																3565.2387		
2	28040.163	8	37748.140-	9707.980	3	6.5-	6.5	6.5-	6.5	1.134	1.484	.350	1.135	1.485	350	-15	11*	3565.2949	IS*	
2	28038.891	4	33756.860-	5717.976	7	3.5-	3.5	3.5-	3.5			.32	1.272	1.596	324		-50	3565.4567		
1	28036.903	1	9724.351-	37761.260	-6	.	.	3.0-	3.0				0.442	1.110*	668			3565.7095		
	28036.632	0																3565.7439		
2	28035.177	1	18152.580-	46127.750	7	.	.	0.5-	1.5				-0.510	0.740*	1250			3565.9290		
	28032.835	1																3566.2206		
	28032.536	1																3566.2650		
	28032.356	0																3566.2879		
2	28031.227	2	17733.709-	45764.910	26	.	.	0.5-	1.5				-0.510	0.660*	1170			3566.4315		
	28029.966	1																3566.5920		
	28028.499	2																3566.7901		
	28028.047	1																3566.8362		
2	28027.398	4	33215.850-	10188.463	11	0.5-	0.5	0.5-	0.5	.993	2.399	1406	0.996	2.402	1406	+		3566.9188		
	28026.559	0																3567.0255		
	28025.825	0																3567.1113		
	28025.359	0																3567.1745		
	28024.775	2																3567.2526		
	28024.311	0																3567.3117		
	28023.948	0																3567.3579		
1	28023.620	5	37202.870-	9179.262	12	4.0-	5.0	4.0-	5.0	1.124	1.454	.330	1.125	1.454	329	-69	-69	3567.3996		
	28022.995	5															-208		3567.4792	
	28022.463	0																3567.5469		
1	28021.564	7	30225.210-	2203.606	-40	2.0-	1.0	2.0-	1.0	1.340	1.532	.192	1.300	1.495	195	-65	-68	3567.6614	IS*	
	28021.128	1																3567.7169		

C	HAVENUMBER	I	T2	-	T1	0-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	28020.171	8	31255.945-		3235.770	-4	1.5-	0.5	1.5-	0.5	.919	.295	.624	0.921	0.299	622	0	9	3567.8388	IS*	
	28017.920	3															-244		3568.1254		
1	28015.986	3	8768.139-		36784.100	25	2.0-	3.0	2.0-	3.0	.353	1.106	.753	0.362	1.115	753	-240	-243	3568.3717		
2	28013.651	6	13013.625-		41027.335	1	5.5-	4.5	5.5-	4.5	.940	.895	.048	0.950	0.895	55	-30		3568.6692	IS*	
	28013.027	4																	3568.7487		
	28012.468	0																	3568.8199		
	28011.800	2																	3568.9050		
	28011.552	0																	3568.9366		
	28011.044	0																	3569.0013		
	28010.793	0																	3569.0333		
	28010.505	0																	3569.0700		
	28009.932	5									.89		.975						3569.1430	fdJ02JDG	
	28003.958	2																	3569.2671		
2	28008.727	2	19863.335-		47872.094	-32	.	.	2.5-	1.5				0.921	0.760*	161			3569.2966		
	22003.395	0																	3569.3389		
2	28003.042	0	40015.520-		12007.503	25	.	.	2.5-	1.5				1.070-	0.019*	1089			3569.3839		
	28007.850	0																	3569.4084		
2	28007.152	3	10436.770-		38443.925	-3	.	.	4.5-	4.5				0.724	1.020	296		-38	3569.4973		
	28006.757	3																	3569.5477		
	28006.513	0																	3569.5788		
1	28006.058	3	34150.575-		6144.515	-2	4.0-	3.0	4.0-	3.0	.986	1.480	.494	0.985	1.473	488		117	3569.6368		
1	28002.345	4	9386.801-		37339.145	1	5.0-	6.0	5.0-	6.0				0.801	1.085	284		-159	3570.1101		
	28002.097	1																	3570.1417		
	28000.752	1																	3570.3132		
1	27999.716	2	12351.522-		40351.235	3	.	.	6.0-	5.0				0.995	1.070	75			3570.4453		
	27998.817	2H																	3570.5599		
2	27997.836	3	37240.235-		9242.356	7	.	.	3.5-	3.5				1.240	1.369	129		-51*	3570.6787		
	27997.219	3																	3570.7638		
1	27996.858	3	9724.351-		37721.235	4	.	.	3.0-	4.0				0.442	1.180	738		-300	3570.8060		
1	27996.512	4	32296.170-		4299.659	1*	.	.	1.0-	2.0				0.935	1.482	547		-41	-47	3570.8539	IS*
2	27995.439	4	31231.210-		3235.770	-1	.	.	0.5-	0.5				0.860	0.299*	561		+	27*	3570.9908	IS*
1	27994.717	5	32294.378-		4299.659	-2	2.0-	2.0	2.0-	2.0			.466	1.016	1.482	466		-12	-50	3571.0829	IS*
1	27994.216	5	12351.522-		40345.740	-2*	6.0-	7.0	6.0-	7.0	.995	1.07	.08	0.995	1.065	70		-163	-165	3571.1468	
	27992.569	0																	3571.3569		
	27991.898	0																	3571.4425		
2	27991.366	1	41582.315-		13990.952	3	.	.	0.5-	1.5				1.620	1.728*	108			3571.5104		
	27991.157	3																	157	3571.5371	
	27990.575	4																	+	3571.6114	
2	27990.166	1	37232.550-		9242.356	-28	.	.	2.5-	3.5				0.985	1.369	384			3571.6635		
2	27989.819	2	12048.548-		40038.370	-3	.	.	1.5-	1.5				-0.054	0.440*	494			3571.7078		
	27988.557	2B																		3571.8689	
	27988.425	2B																		3571.8857	
	27988.037	1																		3571.9352	
	27987.185	0																		3572.0440	
2	27986.958	3	35265.810-		7278.262	10	.	.	3.5-	4.5				0.980	1.545*	565			86*	3572.0730	
1	27984.841	3	11840.715-		39825.550	6	.	.	3.0-	4.0				0.811	1.030	219		-244	-244	3572.3432	
	27984.135	0																		3572.4333	
	27982.844	0																		3572.5981	
2	27982.365	1	37224.725-		9242.356	-4	.	.	4.5-	3.5				1.145	1.369	224			3572.6593		
	27981.879	3																	-237	3572.7213	
2	27981.316	1	14295.565-		42276.835	-4	.	.	3.5-	4.5				0.790	1.120*	330			3572.7932		
	27979.611	2																		3573.0110	
	27978.928	0																		3573.0982	
	27978.445	0																		3573.1573	
	27978.259	0																		3573.1836	

C WAVELENGTH	I	T2	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
					J2	J1	J2	J1							G2	G1			DG	IS	IS
27977.914	1																3573.2277	
27977.530	0																3573.2767	
27976.704	0																3573.3822	
27976.448	1																3573.4149	
27976.146	2																3573.4535	
1 27975.950	2	10486.922-38462.875	-3				1.0- 1.0					0.355	0.765	410		-217	3573.4785	
1 27975.713	2	11840.715-39316.410	23*				3.0- 2.0					0.811	1.190*	379			3573.5082	
1 27974.843	4	37154.100- 9179.262	5		5.0- 5.0	5.0- 5.0				.339		1.120	1.454	334	-29	-32	3573.6199	
1 27974.326	5	38212.799-10238.473	0		5.0- 6.0	5.0- 6.0						1.172	1.431	.259		-77	3573.6860	SI
2 27973.898	4	37681.895- 9707.980	-17		6.5- 6.5	6.5- 6.5			1.090	1.485	.395	1.090	1.485	395		79	3573.7407	
27971.949	0																3573.9897	
27970.881	0																3574.1262	
2 27969.936	1H	20121.145-48091.025	56			2.5- 2.5						0.710	1.100*	390			3574.2469	
27968.765	0																3574.3966	
27968.137	0																3574.4768	
1 27966.961	4	35741.610- 7774.653	4		3.0- 4.0	3.0- 4.0		.97	1.47	.50		0.965	1.463	498	-		3574.6271	
27966.546	2																3574.6802	
27965.907	2																3574.7619	
1 27965.357	3	35740.015- 7774.653	-5			4.0- 4.0						1.105	1.463	358	-	-10	3574.8322	
2 27964.559	1	16362.000-44326.520	39			4.5- 4.5						1.050	0.960*	90			3574.9342	
27964.104	2									1.138							3574.9924	f
2 27962.737	4	12992.644-40955.385	-4		2.5- 3.5	2.5- 3.5		.620	.845	.225		0.643	0.850	207	-155	-158	3575.1671	JQ
2 27961.514	5	31197.285- 3235.770	-1		0.5- 0.5	0.5- 0.5		.775	.304	.471		0.776	0.299	477	+	5*	3575.3235	
1 27959.561	4	8768.139-36727.705	-5		2.0- 3.0	2.0- 3.0		.362	.904	.542		0.362	0.905	543	-188	-188	3575.5733	ISQ
1 27959.399	3	12159.465-40118.850	14*		4.0- 3.0	4.0- 3.0		.844	1.017	.173		0.844	1.020	176			3575.5940	
27958.639	0																3575.6848	
27958.459	0																3575.7142	
2 27957.476	1	17532.937-45490.434	-21			3.5- 4.5						1.238	1.065	173			3575.8399	
27957.270	1																3575.8663	
27956.785	1																3575.9283	
2 27956.577	2	16362.000-44318.570	7			4.5- 5.5						1.050	1.035*	15		-331*	3575.9549	
27955.917	0																3576.0393	
27955.521	0																3576.0900	
2 27955.314	4	35593.540- 8638.233	7		5.5- 5.5	5.5- 5.5				.369		1.145	1.514	369		-85*	3576.1165	
27955.004	0																3576.1561	
1 27953.535	1	32253.195- 4299.659	-1			3.0- 2.0						1.115	1.482	367		-20*	3576.3441	
27952.971	2																3576.4162	
27952.747	3							1.144	1.144								3576.4449	SI
2 27951.764	2	20063.650-48015.425	-11			4.5- 3.5						1.049	1.080*	31			3576.5707	
27951.588	0																3576.5932	
1 27951.196	1	14025.007-41976.230	-27			4.0- 5.0						0.975	1.120*	145			3576.6434	
27950.888	1																3576.6828	
27950.541	1																3576.7272	
27950.026	1																3576.7931	
27949.647	0																3576.8416	
27949.134	1H																3576.9072	
1 27948.629	1	34093.140- 6144.515	4			3.0- 3.0						1.053	1.473	420		-35	3576.9719	
1 27947.950	5	35722.593- 7774.653	10		3.0- 4.0	3.0- 4.0		1.136	1.480	.344		1.119	1.463	344	-14	-14	3577.0588	
2 27947.142	5	31916.975- 3959.846	13		1.5- 2.5	1.5- 2.5		1.368	1.675	.307		1.363	1.670	307	+	16*	3577.1622	
2 27946.729	5	39745.960-11799.241	10			5.5- 5.5				.19		1.185	1.373	188	+		3577.2151	DJO
27946.149	3									.899						-342	3577.2893	DJO 2J06
27944.968	3				1.0- 2.0			1.09	.35	.74						-208	3577.4405	
2 27941.600	1	15698.815-43040.400	15			1.5- 1.5						1.079	0.740*	339			3577.8717	
2 27940.869	5	33667.130-10726.322	11		4.5- 4.5	4.5- 4.5		1.092	1.391	.299		1.092	1.391	299	0	0*	3577.9653	IS*
2 27938.717	4	33440.770- 5562.060	7		2.5- 1.5	2.5- 1.5		.991	1.146	.155		1.016	1.169	153		58*	3578.2409	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OSS J1	TERM J2	TERII J1	OBS G2	OBS G1	OBS D5	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES
	27938.288	1																3578.2959	
	27937.763	0																3578.3631	
2	27937.097	4	29952.065-	2014.966	-2	.	.	1.5-	1.5	.	.	.	1.184	1.881	697	0	-4	3578.4484	IS*
2	27935.675	5H	13013.685-	40949.343	17	5.5-	6.5	5.5-	6.5	.95	1.10	.15	0.950	0.000	0	95		3578.6306	
1	27935.171	3	11840.715-	39775.870	16	.	.	3.0-	4.0	.	.	.	0.811	0.985	174		-206	3578.6951	
2	27933.749	3	35432.095-	7498.364	18	.	.	1.5-	2.5	.	.	.	1.190	1.321	131			3578.8773	
1	27933.274	2H	9724.351-	37657.560	65	.	.	3.0-	3.0	.	.	.	0.442	1.132	690			3578.9382	
	27932.791	2																3579.0001	
	27932.460	4				4.0-	3.0					.260				-301		3579.0425	JQ
	27932.209	0																3579.0747	
	27932.010	0																3579.1002	
2	27931.539	5	35210.405-	7278.862	-4	4.5-	4.5	4.5-	4.5	.	.	.568	0.977	1.545	568			3579.1605	
	27930.686	2B																3579.2698	
1	27930.612	2B	34075.030-	6144.515	47	.	.	3.0-	3.0	.	.	.	0.975	1.473	498		-61	3579.2793	
1	27930.117	1	38168.603-	10233.473	-13	.	.	5.0-	6.0	.	.	.	1.080	1.431*	351		-151	3579.3427	
	27929.319	0																3579.4450	
	27929.010	0																3579.4846	
	27928.266	1																3579.5802	
	27927.854	2H																3579.6328	
	27926.318	1																3579.8297	
1	27926.040	3	12351.522-	40277.550	12*	6.0-	5.0	6.0-	5.0	.995	1.135	.140	0.995	1.125	130			3579.8653	
	27925.401	0																3579.9472	
2	27924.656	1	19277.180-	47201.830	6	.	.	3.5-	3.5	.	.	.	0.847	0.895	48			3580.0427	
	27924.317	2																3580.0862	
	27922.384	0																3580.3340	
1	27921.925	3	9336.801-	37308.707	19	5.0-	4.0	5.0-	4.0	.802	1.042	.240	0.801	1.040	239	-226	-226	3580.3929	
	27921.522	1																3580.4446	
1	27920.742	2H	37100.000-	9179.262	4	.	.	6.0-	5.0	.	.	.	1.088	1.454	366	-	-11	3580.5446	HAZY
	27918.428	1																3580.8414	
	27917.848	0																3580.9158	
	27917.702	0																3580.9345	
	27917.132	2																3581.0076	
	27916.083	2																3581.1416	
	27915.838	2															-38	3581.1736	
	27913.855	0																3581.4280	
	27913.279	1																3581.5019	
1	27912.907	2	32212.561-	4299.659	5	2.0-	2.0	2.0-	2.0	1.400	1.482	.082	1.400	1.482*	82	0	-20	3581.5497	ISQ
	27912.652	0																3581.5824	
2	27911.326	6	33529.300-	5717.976	2	2.5-	3.5	2.5-	3.5	1.257	1.602	.345	1.242	1.596	354	-42	-79	3581.7526	IS*
	27910.485	0																3581.8605	
	27909.923	2																3581.9326	
2	27909.723	5	35183.565-	7278.862	20	3.5-	4.5	3.5-	4.5	1.159	1.546	.387	1.154	1.545	391	+	18*	3581.9583	
2	27909.367	3	48967.305-	21057.925	-13	.	.	3.5-	2.5	.	.	.	1.090	1.590	500			3582.0040	
	27909.178	0																3582.0282	
	27908.199	1																3582.1539	
	27906.526	1																3582.3686	
	27905.103	1																3582.4229	
	27905.034	1																3582.5602	
2	27904.312	4	12992.644-	40896.955	1	2.5-	1.5	2.5-	1.5	.640	.825	.185	0.643	0.800*	157	+		3582.6529	
2	27902.208	2	37144.560-	9242.356	4	.	.	3.5-	3.5	.	.	.	1.220	1.369	149			3582.9230	
	27901.162	0																3583.0574	
1	27899.773	3H	9724.351-	37324.090	34	.	.	3.0-	3.0	.	.	.	0.442	1.150*	708		-211	3583.2358	HAZY BQ
	27898.334	1																3583.4206	
2	27896.158	3	13192.903-	41039.060	1	2.5-	2.5	2.5-	2.5	.	.	.558	0.372	0.935	563	-250	-252	3583.7001	
	27894.833	1																3583.8639	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
	27894.072	0																	3583.9656			
	27893.918	0																	3583.9879			
	27892.940	1																	3584.1136			
	27891.253	0																	3584.3304			
	27890.604	3									1.19		SHL						3584.4138	f		
	27890.132	1																	3584.4744			
	27889.899	2																	3584.5044			
1	27889.638	4	12351.522-40241.170			-10	6.0-	7.0	6.0-	7.0	.995	1.175	.180	0.995	1.175	180		-280	3584.5379	DJ1		
	27889.127	1																	3584.6036			
	27888.680	2																-167	3584.6611			
2	27887.864	5	33389.920-	5502.060		4	1.5-	1.5	1.5-	1.5	.946	1.175	.229	0.943	1.169	226		-30	3584.7660			
	27887.019	3																	3584.8746			
1	27885.730	5	34030.240-	6144.515		5	2.0-	3.0	2.0-	3.0	1.306	1.476	.170	1.300	1.473	173		-20	3585.0403			
	27885.160	0																	3585.1136			
	27884.488	1																	3585.2000			
1	27884.052	4	37063.300-	9179.262		14	4.0-	5.0	4.0-	5.0	.963	1.454	.491	0.965	1.454	489	43	43	3585.2560			
	27883.560	1H																23		3585.3193	IS*	
	27883.099	0																	3585.3786			
2	27832.148	3	43370.680-	15488.530		-2	.	.	2.5-	3.5				1.265	1.057	208		-183	3585.5009			
	27881.214	2																	3585.6210			
2	27879.305	9	27879.305-	0.000		0	0.5-	0.5	0.5-	0.5	.809	3.154	2345	0.802	3.150	2348	18	45	3585.8665	IS*		
	27877.566	1																	3586.0902			
	27877.088	0																	3586.1517			
	27876.784	0																	3586.1908			
	27876.526	2																	3586.2240			
	27876.200	1																	3586.2659			
	27876.075	1																	3586.2820			
	27874.816	1																	3586.4440			
1	27874.502	5	35649.165-	7774.653		-10	5.0-	4.0	5.0-	4.0	1.203	1.479	.278	1.186	1.463	277	+	33	3586.4844			
	27873.618	2U																	3586.5982			
1	27872.259	4	8768.139-	36640.400		-2	2.0-	3.0	2.0-	3.0			.666	0.362	1.035	673		-196	-206	3586.7730		
1	27871.796	4	37051.050-	9179.262		8	5.0-	5.0	5.0-	5.0			.261	1.192	1.454	262				3586.8326		
	27871.458	0																		3586.8761		
2	27870.999	2H	18720.075-	46591.055		19	.	.	3.5-	3.5				1.060	1.100	40				3586.9352		
	27870.616	2																	3586.9845			
1	27870.174	3	12159.465-	40029.640		-1	.	.	4.0-	5.0				0.844	1.230	386		-271	-264	3587.0414	IS*	
1	27869.528	4	35644.175-	7774.653		6	4.0-	4.0	4.0-	4.0	1.085	1.448	.363	1.100	1.463	363	+			3587.1245		
	27869.292	0																		3587.1549		
1	27867.973	0	12322.613-	40190.580		6	.	.	2.0-	2.0				1.036	0.920	116				3587.3247		
	27866.923	1																		3587.4599		
	27865.989	0																		3587.5801		
	27865.830	0																		3587.6006		
2	27864.973	4	29879.945-	2014.966		-6	2.5-	1.5	2.5-	1.5	1.010	1.846	.836	1.026	1.881	855		77		3587.7109		
	27864.232	2																		3587.8063		
	27863.439	0																		3587.9084		
1	27862.653	6B	30066.252-	2203.606		7	1.0-	1.0	1.0-	1.0	.490	1.490	1.00	0.476	1.495	1019		-69	-97	3588.0097	IS*	
2	27862.525	6B	37104.860-	9242.356		21	4.5-	3.5	4.5-	3.5			.203	1.171	1.369	198		83		3588.0261		
2	27861.883	2	16499.640-	44361.495		28	.	.	3.5-	2.5				0.773	0.850*	77				3588.1088		
	27860.189	2																0			3588.3270	IS*
	27858.977	0																		3588.4831		
2	27858.710	0	39866.140-	12007.503		73	.	.	2.5-	1.5				1.095-	0.019	1114				3588.5175	CQ	
	27858.378	0																		3588.5603		
1	27857.304	3	6313.866-	34171.155		15	4.0-	5.0	4.0-	5.0			.751	0.487	1.230	743		-72		3588.6986		
	27856.802	0																		3588.7633		
	27855.861	1																		3588.8845		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	27855.605	0																	3588.9175	
	27854.942	0																	3589.0029	
	27854.529	0																	3589.0562	
	27853.345	2B																	3589.2087	
	27853.234	1B																	3589.2230	
	27852.332	1																	3589.3393	
	27851.982	0																	3589.3844	
	27851.768	0																	3589.4120	
	27851.079	2																	3589.5008	
	27850.837	1																	3589.5320	
	27850.663	1																	3589.5544	
1	27850.032	0	12177.963-40028.005	-10			.	.	1.0-	2.0				0.525	0.980*	455			3589.6357	
	27849.640	1U																	3589.6862	
	27848.760	1																	3589.7997	
	27848.452	2B																	3589.8394	
1	27848.295	1B	11840.715-39688.980	30			.	.	3.0-	4.0				0.811	0.980*	169			3589.8596	
	27847.610	1																	3589.9471	
	27847.420	2																	3589.9724	
2	27846.653	3	38572.970-10726.322	5			.	.	5.5-	4.5				1.035	1.391	356			3590.0713	
	27846.226	3																	3590.1263	
	27845.579	2																	3590.2098	
2	27844.902	2B	18720.075-46565.005	-28			.	.	3.5-	4.5				1.060	1.040*	20			3590.2971	
	27843.236	3																	3590.5119	
	27842.385	0																	3590.6216	
2	27842.143	0	37084.510- 9242.356	-11			.	.	3.5-	3.5				1.080	1.369*	289			3590.6528	
1	27841.707	5	8768.139-36609.850	-4			2.0-	2.0	2.0-	2.0	.363	1.027	.664	0.362	1.025	663	-262	-275	3590.7091	
	27841.193	2																	3590.7754	
2	27840.193	0	39847.645-12007.503	51			.	.	1.5-	1.5				0.940	0.019	959			3590.9044	
	27839.915	0																	3590.9402	
	27839.741	0																	3590.9627	
	27838.441	2																	3591.0014	
1	27837.122	4	32137.795- 4299.659	-14			2.0-	2.0	2.0-	2.0	.831	1.482	.651	0.827	1.482	655	-48	-49	3591.1715	
	27836.653	1																	3591.3572	
	27836.059	0																	3591.4377	
	27835.103	0																	3591.5610	
1	27834.701	4	33979.215- 6144.515	1			4.0-	3.0	4.0-	3.0			.354	1.115	1.473	358	+	36	3591.6129	
2	27833.898	6	35332.255- 7498.364	7			2.5-	2.5	2.5-	2.5	1.252	1.310	.058	1.263	1.321	58	-19	-49	3591.7165	IS*
	27833.282	0																	3591.7960	
	27832.787	2																	3591.8599	
1	27830.990	5	32130.660- 4299.659	-11			3.0-	2.0	3.0-	2.0	1.181	1.477	.296	1.186	1.482	296	83	88	3592.0918	
1	27830.296	0	33974.800- 6144.515	11			.	.	2.0-	3.0				1.110	1.473*	363			3592.1814	
	27829.867	0																	3592.2368	
	27829.590	0																	3592.2725	
	27829.190	2H																	3592.3242	HAZY BQ
2	27828.805	1	20511.945-48360.695	55			.	.	4.5-	4.5				1.310	1.260*	50			3592.3739	
2	27828.526	4	38016.965-10183.463	24			0.5-	0.5	0.5-	0.5	1.413	2.393	.980	1.390	2.402	1012	-61		3592.4099	
	27828.272	1																	3592.4427	
2	27826.875	3	16499.640-44326.520	-5			.	.	3.5-	4.5				0.773	0.960*	187	+		3592.6230	
	27826.410	0																	3592.6831	
1	27825.518	3	9386.801-37212.310	9			5.0-	5.0	5.0-	5.0			.192	0.801	0.990	189	-251	-251	3592.7982	
	27824.996	0																	3592.8656	
2	27824.744	0	16362.000-44186.735	9			.	.	4.5-	5.5				1.050	1.090*	40			3592.8982	
	27824.227	0																	3592.9649	
	27823.772	0																	3593.0237	
2	27822.739	4	14295.555-42118.305	-1			3.5-	4.5	3.5-	4.5	.834	1.075	.241	0.790	1.040	250	-241	-252	3593.1571	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	G2		G1	DG	G2	G1	DG	IS	IS			
	27822.396	1																			
1	27821.705	3	30025.300-		2203.696	11	.	.	2.0-	1.0	.	.	.	1.120	1.495	375		97	3593.2014		
2	27821.325	0	16593.963-		44415.300	-12*	.	.	2.5-	3.5	.	.	.	0.983	0.940	43			3593.2906	HAZY	
	27820.593	1					.	.			.	.	.							3593.3397	
	27820.216	1					.	.			.	.	.							3593.4343	
	27819.705	1					.	.			.	.	.							3593.4830	
1	27818.374	6	36997.640-		9179.262	-4	4.0-	5.0	4.0-	5.0	1.242	1.440	.198	1.256	1.454	198			3593.5490		
	27817.509	0					.	.			.	.	.							3593.7209	
	27817.261	2					.	.			.	.	.							3593.8327	
	27816.838	0					.	.			.	.	.							3593.8647	
	27815.428	1					.	.			.	.	.							3593.9194	
1	27814.865	5	6313.866-		34128.739	-8	4.0-	3.0	4.0-	3.0	.500	1.119	.619	0.487	1.106	619	-250	-250	3594.1015		
	27814.511	1					.	.			.	.	.							3594.1743	
1	27814.208	3	6313.866-		34128.094	-20	.	.	4.0-	4.0	.	.	.	0.487	0.000*	0		-225	3594.2200		
1	27813.959	5	12351.522-		40165.495	-14	6.0-	7.0	6.0-	7.0	.995	1.120	.125	0.995	1.120	125		-248	3594.2592		
1	27813.694	2	10486.922-		33300.595	21	.	.	1.0-	2.0	.	.	.	0.355	1.150	795			3594.2914		
2	27813.058	1	15657.156-		43470.195	19	.	.	2.5-	3.5	.	.	.	1.000	0.860	140			3594.3256		
	27812.424	3					.	.			.	.	.							3594.4078	
	27810.021	0					.	.			.	.	.					-198		3594.4898	DJ1
	27809.565	0					.	.			.	.	.							3594.8004	
	27809.295	2					.	.			.	.	.							3594.8593	
	27808.865	2					.	.			.	.	.							3594.8942	
	27808.365	2					.	.			.	.	.							3594.9498	
	27807.831	1					.	.			.	.	.							3595.0144	
	27807.165	0					.	.			.	.	.							3595.0835	
	27805.364	0					.	.			.	.	.							3595.1696	
	27804.780	1					.	.			.	.	.							3595.4024	
	27804.500	0					.	.			.	.	.							3595.4780	
1	27804.248	1	35578.900-		7774.653	1	.	.	5.0-	4.0	.	.	.	1.193	1.463	270		-43	3595.5142		
	27803.921	1					.	.			.	.	.							3595.5468	
2	27802.927	6	33520.920-		5717.976	-17	4.5-	3.5	4.5-	3.5	1.021	1.621	.600	0.996	1.596	600		+	3595.5890		
	27802.391	1					.	.			.	.	.							3595.7176	
	27801.696	0					.	.			.	.	.							3595.7869	
	27801.175	1					.	.			.	.	.							3595.8768	
2	27800.768	1	14476.135-		42276.885	18	.	.	4.5-	4.5	.	.	.	1.060	1.120*	60			3595.9442		
	27799.959	0					.	.			.	.	.							3595.9969	
2	27799.461	6	36437.710-		8633.233	-16	5.5-	5.5	5.5-	5.5	.	.	.377	1.137	1.514	377	53	54	3596.1015		
	27798.967	0					.	.			.	.	.							3596.1659	
	27798.685	3					1.5-	2.5			.	.	.48							3596.2298	
	27798.431	0					.	.			.	.	.							3596.2663	JQ
	27796.998	2C					.	.			.	.	.							3596.2992	
1	27796.522	3	33941.055-		6144.515	-18	.	.	3.0-	3.0	.	.	.	1.118	1.473	355		-30	3596.4846	HAZY	
1	27796.191	2	12322.613-		40118.850	-46*	.	.	2.0-	3.0	.	.	.	1.036	1.020	16			3596.5462		
	27795.706	0					.	.			.	.	.							3596.5890	
2	27795.395	4	38521.710-		10726.322	7	.	.	4.5-	4.5	.	.	.	1.145	1.391	246			3596.6518		
1	27793.515	2	6313.866-		34107.378	3	.	.	4.0-	3.0	.	.	.	0.487	1.160*	673		-223	3596.6920	DJ1 CQ	
	27793.282	2					.	.			.	.	.							3596.9353	
	27793.075	3					.	.			.998	.998								3596.9654	
	27792.215	2					.	.			.	.	.							3596.9922	
1	27791.168	1	9386.801-		37177.970	-1	.	.	5.0-	5.0	.	.	.	0.801	1.125	324		-228	3597.1034		
	27790.856	2					.	.			.	.	.							3597.2391	
2	27789.168	2	20689.110-		48478.270	8	.	.	3.5-	3.5	.	.	.	1.270	0.970*	300			3597.2794		
2	27788.874	4	31758.755-		3969.846	-35	2.5-	2.5	2.5-	2.5	1.270	1.670	.400	1.270	1.670	400		+	3597.4980		
	27788.573	0					.	.			.	.	.							3597.5360	
	27788.010	4					2.0-	1.0			.362	.725	.363					-284		3597.5750	
							.	.			.	.	.							3597.6479	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS			
	27787.580	3									1.05	.	.						3597.7036	f
	27786.758	1									.	.	.						3597.8100	
	27786.161	1									.	.	.						3597.8873	
1	27785.509	4	36964.778-	9179.262	-7	4.0-	5.0	4.0-	5.0	1.150	1.494	.344	1.110	1.454	344			3597.9717		
	27785.036	1W									.	.	.						3598.0330	HAZY
	27784.092	0									.	.	.						3598.1552	
	27783.849	0									.	.	.						3598.1867	
	27783.580	1									.	.	.						3598.2215	
	27783.363	0									.	.	.						3598.2496	
	27782.495	0									.	.	.						3598.3621	
1	27782.026	3	12322.613-	40104.650	-11	2.0-	2.0	2.0-	2.0	1.035	1.091	.056	1.036	1.090	54	-284	-284	3598.4228		
2	27781.638	1	19466.530-	47243.155	13	.	.	4.5-	5.5	.	.	.	1.151	1.030	121			3598.4731		
2	27779.679	1	17073.340-	44853.015	4	.	.	1.5-	2.5	.	.	.	0.576	0.920*	344			3598.7268		
	27779.290	0									.	.	.						3598.7772	
1	27779.027	3	12177.963-	39956.990	0	1.0-	2.0	1.0-	2.0	.525	1.050	.525	0.525	1.050	525	-234	-234	3598.8113		
	27778.225	0									.	.	.						3598.9152	
2	27777.967	3	16593.963-	44371.925	5	2.5-	3.5	2.5-	3.5	.98	.97	.01	0.983	0.970*	13			3598.9486		
	27776.273	0									.	.	.						3599.1681	
	27776.046	0									.	.	.						3599.1975	
2	27775.625	2	39574.860-	11799.241	6	.	.	5.5-	5.5	.	.	.	1.070	1.373*	303			3599.2521		
	27775.404	2									.	.	.						3599.2807	
	27774.758	1									.	.	.						3599.3645	
	27774.500	1									.	.	.						3599.3979	
	27773.385	0									.	.	.						3599.5424	
	27772.332	1									.	.	.						3599.6789	
	27772.117	1									.	.	.						3599.7067	
	27771.570	1W									.	.	.						3599.7777	
	27770.564	1									.	.	.						3599.9081	
2	27769.840	6	37012.210-	9242.356	-14	4.5-	3.5	4.5-	3.5	1.167	1.374	.207	1.164	1.369	205	84	74	3600.0019	IS*	
	27768.942	0									.	.	.						3600.1183	
1	27768.709	2	27768.715-	0.000	-6	1.0-	0.0	1.0-	0.0	.725	.	.	0.722	0.000	0		20	3600.1485		
2	27768.437	1	29783.410-	2614.966	-7	.	.	0.5-	1.5	.	.	.	2.590	1.881*	709		8*	3600.1838		
1	27768.243	1	8768.139-	36536.380	2	.	.	2.0-	3.0	.	.	.	0.362	0.950*	588		-161	3600.2090		
2	27767.554	2W	16593.963-	44361.495	22	.	.	2.5-	2.5	.	.	.	0.983	0.850*	133			3600.2983		
	27766.319	3								1.11	.	.10							3600.4584	f0J02J06
	27765.295	0								.	.	.							3600.5912	
	27764.672	2								.	.	.							3600.6720	
2	27764.232	7	31000.010-	3235.770	-8	1.5-	0.5	1.5-	0.5	1.661	.281	1380	1.669	0.299	1370	84	83	3600.7291	IS*	
	27763.767	1									.	.	.						3600.7894	
	27763.501	4								1.32	1.32						-234	3600.8239	IS+Q	
	27763.095	0								.	.	.							3600.8766	
2	27762.821	3	12992.644-	40755.465	0	.	.	2.5-	2.5	.	.	.	0.643	0.800	157	-254		3600.9121		
2	27762.682	2	13192.903-	40955.385	0	.	.	2.5-	3.5	.	.	.	0.372	0.850	478		-162	3600.9561		
	27761.827	1								.	.	.							3601.0410	
	27760.972	1								.	.	.							3601.1519	
	27760.333	0								.	.	.							3601.2277	
1	27759.521	3	8768.139-	36528.070	-10	2.0-	3.0	2.0-	3.0	.	.	.63	0.362	0.985	623			3601.2883		
	27759.141	0								.	.	.							3601.3895	
	27758.782	0								.	.	.							3601.4361	
	27758.482	1								.	.	.							3601.4750	
	27757.371	1								.	.	.							3601.6191	
	27755.672	2								.	.	.							3601.8656	
	27754.628	1								.	.	.							3601.9751	
	27754.038	2W								.	.	.							3602.0517	
	27753.471	0								.	.	.							3602.1253	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OSS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
2	27752.867	3	15578.500-43331.310		57*	.	.	6.5-	5.5	.	.	.	.	0.000	1.055*	0	+		3602.2037	
	27751.629	2				.	.			.	.	.	.						3602.3644	
2	27750.939	0	20121.145-47872.094		-10	.	.	2.5-	1.5	.	.	.	.	0.710	0.760*	50			3602.4539	
	27749.694	0				.	.			.	.	.	.						3602.6156	
2	27749.197	8	35028.065- 7278.852		-6	4.5-	4.5	4.5-	4.5	1.159	1.561	.402		1.144	1.545	401		165	3602.6801		
	27749.021	2				.	.			.	.	.	.						3602.7029	
	27748.693	1				.	.			.	.	.	.						3602.7455	
	27747.942	1				.	.			.	.	.	.						3602.8430	
	27747.160	1				.	.			.	.	.	.						3602.9446	
2	27746.946	2	20063.650-47810.565		31	.	.	4.5-	3.5	.	.	.	.	1.049	1.160	111			3602.9724	
	27746.477	3				.	.			.	.	.	.						3603.0333	
	27745.849	0				.	.			.	.	.	.						3603.1148	
2	27745.703	0	46411.689-18566.006		25	.	.	3.5-	2.5	.	.	.	.	1.080	1.365*	285			3603.1331	
	27744.952	1				.	.			.	.	.	.						3603.2300	
	27744.675	1				.	.			.	.	.	.						3603.2673	
	27744.366	0				.	.			.	.	.	.						3603.3074	
	27744.211	0				.	.			.	.	.	.						3603.3275	
	27743.787	1				.	.			.	.	.	.						3603.3826	
	27743.533	2				.	.			.	.	.	.						3603.4150	
2	27742.411	6	37450.390- 9707.980		1	7.5-	6.5	7.5-	6.5	1.211	1.485	.274		1.210	1.485	275			3603.5613		
	27741.237	0				.	.			.	.	.	.						3603.7139	
	27741.078	1				.	.			.	.	.	.						3603.7345	
	27740.834	1				.	.			.	.	.	.						3603.7662	
	27740.484	2				.	.			.	.	.	.						3603.8117	
2	27739.810	0	13809.910-41549.680		40*	.	.	4.5-	5.5	.	.	.	.	0.657	1.070*	413			3603.8992	
	27739.600	1				.	.			.	.	.	.						3603.9265	
2	27739.069	8	33457.050- 5717.976		-5	3.5-	3.5	3.5-	3.5	1.004	1.593	.589		1.002	1.596	594		-78	3603.9955		
	27737.797	2				.	.			.	.	.	.						3604.1608	
	27737.173	0				.	.			.	.	.	.						3604.2419	
	27736.538	3				.	.			.	.	.	.						3604.3244	
	27735.904	1				.	.			.	.	.	.						3604.4068	
	27735.555	1				.	.			.	.	.	.						3604.4521	
1	27734.829	5	8768.139-36502.980		-12	2.0-	2.0	2.0-	2.0	.369	.900	.531		0.362	0.900*	538		-269 -271	3604.5465		
	27734.495	4				4.0-	4.0			.	.	.285							3604.5898	JQ 2J06	
2	27734.185	1	14295.565-42029.735		15	.	.	3.5-	3.5	.	.	.	.	0.790	0.695	95			3604.6302	
	27732.935	0				.	.			.	.	.	.						3604.7927	
	27732.790	1				.	.			.	.	.	.						3604.8115	
	27732.317	0				.	.			.	.	.	.						3604.8730	
	27732.082	4				.	.			.	.	.	.						3604.9036	
	27731.817	1				.	.			.	.	.	.						3604.9380	
	27731.251	4				.	.			.	.	.	.						3605.0116	
	27730.972	0				.	.			.	.	.	.						3605.0479	
	27730.732	0				.	.			.	.	.	.						3605.0791	
	27730.161	0				.	.			.	.	.	.						3605.1533	
1	27728.581	5	35503.238- 7774.653		-4	3.0-	4.0	3.0-	4.0	1.14	1.47	.328		1.135	1.463	328		+	3605.3587		
1	27728.166	6	6313.866-34042.040		-8	4.0-	4.0	4.0-	4.0	.474	.794	.320		0.487	0.806	319		-147 -145	3605.4127		
2	27727.705	0	36970.040- 9242.356		21	.	.	2.5-	3.5	.	.	.	.	1.405	1.369	36			3605.4726	
	27727.420	0				.	.			.	.	.	.						3605.5097	
2	27725.238	2	36967.635- 9242.356		9	.	.	4.5-	3.5	.	.	.	.	1.190	1.369	179			3605.7869	
	27724.155	6				.	.			.94	.	.18							3605.9343	fso 2J06	
	27723.393	0				.	.			.	.	.	.						3606.0334	
2	27722.795	4	33440.770- 5717.976		1	2.5-	3.5	2.5-	3.5	.	.	.570		1.016	1.596	580		+	38*	3606.1112	
	27722.132	0				.	.			.	.	.	.						3606.1910	
	27721.695	0				.	.			.	.	.	.						3606.2543	
1	27720.833	2	12351.522-40072.380		-20*	.	.	6.0-	5.0	.	.	.	.	0.995	1.100	105			3606.3658	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
1	27719.785	5	35494.450-		7774.653	-12	4.0-	4.0	4.0-	4.0	1.121	1.486	.365	1.098	1.463	365	-24	-24	3606.5028	IS*
	27719.585	3																	3606.5288	
	27718.152	2																	3606.7153	
	27717.807	0																	3606.7602	
	27716.563	0																	3606.9221	
	27715.426	1																	3607.0700	
	27714.965	1																	3607.1300	
	27714.788	0																	3607.1531	
2	27714.429	4	35212.780-		7498.364	13	2.5-	2.5	2.5-	2.5			.213	1.108	1.321	213	-	-	3607.1998	
	27712.337	1																	3607.4721	
	27711.294	3H																	3607.6079	DJ1
	27710.700	0																	3607.6852	
1	27710.344	1	36889.583-		9179.262	23	.	.	6.0-	5.0				1.153	1.454	301		-15*	3607.7316	
1	27709.321	6	36888.610-		9179.262	-27	4.0-	5.0	4.0-	5.0	1.148	1.454	306	1.094	1.454	360	-20	-13*	3607.8648	IS*
	27709.026	2																	3607.9032	
1	27708.905	4	33853.410-		6144.515	10	3.0-	3.0	3.0-	3.0			.448	1.021	1.473	452	-22	-22	3607.9189	IS*
	27708.653	1																	3607.9518	
	27707.986	1																	3608.0386	
	27707.250	0																	3608.1345	
	27706.444	0																	3608.2394	
1	27705.432	0	12322.613-		40028.005	40	.	.	2.0-	2.0				1.036	0.980*	56			3608.3712	
	27703.632	2H																	3608.6057	
	27703.396	1H																	3608.6364	
	27702.833	2																	3608.7098	
2	27702.159	7	27702.165-		0.000	-6	1.5-	0.5	1.5-	0.5	1.130	3.144	2014	1.135	3.150	2015	28	33	3608.7976	IS*
	27701.549	0																	3608.8770	
	27700.607	1																	3608.9998	
2	27700.471	2	36942.795-		9242.356	32	.	.	2.5-	3.5				1.040	1.369	329		+	3609.0175	
	27700.262	1																	3609.0447	
	27699.413	2																	3609.1553	
	27698.748	1																	3609.2420	
	27698.533	1																	3609.2700	
1	27698.200	6	35472.852-		7774.653	1	5.0-	4.0	5.0-	4.0	1.178	1.440	.262	1.200	1.463	263	-21	-25	3609.3134	IS*
	27697.884	0																	3609.3546	
	27697.415	0																	3609.4157	
	27695.904	2H																	3609.6126	HAZY
2	27694.756	7	36333.015-		8638.233	-26	5.5-	5.5	5.5-	5.5			.430	1.137	1.514	377	-	-20	3609.7622	
	27694.198	1																	3609.8350	
1	27693.997	3	9724.351-		37418.345	3	3.0-	2.0	3.0-	2.0	.442	.928	.486	0.442	0.932	490	-214	-211	3609.8612	
	27693.018	0																	3609.9888	
	27692.097	2																	3610.1089	
	27691.890	1																	3610.1359	
	27691.654	1																	3610.1666	
1	27691.233	3B	36870.455-		9179.262	40	.	.	5.0-	5.0				1.125	1.454	329		49	3610.2215	CQ
	27690.553	1																	3610.3102	
2	27690.191	7	35183.565-		7498.364	-10	3.5-	2.5	3.5-	2.5	1.164	1.335	.171	1.154	1.321	167	34	34*	3610.3574	IS*
1	27689.920	2	13517.647-		41207.555	12	.	.	2.0-	2.0				0.892	0.925	33			3610.3927	
	27688.148	1H																	3610.6238	
2	27687.542	7	33189.610-		5502.060	-8	2.5-	1.5	2.5-	1.5	1.07			1.121	1.169	48	-14	-37	3610.7028	f SO IS*
	27687.068	1																	3610.7607	
2	27686.458	2	19317.370-		47003.820	8	.	.	4.5-	3.5				1.225	0.935	290			3610.8442	
2	27685.955	6	34964.825-		7278.862	-8	4.5-	4.5	4.5-	4.5	1.119	1.542	.423	1.122	1.545	423	39	47	3610.9098	IS*
	27685.284	0																	3610.9973	
	27684.769	1																	3611.0645	
	27684.272	1																	3611.1293	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	27683.284	3																	3611.1799	
	27683.568	1																	3611.2185	
	27682.488	2																	3611.3620	
1	27681.303	4	33825.820-		6144.515	-2	2.0-	3.0	2.0-	3.0			.366	1.104	1.473	369	-	-24	3611.5166	
	27681.034	0																	3611.5517	
	27680.763	1																	3611.5871	
	27679.440	2																	3611.7597	
1	27679.240	1	35453.905-		7774.653	-12	.	.	4.0-	4.0				1.130	1.463	333			3611.7858	
1	27678.117	4H	12351.522-		40029.640	-1	.	.	6.0-	5.0				0.995	1.230	235	-264	-270	3611.9324	DJ1
1	27677.685	5	29881.327-		2203.606	-36	2.0-	1.0	2.0-	1.0	1.167	1.506	.339	1.153	1.495	342	-10	-10	3611.9887	IS*
	27677.355	1																	3612.0318	
	27677.136	1																	3612.0604	
2	27676.144	4	39475.380-		11799.241	5	.	.	6.5-	5.5				1.110	1.373	263	107	107*	3612.1898	
	27675.975	3																	3612.2119	
	27675.755	1																	3612.2406	
	27675.465	1																	3612.2785	
	27674.131	2																	3612.4526	
1	27673.813	4	37912.285-		10238.473	1	6.0-	6.0	6.0-	6.0			.320	1.109	1.431	322	0	0	3612.4941	IS*
	27672.150	0																	3612.7112	
	27671.904	2																	3612.7433	
	27670.681	0																	3612.9030	
	27669.724	1																	3613.0280	
	27669.226	1																	3613.0930	
	27669.058	0																	3613.1150	
	27668.713	1																	3613.1600	
1	27668.158	4	8768.139-		35436.294	3	2.0-	3.0	2.0-	3.0	.373	1.101	.728	0.362	1.095	733	-193	-194	3613.2325	
	27667.549	0																	3613.3120	
	27666.329	1																	3613.4714	
1	27666.062	1	12159.465-		39825.550	-23	.	.	4.0-	4.0				0.844	1.030	186		-243	3613.5062	
	27665.227	0																	3613.6153	
	27664.927	0																	3613.6545	
	27664.693	0																	3613.6851	
	27664.401	0																	3613.7232	
	27664.055	1																	3613.7671	
	27663.556	2																	3613.8336	
	27662.710	1																	3613.9441	
2	27662.297	6	36300.540-		8638.233	-10	4.5-	5.5	4.5-	5.5	1.103	1.475	.372	1.142	1.514	372		-5	3613.9981	
	27661.847	2																	3614.0569	
	27661.417	1																	3614.1130	
	27661.154	1																	3614.1474	
	27660.358	3																	3614.2475	
1	27659.149	7	36838.415-		9179.262	-4	6.0-	5.0	6.0-	5.0	1.318	1.452	.134	1.318	1.454	136	-107	-106	3614.4094	
	27658.871	2																	3614.4457	
1	27658.531	3	12322.613-		39931.145	-1	.	.	2.0-	3.0				1.036	0.905	131	-281	-271	3614.4902	
2	27657.806	3	8198.666-		35856.485	-13	.	.	2.5-	3.5				0.414	1.025	611		-651	3614.5849	
	27657.592	1																	3614.6129	
2	27657.376	1	43943.935-		16286.522	23	.	.	1.5-	0.5				1.095-	0.122	1217			3614.6411	
	27656.146	1																	3614.8019	
1	27654.453	6	9724.351-		37378.815	-11	3.0-	2.0	3.0-	2.0	.448	.964	.516	0.442	0.964	522	-199	-199	3615.0232	
	27654.233	6					1.0-	2.0					.916						3615.0519	
	27653.982	2																	3615.0848	
	27652.504	1																	3615.2780	
1	27651.946	5	36831.210-		9179.262	-2	5.0-	5.0	5.0-	5.0			.37	1.080	1.454*	374	27	34	3615.3509	IS*
	27650.122	1																	3615.5894	
2	27649.239	7	31619.095-		3969.846	-10	1.5-	2.5	1.5-	2.5	1.61	1.69	.08	1.613	1.670	57	-33	-66*	3615.7049	IS

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS TERM		OBS G2	OBS G1	OBS DG	TERM			OBS TERM		WAVELENGTH	NOTES	
								J2 - J1	J2 - J1				G2	G1	DG	IS	IS			
	27648.536	1																		
1	27647.954	0	31947.617-	4299.659	-4			3.0-	2.0				1.250	1.482	232		-53	3615.7968		
	27646.760	3																3615.8730		
2	27645.809	6	33363.790-	5717.976	-5			3.5-	3.5			.516	1.078	1.596	518	0	1	3616.0291	IS*	
	27645.065	0																3616.1535		
	27644.100	0																3616.2508		
	27643.322	0																3616.3771		
2	27642.995	1	20044.005-	47687.019	-18			1.5-	2.5				0.820	0.000*	0			3616.4789		
1	27642.995	1	13725.551-	41269.665	-8			3.0-	4.0				1.150	1.120*	30			3616.5215	C2	
2	27642.167	0	14476.135-	42113.305	-3			4.5-	4.5				1.060	1.040	20		-576*	3616.5215	C2	
1	27641.821	4	22845.430-	2203.606	-3			1.0-	1.0	1.341	1.497	.156	1.336	1.495	159	0	4	3616.6300	IS*	
	27640.854	1																3616.6752		
	27640.473	1																3616.8018		
	27640.232	1																3616.8516		
2	27639.699	1	23272.420-	50912.115	4			2.5-	3.5				0.951	0.950*	1			3616.8832		
	27638.953	2																3616.9529		
	27638.496	0																3617.0505		
	27637.875	0																3617.1104		
	27637.364	0																3617.1916		
	27634.655	0																3617.2585		
1	27634.344	2	12322.613-	39956.990	-33			2.0-	2.0	1.02			1.036	1.050	14		-238	3617.6131	f	
	27634.051	0																3617.6538		
	27633.418	1																3617.6922		
	27632.830	1																3617.7751		
	27632.141	1																3617.8455		
	27631.907	2																3617.9423		
	27631.603	2																3617.9729		
	27629.555	0																3618.0121		
	27629.350	1																3618.2809		
	27629.043	1																3618.3077		
	27628.630	1																3618.3473		
1	27628.373	3	9724.351-	37352.720	4			3.0-	3.0				0.442	1.130*	688		-268	3618.3955		
	27627.698	0																3618.4357		
	27627.257	0																3618.5241		
	27626.632	0																3618.5819		
	27626.225	0																3618.6637		
2	27625.799	0	18720.075-	46345.820	54			3.5-	4.5				1.060	1.030	30			3618.7170		
	27625.370	1																3618.7728		
	27624.716	3																3618.8290		
2	27623.906	5	34902.775-	7278.862	-7			3.5-	4.5	1.07	1.47	.40	1.155	1.545	390	182	178	3618.9147		
	27623.723	1																3619.0208		
1	27623.063	6	31922.720-	4299.659	2			1.0-	2.0	1.277	1.482	.205	1.278	1.482	204		30*	3619.0448		
2	27621.541	3H	33123.530-	5502.060	21			2.5-	1.5				1.285	1.169	116		135*	3619.1313		
	27621.163	2																3619.3307		
	27620.052	2																3619.3802		
	27619.807	2																3619.5258		
	27618.537	3																3619.5579		
1	27618.217	2	33762.720-	6144.515	12			4.0-	3.0				1.120	1.473	353		8*	3619.7244		
	27617.957	0																3619.7663		
	27617.690	3																3619.8004		
	27616.750	2B																3619.8354		
2	27616.652	2B	34395.470-	7278.852	44			3.5-	4.5				1.165	1.545	380		204	3619.9536		
1	27616.396	2	12159.465-	39775.870	-9			4.0-	4.0				0.844	0.985	141		-205	3619.9715		
1	27614.661	4	9326.801-	37001.490	-28			5.0-	6.0				0.801	1.035	234	-225	-230	3620.0050		
2	27614.370	4	33332.350-	5717.976	-4			4.5-	3.5				1.072	1.596	524		-11*	3620.2325		
																		3620.2706		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	27612.012	2																	3620.5798	
	27611.239	2																	3620.6812	
	27610.808	1																	3620.7377	
	27610.377	2																	3620.7942	
1	27608.839	6	35383.505-	7774.653	-13	3.0-	4.0	3.0-	4.0	1.030	1.461	.431	1.032	1.463	431	-65	-67	3620.9959		
	27608.490	3															-322		3621.0417	
	27603.193	1																	3621.0806	
2	27607.793	1	17532.937-	45140.685	45	.	.	3.5-	2.5				1.238	0.850	388			3621.1331		
2	27606.322	7	29621.300-	2014.966	-12	1.5-	1.5	1.5-	1.5	1.057	1.884	.827	1.045	1.881	836	51	58*	3621.3261		
	27604.126	1																	3621.6142	
	27603.802	1																	3621.6567	
2	27603.248	3	36845.610-	9242.356	-6	4.5-	3.5	4.5-	3.5				1.180	1.369	189	235	226*	3621.7294		
	27602.962	0																	3621.7669	
2	27602.657	2	44766.125-	17163.470	2	.	.	4.5-	4.5				1.090	1.200*	110			3621.8069		
2	27602.086	2	41593.040-	13990.952	-2	.	.	1.5-	1.5				1.150	1.728*	578			3621.8818	DJO	
	27601.499	0																	3621.9589	
	27601.044	1																	3622.0186	
	27600.281	1																	3622.1187	
	27599.939	1																	3622.1636	
	27599.686	0																	3622.1968	
	27599.240	0																	3622.2553	
	27598.580	1																	3622.3419	
	27598.463	1																	3622.3573	
	27597.351	2																	3622.5020	
2	27596.570	1	36838.925-	9242.356	1	.	.	3.5-	3.5				1.225	1.369	144		-219*	3622.6058		
	27595.873	2H																	3622.6973	
1	27595.519	3	31895.185-	4299.659	-7	.	.	2.0-	2.0				1.070	1.482	412		143	3622.7438	DJO	
	27595.130	0																	3622.7948	
	27594.197	0																	3622.9173	
	27593.776	0																	3622.9726	
	27593.619	0																	3622.9932	
	27593.468	2																	3623.0130	
	27593.289	4															86		3623.0365	
1	27592.769	3	11840.715-	39433.510	-25	.	.	3.0-	4.0				0.811	0.925	114	-264	-270	3623.1048		
	27592.617	4															36		3623.1248	DJ1 SI
	27591.222	4																	3623.3080	
	27589.757	1																	3623.5004	
	27589.334	1																	3623.5559	
	27588.712	0																	3623.6376	
	27587.834	0																	3623.7464	
	27587.637	0																	3623.7788	
	27587.318	0																	3623.8207	
	27586.738	2																	3623.8969	
	27586.422	0																	3623.9384	
	27584.860	3																	3624.1437	
1	27584.351	3	9724.351-	37303.707	-5	.	.	3.0-	4.0				0.442	1.040	598		-222	3624.2105		
1	27583.979	3	36763.260-	9179.262	-19	5.0-	5.0	5.0-	5.0			.36	1.089	1.454	365	+	22	3624.2594		
	27583.480	0																	3624.3250	
	27583.093	0																	3624.3758	
	27582.675	2B																	3624.4308	
2	27582.537	2B	38308.875-	10726.322	34	.	.	3.5-	4.5				1.010	1.391*	381			3624.4423		
	27581.740	1																	3624.5536	
	27580.157	1																	3624.7617	
	27579.215	1																	3624.8853	
	27578.167	0																	3625.0232	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS					
	27578.002	0																	3625.0449		
	27577.369	0																	3625.1281		
	27577.003	3																	3625.1762		
	27575.634	1																-265	3625.3496		
	27574.845	0																	3625.4598		
	27574.333	4																	3625.5273		
2	27573.104	3	31542.950-	3969.846	0		.	.	1.5-	2.5	1.06	.	.43	1.026	1.670	644		-209	3625.6889	FDJ02J06	
	27572.748	0																	3625.7357		
2	27571.664	4	39370.905-	11799.241	0		.	.	5.5-	5.5				1.160	1.373*	213		7*	3625.8782		
	27571.458	2																	3625.9053		
1	27570.732	2	12159.465-	39730.200	-3		.	.	4.0-	4.0				0.844	1.025	181			3626.0008		
	27569.063	0																	3626.2203		
	27568.666	2																	3626.2726		
	27568.075	2																	-368	3626.3503	
	27567.121	0																	3626.4758		
	27566.726	0																	3626.5278		
	27565.141	0																	3626.7363		
2	27564.839	1	36203.035-	8638.233	37		.	.	4.5-	5.5				0.983	1.514	531			3626.7760		
1	27563.212	8	27563.217-	0.000	-5		1.0-	0.0	1.0-	0.0	.745	.030		0.745	0.000	0		-60	-74	3626.9901	
	27563.003	3																		3627.0176	
	27562.539	5																	-68	3627.0787	
	27562.227	0																		3627.1197	
	27561.948	1																		3627.1565	
	27560.527	1																		3627.3435	
	27560.057	1																		3627.4014	
	27559.857	1																		3627.4317	
2	27559.157	8	30794.930-	3235.770	-3		1.5-	0.5	1.5-	0.5	1.082	.292	.790	1.084	0.299	785		10	12	3627.5238	IS*
1	27558.511	2	31853.170-	4299.659	0		.	.	1.0-	2.0				1.335	1.482	147		179	179	3627.6088	
	27557.469	1																		3627.7460	
	27556.850	2																		3627.8275	
	27556.504	1																		3627.8730	
2	27555.427	2	14561.607-	42117.035	-1		.	.	1.5-	2.5				1.149	0.835	314			-171*	3628.0148	
	27554.179	2																		3628.1765	
2	27553.460	0	14295.565-	41849.030	-5		.	.	3.5-	2.5				0.790	1.080	290				3628.2739	
	27552.795	1																		3628.3614	
	27552.376	0																		3628.4166	
	27552.100	1																		3628.4530	
2	27551.787	3	20952.550-	46504.345	-8		.	.	1.5-	2.5				0.350	0.790*	440				3628.4942	
2	27550.762	3	33052.825-	5502.060	-3		0.5-	1.5	0.5-	1.5	1.19	1.19		1.242	1.169	73			41*	3628.6292	JQ
2	27550.212	5	38276.535-	10726.322	-1		5.5-	4.5	5.5-	4.5	1.186	1.374	.188	1.200	1.391*	191		26	26	3628.7016	IS*
	27549.309	0																		3628.8206	
2	27548.965	1	41982.315-	14433.351	1		.	.	0.5-	1.5				1.620	1.925*	305				3628.8659	
	27548.534	2																		3628.9226	
	27547.693	0																		3629.0334	
2	27546.939	3	31516.780-	3969.846	5		.	.	2.5-	2.5				1.215	1.670	455				3629.1328	
	27546.633	1																		3629.1731	
	27546.258	1																		3629.2225	
	27545.557	3																		3629.3149	
	27545.391	1																		3629.3367	
	27544.740	18																		3629.4225	
	27544.619	18																		3629.4384	
2	27543.336	4	8709.640-	36252.985	-9		.	.	3.5-	3.5				0.308	1.004	696		-203	-123	3629.6075	
	27542.487	0																		3629.7194	
	27541.933	0																		3629.7924	
2	27541.558	3	29556.550-	2014.966	-16		.	.	1.5-	1.5				0.484	1.881	1397			-96	3629.8405	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES		
							J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	IS	IS				
	27541.189	2																				
	27540.478	0																			3629.8905	
1	27540.223	3	11840.715-39380.945		-2		.	.	3.0-	4.0	.	.	.	0.811	1.070*	259				3629.9842		
	27539.689	0					.	.			.	.	.								3630.0171	
	27539.231	1					.	.			.	.	.								3630.0882	
	27539.013	1					.	.			.	.	.								3630.1486	
	27537.969	3					.	.			.	.	.								3630.1773	
2	27537.269	3	19466.530-47003.820		-21		.	.	4.5-	3.5	.	.	.	1.151	0.935	216				3630.3149		
	27537.016	0					.	.			.	.	.								3630.4072	
	27535.661	1					.	.			.	.	.								3630.4406	
	27534.609	0					.	.			.	.	.								3630.6192	
	27534.193	1					.	.			.	.	.								3630.7579	
1	27533.876	1	11840.715-39374.580		11		.	.	3.0-	3.0	.	.	.	0.811	0.885	74				3630.8128		
	27533.316	2					.	.			.	.	.								3630.8546	
2	27532.507	4	36774.865- 9242.356		-2		3.5-	3.5	3.5-	3.5	.	.	.242	1.127	1.369	242	+			3630.9285		
	27532.263	0					.	.			.	.	.								3631.0351	
	27531.684	0					.	.			.	.	.								3631.0673	
1	27530.216	7	31829.899- 4299.659		-24		3.0-	2.0	3.0-	2.0	1.235	1.489	.254	1.228	1.482	254	-71	-80		3631.1437		
1	27529.340	5	29732.960- 2203.606		-14		1.0-	1.0	1.0-	1.0	1.305	1.508	.203	1.289	1.495	206	-25	-25		3631.3373	IS*	
	27528.613	0					.	.			.	.	.								3631.4529	
	27528.441	0					.	.			.	.	.								3631.5488	
1	27527.575	0	15074.958-42602.510		23*		.	.	7.0-	7.0	.	.	.	1.097	1.320	223				3631.5715		
	27527.041	0					.	.			.	.	.								3631.6857	
	27526.307	0					.	.			.	.	.								3631.7562	
	27525.450	0					.	.			.	.	.								3631.8530	
1	27524.837	4	15074.958-42599.780		15		.	.	7.0-	6.0	.	.	.	1.097	1.140*	43	-262	-262		3631.9661		
2	27523.602	9	27523.600- 0.000		2		0.5-	0.5	0.5-	0.5	.942	3.157	2.21	0.940	3.150	2210	30	30		3632.0470		
1	27523.602	9	8768.139-36291.840		-99		2.0-	3.0	2.0-	3.0	.	.	.62	0.362	0.980	618		-251		3632.2100	2 LNS	
	27522.814	2					.	.			.	.	.								3632.2100	2 LNS
2	27521.936	3	12992.644-40514.565		15		.	.	2.5-	2.5	.	.	.	0.643	0.800	157			-115*	3632.3140		
	27521.406	1					.	.			.	.	.								3632.4298	
	27521.056	0					.	.			.	.	.								3632.4998	
1	27520.380	1	13726.661-41247.030		11		.	.	3.0-	4.0	.	.	.	1.150	1.065	85				3632.5460		
	27519.811	0					.	.			.	.	.								3632.6352	
1	27519.055	2	9724.351-37243.390		16		.	.	3.0-	3.0	.	.	.	0.442	1.300*	858				3632.7103		
2	27518.762	0	43895.265-16286.582		79		.	.	1.5-	0.5	.	.	.	1.090	0.122	1212				3632.8101		
	27518.291	0					.	.			.	.	.								3632.8488	
2	27516.872	0	16499.640-44016.500		12		.	.	3.5-	4.5	.	.	.	0.773	1.050*	277				3632.9110		
	27516.591	0					.	.			.	.	.								3633.0983	
	27516.328	1					.	.			.	.	.								3633.1354	
2	27515.626	3	31485.455- 3969.846		17		.	.	1.5-	2.5	.	.	.	1.300	1.670	370			69	3633.1702		
	27515.266	2					.	.			.	.	.								3633.2629	
	27515.069	0					.	.			.	.	.								3633.3104	
	27513.793	4					.	.			.	.	.								3633.3364	
	27513.280	0					.	.			.	.	.								3633.5049	
	27512.860	1					.	.			.	.	.								3633.5727	
2	27512.093	0	38238.390-10726.322		30		.	.	5.5-	4.5	.	.	.	1.095	1.391	296				3633.6281		
	27511.387	0					.	.			.	.	.								3633.7288	
	27511.189	1					.	.			.	.	.								3633.8227	
1	27508.531	4	35687.810- 9179.262		-17		.	.	6.0-	5.0	.	.	.	1.140	1.454	314	-84	-83		3633.8489		
1	27508.339	1	13726.661-41234.990		10		.	.	3.0-	4.0	.	.	.	1.150	1.080	70			-246	3634.2000	DJ1	
	27507.897	1					.	.			.	.	.								3634.2253	
	27506.010	4					.	.			.	.	.								3634.2837	
	27505.406	1					.	.			.	.	.							-176	3634.5331	
2	27504.749	1	38231.070-10726.322		1		.	.	3.5-	4.5	.	.	.	1.130	1.391*	261				3634.6129		
							.	.			.	.	.								3634.6997	

C	HAVEN	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	27503.428	6		37211.429-		9707.939	-12	6.5-	6.5	6.5-	6.5	.	.	.416	1.069	1.485	416	+	40	3634.8743	
2	27502.786	0		39510.275-		12007.503	14	.	.	0.5-	1.5	.	.	.	0.290	0.019*	309			3634.9591	
	27502.407	2										1.17	.	.					-324	3635.0092	
	27501.755	4										.	.	.						3635.0954	f
	27500.326	0										.	.	.						3635.2843	
	27500.013	2										.	.	.						3635.3257	
	27499.018	0										.	.	.						3635.4572	
	27498.797	0										.	.	.						3635.4864	
	27497.949	2										.915	.	.						3635.5986	f
	27496.936	1										.	.	.						3635.7259	
	27496.601	1										.	.	.						3635.7768	
	27495.834	7										.945	.	.						3635.8782	f
	27495.526	3										.	.	.						3635.9190	
	27494.943	0										.	.	.						3635.9954	
	27494.695	3										.	.	.						3636.0288	
	27494.239	0										.	.	.						3636.0892	
1	27493.791	2		12322.613-		39816.410	-6*	.	.	2.0-	2.0	.	.	.	1.036	1.190*	154			3636.1484	
	27492.785	0										.	.	.						3636.2815	
1	27492.529	2		11840.715-		39333.250	-6	.	.	3.0-	2.0	.	.	.	0.811	0.995	184			3636.3153	
2	27491.654	8		30727.440-		3235.770	-16	1.5-	0.5	1.5-	0.5	1.207	.297	.910	1.208	0.299	909	27	53	3636.4311	IS*
2	27491.404	4		39290.645-		11799.241	0	.	.	6.5-	5.5	.	.	.	1.075	1.373	298			3636.4641	
	27491.257	2										.	.	.						3636.4836	
	27489.954	1										.	.	.						3636.7882	
	27488.252	28										.	.	.						3636.8811	
	27488.155	28										.	.	.						3636.8940	
	27487.989	1										.	.	.						3636.9159	
2	27486.752	0		11504.095-		38990.840	7	.	.	3.5-	4.5	.	.	.	0.859	1.105	246		-570	3637.0796	
2	27484.731	0		31454.580-		3969.846	-3	.	.	3.5-	2.5	.	.	.	1.180	1.670*	490		71	3637.3470	
2	27484.323	3		13013.685-		40498.010	3	.	.	5.5-	4.5	.	.	.	0.950	0.860*	90		-57	3637.4004	
	27483.249	0										.	.	.						3637.5432	
2	27482.840	3		15698.815-		42581.655	0	.	.	1.5-	1.5	.	.	.	1.079	0.790*	289			3637.5973	
1	27482.495	6		33627.017-		6144.515	-7	2.0-	3.0	2.0-	3.0	1.302	1.473	.171	1.304	1.473	169	18	18	3637.6430	IS*
2	27481.433	0		15641.100-		43122.525	8	.	.	3.5-	2.5	.	.	.	1.040	0.000*	0			3637.7836	
2	27481.068	0		17242.750-		44723.835	-17	.	.	2.5-	2.5	.	.	.	1.200	0.810*	390			3637.8319	
	27480.571	2										.	.	.						3637.8977	
	27479.578	1										.	.	.						3638.0291	
2	27479.004	3		34757.860-		7278.862	6	.	.	3.5-	4.5	.	.	.	1.202	1.545	343	+	52	3638.1051	
	27478.616	0										.	.	.						3638.1565	
	27478.216	2										.	.	.						3638.2095	
	27475.903	0										.	.	.						3638.5158	
2	27475.339	1		46141.340-		18566.006	5	.	.	1.5-	2.5	.	.	.	0.960	1.365*	405			3638.5904	
	27474.821	2										.	.	.						3638.6590	
	27474.562	1										.	.	.						3638.6934	
1	27474.079	8		37712.550-		10238.473	2	5.0-	6.0	5.0-	6.0	1.166	1.433	.267	1.164	1.431	267	-63	-63*	3638.7573	
	27473.499	2										.	.	.						3638.8341	
	27472.209	0										.	.	.						3639.0050	
	27471.799	18										.	.	.						3639.0593	
2	27471.642	38		33189.610-		5717.976	8	.	.	2.5-	3.5	.	.	.	1.121	1.596	475		-57	3639.0801	
	27471.018	0										.	.	.						3639.1628	
	27470.547	1										.	.	.						3639.2252	
	27469.761	1										.	.	.						3639.3293	
	27469.310	0										.	.	.						3639.3891	
	27468.759	2										.	.	.						3639.4621	
	27468.222	0										.	.	.						3639.5332	
2	27466.309	7		27466.315-		0.000	-6	1.5-	0.5	1.5-	0.5	1.797	3.155	1358	1.793	3.150	1357		151	3639.7867	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	27466.143	3																	3639.8087	
	27465.133	0																	3639.9426	
	27463.838	1																	3640.1102	
	27463.238	0																	3640.1937	
	27463.026	0																	3640.2218	
	27462.541	0																	3640.2861	
	27462.349	0																	3640.3116	
	27461.260	0																	3640.4560	
	27460.356	1																	3640.5758	
2	27459.948	0	20689.110	-	48149.055	3	.	.	3.5-	3.5	.	.	.	1.270	0.980*	290		3640.6299		
	27459.244	1																	3640.7232	
	27458.823	0																	3640.7791	
	27458.408	0																	3640.8341	
	27458.050	3																	3640.8816	
2	27457.688	0	39465.195	-	12007.503	-4	.	.	2.5-	1.5	.	.	.	1.070	-0.019	1089		3640.9296		
	27457.395	1																	3640.9683	
	27456.645	1																	3641.0679	
	27456.328	3																	3641.1099	
	27455.692	0																	3641.1943	
	27455.322	0																	3641.2433	
	27455.125	3																	3641.2693	
	27454.627	2																	3641.3355	
	27453.953	1																	3641.4249	
	27453.481	4					2.0-	1.0			.36	.83	.47					3641.4875		
	27452.995	1																	3641.5520	
	27452.648	3																	3641.5980	
	27451.684	0																	3641.7259	
	27451.395	1																	3641.7642	
2	27450.867	5	39250.070	-	11799.241	38	4.5-	4.5	4.5-	5.5	.	.	.235	1.155	1.373	218	100	3641.8343		
1	27450.397	1	9386.801	-	36837.190	8*	.	.	5.0-	5.0	.	.	.	0.801	0.965	164		3641.8966		
	27449.864	1																	3641.9674	
	27449.435	1																	3642.0243	
	27449.042	4																	3642.0764	
1	27448.731	4	35223.380	-	7774.653	4	3.0-	4.0	3.0-	4.0	1.24	1.46	.220	1.240	1.463*	223	-40	-40*	3642.1177	IS*
	27448.124	0																	3642.1982	
	27446.024	0																	3642.4769	
	27445.323	0																	3642.5700	
1	27444.679	3	6313.866	-	33758.523	22	.	.	4.0-	5.0	.	.	.	0.487	0.830	343	-219	-235	3642.6554	
	27444.371	1																	3642.6963	
	27443.327	0																	3642.8349	
	27442.856	1																	3642.8974	
	27442.099	0																	3642.9979	
	27441.578	0																	3643.0644	
	27441.108	0																	3643.1295	
	27440.869	0																	3643.1612	
	27440.348	0																	3643.2304	
1	27439.867	6	33584.384	-	6144.515	-2	3.0-	3.0	3.0-	3.0	1.057	1.469	.412	1.058	1.473	415	26	26	3643.2942	IS*
	27439.633	4																	3643.3253	
	27438.892	1																	3643.4237	
	27438.616	2																	3643.4604	
2	27437.672	1	15641.100	-	43078.770	2	.	.	3.5-	2.5	.	.	.	1.040	0.840*	200			3643.5857	
1	27436.200	5	8768.139	-	35204.345	-6	2.0-	3.0	2.0-	3.0	.378	1.218	.840	0.362	1.200	838	-189	-189	3643.7812	
1	27435.240	1	12159.465	-	39594.680	25*	.	.	4.0-	4.0	.	.	.	0.844	1.070	226			3643.9087	
	27434.966	1																	3643.9451	
	27434.685	1																	3643.9824	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	27434.392	2																	3644.0213	
	27433.899	0																	3644.0868	
	27433.608	0																	3644.1255	
	27432.730	0																	3644.2421	
2	27432.433	2	15641.100-43073.510		28	.	.	3.5-	4.5	.	.	.	.	1.040	0.950*	90		-184*	3644.2809	
	27432.264	0																	3644.3040	
1	27431.698	3	10486.922-37918.620		0	.	.	1.0-	1.0	.	.	.	.	0.355	0.690	335			3644.3792	
	27431.318	1																	3644.4297	
	27431.129	0																	3644.4548	
1	27430.521	6	33575.046- 6144.515		-10	3.0-	3.0	3.0-	3.0	1.067	1.479	.412		1.056	1.473	417	10	10	3644.5356	IS*
2	27427.574	0	34925.920- 7498.364		18	.	.	2.5-	2.5	.	.	.	.	1.115	1.321	206		50*	3644.9272	
1	27425.193	6	31724.867- 4299.659		-15	2.0-	2.0	2.0-	2.0	1.010	1.478	.468		1.016	1.482	466	-62	-76	3645.2437	
1	27424.326	5	36603.601- 9179.262		-13	4.0-	5.0	4.0-	5.0	1.134	1.454	.320		1.134	1.454	320		-7	3645.3589	
	27423.997	1																	3645.4026	
	27423.757	4																	3645.4345	
	27422.981	1																	3645.5377	
	27422.227	1																	3645.6379	
2	27421.631	1	15657.156-43078.770		17	.	.	2.5-	2.5	.	.	.	.	1.000	0.840*	160			3645.7172	
	27420.192	5											.179					-229	3645.9085	DJO
	27419.667	0																	3645.9783	
	27418.367	0																	3646.1512	
2	27417.867	0	20063.650-47481.485		32	.	.	4.5-	3.5	.	.	.	.	1.049	1.000	49			3646.2177	
	27417.461	1																	3646.2717	
	27417.150	1																	3646.3130	
	27416.577	0																	3646.3893	
	27416.072	0																	3646.4564	
	27415.398	0																	3646.5461	
1	27414.052	5	33558.579- 6144.515		-12	4.0-	3.0	4.0-	3.0	1.032	1.443	.411		1.059	1.473	414	-37	-52	3646.7251	IS*
	27413.708	0																	3646.7709	
1	27412.832	2	11747.245-39160.120		7*	.	.	0.0-	1.0	.	.	.	.	0.000	1.230	0			3646.8808	
	27412.653	2																	3646.9112	
	27412.207	2																	3646.9706	
1	27410.962	2	6313.866-33724.837		-9	.	.	4.0-	3.0	.	.	.	.	0.487	1.160	673		-237	3647.1362	
	27410.705	0																	3647.1704	
	27409.915	4																-356	3647.2755	
	27409.602	0																	3647.3172	
	27409.343	0																	3647.3517	
	27409.060	2																	3647.3973	
	27408.533	0																	3647.4521	
1	27408.041	2	35182.696- 7774.653		-2	.	.	5.0-	4.0	.	.	.	.	1.037	1.463	426			3647.5249	
	27407.762	2																	3647.5621	
	27407.189	0																	3647.6383	
	27406.627	3																	3647.7131	
2	27405.592	3	33123.580- 5717.976		-12	.	.	2.5-	3.5	.	.	.	.	1.285	1.596	311		115*	3647.8509	
	27404.816	2																	3647.9542	
2	27404.392	6	34902.775- 7498.364		-19	3.5-	2.5	3.5-	2.5	1.143	1.309	.166		1.155	1.321	166		194	3648.0106	
1	27403.562	6	35178.224- 7774.653		-9	3.0-	4.0	3.0-	4.0	1.086	1.474	.388		1.070	1.463	393	66	66	3648.1211	
1	27402.392	5	31702.058- 4299.659		-7	3.0-	2.0	3.0-	2.0	.	.	.402		1.085	1.482	397	32	39	3648.2769	IS*
2	27401.983	2	20073.840-47475.820		3	.	.	5.5-	6.5	.	.	.	.	0.790	1.085*	295			3648.3313	
	27401.520	3																	3648.3930	
2	27400.589	6	36642.955- 9242.355		-10	3.5-	3.5	3.5-	3.5	1.36	1.36			1.356	1.369	13	-28	-47	3648.5169	IS* JQ
	27399.066	1																	3648.7198	
	27397.836	1																	3648.8836	
	27397.690	2																	3648.9030	
2	27397.083	6	34895.470- 7498.364		-23	3.5-	2.5	3.5-	2.5	1.145	1.304	.159		1.165	1.321	156	219	220	3648.9839	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2	ODS - J1	TERM J2	TERM - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
		27396.955	1																		3649.0009	
		27396.814	1																		3649.0197	
1		27396.644	1	11840.715	-	39237.380	-21	.	.	3.0-	2.0	.	.	.	0.811	1.210*	399			3649.0423		
		27396.259	1																		3649.0936	
2		27395.059	7	36033.315	-	8638.233	-23	4.5-	5.5	4.5-	5.5	1.140	1.529	.389	1.134	1.514	380	11	11	3649.2535	IS*	
		27394.641	0																		3649.3091	
		27394.293	4																		3649.3555	
		27393.786	0																		3649.4230	
		27393.570	0																		3649.4518	
2		27392.868	3	13013.685	-	40406.550	3	.	.	5.5-	4.5	.	.	.	0.950	1.090*	140			3649.5453		
2		27392.725	0	21991.980	-	49384.725	-20	.	.	2.5-	2.5	.	.	.	1.344	0.930*	414			3649.5644		
		27391.995	3																		3649.6617	
		27390.717	1																		3649.8320	
1		27389.932	1	11840.715	-	39230.610	37*	.	.	3.0-	4.0	.	.	.	0.811	1.090*	279			3649.9366		
		27389.243	1B																		3650.0284	
2		27389.141	2B	8709.640	-	36098.770	11	.	.	3.5-	4.5	.	.	.	0.308	1.029	721	-093	-73	3650.0420		
		27388.872	0																		3650.0778	
		27388.216	0																		3650.1653	
2		27386.598	4	39185.820	-	11799.241	19	5.5-	5.5	5.5-	5.5	.	.	.060	1.313	1.373	60	-28	-17*	3650.3309	IS*	
		27385.851	5											.254							3650.4805	
		27385.516	1																		3650.5251	
		27384.484	1																		3650.6627	
		27384.153	0																		3650.7068	
		27383.765	0																		3650.7586	
2		27383.228	3	15557.156	-	43040.400	-16	2.5-	1.5	2.5-	1.5	.	.	.260	1.000	0.740*	260			3650.8302		
		27381.751	1																		3651.0271	
		27381.359	1																		3651.0794	
		27381.059	1																		3651.1194	
		27380.792	0																		3651.1550	
		27379.522	1																		3651.3243	
		27379.336	1																		3651.3492	
2		27378.854	8	29393.835	-	2014.966	-15	0.5-	1.5	0.5-	1.5	-0.515	1.880	2.39	-0.516	1.881	2397	-85	-98	3651.4134		
		27378.321	0																		3651.4845	
		27377.984	0																		3651.5295	
		27377.897	0																		3651.5411	
		27377.718	1																		3651.5650	
1		27377.420	6	37615.923	-	10238.473	-30	5.0-	6.0	5.0-	6.0	1.117	1.446	.329	1.095	1.431	336	-52	-69	3651.6047		
		27377.070	1																		3651.6514	
		27376.634	1																		3651.7095	
		27374.696	0																		3651.9681	
		27374.322	1																		3652.0180	
		27374.054	1																		3652.0537	
		27373.814	1																		3652.0857	
		27372.878	1																		3652.2106	
2		27372.286	6	34651.175	-	7278.862	-27	3.5-	4.5	3.5-	4.5	1.027	1.529	.502	1.047	1.545	498	87	99	3652.2896		
		27371.958	1																		3652.3334	
		27371.275	0																		3652.4245	
2		27370.811	1	36613.145	-	9242.356	22	.	.	4.5-	3.5	.	.	.	1.010	1.369*	359			3652.4864		
		27370.180	0																		3652.5707	
		27369.785	1																		3652.6234	
		27368.530	1																		3652.7909	
		27368.170	3																		3652.8389	
1		27367.675	4	29571.327	-	2203.606	-46	1.0-	1.0	1.0-	1.0	1.132	1.490	.358	1.132	1.495	363	-83	-84	3652.9050	PB	
		27367.333	0																		3652.9506	
		27367.084	0																		3652.9839	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
		27366.303	1B																		3653.0214		
		27365.953	1																			3653.1349	
		27365.268	1																			3653.2263	
		27364.939	0																			3653.2635	
		27364.676	0																			3653.3053	
		27363.997	1																			3653.3960	
1		27363.298	6	33507.825-	6144.515	-12	2.0-	3.0	2.0-	3.0		1.112	1.473	.361	1.109	1.473	364	-37	-37		3653.4893	IS*	
		27361.993	0																			3653.6636	
		27361.774	0																			3653.6928	
2		27360.798	0	18656.277-	46017.075	0	.	.	1.5-	2.5					0.000	0.000*	0				3653.8231		
		27360.168	0																			3653.9073	
		27359.811	0																			3653.9550	
		27359.493	2																			3653.9974	
		27359.220	0																			3654.0339	
		27358.810	0																			3654.0887	
		27358.489	2																			3654.1315	IS*
1		27357.951	1	12351.522-	39709.460	13*	.	.	6.0-	5.0					0.995	1.070	75		-243		3654.2034		
1		27357.497	6	31657.182-	4299.659	-26	.	.	2.0-	2.0					0.000	1.482*	0	15	15		3654.2640	IS* PB	
		27357.214	1																			3654.3018	
1		27356.838	5	31656.500-	4299.659	-3	1.0-	2.0	1.0-	2.0	.899	1.480	.581	0.901	1.482	581	-45	-45			3654.3521	PB	
		27354.958	3																			3654.6032	
		27354.807	1																			3654.6234	
2		27353.696	5	8198.666-	35552.385	-23	2.5-	3.5	2.5-	3.5	.406	.895	.489	0.414	0.903	489	-624	-623			3654.7718		
		27353.313	1																			3654.8230	
2		27353.000	1	39152.255-	11799.241	-14	.	.	4.5-	5.5					1.187	1.373	186				3654.8648		
		27352.678	1																			3654.9079	
		27352.292	0																			3654.9594	
2		27351.439	2	34630.315-	7278.862	-14	.	.	5.5-	4.5					1.155	1.545	390		29		3655.0734		
		27350.885	0																			3655.1475	
1		27350.367	1	13726.661-	41077.010	18	.	.	3.0-	3.0					1.150	1.100	50		-295		3655.2167		
		27349.652	0																			3655.3123	
1		27349.455	0	12159.465-	39508.910	10	.	.	4.0-	3.0					0.844	0.870	26				3655.3386		
		27349.063	0																			3655.3910	
		27348.874	0																			3655.4162	
		27348.251	0																			3655.4995	
		27347.186	0																			3655.6419	
2		27345.898	1	15235.771-	42581.655	14	.	.	0.5-	1.5					1.791	0.790*	1001				3655.8141		
		27345.384	1																			3655.8828	
		27345.239	1																			3655.9022	
1		27343.534	5	36522.818-	9179.262	-22	5.0-	5.0	5.0-	5.0	1.102	1.454	.352	1.104	1.454	350	12	12			3656.1301	IS*	
		27342.634	0																			3656.2505	
		27341.627	0																			3656.3852	
1		27340.961	4	35115.625-	7774.653	-11	4.0-	4.0	4.0-	4.0	1.11	1.46	.352	1.110	1.463	353	-29	-29			3656.4742	IS*	
		27339.725	1																			3656.6395	
2		27339.305	2	32241.375-	5502.060	-10	.	.	1.5-	1.5					1.234	1.169	65		-72		3656.6957		
1		27339.072	1	33483.590-	6144.515	-3	.	.	4.0-	3.0					1.022	1.473	451		47		3656.7269		
1		27338.567	6	29542.214-	2203.606	-41	2.0-	1.0	2.0-	1.0	1.309	1.506	.197	1.298	1.495	197	24	24			3656.7944	IS*	
2		27338.500	0	27338.500-	0.000	0	1.5-	0.5	1.5-	0.5				2.32	0.876	3.150	2274		42		3656.8034	SIGMA*	
		27337.941	0																			3656.8782	
		27337.682	0																			3656.9128	
		27336.420	0																			3657.0816	
1		27335.932	3	12177.963-	39513.870	25*	1.0-	1.0	1.0-	1.0	.52	.96	.44	0.525	0.965	440	-262	-262			3657.1469		
		27335.643	0																			3657.1849	
		27334.023	1C																			3657.4023	HAZY
		27333.147	1																			3657.5196	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1	J2 - J1			J2 - J1
	27332.066	0																		3657.6642	
	27330.971	1																		3657.8108	
2	27329.466	3	39336.975-12007.503		-6		.	.	1.5-	1.5					0.780-0.019*	799	-196		3658.0122		
	27329.241	1																		3658.0423	
2	27328.781	3	11504.095-32832.875		1		.	.	3.5-	4.5					0.859 0.995	136		-571	3658.1039		
1	27328.282	4	35102.955- 7774.653		-20		3.0-	4.0	3.0-	4.0	1.40	1.47	.07		1.390 1.463*	73	-95	-95	3658.1707		
2	27328.038	4	39127.295-11799.241		-16		5.5-	5.5	5.5-	5.5			.195		1.179 1.373	194		64*	3658.2034		
	27327.620	1																		3658.2593	
	27327.245	1																		3658.3095	
2	27326.212	3	30562.000- 3235.770		-18		0.5-	0.5	0.5-	0.5	2.680	.287	2393		2.689 0.299	2390		78	3658.4478		
	27324.157	0																		3658.7230	
	27323.906	0																		3658.7566	
	27323.250	1B																		3658.8444	
2	27322.759	2	16499.640-4322.335		64		.	.	3.5-	2.5					0.773 0.950*	177		-134*	3658.9102		
1	27322.426	3	12159.465-39481.900		-9		.	.	4.0-	5.0					0.844 1.165	321		-276	3658.9548		
	27322.164	0																		3658.9899	
	27321.620	1																		3659.0627	
	27321.498	1																		3659.0790	
	27320.934	1																		3659.1546	
2	27320.042	3	17532.937-44853.015		-36		.	.	3.5-	2.5					1.238 0.920*	318			3659.2741		
	27319.776	1																		3659.3097	
1	27319.548	2	12159.465-39479.000		13		.	.	4.0-	3.0					0.844 0.970	126			3659.3402		
	27319.234	1																		3659.3823	
2	27318.700	7	52220.775- 5502.060		-15		2.5-	1.5	2.5-	1.5	1.308	1.158	.150		1.315 1.169	146	-19	-54	3659.4538	IS*	
	27318.037	0																		3659.5426	
2	27317.687	1	35955.905- 8638.233		15		.	.	6.5-	5.5					1.140 1.514*	374		42	3659.5895		
	27317.260	0																		3659.6467	
	27316.792	0																		3659.7094	
	27316.302	1																		3659.7751	
	27315.696	1																		3659.8563	
2	27314.522	6	31284.370- 3969.846		-2		3.5-	2.5	3.5-	2.5	1.103	1.660	.557		1.114 1.670	556	+	-19	3660.0136		
2	27313.942	1	19277.180-46591.055		67		.	.	3.5-	3.5					0.847 1.100	253			3660.0913		
	27312.999	1																		3660.2177	
	27312.633	0																		3660.2667	
1	27311.800	7	33456.315- 6144.515		0		4.0-	3.0	4.0-	3.0	1.197	1.460	.263		1.207 1.473	266	-17	-17	3660.3784	IS*	
2	27309.417	5	14295.565-41605.005		-23		3.5-	2.5	3.5-	2.5	.780	.935	.155		0.790 0.935	145	-138	-138	3660.6978	SO	
	27309.070	0																		3660.7443	
	27308.954	0																		3660.7598	
2	27308.254	3	37016.265- 9707.980		-31		.	.	5.5-	6.5					1.150 1.485	335			3660.8537		
1	27307.340	2	12159.465-39466.835		-30		.	.	4.0-	5.0					0.844 1.065	221		-216	3660.9762		
	27306.827	0																		3661.0450	
	27306.122	2																		3661.1395	
	27305.457	0																		3661.2287	
	27305.208	0																		3661.2621	
2	27304.899	2	31274.745- 3969.846		0		.	.	2.5-	2.5					1.200 1.670*	470		31*	3661.3035		
	27304.590	0																		3661.3449	
	27304.157	0																		3661.4030	
	27303.616	1																		3661.4756	
2	27302.720	1	36545.045- 9242.356		31		.	.	2.5-	3.5					1.330 1.369	39		85	3661.5957		
	27302.050	0																		3661.6856	
	27301.706	0																		3661.7317	
2	27301.185	5	33019.160- 5717.976		1		3.5-	3.5	3.5-	3.5	1.162	1.596	.434		1.160 1.596	436		-15	3661.8016		
	27300.722	2																		3661.8637	
	27300.332	2																		3661.9160	
2	27300.157	0	15778.634-43078.770		21		.	.	1.5-	2.5					1.133 0.840*	293			3661.9395		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
2	27299.426	3	13013.685	-	40313.110	1	.	.	5.5-	4.5	.	.	.	0.950	1.010	60	-315		3662.0375	
	27299.225	0					.	.			.	.	.						3662.0644	
	27298.972	2					.	.			.	.	.						3662.0985	
	27298.512	1					.	.			.	.	.						3662.1602	
	27297.174	0					.	.			.	.	.						3662.3397	
	27296.945	0					.	.			.	.	.						3662.3704	
2	27294.801	5	8198.666	-	35493.485	-18	2.5-	3.5	2.5-	3.5	.419	.936	.517	0.414	0.931	517	-596	-596	3662.6581	
	27294.532	1					.	.			.	.	.						3662.6942	
	27294.098	2					.	.			.	.	.						3662.7524	
	27293.678	1					.	.			.	.	.						3662.8088	
	27293.474	0					.	.			.	.	.						3662.8362	
	27293.231	3					.	.			.	.	.						3662.8688	
	27292.416	1					.	.			.	.	.						3662.9782	
	27292.239	1					.	.			.	.	.						3663.0019	
	27291.681	2					.	.			.	.	.						3663.0768	
1	27290.636	3	6313.866	-	33604.497	5	.	.	4.0-	3.0	.	.	.	0.487	1.210	723	-186	-178	3663.2171	
1	27289.794	4	9386.801	-	36676.620	-25	.	.	5.0-	4.0	.	.	.35	0.801	1.150*	349	-349	-354	3663.3301	DJ1
	27288.595	0					.	.			.	.	.						3663.4911	
2	27288.157	1	17073.340	-	44361.495	2	.	.	1.5-	2.5	.	.	.	0.576	0.850*	274			3663.5499	
2	27287.834	1	19277.180	-	46565.005	9	.	.	3.5-	4.5	.	.	.	0.847	1.040*	193			3663.5932	
	27287.171	2					.	.			.	.	.						3663.6823	
2	27286.924	5	38013.250	-	10726.322	-4	5.5-	4.5	5.5-	4.5	1.086	1.327	.241	1.145	1.391	246	64		3663.7154	
2	27286.090	7	31255.945	-	3969.846	-9	1.5-	2.5	1.5-	2.5	.916	1.667	.751	0.921	1.670	749	-	-17	3663.8274	
	27284.327	1H					.	.			.	.	.						3664.0642	
	27283.443	0					.	.			.	.	.						3664.1829	
1	27283.130	1	6313.866	-	33596.975	21	.	.	4.0-	5.0	.	.	.	0.487	1.315	828	-313	-209	3664.2249	ISQ
	27282.549	3					.	.			.	.	.						3664.3029	
2	27282.333	2	39081.580	-	11799.241	-6	.	.	4.5-	5.5	.	.	.	1.207	1.373	166		-42	3664.3320	
	27282.155	0					.	.			.	.	.						3664.3557	
2	27281.077	3	16362.000	-	43643.060	17	.	.	4.5-	3.5	.	.	.	1.050	0.990*	60			3664.5007	
	27280.448	2					.	.			.	.	.						3664.5852	
	27280.174	1					.	.			.	.	.						3664.6220	
	27279.440	1					.	.			.	.	.						3664.7206	
	27279.212	0					.	.			.	.	.						3664.7512	
	27278.501	2					.	.			.	.	.						3664.8467	
2	27277.861	4	32995.835	-	5717.976	2	4.5-	3.5	4.5-	3.5	.	.	.432	1.164	1.596	432		61	3664.9327	
	27277.233	0					.	.			.	.	.						3665.0171	
	27275.308	0					.	.			.	.	.						3665.2758	
	27275.082	0					.	.			.	.	.						3665.3061	
	27274.417	5					7.5-	7.5			.	.	.196				60		3665.3955	Q JQ
2	27273.728	1	19317.370	-	46591.055	43	.	.	4.5-	3.5	.	.	.	1.225	1.100	125			3665.4881	
	27273.372	1					.	.			.	.	.						3665.5359	
	27271.314	2					.	.			.	.	.						3665.8126	
	27270.918	1					.	.			.	.	.						3665.8658	
	27270.699	1					.	.			.	.	.						3665.9759	
	27269.689	0					.	.			.	.	.						3666.0310	
	27269.472	1					.	.			.	.	.						3666.0602	
2	27269.142	4	36977.120	-	9707.930	2	5.5-	6.5	5.5-	6.5	1.125	1.485	.360	1.125	1.485	360	-	-20*	3666.1046	JQ
1	27268.132	0	14912.011	-	42180.150	43*	.	.	4.0-	4.0	.	.	.	0.496	1.020*	524			3666.2336	
	27267.363	1					.	.			.	.	.						3666.3438	
	27266.804	0					.	.			.	.	.						3666.4189	
	27266.334	0					.	.			.	.	.						3666.4821	
	27265.903	2					.	.			.	.	.						3666.5394	
	27265.002	0					.	.			.	.	.						3666.6613	
	27264.084	0					.	.			.	.	.						3666.7847	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	G2	G1											DG	G2	G1	DG	IS	IS
2	27263.101	4	35901.360-	8638.233	-26	5.5-	5.5	5.5-	5.5	.	.	.499	1.015	1.514	499	+	64*	3666.9169		
	27262.761	1				.	.	.	.	.	.	.						3666.9627	
	27262.057	2				.	.	.	.	.	.	.						3667.0574	
	27261.414	4				.	.	.	.	.	.	.						3667.1438	
1	27260.684	7	33405.200-	6144.515	-1	2.0-	3.0	2.0-	3.0	1.273	1.472	.199	1.272	1.473	201	-102	-20	3667.2421	IS*	
	27260.196	1				.	.	.	.	.	.	.						3667.3077	
	27260.008	0				.	.	.	.	.	.	.						3667.3330	
2	27259.495	5	34757.860-	7498.364	-1	3.5-	2.5	3.5-	2.5	1.153	1.271	.118	1.202	1.321	119	68	68	3667.4020		
2	27253.612	2	39057.820-	11799.241	33	.	.	4.5-	5.5	.	.	.	1.156	1.373	217		187	3667.5208		
	27256.620	0				.	.	.	.	.	.	.						3667.7808	
1	27256.335	0	11840.715-	39097.075	-25	.	.	3.0-	3.0	.	.	.	0.811	1.345	534			3667.8272		
	27256.035	0				.	.	.	.	.	.	.						3667.8609	
	27255.532	2				.	.	.	.	.	.	.						3667.9285	
	27253.926	4				.	.	.	.	.	.	.						3668.1514	DJ1
1	27253.021	4	8768.139-	36021.165	-5	2.0-	3.0	2.0-	3.0	.36	1.05	.69	0.362	1.048	686	-98	-156	3668.2732		
	27251.440	1				.	.	.	.	.	.	.						3668.4861	
2	27251.204	3	37439.680-	10188.463	-13	0.5-	0.5	0.5-	0.5	.	.	.65	1.110	2.402*	1292			3668.5178		
	27251.054	1				.	.	.	.	.	.	.						3668.5380	
	27250.102	2H				.	.	.	.	.	.	.						3668.6662	
1	27249.758	4	8768.139-	36017.900	-3	2.0-	1.0	2.0-	1.0	.360	.916	.556	0.362	0.910	548	-241	-241	3668.7125		
	27249.554	1				.	.	.	.	.	.	.						3668.7400	
	27248.780	0				.	.	.	.	.	.	.						3668.8442	
	27248.491	2				.	.	.	.	.	.	.						3668.8831	
2	27247.653	3B	19317.370-	46565.005	18	.	.	4.5-	4.5	.	.	.	1.225	1.040*	185			3668.9959		
1	27247.565	3B	12322.613-	39570.175	3	.	.	2.0-	2.0	.	.	.	1.036	1.150*	114	-246	-260*	3669.0078		
1	27246.431	2	33390.950-	6144.515	-4*	.	.	3.0-	3.0	.	.	.	1.050	1.473	423		-42	3669.1605		
	27245.080	0				.	.	.	.	.	.	.						3669.3424	
2	27244.746	0	29259.700-	2014.966	12	.	.	1.5-	1.5	.	.	.	1.250	1.881	631		-30	3669.3874		
	27244.562	0				.	.	.	.	.	.	.						3669.4122	
	27242.900	0				.	.	.	.	.	.	.						3669.6361	
	27241.975	1				.	.	.	.	.	.	.						3669.7607	
	27241.800	1				.	.	.	.	.	.	.						3669.7842	
1	27241.077	2U	9386.801-	36627.825	53	5.0-	4.0	5.0-	4.0	.	.	.	0.801	0.980	179		-179	3669.8817	PB	
1	27239.738	4	33384.270-	6144.515	-17	.	.	4.0-	3.0	.	.	.	1.080	1.473*	393	-144	-144	3670.0621		
	27238.778	2				.	.	.	.	.	.	.						3670.1914	
	27238.660	1				.	.	.	.	.	.	.						3670.2073	
	27237.824	0				.	.	.	.	.	.	.						3670.3200	
	27236.865	1				.	.	.	.	.	.	.						3670.4492	
	27235.568	0				.	.	.	.	.	.	.						3670.4892	
	27236.225	0				.	.	.	.	.	.	.						3670.5354	
1	27235.515	6	36414.798-	9179.262	-21	4.0-	5.0	4.0-	5.0	1.11	1.45	.34	1.100	1.454*	354	-107	-119	3670.6311	PB	
2	27235.160	5	36943.155-	9707.980	-15	6.5-	6.5	6.5-	6.5	.	.	.387	1.098	1.485	387		-80*	3670.6790	PB	
	27234.277	1				.	.	.	.	.	.	.						3670.7980	
	27233.818	1				.	.	.	.	.	.	.						3670.8599	
	27233.429	1				.	.	.	.	.	.	.						3670.9123	
	27233.091	1H				.	.	.	.	.	.	.						3670.9579	
	27232.524	1				.	.	.	.	.	.	.						3671.0343	
	27232.074	2				.	.	.	.	.	.	.						3671.0950	
	27231.359	1				.	.	.	.	.	.	.						3671.1913	
	27231.151	1				.	.	.	.	.	.	.						3671.2194	
2	27230.810	5	37957.130-	10726.322	2	4.5-	4.5	4.5-	4.5	.	.	.236	1.160	1.391	231			3671.2654		
	27230.592	3				.	.	.	.	.	.	.						3671.2948	
	27229.963	0				.	.	.	.	.	.	.						3671.3796	
	27229.724	0				.	.	.	.	.	.	.						3671.4118	
2	27228.382	1	16593.963-	43822.335	10	.	.	2.5-	2.5	.	.	.	0.983	0.950*	33		-170*	3671.5927		

C	HAVE:NUMBER	I	T2	-	T1	C-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAWELENGTH	NOTES
1	27228.180	6	27223.191-		0.000	-11	1.0-	0.0	1.0-	0.0	1.767	.000		1.767	0.000	0		-83	3671.6200	
2	27227.985	2	36470.320-	9242.356		21	. -	.	3.5-	3.5	.	.		1.172	1.369	197			3671.6463	
	27227.302	2																	3671.7384	
	27226.997	0																	3671.7795	
	27226.521	2																	3671.8437	
	27225.711	1																	3671.9530	
	27225.353	0																	3672.0012	
	27225.124	0																	3672.0321	
2	27224.901	0	40951.155-	13726.318		64	. -	.	2.5-	2.5	.	.		1.015	0.784	231			3672.0622	
	27224.544	4																	3672.1104	DJO
2	27223.988	6	36931.980-	9707.980		-12	5.5-	6.5	5.5-	6.5	1.236	1.504	.268	1.214	1.485	271	204	204	3672.1854	
	27223.785	1																	3672.2127	
	27223.583	2																	3672.2400	
	27222.832	0																	3672.3454	
	27221.633	1																	3672.5031	
	27221.120	0																	3672.5723	
	27220.695	1																	3672.6296	
	27220.624	1																	3672.6392	
	27219.268	0																	3672.8222	
	27219.052	1																	3672.8513	
1	27218.173	2U	37456.630-	10238.473		16	. -	.	5.0-	6.0	.	.		1.085	1.431	346			3672.9699	HAZY
2	27217.412	4	13809.910-	41027.335		-13	4.5-	4.5	4.5-	4.5	1.96	1.96	.255	0.657	0.895	238			3673.0726	
	27217.118	5W																	3673.1123	HAZY
	27216.834	1																	3673.1506	
	27216.546	0																	3673.1895	
2	27216.310	0	19863.335-	47079.610		35	. -	.	2.5-	2.5	.	.		0.921	0.960*	39			3673.2214	
	27215.862	1																	3673.2818	
	27215.532	0																	3673.3264	
1	27215.117	2	12159.465-	39374.580		2	. -	.	4.0-	3.0	.	.		0.844	0.885	41			3673.3824	
2	27214.538	1	12392.644-	40207.135		47	. -	.	2.5-	2.5	.	.		0.643	1.020*	377			3673.4605	
	27213.833	4																	3673.5489	
1	27213.201	3	12159.465-	39372.685		-19	. -	.	4.0-	5.0	.	.		0.844	1.010*	166			3673.6410	
	27212.419	0																	3673.7466	
	27212.196	0																	3673.7767	
1	27211.900	2	14025.007-	41236.870		37	. -	.	4.0-	4.0	.	.		0.975	1.020	45			3673.8167	
	27211.522	0																	3673.8677	
2	27210.849	0	19277.180-	46488.000		29	. -	.	3.5-	2.5	.	.		0.847	1.000*	153			3673.9586	
	27209.648	0																	3674.1207	
	27209.351	0																	3674.1608	
1	27209.137	2	13726.661-	40935.790		8*	. -	.	3.0-	4.0	.	.		1.150	1.160*	10			3674.1897	
	27208.663	0																	3674.2537	
2	27207.175	3	16362.000-	43569.180		-5	. -	.	4.5-	3.5	.	.		1.050	1.005*	45			3674.4547	
	27205.569	0																	3674.6716	
1	27204.860	5	12159.465-	39364.330		-5	4.0-	5.0	4.0-	5.0	.840	1.125	.286	0.844	1.130	286	-199	-199	3674.7674	IS*
	27204.227	6																	3674.8529	
2	27203.983	7	10436.770-	37640.775		-22	4.5-	5.5	4.5-	5.5	.714	.700	.014	0.724	0.700*	24	266	258	3674.8858	
	27202.633	0																	3675.0608	
	27202.204	0																	3675.1262	
	27201.030	2																	3675.2848	
	27200.301	1																	3675.3833	
	27199.466	2																	3675.4962	
	27199.189	0																	3675.5336	
	27198.699	1																	3675.5998	
2	27198.262	0	43943.935-	16745.720		47	. -	.	1.5-	2.5	.	.		1.095	1.671	576			3675.6589	
2	27197.965	2	38997.205-	11799.241		1	. -	.	5.5-	5.5	.	.		1.073	1.373	300		210	3675.6990	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	G6		G2			G1	G6	IS	IS
	27196.859	0																			
1	27196.121	5	33340.653-	6144.515	-17		2.0-	3.0	2.0-	3.0	.69	1.47	.78	0.690	1.473*	783	-61	-68	3675.8485	IS*	
	27195.569	4																	3675.9482		
	27195.180	4																	3676.0228		
	27194.192	0																	3676.0754		
2	27193.666	4	35831.915-	8638.233	-16		.	.	4.5-	5.5				1.170	1.514*	344			3676.2090		
1	27192.920	4	36372.210-	9179.262	-28*		.	.	4.0-	5.0			.375	1.082	1.454	372		-9	3676.2801	DJ1	
	27192.359	0																	3676.3810		
	27191.736	0																	3676.4568		
2	27190.893	1	17532.937-	44723.835	-5		.	.	3.5-	2.5				1.238	0.810*	428			3676.5410		
2	27190.527	5	31160.405-	3969.846	-32		3.5-	2.5	3.5-	2.5	.991	1.689	.698	0.978	1.670	692	329	320	3676.6550		
	27190.174	1																	3676.7045		
1	27189.822	5	34964.470-	7774.653	5		4.0-	4.0	4.0-	4.0			.382	1.081	1.463	382		-5	3676.7523		
	27188.877	0																	3676.7999		
	27188.160	0																	3676.9277		
	27187.684	0																	3677.0246		
	27137.455	0																	3677.0890		
	27184.721	1																	3677.1200		
1	27184.189	7	6313.866-	33498.071	-16		4.0-	3.0	4.0-	3.0	.476	.766	.290	0.487	0.770	283	-178	-181	3677.4898		
	27183.720	2																	3677.5618		
2	27182.742	2	29197.755-	2014.966	-47		.	.	2.5-	1.5				0.989	1.881	892		41	3677.6252		
1	27182.702	2	8768.139-	35950.800	41		.	.	2.0-	3.0				0.362	1.005	643			3677.7575		
	27182.271	1																	3677.7629		
2	27181.684	3	34460.555-	7278.862	-9		.	.	5.5-	4.5				1.066	1.545	479		-101*	3677.8213		
	27181.220	3																	3677.9007		
	27180.411	2																	3677.9635		
	27178.670	2																	3678.0729		
	27178.407	0																	3678.3086		
2	27177.809	0	37904.140-	10726.322	-9		.	.	3.5-	4.5				1.275	1.391	116		-6*	3678.3442		
	27177.530	1																	3678.4251		
1	27176.866	6	6313.866-	33490.744	-12		4.0-	5.0	4.0-	5.0	.484	1.081	.597	0.487	1.084	597	-234	-233	3678.4629		
	27176.478	1																	3678.5527		
2	27175.816	3B	32893.805-	5717.976	-13		.	.	4.5-	3.5				0.980	1.596*	616		103	3678.6053		
	27175.689	1B																	3678.6949		
	27175.541	1																	3678.7133		
	27174.923	1																	3678.7321		
	27174.827	2																	3678.8158		
	27174.458	0																	3678.8288		
	27173.879	0																	3678.8787		
	27173.582	1																	3678.9571		
2	27173.170	3	34452.020-	7278.862	12		.	.	3.5-	4.5				1.215	1.545	330			3678.9973		
	27172.462	0																	3679.0531		
	27171.801	1																	3679.1490		
1	27170.561	0	31470.224-	4299.659	-4		.	.	3.0-	2.0				1.070	1.482*	412		37	3679.2385		
	27170.357	1																	3679.4064		
	27169.950	0																	3679.4340		
2	27168.762	7	32670.835-	5502.060	-13		2.5-	1.5	2.5-	1.5	1.363	1.168	.195	1.361	1.169	192		-29	3679.4891		
	27167.943	2																	3679.6500		
	27166.714	1H																	3679.7609		
	27166.263	0																	3679.9274		
1	27165.601	1	14692.549-	41658.135	15		.	.	2.0-	3.0				0.292	1.090	798			3679.9885		
	27164.972	1																	3680.0782		
2	27164.786	2	14295.565-	41460.320	31		.	.	3.5-	3.5				0.790	0.980*	190			3680.1634		
	27163.007	0																	3680.1886		
2	27162.325	7	27162.335-	0.000	-10		1.5-	0.5	1.5-	0.5	1.049	3.143	2094	1.046	3.150	2104		-25	3680.4296		
																			3680.5221		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1		G2	G1	DG	G2	G1	DG	IS			IS
	27160.823	2																	3680.7256		
	27160.066	2																	3680.8282		
	27159.838	2																	3680.8591		
1	27158.931	0	12177.963-39336.870			24	.	.	1.0-	1.0	.	.	.	0.525	1.025	500		-253	3680.9820		
	27158.601	3					.	.			.	.	.					-232	3681.0267		
	27158.024	2					.	.			.	.	.						3681.1050		
	27157.425	3					.	.			.	.	.					-277	3681.1861		
	27157.075	0					.	.			.	.	.						3681.2336		
	27155.702	0					.	.			.	.	.						3681.2842		
	27155.871	0					.	.			.	.	.						3681.3968		
1	27155.296	0	12177.963-39333.250			9	.	.	1.0-	2.0	.	.	.	0.525	0.995	470			3681.4748		
	27155.100	3H					.	.			.	.	.						3681.5013	HAZY	
	27154.404	3H					0.0-	1.0			.000	.971							3681.5849	HAZY	
2	27152.509	4	34651.175- 7498.364			-2	3.5-	2.5	3.5-	2.5	.	.	.276	1.047	1.321	274		115	3681.8120	SO	
	27152.467	0					.	.			.	.	.							3681.8583	
	27152.177	0					.	.			.	.	.							3681.8977	
	27151.475	0					.	.			.	.	.							3681.9929	
2	27151.167	3	15641.100-42792.230			37	.	.	3.5-	3.5	.	.	.	1.040	0.900*	140			3682.0346		
	27150.397	0					.	.			.	.	.							3682.1391	
	27149.416	0					.	.			.	.	.							3682.2721	239Q
2	27149.094	5	8198.666-35347.740			20	2.5-	3.5	2.5-	3.5	.431	1.212	.781	0.414	1.195	781		-506 -512	3682.3158		
	27148.554	3					.	.			.	.	.							3682.3890	
2	27148.263	0	12992.644-40140.890			17	.	.	2.5-	2.5	.	.	.	0.643	0.720*	77			3682.4285		
	27147.939	1					.	.			.	.	.							3682.4725	239 Q
1	27147.614	2	6313.866-33461.419			61	.	.	4.0-	3.0	.	.	.	0.487	0.950*	463		-334 -296	3682.5165	ISQ	
	27147.425	0					.	.			.	.	.							3682.5422	
	27146.521	2H					.	.			.	.	.							3682.6648	
	27146.304	0					.	.			.	.	.							3682.6943	
	27145.163	1					.	.			.	.	.							3682.8491	
2	27144.620	7	10436.770-37581.395			-5	4.5-	3.5	4.5-	3.5	.68	.68		0.724	0.748	24		-120	3682.9227	SO	
2	27143.415	0	16499.640-43643.060			-5	.	.	3.5-	3.5	.	.	.	0.773	0.990*	217			3683.0862		
	27143.250	1					.	.			.	.	.							3683.1086	
2	27143.015	2	41133.945-13990.952			22	1.5-	1.5	1.5-	1.5	.	.	.	1.210	1.728*	518			3683.1405		
	27142.837	1					.	.			.	.	.							3683.1647	
	27142.562	1					.	.			.	.	.							3683.2020	
	27142.300	0					.	.			.	.	.							3683.2375	
	27141.318	0					.	.			.	.	.							3683.3708	
	27140.513	0					.	.			.	.	.							3683.4801	
2	27140.477	1	19863.335-47003.820			-8	.	.	2.5-	3.5	.	.	.	0.921	0.935	14			3683.4849		
	27140.182	3					.	.			.	.	.							3683.5250	
	27139.779	0					.	.			.	.	.							3683.5797	
	27139.485	3					.	.			.	.	.							3683.6196	
	27139.037	0					.	.			.	.	.							3683.6804	
1	27133.159	8	29341.761- 2203.606			4	2.0-	1.0	2.0-	1.0	1.188	1.496	.308	1.184	1.495	311		0 0	3683.7996	IS*	
	27137.158	0					.	.			.	.	.							3683.9355	
	27135.651	1					.	.			.	.	.							3684.1401	
	27135.264	4					.	.			.	.	.					67		3684.1926	DJO
	27134.306	2					.	.			.	.	.							3684.3227	
	27132.947	1					.	.			.	.	.							3684.5072	
2	27132.425	3	34630.775- 7498.364			14	1.5-	2.5	1.5-	2.5	.	.	.	1.198	1.321	123		112*	3684.5781		
	27132.294	2					.	.			.	.	.							3684.5959	
	27131.581	0					.	.			.	.	.							3684.6927	
1	27130.640	4	33275.150- 6144.515			5	4.0-	3.0	4.0-	3.0	1.272	1.492	.220	1.253	1.473	220			3684.8205		
1	27130.434	2	12351.522-39481.900			56	.	.	6.0-	5.0	.	.	.	0.995	1.165	170		-282	3684.8485		
2	27129.199	0	17242.750-44371.925			24	.	.	2.5-	3.5	.	.	.	1.200	0.970*	230			3685.0163		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	G6	IS	IS			
	27128.890	0																	3685.0582		
	27128.595	2																	3685.0997		
	27128.370	2																	3685.1289		
	27127.921	1																	3685.1899		
	27127.362	0																	3685.2658		
	27126.964	1																	3685.3199		
2	27125.848	3U	31095.675-	3969.846	19	.	.	2.5-	2.5	.	.	.	.	1.170	1.670*	500		47	3685.4715	HAZY
2	27125.340	6	10436.770-	37562.100	10	4.5-	5.5	4.5-	5.5	.758	.984	.226		0.724	0.950	226	-370	-399*	3685.5405		
	27124.247	1																	3685.6890		
	27122.438	0																	3685.9349		
	27122.195	1																	3685.9679		
	27121.709	1																	3686.0339		
	27120.597	1																	3686.1851		
1	27120.372	2	14737.788-	41858.135	25	.	.	3.0-	3.0	.	.	.	.	0.815	1.090	275			3686.2157	
	27119.073	1																	3686.3922		
2	27118.440	1	17296.905-	44415.300	45*	.	.	4.5-	3.5	.	.	.	.	0.494	0.940	446			3686.4783	
	27118.238	1																	3686.5058		
2	27117.483	1	16593.963-	43711.415	31	.	.	2.5-	3.5	.	.	.	.	0.983	0.955	28			3686.6084	
	27117.198	3M				0.0-	1.0												3686.6471		
	27116.891	2																	3686.6889		
1	27116.135	5	33260.650-	6144.515	0	3.0-	3.0	3.0-	3.0	1.013	1.471	.458		1.015	1.473	458	+	8	3686.7917		
1	27115.331	2	12351.522-	39466.835	18	.	.	6.0-	5.0					0.995	1.065	70		-222	3686.9010		
1	27114.547	4	34889.189-	7774.653	11	3.0-	4.0	3.0-	4.0	1.003	1.474	.471		0.990	1.463	473	-70	-75	3687.0076		
	27114.163	1																	3687.0598		
	27113.800	0																	3687.1092		
1	27112.021	6	31411.690-	4299.659	-10	2.0-	2.0	2.0-	2.0	1.290	1.483	.193		1.289	1.482	193	+	-9	3687.3511		
	27111.199	0H															37			3687.4629	HAZY ISQ
	27109.228	0																	3687.7310		
	27108.642	0																	3687.8107		
2	27108.226	2B	16362.000-	43470.195	31	.	.	4.5-	3.5	.	.	.	.	1.050	0.860*	190			3687.8673	
	27107.199	2																	3688.0071		
2	27106.996	1	19466.530-	46573.500	26	.	.	4.5-	5.5					1.151	1.025	126			3688.0347		
2	27106.517	6	37832.845-	10726.322	-6	4.5-	4.5	4.5-	4.5	1.31	1.31	.138		1.250	1.391	141	-52	-58	3688.0999		
	27105.668	0																	3688.2154		
1	27104.777	6	6313.866-	33418.637	6	4.0-	5.0	4.0-	5.0	.480	.864	.384		0.487	0.872	385	-260	-260	3688.3366		
	27104.306	1																	3688.3898		
2	27103.856	1	38903.090-	11799.241	17	.	.	4.5-	5.5	.	.	.	.	1.135	1.373	238			3688.4606	
2	27102.894	5	36345.225-	9242.356	25	3.5-	3.5	3.5-	3.5	.	.	.155		1.214	1.369	155			3688.5929		
	27101.983	1																	3688.7169		
	27101.755	1																	3688.7479		
	27100.092	1																	3688.9743		
	27099.333	1																	3689.0776		
	27098.779	1																	3689.1530		
2	27098.506	0	19466.530-	46565.005	31	.	.	4.5-	4.5	.	.	.	.	1.151	1.040*	111			3689.1902	
	27097.950	0																	3689.2659		
	27097.491	0																	3689.3284		
	27096.174	0																	3689.5077		
1	27095.736	4	29299.312-	2203.606	30	1.0-	1.0	1.0-	1.0	1.304	1.489	.185		1.307	1.495	188	-39	-58	3689.5673	IS*	
1	27095.034	5	37333.515-	10238.473	-8	5.0-	6.0	5.0-	6.0	1.09	1.45	.365		1.065	1.431	366	-43	-51	3689.6629	IS*	
	27094.001	3																	3689.8036		
	27093.306	1																	3689.8983		
2	27092.949	3	37231.410-	10188.463	2	0.5-	0.5	0.5-	0.5	.73	2.40	1.67		0.730	2.402*	1672	+		3689.9469		
	27091.477	0																	3690.1474		
	27091.302	3																	3690.1712		
	27091.089	3				4.0-	5.0										+			3690.2002	JQ

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	27070.638	4																3690.2617	
	27090.439	2																3690.2888	
2	27089.989	7	10436.770	-37526.775	-16	4.5-	4.5	4.5-	4.5	.767	.630	.137	0.724	0.591	133	98	91	3690.3501	
	27039.158	1																3690.4633	
	27087.095	0																3690.7444	
	27083.433	0																3690.8271	
	27085.169	1																3690.8705	
	27085.714	1																3690.9326	
	27085.515	1																3690.9597	
2	27084.761	1	41518.100	-14433.351	12	.	.	2.5-	1.5				1.160	1.925	765			3691.0624	
	27054.409	2																3691.1104	
2	27083.278	7	34362.170	-7278.862	-30	4.5-	4.5	4.5-	4.5	1.178	1.530	.358	1.198	1.545	347	44	60	3691.2645	IS*
2	27032.771	6	34361.635	-7278.862	-2	.	.	5.5-	4.5			.32	1.222	1.545	323	-128	-120	3691.3336	DJ1 SP
	27082.202	1																3691.4112	
	27081.830	0																3691.4551	
	27081.255	0																3691.5403	
	27080.952	0																3691.5816	
2	27079.350	5	35787.360	-9707.980	0	5.5-	6.5	5.5-	6.5				1.150	1.485	335	93	92	3691.7959	
2	27078.213	1B	19277.180	-46355.430	-37	.	.	3.5-	3.5				0.847	0.950	103			3691.9550	
	27078.138	0																3691.9652	
	27076.364	0																3692.2071	
	27076.106	3				0.5-	1.5											3692.2423	JQ
	27075.785	1																3692.2861	
	27075.337	3																3692.3472	
	27074.993	1																3692.3941	
2	27074.162	2	34353.025	-7278.862	-1	.	.	3.5-	4.5				1.199	1.545	346		184	3692.5074	
2	27073.518	3	14476.135	-41549.680	-27*	.	.	4.5-	5.5	1.085			1.060	1.070*	10			3692.5953	f
	27071.583	2																3692.8592	
1	27071.140	3	12159.465	-39230.610	-5*	4.0-	4.0	4.0-	4.0			.25	0.844	1.090*	246	-210	-210	3692.9197	ISQ
	27070.771	0																3692.9700	
2	27069.563	2	16499.640	-43569.180	28	.	.	3.5-	3.5				0.773	1.005	232			3693.1341	
	27067.832	0																3693.3710	
	27067.447	0																3693.4235	
	27067.130	2								1.097								3693.4668	f
2	27067.012	4	13013.685	-40080.685	12	5.5-	5.5	5.5-	5.5	.95	1.05	.10	0.950	1.060*	110	-231	-231	3693.4829	
	27065.935	0																3693.6298	
	27064.926	2																3693.7676	
	27064.559	0																3693.8176	
	27064.167	1																3693.8711	
	27063.917	1																3693.9053	
	27061.800	2																3694.1942	
	27061.291	3																3694.2637	
1	27059.742	0	9724.351	-36784.100	-7	.	.	3.0-	3.0				0.442	1.115	673		-243	3694.4752	
1	27059.442	2	12177.963	-39237.380	25	.	.	1.0-	2.0				0.525	1.210*	685			3694.5162	
2	27059.030	2	15641.100	-42700.125	5	.	.	3.5-	2.5				1.040	0.815*	225			3694.5724	
	27058.651	0																3694.6242	
2	27058.213	0	36300.540	-9242.356	29	.	.	4.5-	3.5				1.142	1.369	227		7	3694.6840	
1	27057.404	2B	6313.866	-33371.251	19	.	.	4.0-	3.0				0.487	1.113	626		-202	3694.7945	
	27057.283	2B																3694.8110	
	27056.331	0																3694.9410	
2	27055.044	4	32558.100	-5502.060	4	.	.	0.5-	1.5			.20	1.370	1.169*	201		79	3694.9802	PB
	27055.633	0																3695.0295	
1	27054.464	8	34829.137	-7774.653	-20	3.0-	4.0	3.0-	4.0	1.152	1.490	.338	1.125	1.463	338	-104	-105	3695.1960	
2	27053.641	7	32555.705	-5502.060	-4	1.5-	1.5	1.5-	1.5	1.19		.17	1.269	1.169	100	-	-25*	3695.3084	f PB
	27052.944	0																3695.4036	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES		
	27052.265	1																				
1	27052.095	2	14025.007-41077.010			2	.	.	4.0-	3.0	.	.	.	0.975	1.100	125		-294	3695.4964			
1	27052.005	2	12322.613-39374.580			38	.	.	2.0-	3.0	.	.	.	1.036	0.885	151			3695.5319	C2		
2	27050.176	4	35683.405- 8638.233			4	.	.	6.5-	5.5	.	.	.	1.110	1.514*	404		56*	3695.5319	C2		
	27048.871	2					.	.			.	.	.						3695.7818		
	27048.508	3					.	.			.	.	.						3695.9601		
	27047.964	2					.	.			.	.	.						3696.0097		
1	27046.767	1	16155.109-43201.845			31	.	.	5.0-	5.0	.	.	.	0.948	1.090	142			3696.0840			
	27046.288	3					.	.			.	.	.						3696.2476		
	27046.031	1					.	.			.	.	.						3696.3130		
2	27045.730	4	12992.644-40038.370			4	2.5-	1.5	2.5-	1.5	.64	.44	.20	0.643	0.440*	203		-042	3696.3482			
	27045.182	2					.	.			.	.	.						3696.3893	ISQ	
	27044.869	4					.	.			.	.	.						3696.4642		
	27044.669	1					.	.			.	.	.						-278	3696.5070	ISQ
	27043.956	1					.	.			.	.	.							3696.5425	
2	27043.411	2	14561.607-41605.005			13	.	.	1.5-	2.5	.	.	.	1.149	0.935	214			3696.6318			
	27043.142	3					.	.			.	.	.						-237	3696.7063	
	27042.305	0					.	.			.	.	.						-250	3696.7431	
	27042.165	1					.	.			.	.	.							3696.8575	
	27041.929	1					.	.			.	.	.							3696.8766	
	27041.181	1					.	.			.	.	.							3696.9089	
1	27040.768	1	6313.866-33354.592			42	.	.	4.0-	3.0	.	.	.	0.487	0.000*	0			-155	3697.0112		
	27040.235	0					.	.			.	.	.							3697.0676	
	27038.824	0					.	.			.	.	.							3697.1405	
	27038.233	0					.	.			.	.	.							3697.3334	
	27037.214	3					.	.			.	.	.							3697.4143	
	27035.921	0					.	.			.	.	.							3697.5536	
1	27035.663	2	12351.522-39387.160			25*	.	.	6.0-	6.0	.	.	.	0.995	1.029	34			-293	3697.7304		
	27033.689	2					.	.			.	.	.							3697.7657	
	27033.121	3					.	.			.	.	.							3698.0359	
2	27032.365	4	12992.644-40025.010			-1	2.5-	3.5	2.5-	3.5	.	.	.262	0.643	0.900	257			-256	-257	3698.1135	
	27031.871	0					.	.			.	.	.							3698.2169	
	27031.000	1					.	.			.	.	.							3698.2845	
2	27030.174	6	31000.010- 3959.846			10	1.5-	2.5	1.5-	2.5	1.68	1.68		1.669	1.670	1	48	57	3698.4036	ISQ JQ		
1	27029.745	5	33174.265- 6144.515			-5	2.0-	3.0	2.0-	3.0	.882	1.487	.605	0.864	1.473	609	-41	-43	3698.5167	IS*		
2	27028.468	2	19317.370-46345.820			18	.	.	4.5-	4.5	.	.	.	1.225	1.030	195				3698.5754		
	27027.966	1					.	.			.	.	.							3698.7501	
2	27027.410	1	19277.180-46304.585			5	.	.	3.5-	2.5	.	.	.	0.847	0.980*	133				3698.8188		
	27026.531	4					.	.			.	.	.							3698.8949	
2	27025.289	7	29040.245- 2014.966			10	1.5-	1.5	1.5-	1.5	1.450	1.881	.431	1.447	1.881	434			-254	3699.0084		
1	27025.186	9	34799.810- 7774.653			29	4.0-	4.0	4.0-	4.0	.	.	.311	1.145	1.463	318				3699.1852		
2	27023.459	6H	13013.685-40037.110			34*	.	.	5.5-	5.5	.	.	.070	0.950	0.834	66			-57	-69	3699.1993	JQ
2	27022.881	1	32740.875- 5717.976			-18	.	.	4.5-	3.5	.	.	.	0.970	1.596	626				-32*	3699.4357	DJO
	27022.525	1					.	.			.	.	.							3699.5148	
	27022.036	0					.	.			.	.	.							3699.5636	
2	27021.744	2	17296.905-44318.570			79	.	.	4.5-	5.5	.	.	.	0.494	1.035	541				-23*	3699.6305	CQ
1	27021.183	1	12351.522-39372.685			20	.	.	6.0-	5.0	.	.	.	0.995	1.010*	15					3699.6705	
2	27019.144	1	32521.160- 5592.060			44*	.	.	2.5-	1.5	.	.	.	1.020	1.169	149					3699.7473	
2	27018.249	1	15098.815-42117.035			29	.	.	1.5-	2.5	.	.	.	1.079	0.835	244				-319*	3700.0265	
	27018.017	1					.	.			.	.	.							3700.1491	
	27016.753	3					.	.			.	.	.							3700.1809	
	27016.503	3B					1.09	1.09												-165	3700.3540	
	27016.391	3B					1.09	1.09													3700.3882	ISQ HVLQ
	27015.775	2												3700.4036	HVLQ
2	27015.425	5	35653.670- 8633.233			-12	6.5-	5.5	6.5-	5.5	.	.	.407	1.105	1.514	409	47	44			3700.4880	
														3700.5359	IS*

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	27014.250	1	36256.590	-	9242.356	16	.	.	3.5-	3.5	.	.	.	1.115	1.369	254	.	.	3700.6969	C3
2	27014.250	1	13192.903	-	40207.135	18	.	.	2.5-	2.5	.	.	.	0.372	1.020*	648	.	.	3700.6969	C3
1	27014.250	1	12322.613	-	39336.870	-7	.	.	2.0-	1.0	.	.	.	1.036	1.025	11	-257	.	3700.6969	C3
	27013.120	1					.	.			.	.	.						3700.8517	
2	27012.409	0	22372.325	-	49384.725	9	.	.	2.5-	2.5	.	.	.	1.330	0.930*	400			3700.9491	
	27011.978	1					.	.			.	.	.						3701.0081	
2	27011.458	8	29026.425	-	2014.966	-1	2.5-	1.5	2.5-	1.5	1.156	1.889	.733	1.150	1.881	731	-111		3701.0794	
1	27011.350	5	36190.615	-	9179.262	7	5.0-	5.0	5.0-	5.0	1.123	1.463	.340	1.123	1.454	331			3701.0928	
1	27010.650	1	12322.613	-	39333.250	13	.	.	2.0-	2.0	.	.	.	1.036	0.995	41			3701.1901	
2	27010.491	1	33849.725	-	11799.241	7	.	.	4.5-	5.5	.	.	.	1.110	1.373	263			3701.2119	
2	27009.184	1	37735.495	-	10726.322	11	.	.	3.5-	4.5	.	.	.	1.090	1.391	301			3701.3910	
	27008.768	1					.	.			.	.	.						3701.4480	
2	27008.303	1	20121.145	-	47129.430	18	.	.	2.5-	2.5	.	.	.	0.710	0.920*	210			3701.5117	
1	27007.215	3	6313.866	-	33321.067	14	.	.	4.0-	5.0	.	.	.	0.487	1.200*	713	-184	-183	3701.6609	
	27007.019	1					.	.			.	.	.						3701.6877	
	27006.739	1					.	.			.	.	.						3701.7261	
	27006.535	0					.	.			.	.	.						3701.7541	
	27004.945	1B					.	.			.	.	.						3701.9720	
1	27004.850	1B	14853.317	-	41858.135	32	.	.	4.0-	3.0	.	.	.	0.786	1.090	304			3701.9851	
1	27004.539	0	12177.963	-	39182.490	12	.	.	1.0-	2.0	.	.	.	0.525	0.990*	465	-286		3702.0277	
	27003.819	0					.	.			.	.	.						3702.1264	
1	27003.385	1	9724.351	-	36727.705	31	.	.	3.0-	3.0	.	.	.	0.442	0.905	463	-188		3702.1859	
2	27002.334	6	10436.770	-	37439.105	-1	4.5-	3.5	4.5-	3.5	.707	.909	.202	0.724	0.926	202	-254	-255*	3702.3300	
	27001.420	2H					.	.			.	.	.						3702.4553	HAZY
	27000.819	0					.	.			.	.	.						3702.5377	
	27000.594	3					.	.			.	.	.						3702.5686	
1	26999.984	5	33144.500	-	6144.515	-1	4.0-	3.0	4.0-	3.0	1.030	1.446	.416	1.052	1.473	421	-83	-82*	3702.6523	IS*
	26999.612	2					.	.			.	.	.						3702.7033	
1	26998.935	1	36178.230	-	9179.262	17	.	.	4.0-	5.0	.	.	.	1.080	1.454*	374	-46		3702.7893	
	26998.681	1					.	.			.	.	.						3702.8310	
	26998.426	1					.	.			.	.	.						3702.8659	
2	26997.591	2	18720.075	-	45718.025	41	.	.	3.5-	3.5	.	.	.	1.060	1.065	5			3702.9256	
	26997.669	2					.	.			.	.	.						3702.9698	
	26997.197	3					.	.			.	.	.				-175		3703.0345	
	26996.259	1					.	.			.	.	.						3703.1632	
	26996.070	3B					.	.			.	.	.				-117		3703.1891	ISQ
	26995.950	4C					.	.			.	.	.						3703.2056	
	26995.510	1					.	.			.	.	.						3703.2659	
	26994.471	2					.	.			.	.	.						3703.4085	
	26994.270	2					.	.			.	.	.						3703.4360	
	26993.701	2					.	.			.	.	.						3703.5141	
	26992.647	1					.	.			.	.	.						3703.6587	
	26992.089	1					.	.			.	.	.						3703.7353	
	26991.839	2					.	.			.	.	.						3703.7696	
	26991.098	1H					.	.			.	.	.						3703.8713	
	26990.669	2					1.17	1.17			.	.	.						3703.9301	
	26989.800	0					.	.			.	.	.						3704.0494	
	26989.592	0					.	.			.	.	.						3704.0780	
	26989.354	0					.	.			.	.	.						3704.1106	
	26988.530	2					.	.			.	.	.						3704.2168	
	26937.106	0					.	.			.	.	.						3704.4192	
	26926.693	1C					.	.			.	.	.						3704.4759	HAZY
2	26984.345	4	34482.680	-	7498.364	29	.	.	2.5-	2.5	1.31	1.31		1.307	1.321	14	+		3704.7982	
1	26932.185	1	12177.963	-	39160.120	28*	.	.	1.0-	1.0	.	.	.	0.525	1.230	705			3705.0948	
1	26981.886	2U	14025.007	-	41006.850	43*	.	.	4.0-	4.0	.	.	.	0.975	1.210	235			3705.1359	

C	HAVERUMBER	I	T2	-	T1	O-C	OBS J2	CSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	26930.636	0																		3705.3075	
	26979.924	1																		3705.4053	
	26979.631	3																		3705.4387	
	26979.275	1																		3705.4944	
	26978.619	1																		3705.5845	
	26977.936	2																		3705.6784	
	26977.593	1																		3705.7255	
1	26977.049	6	34751.714-	7774.653	-12	4.0-	4.0	4.0-	4.0	1.149	1.466	.317	1.146	1.463	317	-78	-84		3705.8002	IS*	
	26975.865	7																		3705.9629	2LNS
1	26975.865	7	33120.375-	6144.515	5	3.0-	3.0	3.0-	3.0	1.105	1.463	.358	1.113	1.473	360	99	93		3705.9629	2LNS	
	26975.558	3																		3706.0050	
	26975.016	4															-5			3706.0795	
	26973.511	1																		3706.2863	
1	26972.546	6	31272.205-	4299.659	0	2.0-	2.0	2.0-	2.0			.309	1.173	1.482	309	-44	-55		3706.4189	PB	
2	26972.310	2	14295.565-	41267.915	-40	.	.	3.5-	2.5				0.790	0.860	70				3706.4513		
	26971.387	1																		3706.5782	
	26970.326	0																		3706.7240	
	26969.597	1																		3706.8242	
2	26969.324	1	16362.000-	43331.310	14*	.	.	4.5-	5.5				1.050	1.055*	5				3706.8617		
2	26967.253	1	21048.190-	48015.425	18	.	.	2.5-	3.5				1.030	1.080*	50				3707.1464		
	26965.740	1																		3707.3544	
	26964.691	1																		3707.4986	
1	26964.403	0	14025.007-	40989.380	30	.	.	4.0-	4.0				0.975	1.000	25				3707.5382		
	26964.174	1																		3707.5697	
	26963.623	2																		3707.6448	
1	26963.159	2C	12322.613-	39285.760	12*	.	.	2.0-	2.0	1.017	1.017		1.036	1.020	16	-265	-270		3707.7093		
	26962.371	0																		3707.8177	
1	26961.283	1	11840.715-	38801.970	28*	.	.	3.0-	4.0				0.811	1.090*	279		-270		3707.9673		
2	26960.678	4	36203.035-	9242.356	-1	4.5-	3.5	4.5-	3.5	.949	1.335	.386	0.983	1.369	386				3708.0505		
2	26959.831	0	17121.640-	44081.440	31	.	.	5.5-	4.5				0.000	0.875	0				3708.1670		
	26958.069	1																		3708.4094	
2	26957.471	5	30193.265-	3235.770	-24	1.5-	0.5	1.5-	0.5	1.366	.312	1054	1.364	0.299	1065	+	34		3708.4916		
	26955.203	4															-62			3708.8037	ISQ
	26955.019	2																		3708.8290	
2	26953.652	5	34452.020-	7498.364	-4	.	.	3.5-	2.5				1.215	1.321	106				3709.0171		
2	26952.853	8	32670.835-	5717.976	-6	2.5-	3.5	2.5-	3.5	1.361	1.604	.243	1.361	1.596	235	-69	-49		3709.1270		
	26951.358	2															-290			3709.3328	
2	26950.059	1	19863.335-	46813.360	34	.	.	2.5-	2.5				0.921	1.070*	149				3709.5116		
	26948.166	3								1.172	1.172									3709.7722	
	26947.928	0																		3709.8049	
2	26947.236	0	22107.410-	49054.605	41	.	.	5.5-	4.5				1.362	1.020*	342				3709.9002		
	26946.977	0																		3709.9359	
	26946.776	0																		3709.9635	
1	26946.154	0	14912.011-	41858.135	30	.	.	4.0-	3.0				0.496	1.090	594				3710.0492		
	26944.853	3H										1.77								3710.2283	DJO 2JD6
	26943.492	2H										2.00								3710.4157	DJO 2JD6
	26943.241	0																		3710.4503	
1	26942.823	0	14292.176-	41234.990	9	.	.	5.0-	4.0				0.970	1.080	110		-243		3710.5079		
	26942.468	1																		3710.5568	
	26942.186	0																		3710.5956	
	26941.636	1																		3710.6714	
	26941.289	1																		3710.7192	
	26940.969	1																		3710.7632	
2	26939.826	6	11504.095-	38443.925	-4	3.5-	4.5	3.5-	4.5	.86	1.02	.16	0.859	1.020	161	-380	-380		3710.9207		
1	26938.989	5	31238.645-	4299.659	3	3.0-	2.0	3.0-	2.0	1.105	1.479	.374	1.105	1.482	377				3711.0360		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G3	TERM G2	TERM G1	TERM G3	OBS IS	TERM IS	WAVELENGTH	NOTES
	26932.746	0																	3711.0695	
	26937.663	1																	3711.2187	
2	26936.244	1	43681.995-	16745.720	-31	.	.	1.5-	2.5	.	.	.	1.065	1.671	606			3711.4142		
	26936.092	2																	3711.4351	
	26935.353	1																	3711.5369	
	26934.894	0																	3711.6002	
1	26934.297	6	34708.947-	7774.653	3	4.0-	4.0	4.0-	4.0	1.056	1.476	.420	1.043	1.463	420		25*	3711.6825		
	26933.332	1B																	3711.8155	
	26933.242	1B																	3711.8279	
	26932.911	0																	3711.8735	
1	26932.432	2	11840.715-	38773.125	22	.	.	3.0-	2.0	.	.	.	0.811	1.038	227	-249	-234	3711.9395		
1	26931.442	4	33075.985-	6144.515	-28	3.0-	3.0	3.0-	3.0	.	.	.416	1.050	1.473*	423			3712.0759		
	26930.526	2																	3712.2022	
	26929.769	0																	3712.3066	
	26929.069	0																	3712.4031	
	26927.024	0																	3712.6850	
2	26926.245	5	28941.215-	2014.966	-4	2.5-	1.5	2.5-	1.5	.	.	.912	0.968	1.881	913		-74	3712.7924		
1	26926.090	7	33070.573-	6144.515	32	2.0-	3.0	2.0-	3.0	.680	1.477	.797	0.673	1.473	800	-179	-179	3712.8138		
	26925.741	2																	3712.8619	
2	26924.516	1	15657.156-	42581.655	17	.	.	2.5-	1.5	.	.	.	1.000	0.790*	210			3713.0309		
	26924.060	2															0		3713.0937	IS*
	26923.543	1																	3713.1650	
	26923.002	1																	3713.2397	
	26922.847	1																	3713.2610	
	26922.066	1																	3713.3688	
2	26921.499	2	15778.634-	42700.125	8	.	.	1.5-	2.5	.	.	.	1.133	0.815	318			3713.4470		
1	26920.931	5	36100.190-	9179.262	3	5.0-	5.0	5.0-	5.0	1.216	1.447	.232	1.223	1.454	231	-10	-10	3713.5253	IS*	
	26920.407	5				5.5-	5.5												3713.5976	JQ
	26919.902	3																	3713.6673	
	26918.739	2																	3713.8277	
1	26918.279	7	34692.946-	7774.653	-14	3.0-	4.0	3.0-	4.0	1.190	1.462	.272	1.191	1.463	272	-65	-54	3713.8912		
	26917.749	0																	3713.9643	
	26917.482	0																	3714.0012	
	26916.771	1																	3714.0993	
1	26916.071	1C	9724.351-	36640.400	22	.	.	3.0-	3.0	.	.	.	0.442	1.035	593		-206	3714.1959		
1	26915.630	7	37154.100-	10238.473	3	5.0-	6.0	5.0-	6.0	1.131	1.439	.308	1.120	1.431	311		-33	3714.2567		
	26915.327	1																	3714.2985	
	26915.195	1																	3714.3162	
1	26912.247	7	31211.905-	4299.659	1	1.0-	2.0	1.0-	2.0	1.212	1.461	.249	1.235	1.482	247	-76	-77	3714.7236		
1	26911.452	2	36090.717-	9179.262	-3	4.0-	5.0	4.0-	5.0	1.226	1.455	.229	1.227	1.454	227	51	51	3714.8334	IS*	
1	26910.800	0	14025.007-	40935.790	17*	.	.	4.0-	4.0	.	.	.	0.975	1.160*	185			3714.9234		
	26910.012	0																	3715.0322	
2	26909.305	0	38708.515-	11799.241	31	.	.	5.5-	5.5	.	.	.	1.035	1.373	338			3715.1298		
	26909.049	0																	3715.1651	
	26907.558	1																	3715.3710	
	26907.416	1																	3715.3906	
	26907.024	1																	3715.4447	
	26906.771	1																	3715.4797	
2	26906.274	1	13192.903-	40099.165	12	.	.	2.5-	2.5	.	.	.	0.372	0.950*	578			3715.5483		
	26905.490	1																	3715.6579	
	26904.656	2																	3715.7717	
	26904.147	1																	3715.8420	
1	26903.470	4	9724.351-	36627.825	-4	3.0-	4.0	3.0-	4.0	.441	.979	.538	0.442	0.980	538	-175	-175	3715.9356		
	26902.156	0																	3716.1171	
	26901.584	0																	3716.1961	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	26901.245	0																	3716.2429	
	26900.310	1																	3716.3721	
2	26899.972	1	41593.040-14693.090		22	.	.	1.5-	0.5	.	.	.	.	1.150	0.840*	310	.	.	3716.4188	
	26899.718	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3716.4539	
1	26899.460	0	14025.007-40924.450		17	.	.	4.0-	3.0	.	.	.	.	0.975	1.185	210	.	-197	3716.4895	
1	26899.052	3	6313.866-33212.897		21	.	.	4.0-	4.0	.	.	.	.	0.487	1.110*	623	.	-162	3716.5459	
2	26898.414	4	40889.360-13990.952		6	0.5-	0.5	1.5-	1.5	1.35	1.72	0.37	.	1.350	1.728*	378	.	.	3716.6340	
	26898.120	0				1.5-	1.5	.	.	.	.	.	.	.	.	.	.	.	3716.6747	
	26897.755	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3716.7251	
1	26897.630	1	16304.260-43201.845		45	.	.	4.0-	5.0	.	.	.	.	1.285	1.090	195	.	.	3716.7424	
	26896.527	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3716.8948	
2	26896.076	4	32398.160- 5502.060		-24	2.5-	1.5	2.5-	1.5	1.31	1.31	.	.	1.308	1.169	139	.	208*	3716.9571	JQ
2	26895.550	6	30365.395- 3969.846		1	3.5-	2.5	3.5-	2.5	1.304	1.646	.342	.	1.328	1.670	342	-73	-79	3717.0298	
	26894.379	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.1917	
	26894.090	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.2316	
	26893.461	3				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.3186	
	26893.117	3				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.3661	
	26892.820	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.4072	
2	26892.410	0	41325.730-14433.351		31	.	.	0.5-	1.5	.	.	.	.	0.560	1.925*	1365	.	.	3717.4638	
1	26891.903	4	10486.922-37378.815		10	1.0-	2.0	1.0-	2.0	.	.	.617	.	0.355	0.964	609	-191	-189	3717.5339	
	26891.237	3				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.6260	
	26891.007	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.6578	
	26890.304	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3717.7550	
2	26889.154	6	32607.135- 5717.976		-5	4.5-	3.5	4.5-	3.5	.986	1.539	.553	.	1.047	1.596	549	+	22	3717.9140	
2	26887.663	8	35525.910- 8638.233		-14	4.5-	5.5	4.5-	5.5	.	.	.342	.	1.176	1.514	338	37	40*	3718.1202	IS*
2	26887.216	7	10436.770-37323.995		-9	.	.	4.5-	5.5	.	.	.	.	0.724	0.935	211	-186	-195	3718.1820	SP
1	26885.557	4	9724.351-36609.850		58	3.0-	2.0	3.0-	2.0	.	.	.58	.	0.442	1.025	583	+	-275	3718.4114	ISQ CQ
	26884.905	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3718.5016	
1	26884.351	6	33028.868- 6144.515		-2	2.0-	3.0	2.0-	3.0	.995	1.478	.483	.	0.987	1.473	486	29	3	3718.5782	IS*
	26883.927	2				.	.	.	.	.	.	.	.	.	.	.	.	.	3718.6369	
1	26882.323	4	36061.589- 9179.262		-4	5.0-	5.0	5.0-	5.0	.	.	.287	.	1.167	1.454	287	+	2	3718.8588	
	26882.126	2				.	.	.	.	.	.	.	.	.	.	.	.	.	3718.8860	
1	26881.349	7	34656.014- 7774.653		-12	3.0-	4.0	3.0-	4.0	1.100	1.458	.358	.	1.110	1.463	353	-53	-49	3718.9935	
1	26830.166	4	36059.430- 9179.262		-2	4.0-	5.0	4.0-	5.0	1.092	1.454	.362	.	1.090	1.454	364	.	7	3719.1572	
	26879.441	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.2575	
	26879.028	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.3147	
	26878.782	3				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.3487	
	26877.612	2				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.5106	
2	26877.390	2	19863.335-46740.710		15	.	.	2.5-	1.5	.	.	.	.	0.921	0.930*	9	.	.	3719.5413	
2	26877.114	0	19277.180-46154.290		4	.	.	3.5-	3.5	.	.	.	.	0.847	1.090*	243	.	.	3719.5795	
	26876.649	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.6439	
	26876.093	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.7208	
	26875.627	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3719.7853	
2	26875.379	1	19317.370-46192.700		49	.	.	4.5-	3.5	.	.	.	.	1.225	0.950	275	.	.	3719.8197	
	26873.903	3				.	.	.	.	.	.	.	.	.	.	.	.	.	3720.0240	
	26873.567	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3720.0705	
	26872.318	9				1.0-	2.0	.	.	.338	.764	.426	.	.	.	.	.	.	3720.2434	3 LNS
2	26872.318	9	28387.310- 2014.966		-26	0.5-	1.5	0.5-	1.5	.156	1.886	1730	.	0.162	1.881	1719	.	20	3720.2434	3 LNS
1	26872.318	9R	26372.321- 0.000		-3	1.0-	0.0	1.0-	0.0	2.68	.000	.	.	2.690	0.000*	0	-91	-69	3720.2434	3 LNS
1	26870.564	3	11747.245-38617.815		-6	.	.	0.0-	1.0	.	.	.	.	0.000	1.035	0	.	-215	3720.4862	
1	26859.835	9R	29073.454- 2203.606		-13	1.0-	1.0	1.0-	1.0	1.353	1.489	.136	.	1.356	1.495	139	+	-38	3720.5872	
	26866.180	2				.	.	.	.	.	.	.	.	.	.	.	.	.	3720.8164	
	26866.285	2				.	.	.	.	.	.	.	.	.	.	.	.	.	3721.0788	
	26866.030	1				.	.	.	.	.	.	.	.	.	.	.	.	.	3721.1072	
	26865.832	0				.	.	.	.	.	.	.	.	.	.	.	.	.	3721.1416	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
	26865.610	0																	3721.1723	
1	26864.424	9R	29068.029-		2203.606	1	2.0-	1.0	2.0-	1.0	1.294	1.504	.210	1.284	1.495	211	-41	-43	3721.3366	
2	26853.469	4	37589.795-		10726.322	-4	.	.	5.5-	4.5	.	.	.	1.120	1.391*	271	+		3721.4689	
	26863.218	0																	3721.5037	
2	26862.716	8	10436.770-		37299.525	-39	4.5-	5.5	4.5-	5.5	.713	.912	.199	0.724	0.923	199	-178	-193	3721.5732	
	26862.265	0																	3721.6357	
1	26861.522	6	37100.000-		10238.473	-5	6.0-	6.0	6.0-	6.0	.	.	.343	1.088	1.431	343	-12	-12	3721.7387	IS*
	26861.101	0																	3721.7970	
1	26859.257	1	12322.613-		39182.490	-20	.	.	2.0-	2.0	.	.	.	1.036	0.990*	46		-290	3721.9694	
	26859.661	1																	3721.9965	
	26859.405	2																	3722.0320	
	26858.338	1																	3722.1799	
	26857.964	2															-116		3722.2317	IS*
	26857.674	1																	3722.2719	
	26857.210	0																	3722.3362	
	26856.657	0																	3722.4129	
	26855.349	2H																	3722.5942	
2	26854.619	5	34353.025-		7498.354	-42	.	.	3.5-	2.5	.	.	.	1.199	1.321	122		200	3722.6954	
2	26854.255	3	21359.050-		48213.315	0	.	.	2.5-	3.5	.	.	.	1.254	1.040*	214			3722.7444	
1	26853.915	7	34628.584-		7774.653	-16	4.0-	4.0	4.0-	4.0	1.151	1.470	.319	1.144	1.463	319	44	44	3722.7930	IS*
1	26852.197	6	31151.870-		4299.659	-14	2.0-	2.0	2.0-	2.0	1.633	1.485	.148	1.632	1.482	150	-120	-120	3723.0311	
	26851.848	4															-58		3723.0795	IS*
	26851.377	0																	3723.1448	
	26850.383	1																	3723.2827	
	26849.406	0																	3723.4182	
	26849.220	1																	3723.4440	
	26849.026	0																	3723.4709	
2	26848.245	2	19466.530-		46314.760	15	.	.	4.5-	3.5	1.06	.	.	1.151	1.055	96			3723.5792	f
	26847.796	0																	3723.6414	
	26847.552	0																	3723.6753	
	26847.197	1																	3723.7245	
	26846.498	1																	3723.8215	
	26846.028	3																	3723.8867	
2	26845.472	3	13192.903-		40038.370	5	.	.	2.5-	1.5	.	.	.	0.372	0.440*	68			3723.9638	
	26844.432	1																	3724.1081	
1	26844.097	6	32928.621-		6144.515	-9	3.0-	3.0	3.0-	3.0	1.174	1.472	.298	1.173	1.473	300	-18	-18	3724.1546	IS*
2	26843.315	4	12992.644-		39835.970	-11	.	.	2.5-	3.5	.	.	.	0.643	0.850*	207	-225	-219	3724.2631	
2	26842.708	3	8709.640-		35552.385	-37	.	.	3.5-	3.5	.	.	.	0.308	0.903	595	-236	-282	3724.3473	
1	26840.615	6	32985.135-		6144.515	-5	2.0-	3.0	2.0-	3.0	.750	1.463	.713	0.757	1.473	716	-45	-52	3724.6377	IS*
	26840.084	1																	3724.7114	
1	26838.930	2	34613.555-		7774.653	28	.	.	3.0-	4.0	.	.	.	1.130	1.463*	333			3724.8716	
	26838.656	0																	3724.9096	
	26838.449	1																	3724.9383	
1	26837.751	5	36017.000-		9179.262	13	4.0-	5.0	4.0-	5.0	.	.	.36	1.090	1.454*	364	-29	-29	3725.0352	IS*
1	26837.523	2	12322.613-		39160.120	16*	.	.	2.0-	1.0	.	.	.	1.036	1.230	194			3725.0668	
2	26836.964	3H	19317.370-		46154.290	44	.	.	4.5-	3.5	.	.	.	1.225	1.090*	135			3725.1444	
	26836.406	1																	3725.2219	
	26836.082	0																	3725.2669	
1	26835.439	6	37073.910-		10238.473	2	5.0-	6.0	5.0-	6.0	1.157	1.427	.270	1.160	1.431	271	-046	-46	3725.3561	
	26834.682	2																	3725.4612	
	26834.169	5					4.0-	5.0			.	.	.180				-32		3725.5324	IS*
	26833.217	1																	3725.6646	
	26832.855	0																	3725.7149	
2	26832.039	3	13192.903-		40025.010	-18	.	.	2.5-	3.5	.	.	.	0.372	0.900	528	-263	-261	3725.8213	
1	26830.932	9R	31130.605-		4299.659	-14	1.0-	2.0	1.0-	2.0	2.355	1.492	.863	2.342	1.482	860	-73	-73	3725.9819	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	26830.666	1																	3726.0189	
2	26830.012	9	26830.020-		0.000	-8	0.5-	0.5	0.5-	0.5	-0.095	3.152	3247	-0.097	3.150	3247	71	68	3726.1097	
	26829.691	1																	3726.1543	
	26829.231	1																	3726.2182	
2	26828.598	1	17532.937-44361.495		40		.	.	3.5-	2.5	.	.	.	1.238	0.850*	388			3726.3061	
	26828.087	1																	3726.3771	
	26826.727	2																	3726.5560	
2	26826.204	5	32544.185-		5717.976	-5	.	.	3.5-	3.5	.	.	.	1.130	1.596	466		-90	3726.6386	
	26826.000	1																	3726.6670	
	26825.561	1																	3726.7280	
2	26825.069	9	30794.930-		3969.846	-15	1.5-	2.5	1.5-	2.5	1.083	1.670	.587	1.084	1.670	586	-41	-14	3726.7963	ISQ
	26823.684	3																	3726.9887	
	26823.332	1																	3727.0377	
1	26822.799	3	9724.351-36547.135		15		.	.	3.0-	4.0	.	.	.	0.442	1.080	638			3727.1117	
	26822.189	4																	3727.1965	
	26821.401	0																	3727.3050	
	26820.786	1																	3727.3915	
2	26820.042	5	8198.666-		35018.725	-17	2.5-	3.5	2.5-	3.5	.424	.921	.497	0.414	0.911	497	-487	-487	3727.4949	
	26819.664	1																	3727.5474	
	26819.378	1																	3727.5871	
1	26818.956	6	31118.615-		4299.659	0	2.0-	2.0	2.0-	2.0	.867	1.484	.617	0.865	1.482	617	81		3727.6458	ISQ
	26817.944	0																	3727.7865	
	26816.392	0																	3728.0022	
	26815.673	1																	3728.1022	
	26814.905	3																	3728.2090	
	26814.737	0																	3728.2323	
	26814.059	1																	3728.3266	
1	26812.572	6	37051.050-		10238.473	-5	5.0-	6.0	5.0-	6.0	1.191	1.430	.239	1.192	1.431	239	-40		3728.5334	
	26812.436	2																	3728.5523	
1	26812.278	2	11840.715-		38552.990	3	.	.	3.0-	4.0	.	.	.	0.811	1.090*	279			3728.5743	
1	26812.056	0	9724.351-36536.380		27		.	.	3.0-	3.0	.	.	.	0.442	0.950*	508			3728.6051	
1	26811.111	5	36533.653-		9772.532	-10	1.0-	0.0	1.0-	0.0	1.10	.000		1.135	0.000	0	-154	-153	3728.7365	
1	26810.400	7R	32954.929-		6144.515	-14	3.0-	3.0	3.0-	3.0	1.106	1.474	.368	1.105	1.473	368	-54	-54	3728.8354	
1	26809.857	3	11340.715-		38650.550	22	.	.	3.0-	2.0	.	.	.	0.811	0.785	26			3728.9110	
1	26808.899	5	12159.465-		38968.370	-6	4.0-	5.0	4.0-	5.0	.	.	.	0.844	1.065	221	54		3729.0442	CQ JQ
	26808.522	2																	3729.0967	
	26807.270	1																	3729.2708	
	26806.897	0																	3729.3227	
	26806.680	0																	3729.3529	
	26805.407	2B																	3729.5300	
2	26805.303	2B	30775.140-		3969.846	9	.	.	3.5-	2.5	.	.	.	1.099	1.670	571		-96	3729.5445	
	26804.995	0																	3729.5873	
	26804.381	0																	3729.6728	
	26804.146	2																	3729.7055	
1	26803.745	0	9724.351-36528.070		26		.	.	3.0-	3.0	.	.	.	0.442	0.985	543	0		3729.7613	IS*
	26803.529	0																	3729.7913	
2	26803.191	2	32521.160-		5717.976	7*	.	.	2.5-	3.5	.	.	.	1.020	1.596	576			3729.8384	
2	26803.039	0	15778.634-		42531.655	18	.	.	1.5-	1.5	.	.	.	1.133	0.790*	343			3729.8595	
	26802.365	1																	3729.9533	
2	26801.777	3B	34300.160-		7498.364	-19	.	.	2.5-	2.5	.	.	.	1.370	1.321*	49			3730.0352	
	26801.721	4B																	3730.0429	ISQ
	26801.320	0																	3730.0988	
1	26800.605	1	8768.139-		35568.740	4	.	.	2.0-	2.0	.	.	.	0.362	1.040	678	-255	-254	3730.1983	HAZY
	26800.298	1																	3730.2410	
	26799.457	1																	3730.3581	

C	HAVE	NUMBER	I	T2	-	T1	O-C	CBS	CBS	TERM	TERM	CBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES		
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS				
		26797.575	4																				
1		26796.319	2	6313.866	-	33110.165	20	.	.	4.0	-	4.0	.	.	0.487	1.220*	733	-	-250	3730.6201			
1		26795.595	2B	8768.139	-	35563.728	6	.	.	2.0	-	3.0	.	.	0.362	1.204	842	-	-408	3730.7949			
2		26795.453	2D	30765.285	-	3969.846	14	.	.	3.5	-	2.5	.	.	1.190	1.670*	480	-	-28	3730.8957			
2		26794.947	4	28309.965	-	2014.966	-52	2.5	-	1.5	2.5	-	1.5	1.24	1.89	.65	1.230	1.881*	651	+	12	3730.9155	
		26794.790	1																			3730.9860	
		26794.320	1																			3731.0078	
2		26793.853	3	13013.685	-	39307.520	18	.	.	5.5	-	4.5	.	.	0.950	0.725	225				3731.0733		
2		26793.498	3	14295.565	-	41089.060	3	.	.	3.5	-	2.5	.	.	0.790	0.935	145	-250	-248		3731.1383		
		26793.038	1B																			3731.1877	
		26792.932	1B																			3731.2518	
		26792.526	2																			3731.2666	
		26791.872	1																			3731.3231	
		26791.613	0																			3731.4142	
		26791.354	1																			3731.4503	
2		26790.974	1	36033.315	-	9242.356	15	.	.	4.5	-	3.5	.	.	1.134	1.369	235			23	3731.4863	HVLQ	
		26790.421	1																			3731.5393	
2		26789.733	3	30759.570	-	3969.846	9	2.5	-	2.5	2.5	-	2.5	1.215	1.670	.455	1.220	1.670	450		123	3731.6163	
		26789.282	1																			3731.7121	
		26788.301	3																			3731.7750	
2		26787.996	1	20291.680	-	47079.610	66	.	.	1.5	-	2.5	.	.	1.377	0.960*	417				3731.9116		
2		26787.400	9	28802.375	-	2014.966	-9	0.5	-	1.5	0.5	-	1.5	.818	1.880	1062	0.800	1.881	1081	314	318	3731.9541	
		26787.227	4																			3732.0371	
		26787.063	5																			3732.0612	
1		26786.345	7R	32930.874	-	6144.515	-14	3.0	-	3.0	3.0	-	3.0	1.219	1.474	.255	1.216	1.473	257	-43	-42*	3732.0841	
		26785.548	1																			3732.1841	
		26784.993	3																			3732.2952	
2		26784.575	1	17296.905	-	44081.440	40	.	.	4.5	-	4.5	.	.	0.494	0.875	381	+	+		3732.3725		
2		26784.099	2	36026.425	-	9242.356	30	.	.	2.5	-	3.5	.	.	1.344	1.369	25				3732.4308		
2		26783.836	3	8709.640	-	35493.485	-9	.	.	3.5	-	3.5	.	.	0.308	0.931	623	-225	-255		56	3732.4971	ISQ
2		26783.384	4	32501.390	-	5717.976	-30	4.5	-	3.5	4.5	-	3.5	.	.	.408	1.190	1.596	406		56	3732.5338	ISQ
		26783.225	2																			3732.5968	
		26782.511	2																			3732.6189	
		26782.316	1																			3732.7184	
2		26781.363	1	32283.420	-	5502.060	3	.	.	2.5	-	1.5	.	.	1.045	1.169	124			56	3732.7456		
		26780.187	1																			3732.8784	
		26779.927	0																			3733.0424	
		26779.693	2																			3733.0786	
		26779.487	1																			3733.1112	
		26777.534	0																			3733.1399	
1		26776.280	2	12177.963	-	38954.840	3	.	.	1.0	-	2.0	.	.	0.525	1.020*	495				3733.4122		
		26776.451	2																			3733.5034	
1		26775.220	5	6313.866	-	33089.092	-6	4.0	-	5.0	4.0	-	5.0	.493	1.075	.582	0.487	1.069	582	-282	-282	3733.5632	
		26774.806	1W																			3733.7349	
		26774.545	3																			3733.7926	
2		26773.740	1	38572.970	-	11799.241	11	.	.	5.5	-	5.5	.	.	1.035	1.373	338	-205			3733.8290		
		26773.318	2																			3733.9413	
		26772.894	0																			3734.0001	
		26772.253	0																			3734.0593	
2		26771.148	0	41464.210	-	14693.090	28	.	.	1.5	-	0.5	.	.	1.065	0.840	225				3734.1487		
		26770.758	0																			3734.3028	
2		26770.320	3	18720.075	-	45490.434	-39	.	.	3.5	-	4.5	.	.	1.060	1.065	5				3734.3572		
		26768.592	1																			3734.4183	
		26767.847	1																			3734.6594	
		26767.648	1																			3734.7633	
																						3734.7911	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	26767.077	1	11840.715-32507.775		17		.	.	3.0-	4.0	.	.	.	0.811	1.105	294	103		3734.8708	CQ
2	26766.535	1	33774.085-12007.503		3		.	.	2.5-	1.5	.	.	.	1.170-0.019*	1189				3734.9394	
2	26765.146	1	36953.625-10123.463		-16		.	.	0.5-	0.5	.	.	.	0.920	2.402*	1482			3735.1402	
	26765.029	1					.	.			.	.	.						3735.1566	
	26763.958	1					.	.			.	.	.						3735.3060	
	26763.712	0					.	.			.	.	.						3735.3404	
	26763.026	2					.	.			.	.	.						3735.4361	
	26762.577	0W					.	.			.	.	.						3735.4988	
	26762.256	0					.	.			.	.	.						3735.5436	
	26760.996	0					.	.			.	.	.						3735.7195	
	26760.717	0					.	.			.	.	.						3735.7584	
	26760.443	0					.	.			.	.	.						3735.7967	
2	26760.136	0	17733.709-44493.850		-5		.	.	0.5-	1.5	.	.	.	-0.510	1.110*	1620			3735.8395	
1	26759.253	7	32903.777- 6144.515		-9	4.0-	3.0	4.0-	3.0		1.13	1.48	.35	1.120	1.473*	353	-47	-47	3735.9628	IS*
	26758.601	0					.	.			.	.	.						3736.0539	
2	26757.610	5	30727.440- 3969.846		16	1.5-	2.5	1.5-	2.5		1.205	1.665	.460	1.208	1.670	462	+	27	3736.1922	
	26757.293	1					.	.			.	.	.						3736.2365	
	26756.703	1					.	.			.	.	.						3736.3189	
2	26755.348	0	14561.607-41316.930		25	.	.	1.5-	1.5		.	.	.	1.149	0.700*	449			3736.5081	
	26754.685	1					.	.			.	.	.						3736.6007	
	26753.898	0					.	.			.	.	.						3736.7106	
	26752.804	2					.	.			.	.	.						3736.8634	
2	26752.287	4	35390.520- 8638.233		0	5.5-	5.5	5.5-	5.5		.	.	.459	1.055	1.514	459	87	90*	3736.9356	
	26751.544	0					.	.			.	.	.						3737.0394	
	26751.077	1					.	.			.	.	.						3737.1047	
2	26750.792	1	35993.175- 9242.356		-27	.	.	2.5-	3.5		.	.	.	0.990	1.369*	379	78	68*	3737.1445	
2	26750.248	2	15098.815-41849.030		33	.	.	1.5-	2.5		.	.	.	1.079	1.080	1			3737.2205	
	26749.680	0					.	.			.	.	.						3737.2999	
2	26749.016	3	17073.340-43822.335		21	.	.	1.5-	2.5		.	.	.	0.576	0.950*	374		-174*	3737.3926	
	26748.557	0					.	.			.	.	.						3737.4568	
2	26748.045	6	35386.270- 8638.233		8	4.5-	5.5	4.5-	5.5		1.082	1.500	.418	1.100	1.514	414	56	69	3737.5283	
1	26746.870	5	31046.528- 4299.659		1	2.0-	2.0	2.0-	2.0		1.50	1.50		1.480	1.482*	2	-56	-68	3737.6925	JQ
	26746.605	1					.	.			.	.	.						3737.7295	
	26746.105	1					.	.			.	.	.						3737.7994	
	26745.676	0					.	.			.	.	.						3737.8594	
	26745.017	1					.	.			.	.	.						3737.9515	
	26743.716	1					.	.			.	.	.						3738.1333	
	26743.186	1					.	.			.	.	.						3738.2074	
	26742.911	2					.	.			.	.	.						3738.2458	
	26742.394	1					.	.			.	.	.						3738.3181	
	26742.015	0					.	.			.	.	.						3738.3711	
	26741.851	1					.	.			.	.	.						3738.3940	
	26741.127	0					.	.			.	.	.						3738.4952	
2	26739.910	3	19277.180-46017.075		15	.	.	3.5-	2.5		.	.	.	0.847	0.000*	0	-207		3738.6654	
	26738.290	2					.	.			.	.	.						3738.8919	
	26737.694	3					.	.			.	.	.						3738.9753	
	26736.886	0					.	.			.	.	.						3739.0883	
	26736.045	1					.	.			.	.	.						3739.2059	
	26735.776	1					.	.			.	.	.						3739.2435	
	26735.556	0					.	.			.	.	.						3739.2743	
	26735.431	1					.	.			.	.	.						3739.2918	
2	26735.080	7	34013.940- 7278.852		2	3.5-	4.5	3.5-	4.5		1.116	1.543	.427	1.121	1.545	424	31	52	3739.3408	IS*
	26734.850	1					.	.			.	.	.						3739.3730	
2	26734.027	1	34232.360- 7498.364		31	.	.	3.5-	2.5		.	.	.	0.980	1.321	341			3739.4881	
	26733.735	0					.	.			.	.	.						3739.5290	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
	26733.255	0																		
2	26732.700	0	22652.035-49384.725		10		.	.	3.5-	2.5	.	.		1.185	0.930*	255			3739.5961	
	26732.393	3					.	.			.	.							3739.6738	
2	25731.799	5	14295.565-41027.335		29	3.5-	4.5	3.5-	4.5	.810	.895	.085	0.790	0.895	105			3739.7167		
	26731.488	1					.	.			.	.							3739.7998	
	26731.007	0					.	.			.	.							3739.8433	
	26730.318	1					.	.			.	.							3739.9106	
	26729.968	1					.	.			.	.							3740.0070	
2	26729.741	1	36437.710- 9707.980		11	.	.	5.5-	6.5	.	.		1.137	1.485	348			3740.0560		
	26729.425	1					.	.			.	.							3740.0878	
1	26729.170	2	12177.963-33907.115		18	.	.	1.0-	2.0	.	.		0.525	1.135	610			3740.1320		
	26728.070	3					.	.			.	.							3740.1677	
	26727.342	0					.	.			.	.							3740.3216	ISQ
	26726.982	0					.	.			.	.							3740.4235	
	26726.276	1					.	.			.	.							3740.4739	
	26726.139	1					.	.			.	.							3740.5727	
	26725.824	1					.	.			.	.							3740.5918	
1	26725.287	8R	31024.953- 4299.659		-7	3.0-	2.0	3.0-	2.0	1.335	1.482	.147	1.335	1.482	147			3740.6359		
	26724.806	2					.	.			.	.							3740.7111	
	26724.549	0					.	.			.	.							3740.7784	
	26723.047	0					.	.			.	.							3740.8144	
	26722.913	1					.	.			.	.							3741.0247	
1	26722.619	0	34497.235- 7774.653		37	.	.	3.0-	4.0	.	.		1.070	1.463*	393			3741.0434		
2	26722.488	1	38521.710-11799.241		19	.	.	4.5-	5.5	.	.		1.145	1.373	228			3741.0846		
	26722.105	1					.	.			.	.							3741.1029	
	26721.865	2					.	.			.	.							3741.1565	
	26720.539	0					.	.			.	.							3741.1901	
1	26719.810	4	6313.866-33033.638		38	.	.	4.0-	3.0	.	.	.42	0.487	0.910	423			3741.3758		
	26718.527	1					.	.			.	.							3741.4779	
	26717.979	1					.	.			.	.							3741.6575	
	26717.089	1					.	.			.	.							3741.7343	
	26716.395	0					.	.			.	.							3741.8589	
1	26715.643	3	11747.245-38462.875		13	0.0-	1.0	0.0-	1.0	.000	.82		0.000	0.765	0			3741.9561		
1	26714.707	2	14292.176-41006.850		33*	.	.	5.0-	4.0	.	.		0.970	1.210	240			3742.0615		
	26714.222	0					.	.			.	.							3742.1926	
	26714.011	1					.	.			.	.							3742.2605	
	26713.147	1					.	.			.	.							3742.2901	
	26712.943	2					.	.			.	.							3742.4111	
1	26711.943	4	9724.351-36436.294		0	3.0-	3.0	3.0-	3.0	.46	1.11	.649	0.442	1.095	653			3742.4397		
	26711.703	2					.	.			.	.							3742.5798	
2	26711.520	3	16362.000-43073.510		10	.	.	4.5-	4.5	.	.		1.050	0.950*	100			3742.6134		
	26710.987	1					.	.			.	.							3742.6391	
2	26710.519	1W	17242.750-43953.290		-21	.	.	2.5-	1.5	.	.		1.200	1.510*	310			3742.7138		
	26709.860	0					.	.			.	.							3742.7793	
	26709.010	0					.	.			.	.							3742.8717	
	26708.820	0					.	.			.	.							3742.9908	
2	25708.337	7	32210.400- 5502.060		-3	2.5-	1.5	2.5-	1.5	1.336	1.168	.168	1.339	1.169	170			3743.0174		
	26707.432	0					.	.			.	.							3743.0851	IS*
	26707.149	0					.	.			.	.							3743.2120	
	26706.700	4					.	.			.	.							3743.2516	
	26706.476	1					.	.			.	.							3743.3146	
	26704.709	0					.	.			.	.							3743.3460	ISQ
1	26704.028	7	35293.360- 9179.262		-10	5.0-	5.0	5.0-	5.0	1.166	1.459	.293	1.164	1.454	290			3743.5937		
	26703.689	1B					.	.			.	.							3743.6807	
	26703.581	2B					.	.			.	.							3743.7367	
							.	.			.	.							3743.7518	

C	WAVENUMBER	I	T2	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
						J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
	26702.112	3																	
2	26701.023	6	28715.965-	2014.966	24	1.5-	1.5	1.5-	1.5	.858	1.872	1014	0.875	1.881	1005	99	100	3743.9578	
	26700.826	3																3744.1105	
	26699.233	0																3744.1381	
	26698.537	3																3744.3615	
	26697.929	2																3744.4591	
	26697.519	2																3744.5444	
1	26696.176	9R	30995.841-	4299.659	-6	2.0-	2.0	2.0-	2.0	1.465	1.465		1.470	1.482*	12	-119	-81	3744.6019	JQ
	26695.670	6																3744.7903	
2	26695.258	3	34193.640-	7498.364	22	.	.	1.5-	2.5	.	.		0.970	1.321*	351	71		3744.8613	
	26694.517	1H																3744.9134	
1	26693.796	3	9724.351-	36418.125	22	.	.	3.0-	4.0	.	.		0.442	1.075	633	-199	-199	3745.0230	
	26693.162	0																3745.1242	
	26692.787	0																3745.2131	
2	26692.527	1	19317.370-	46009.840	57	.	.	4.5-	4.5	.	.		1.225	1.050	175			3745.2657	
2	26692.289	0	22409.025-	49101.285	29	.	.	5.5-	4.5	.	.		1.205	1.050*	155			3745.3022	
	26690.351	1																3745.3356	
	26689.737	4																3745.5374	
1	26688.978	7	35868.246-	9179.262	-6	6.0-	5.0	6.0-	5.0	1.168	1.460	.292	1.162	1.454	292	-58	-293	3745.6937	ISQ
	26688.747	2																3745.8003	IS*
	26688.267	1																3745.8327	
2	26688.115	1	13809.910-	40498.010	15	.	.	4.5-	4.5	.	.		0.657	0.860*	203			3745.9001	
2	26687.774	0	19466.530-	46154.290	14	.	.	4.5-	3.5	.	.		1.151	1.090*	61	-29		3745.9214	
	26687.625	1																3745.9693	
	26687.257	0																3745.9902	
	26687.110	0																3746.0418	
	26685.979	3				2.0-	3.0					.50						3746.0625	
	26685.420	2																3746.2212	
	26684.196	0																3746.2997	
	26683.710	0																3746.4716	
2	26681.927	3	32399.895-	5717.976	8	.	.	4.5-	3.5	.	.		1.110	1.596*	486			3746.6802	
1	26681.603	5	28835.208-	2203.606	1	2.0-	1.0	2.0-	1.0	.922	1.502	.580	0.912	1.495	583	-51	-61	3746.7902	
1	26680.928	2	16520.962-	43201.845	45	.	.	5.0-	5.0	.	.		0.736	1.090	354			3746.8357	
	26680.467	0																3746.9305	
2	26680.201	2	32398.160-	5717.976	17	.	.	2.5-	3.5	.	.		1.308	1.596	288			3746.9952	
2	26679.920	3	37406.230-	10726.322	12	.	.	5.5-	4.5	.	.		1.125	1.391	266	188*		3747.0326	
	26678.961	4																3747.0720	
	26677.394	2																3747.2067	
	26676.912	1																3747.4268	
2	26676.333	7	30646.175-	3969.846	4	3.5-	2.5	3.5-	2.5	1.270	1.668	.398	1.272	1.670	398	+	-5	3747.4945	
1	26675.172	3	30974.813-	4299.659	18	.	.	3.0-	2.0	.	.		1.050	1.482*	432	503	78	3747.5759	ISQ
	26673.357	2																3747.7390	
	26673.104	4																3747.9238	
	26671.793	0																3748.0296	
	26671.622	0																3748.2138	
	26671.278	0																3748.2378	
2	26670.877	1	43834.325-	17163.470	22	.	.	5.5-	4.5	.	.		1.090	1.200*	110			3748.2862	
	26670.515	0																3748.3425	
2	26669.970	4	26669.945-	0.000	25	1.5-	0.5	1.5-	0.5	1.352	3.140	1788	1.350	3.150	1800		88	3748.3934	
1	26669.271	6	35848.508-	9179.262	25	4.0-	5.0	4.0-	5.0	1.087	1.457	.370	1.080	1.454	374	56	56	3748.4700	
	26668.735	0																3748.5683	
	26668.323	1																3748.6436	
1	26667.592	7R	35846.851-	9179.262	-7	5.0-	5.0	5.0-	5.0	1.162	1.461	.299	1.151	1.454	303	62	32	3748.7015	
2	26667.062	3	43830.510-	17163.470	22	.	.	3.5-	4.5	.	.		1.020	1.200*	180	-202		3748.8043	
	26666.403	1																3748.8788	
																		3748.9714	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	26655.660	0																	3749.0759	
	26664.930	2																	3749.1785	
	26664.183	1																	3749.2836	
1	26663.760	4	9386.801	-	36050.540	21	5.0-	6.0	5.0-	6.0	.80	.83	.03	0.801	0.830*	29	-120	-123	3749.3431	JQ
	26653.535	0																	3749.3677	
	26663.035	1H																	3749.4450	
	26662.009	0																	3749.5893	
	26661.819	0																	3749.6160	
	26651.441	1																	3749.6692	
	26660.580	1H																	3749.7903	
	26660.142	2																	3749.8519	
2	26659.820	2	14295.565	-	40955.385	0	.	.	3.5-	3.5	.	.	.	0.790	0.850	60		-158	3749.8972	
	26659.644	2																	3749.9219	
	26658.613	1																	3750.0670	
	26653.291	1																	3750.1123	
	26656.836	6									1.110	.	.				0		3750.3170	f IS*
	26655.578	2																	3750.3533	
	26655.804	0																	3750.4622	
	26655.232	2																	3750.5426	239 Q
1	26655.070	4	6313.866	-	32968.906	30	.	.	4.0-	4.0	.	.	.63	0.487	1.115	628	-191	-195	3750.5654	
	26654.379	0																	3750.6627	
	26654.005	3																	3750.7153	
2	26653.003	3	32155.060	-	5502.060	3	.	.	2.5-	1.5	.	.	.	1.284	1.169	115		168*	3750.8563	
	26652.716	0																	3750.8967	
	26651.911	0																	3751.0100	
1	26651.103	6	36889.583	-	10238.473	-7	6.0-	6.0	6.0-	6.0	1.159	1.437	.278	1.153	1.431	278	-16	-16*	3751.1237	IS*
	26650.699	1																	3751.1806	
1	26650.438	1	9336.801	-	36037.220	19	.	.	5.0-	5.0	.	.	.	0.801	1.155	354			3751.2173	
	26649.247	0																	3751.3850	
	26648.784	0																	3751.4501	
	26648.420	1																	3751.5014	
	26648.239	1																	3751.5269	
2	26647.632	1	37373.930	-	10726.322	24	.	.	4.5-	4.5	.	.	.	1.175	1.391	216			3751.6123	
	26647.137	2																	3751.6820	
	26646.775	2																	3751.7330	
	26646.530	1																	3751.7675	
	26646.336	3																-438	3751.7948	ISQ
	26645.204	3																	3751.9542	
	26644.719	1																	3752.0225	
2	26644.055	1	12048.548	-	38692.585	28	.	.	1.5-	2.5	.	.	.	-0.054	0.720	774			3752.1146	
2	26643.075	5	13192.903	-	39835.970	8	2.5-	3.5	2.5-	3.5	.325	.819	.494	0.372	0.850*	478	-223	-223	3752.2540	
	26642.854	1																	3752.2851	
	26642.140	1																	3752.3857	
	26641.960	1																	3752.4111	
	26641.524	5																	3752.4725	IS*
	26640.640	1B															0		3752.5970	
1	26640.530	1B	9724.351	-	36364.850	31	.	.	3.0-	4.0	.	.	.	0.442	1.080*	638		-209	3752.6125	
	26640.211	3					3.5-	3.5					.364						3752.6574	
	26639.422	0																	3752.7686	
2	26633.899	0	21048.190	-	47687.019	-20	.	.	2.5-	2.5	.	.	.	1.030	0.000*	0			3752.8549	
2	26633.110	3	8709.640	-	35347.740	10	.	.	3.5-	3.5	.	.	.	0.308	1.195	887		-171	3752.9534	
1	26637.387	3	14025.007	-	40662.330	14	.	.	4.0-	3.0	.	.	.	0.975	1.050	75			3753.0553	
2	26636.414	2	38435.630	-	11799.241	25	.	.	5.5-	5.5	.	.	.	1.150	1.373*	223		81*	3753.1924	
	26635.509	0																	3753.3199	
	26634.618	1																	3753.4455	

C	HAVE	NUMBER	I	T2	-	T1	0-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
	26634.365	1																			3753.4811		
1	26633.321	9R		26633.286-		0.000	35	1.0-	0.0	1.0-	0.0	1.124	.000		1.124	0.000	0	-113	-122	3753.6283			
	26633.015	6						4.0-	5.0			1.140	1.454	.314							3753.6714		
1	26632.215	1		12322.613-	38954.840	-12				2.0-	2.0				1.036	1.020*	16				3753.7841		
1	26631.991	6		36870.455-	10238.473	9		5.0-	6.0	5.0-	6.0	1.126	1.431	.305	1.125	1.431	306	048	48		3753.8157		
	26630.752	1																				3753.9904	
	26630.337	2																				3754.0489	
1	26629.883	9R		30929.516-	4299.659	26		1.0-	2.0	1.0-	2.0	2.282	1.504	.778	2.260	1.482	778	-79	-79		3754.1129		
1	26629.271	5		23832.853-	2203.606	24				2.0-	1.0				0.000	1.495*	0		-13		3754.1991		
	26628.592	0																				3754.2949	
	26628.170	0																				3754.3544	
	26627.953	0																				3754.3850	
	26627.536	2																				3754.4438	
	26627.318	1																				3754.4745	
	26626.796	1																				3754.5481	
	26626.326	1																				3754.6144	
2	26625.022	3H		36333.015-	9707.980	-13				5.5-	6.5				1.137	1.485	348		-15		3754.7983	HAZY	
	26624.433	0																				3754.8814	
	26623.336	0																				3755.0361	
1	26622.851	7		34397.513-	7774.653	-9		3.0-	4.0	3.0-	4.0	1.151	1.459	.308	1.155	1.463	308	-28	-30*		3755.1045	IS*	
	26622.064	1																				3755.2155	
	26621.877	0																				3755.2419	
2	26621.638	7		35863.985-	9242.356	9				4.5-	3.5				1.210	1.369*	159	+	-23*		3755.2756		
	26620.489	2																				3755.4377	
	26620.157	0																				3755.4845	
	26619.835	2																				3755.5299	
2	26619.505	4		35861.855-	9242.356	6				3.5-	3.5				1.155	1.369	214	+	32		3755.5765		
	26619.053	0																				3755.6403	
	26618.466	0																				3755.7231	
1	26616.927	9R		28820.548-	2203.606	-15		0.0-	1.0	0.0-	1.0	.000	1.506		0.000	1.495	0	-126	-141*		3755.9403		
	26616.498	1																				3756.0008	
	26616.063	1																				3756.0622	
	26615.854	1																				3756.0917	
2	26614.954	4		32332.915-	5717.976	15				4.5-	3.5				1.100	1.596*	496		-89		3756.2187		
	26614.465	2																				3756.2877	
	26613.826	0																				3756.3694	
	26613.576	0																				3756.4132	
	26612.490	2																				3756.5665	
	26611.833	0																				3756.6592	
	26610.875	3																				3756.7945	
	26610.475	1																				3756.8509	
	26609.568	1																				3756.9790	
	26609.108	1																				3757.0440	
	26608.935	1																				3757.0684	
1	26608.503	0		15249.635-	41858.135	3				2.0-	3.0				0.715	1.090	375				3757.1294		
	26608.209	1																				3757.1709	
	26607.033	0																				3757.3370	
2	26606.576	1		32324.550-	5717.976	2				3.5-	3.5				0.975	1.596	621				3757.4015		
1	26604.986	7		32749.507-	6144.515	-6		2.0-	3.0	2.0-	3.0	1.193	1.497	.304	1.166	1.473	307	-31	-20		3757.6261	IS*	
1	26603.642	9R		34378.267-	7774.653	28		4.0-	4.0	4.0-	4.0	1.275	1.467	.192	1.272	1.463	191	-68	-67		3757.8159		
	26602.792	0																				3757.9360	
	26602.164	3																				3758.0247	
	26601.378	4																				3758.1357	
	26600.620	2																				3758.2428	IS*
1	26599.949	9		36838.415-	10238.473	7		6.0-	6.0	6.0-	6.0	1.298	1.414	.116	1.318	1.431	113	-106	-107		3758.3376		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	26598.943	0																	3758.4798	
	26598.380	0																	3758.5593	
2	26598.042	6	33876.910-		7278.862	-6	3.5-	4.5	3.5-	4.5	1.017	1.519	.502	1.043	1.545	502	159	166*	3758.6071	
	26597.858	2																	3758.6331	
	26597.032	1																	3758.7498	
	26595.952	7R					3.0-	2.0			1.278	1.486	.208				22		3758.9025	IS*
	26595.509	1																	3758.9651	
	26595.269	4																	3758.9990	
	26594.800	3																	3759.0653	
1	26592.754	4	36831.210-		10238.473	17	5.0-	6.0	5.0-	6.0			.33	1.080	1.431*	351	38	33	3759.3545	SI IS*
	26592.259	2																	3759.4245	
	26591.130	0																	3759.5841	
	26590.529	0																	3759.6606	
2	26590.361	3	34058.695-		7498.364	30	2.5-	2.5	2.5-	2.5	1.38	1.38		1.340	1.321	19	-	-23*	3759.6928	JQ
2	26589.575	3	35831.915-		9242.356	16	. -	.	4.5-	3.5				1.170	1.369*	199			3759.8040	
	26588.483	0																	3759.9584	
	26586.717	1																	3760.2082	
	26585.099	0																	3760.4370	
1	26584.560	2H	12322.613-		38907.115	58	. -	.	2.0-	2.0				1.036	1.135	99			3760.5133	HAZY BQ
1	26584.068	5	32728.585-		6144.515	-2	3.0-	3.0	3.0-	3.0	.951	1.474	.523	0.947	1.473	526	-49	-59	3760.5829	
	26582.280	1																	3760.8358	
	26581.673	1																	3760.9217	
	26581.453	0																	3760.9528	
	26581.063	1																	3761.0080	
1	26580.310	5	32724.820-		6144.515	5	4.0-	3.0	4.0-	3.0	1.180	1.464	.284	1.186	1.473	287	-61	-61	3761.1146	
	26579.031	2																	3761.2956	
	26578.591	0																	3761.3578	
	26578.089	10U																	3761.4289	
	26577.576	1																	3761.5015	
	26577.347	1																	3761.5339	
	26576.078	1																	3761.7135	
	26575.757	3																	3761.7589	
	26575.220	1																	3761.8350	
2	26575.079	1	40566.005-		13990.952	26	. -	.	0.5-	1.5				1.170	1.728*	558			3761.8549	
2	26573.901	2	16499.640-		43073.510	31	. -	.	3.5-	4.5				0.773	0.950*	177		-132*	3762.0217	
	26573.196	1																	3762.1215	
	26572.997	0																	3762.1497	
2	26572.168	2	35210.405-		8638.233	-4	. -	.	4.5-	5.5				0.977	1.514	537			3762.2670	
	26571.780	1																	3762.3220	
	26570.233	3																	3762.5340	
	26568.592	2																	3762.7734	
	26568.121	1																	3762.8401	
1	26567.528	4	9724.351-		36291.840	39	. -	.	3.0-	3.0			.54	0.442	0.980	538	-254	-251	3762.9241	
	26566.869	0																	3763.0175	
	26566.318	1																	3763.0955	
1	26566.093	3	9385.801-		35952.890	4	. -	.	5.0-	4.0				0.801	1.100*	299			3763.1274	
2	26565.446	5	32283.420-		5717.976	2	2.5-	3.5	2.5-	3.5	1.051	1.595	.544	1.045	1.596	551	20	36	3763.2190	IS*
	26564.997	1																	3763.2827	
2	26564.075	0	22537.265-		49101.285	55	. -	.	5.5-	4.5				1.315	1.050*	265			3763.4133	
	26562.871	1																	3763.5839	
	26562.765	1																	3763.5989	
	26562.372	1																	3763.6546	
	26562.138	1																	3763.6877	
	26561.672	3																	3763.7538	
	26561.187	1																	3763.8225	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS		
1	26560.752	7	35740.015-		9179.262	-1	4.0-	5.0	4.0-	5.0	1.105	1.454	.349	1.105	1.454	349	-13	-13	3763.8841	ISQ
	26560.009	2U																	3763.9894	
	26559.522	1																	3764.0584	
	26558.789	1																	3764.1623	
2	26557.993	2	13809.910-40367.875			28	.	.	4.5-	4.5	.	.	.	0.657	1.175	518			3764.2752	
	26557.796	1																	3764.3031	
	26557.524	1																	3764.3416	
	26556.925	0																	3764.4265	
	26556.208	0																	3764.5282	
	26555.954	1																	3764.5642	
1	26555.331	6	6313.866-32869.165			32	4.0-	5.0	4.0-	5.0	.521	.952	.431	0.487	0.916	429	-242	-243	3764.6525	
2	26554.488	2	22409.025-48963.485			28	.	.	5.5-	4.5	.	.	.	1.205	1.055	150			3764.7720	
	26553.705	1																	3764.8830	
	26553.192	1																	3764.9558	
	26553.018	4																	3764.9804	IS*
	26552.250	1																	3765.0393	
	26552.052	0																	3765.1203	
	26551.627	0																	3765.1777	
2	26551.232	3	14476.135-41027.335			32	.	.	4.5-	4.5	.	.	.	1.060	0.895	165			3765.2337	
	26550.331	2																	3765.2337	
	26549.277	2																	3765.3615	
1	26548.863	0	11840.715-38389.560			18	.	.	3.0-	4.0	.	.	.	0.811	1.070	259			3765.5110	
2	26547.667	4	29783.410-3235.770			27	0.5-	0.5	0.5-	0.5	2.590	.307	2283	2.590	0.299*	2291			3765.5697	-204*
	26547.222	0																	3765.7393	27*
	26546.725	1																	3765.8025	
1	26546.324	7R	28749.920-2203.606			10	2.0-	1.0	2.0-	1.0	1.49	1.49		1.480	1.495*	15			3765.8730	IS* JQ
	26545.915	4																	3765.9299	
	26544.305	2																	3765.9879	DJO
2	26543.349	1	19466.530-46009.840			39	.	.	4.5-	4.5	.	.	.	1.151	1.050	101			3766.2163	
	26543.054	0																	3766.2163	
	26541.870	1																	3766.3520	
	26541.161	1																	3766.3938	
	26540.833	1																	3766.5618	
2	26539.758	3	32041.795-5502.060			23	.	.	1.5-	1.5	.	.	.	0.981	1.169	188			3766.6625	
	26539.340	1																	3766.7090	
	26538.808	1																	3766.8616	
	26537.648	3																	3766.9209	
	26537.317	0																	3766.9964	
	26537.107	0																	3767.1611	
	26536.323	1																	3767.2081	
	26536.065	1																	3767.2379	
2	26535.805	6	26535.775-0.000			30	0.5-	0.5	0.5-	0.5	-0.075	3.146	3221	-0.071	3.150	3221			3767.3492	
1	26535.415	7R	28738.988-2203.606			33	1.0-	1.0	1.0-	1.0	1.898	1.498	.400	1.892	1.495	397			3767.3858	
	26534.033	3																	3767.4227	
1	26532.621	2	12159.465-38692.075			11	.	.	4.0-	5.0	.	.	.	0.844	1.170*	326			3767.4781	IS*
	26532.163	1																	3767.6672	IS*
	26531.916	3					1.0-	2.0					.282						3767.8749	
	26530.975	4																	3767.9399	
1	26530.271	8R	32674.753-6144.515			28	3.0-	3.0	3.0-	3.0	1.192	1.473	.281	1.189	1.473	284			3767.9750	
	26528.391	2																	3768.1086	
	26528.210	2																	3768.2086	IS*
	26528.015	2																	3768.4757	
	26527.723	4																	3768.5014	
	26526.466	0																	3768.5291	
	26525.928	1																	3768.5699	IS*
																			3768.7491	
																			3768.8256	

C	HAVEN	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	26525.215	1	32669.730-	6144.515	0*	.	.	.	2.0-	3.0	.	.	.	0.965	1.473	508	.	.	3768.9269		
	26525.013	2																		3768.9556	
1	26524.803	5	36763.260-	10238.473	16	5.0-	6.0	5.0-	6.0	1.105	1.447	.342	1.089	1.431	342	+	21			3768.9854	
	26523.797	1																		3769.1284	
	26523.450	0																		3769.1777	
	26522.844	0																		3769.2638	
	26522.227	1																		3769.3515	
	26521.954	1																		3769.3903	
	26521.602	0																		3769.4403	
	26520.915	2																		3769.5380	
	26520.537	1																		3769.5917	
	26520.354	0																		3769.6177	
2	26518.561	1	43558.060-	17039.487	-12	.	.	.	0.5-	1.5	.	.	.	1.580	1.354*	226	.	.		3769.8726	
	26517.060	2																		3770.0832	
	26516.805	2																		3770.1223	
	26516.053	1																		3770.2249	
2	26515.552	7	34013.940-	7498.364	6	3.5-	2.5	3.5-	2.5	1.118	1.318	.200	1.121	1.321	200		52	68		3770.2962	
	26515.028	0																		3770.3749	
	26514.514	0																		3770.4480	
	26512.862	1																		3770.6830	
	26512.414	4																		3770.7467	
	26511.706	1																		3770.8474	
	26511.570	2																		3770.8667	
	26510.537	0																		3771.0137	
2	26510.088	5	12992.644-	39502.705	27	2.5-	3.5	2.5-	3.5	.606	.898	.292	0.643	0.920*	277		-155	-157		3771.0775	
2	26509.880	1	20063.650-	46573.560	30	.	.	.	4.5-	5.5	.	.	.	1.049	1.025	24				3771.1071	
2	26509.225	1	43234.910-	16745.720	35	.	.	.	3.5-	2.5	.	.	.	1.355	1.671	316				3771.2003	
	26508.672	1																		3771.2790	
1	26508.405	6	34283.083-	7774.653	-25	5.0-	4.0	5.0-	4.0	.	.	.	1.110	1.463	353			-25		3771.3170	SO JQ
	26507.284	2																		3771.4765	
2	26507.033	1	35749.300-	9242.356	89	.	.	.	2.5-	3.5	.	.	.	1.140	1.369*	229				3771.5122	
	26506.581	5																		3771.5765	f IS*
2	26505.982	3	33784.830-	7278.862	14	.	.	.	4.5-	4.5	.	.	.	1.070	1.545	475				3771.6617	
	26505.349	1																		3771.7518	
	26503.979	0																		3771.9468	
2	26503.204	1	13809.910-	40313.110	4	.	.	.	4.5-	4.5	.	.	.	0.657	1.010	353				3772.0571	
	26502.787	1																		3772.1164	
2	26502.519	1	42789.075-	16286.582	26	.	.	.	1.5-	0.5	.	.	.	1.215	0.122	1337				3772.1546	
1	26502.222	2	12322.613-	38824.820	15	.	.	.	2.0-	3.0	.	.	.	1.036	0.832	204				3772.1968	
	26500.923	3																		3772.3818	ISQ
	26500.545	1																		3772.4356	
1	26498.933	5	36737.406-	10238.473	0	7.0-	6.0	7.0-	6.0	1.088	1.436	.348	1.083	1.431	348					3772.6651	
	26498.507	1																		3772.7257	HAZY
	26498.019	2																		3772.7952	
	26497.442	0																		3772.8773	
1	26497.208	1	14737.788-	41234.990	6	.	.	.	3.0-	4.0	.	.	.	0.815	1.080	265				3772.9107	
1	26496.006	3	6313.866-	32809.844	28	4.0-	4.0	4.0-	4.0	.	.	.405	0.487	0.900	413					3773.0818	ISQ
	26495.623	1																		3773.1357	
	26495.357	1																		3773.1743	
	26495.017	1																		3773.2227	
	26494.260	1																		3773.3305	
1	26493.548	1	12159.465-	38652.990	23	.	.	.	4.0-	4.0	.	.	.	0.844	1.090*	246				3773.4319	
1	26492.695	4	28696.299-	2203.606	2*	0.0-	1.0	0.0-	1.0	.000	1.487	.	0.000	1.495	0					3773.5534	
2	26492.414	8	32210.400-	5717.976	-10	2.5-	3.5	2.5-	3.5	1.338	1.589	.251	1.339	1.596	257					3773.5934	IS*
	26491.106	0																		3773.7797	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES		
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS
	26490.871	0																				
	26489.814	1																				
1	26489.360	3	6513.866	-	32803.199	27	.	.	4.0-	3.0	.	.	.	0.487	0.825	338	-161	-160	3773.8132			
	26489.233	1					.	.			.	.	.						3773.9638	IS*
	26488.428	0					.	.			.	.	.						3774.0285	
	26487.762	0					.	.			.	.	.						3774.0466	
1	26486.863	9R	28690.482	-	2203.606	-13	1.0-	1.0	1.0-	1.0	1.201	1.497	.296	1.195	1.495	300		16	3774.1527			
	26486.494	1					.	.			.	.	.						3774.2562	
	26486.206	1					.	.			.	.	.						3774.3843	
	26484.809	1					.	.			.	.	.						3774.4369	
	26484.391	0					.	.			.	.	.						3774.4779	
	26483.920	1					.	.			.	.	.						3774.6770	
	26483.331	1					.	.			.	.	.						3774.7366	
	26482.961	0					.	.			.	.	.						3774.8037	
	26482.605	1					.	.			.	.	.						3774.8877	
	26482.443	0					.	.			.	.	.						3774.9404	
	26480.749	1					.	.			.	.	.						3774.9912	
1	26480.001	2	9724.351	-	36204.345	7	.	.	3.0-	3.0	.	.	.	0.442	1.200	758			3775.0143			
2	26479.286	0	14476.135	-	40955.385	36	.	.	4.5-	3.5	.	.	.	1.060	0.850	210			3775.2558			
	26479.105	0										-189	3775.3624		
	26478.486	0										-482*	3775.4644		
2	26477.996	8	33756.860	-	7278.862	-2	3.5-	4.5	3.5-	4.5	1.271	1.544	.273	1.272	1.545	273	-38	-44	3775.4902			
2	26477.317	3	38276.535	-	11799.241	23	.	.	5.5-	5.5	.	.	.	1.200	1.373*	173		25	3775.5784			
	26476.359	0											3775.6483		
2	26475.951	3	15641.100	-	42117.035	16	.	.	3.5-	2.5	.	.	.	1.040	0.835*	205			3775.7451			
	26475.707	0										-87*	3775.8817		
	26474.757	1											3775.9399		
	26473.586	3											3775.9747		
1	26472.973	1	14025.007	-	40497.975	5	.	.	4.0-	5.0	.	.	.	0.975	1.060*	85			3776.1102			
	26471.960	2										-263	3776.2773		
1	26470.538	9R	30770.199	-	4299.659	-2	2.0-	2.0	2.0-	2.0	1.233	1.493	.260	1.216	1.482	266	-67	-72	3776.3647			
1	26469.907	7	35649.165	-	9179.262	4	5.0-	5.0	5.0-	5.0	1.200	1.468	.268	1.186	1.454	268	28	30	3776.5092			
	26469.325	0											3776.7121		
2	26468.639	1	17242.750	-	43711.415	24	.	.	2.5-	3.5	.	.	.	1.200	0.955*	245			3776.8021	IS*		
	26468.442	1											3776.8852		
	26467.486	0											3776.9759		
	26467.031	1											3777.0112		
	26466.486	2											3777.1476		
1	26466.132	6	34240.784	-	7774.653	1	3.0-	4.0	3.0-	4.0	.	.	.396	1.067	1.463	396	-45	-65	3777.2125	SO PBISQ		
	26465.728	1											3777.2903		
	26465.300	1											3777.3409		
	26464.934	4					1.0-	2.0			.	.	.493						0	3777.3900		
1	26464.934	4	35644.175	-	9179.262	21	.	.	4.0-	5.0	.	.	.	1.100	1.454	354			3777.4596	2LNS IS*		
	26464.237	1											3777.5118	2LNS	
1	26463.943	1	13726.661	-	40190.580	24	.	.	3.0-	2.0	.	.	.	1.150	0.920	230			3777.6113			
	26463.690	4					1.0-	2.0			1.45	1.13							0	3777.6533		
1	26463.515	1	13517.647	-	39981.145	17	.	.	2.0-	3.0	.	.	.	0.892	0.905	13			3777.6894	IS*		
1	26463.515	1	9386.801	-	35859.314	2	.	.	5.0-	6.0	.	.	.	0.801	1.040*	239			3777.7144	C2		
2	26463.160	3	33262.375	-	11799.241	26	.	.	6.5-	5.5	.	.	.	1.060	1.373*	313			3777.7144	C2		
	26462.760	0											3777.7651		
	26462.603	0											3777.8222		
	26462.105	1											3777.8446		
	26461.873	1											3777.9157		
	26461.598	2											3777.9488		
2	26459.908	4	15657.156	-	42117.035	29	2.5-	2.5	2.5-	2.5	.	.	.17	1.000	0.835	165			3777.9881			
													-75*	3778.2294	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HA	LENGTH	NOTES
								J2 - J1	J2 - J1	J2 - J1	G2				G1	DG	G2	G1	DG				IS	IS
		26458.726	1																		3778.3982	
		26458.376	2																		3778.4482	
		26456.945	3																		3778.6525	
2		26456.517	1	20121.145	-	46577.625	37	.	.	2.5-	3.5	.	.	.	0.710	0.750*	40			3778.7137		
		26456.001	2																		3778.7874	
		26455.259	3																		3778.8934	
		26453.716	1																		3779.1138	
1		26453.438	4	34228.090	-	7774.653	1	4.0-	4.0	4.0-	4.0	1.05	1.46	.41	1.050	1.463*	413	-	-5*	3779.1535	PB	
		26452.569	0																		3779.2777	
		26452.202	3																		3779.3301	
2		26451.902	3	36159.885	-	9707.980	-3	.	.	6.5-	6.5	.	.	.	1.090	1.485	395	+	20*	3779.3730		
		26451.629	2																		3779.4120	
		26450.503	1																		3779.5733	
		26450.261	4																		3779.6074	IS*
		26449.824	0																		3779.6699	
1		26449.352	7	36687.810	-	10238.473	15	6.0-	6.0	6.0-	6.0	1.147	1.438	.291	1.140	1.431	291	-83	-84	3779.7373	IS*	
		26448.353	4																		3779.8794	
		26446.865	1																		3780.0928	
2		26446.440	3	16593.963	-	43040.400	3	.	.	2.5-	1.5	.	.	.	0.983	0.740*	243			3780.1535		
		26446.153	2																		3780.1946	
1		26445.784	2	9724.351	-	36170.110	25*	.	.	3.0-	4.0	.	.	.	0.442	0.942*	500			3780.2473		
		26444.862	1																		3780.3791	
		26443.861	0																		3780.5222	
1		26443.583	0	9386.801	-	35830.380	4	.	.	5.0-	4.0	.	.	.	0.801	0.965	164			3780.5620		
		26443.269	0																		3780.6040	
		26442.776	1																		3780.6773	
		26442.294	0																		3780.7462	
1		26441.622	2	6313.866	-	32755.472	16	.	.	4.0-	4.0	.	.	.	0.487	1.005	518			3780.8423		
2		26440.876	1	41133.945	-	14693.090	21	.	.	1.5-	0.5	.	.	.	1.210	0.840*	370			3780.9490		
		26440.531	0																		3780.9983	
		26440.258	2																		3781.0374	
1		26439.849	1	12177.963	-	38617.815	-3	.	.	1.0-	1.0	.	.	.	0.525	1.035	510			3781.0959		
		26439.284	0																		3781.1767	
		26437.905	1																		3781.3739	
		26437.531	4					5.5-	5.5												3781.4274	
		26436.768	1																		3781.5365	
		26436.507	1																		3781.5739	
1		26435.602	0	14737.728	-	41173.380	10*	.	.	3.0-	4.0	.	.	.	0.815	1.150	335			3781.7033		
		26434.823	1																		3781.8148	
		26434.627	0																		3781.8428	
		26434.282	2																		3781.8922	
		26433.840	1																		3781.9554	
		26433.113	3																		3782.0594	
		26431.962	1																		3782.2241	
		26431.641	0																		3782.2701	
		26430.921	0																		3782.3731	
		26430.572	0																		3782.4231	
2		26430.277	4H	16362.000	-	42792.230	47	.	.	4.5-	3.5	1.55	1.55		1.050	0.900*	150	-		3782.4653	DJ1 CQ	
1		26429.723	4	8768.139	-	35197.829	33	2.0-	3.0	2.0-	3.0	.355	1.072	.717	0.362	1.080	718	-236	-225	3782.5446		
		26427.552	0																		3782.8553	
		26426.483	0																		3783.0083	
2		26426.255	1	22537.265	-	48963.485	35	.	.	5.5-	4.5	.	.	.	1.315	1.055	260			3783.0410		
		26425.308	0																		3783.1765	
		26425.138	1																		3783.2009	
		26424.926	0																		3783.2312	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	26422.768	0																	3783.5402	
	26422.413	0																	3783.5911	
	26421.546	1																	3783.7152	
	26421.227	0																	3783.7609	
	26420.812	1																	3783.8203	
2	26420.631	2	21570.405-	48091.025	11	.	.	1.5-	2.5					2.328	1.100	1228			3783.8463	C2
2	26420.631	2	18720.075-	45140.685	21	.	.	3.5-	2.5					1.060	0.850	210			3783.8463	C2
	26419.926	1																	3783.9472	
	26418.864	4						5.0-	6.0										3784.0993	JQ
	26418.318	3																	3784.1776	
1	26417.364	6	8768.139-	35185.490	13	2.0-	1.0	2.0-	1.0	.369	.914	.545		0.362	0.905	543	-216	-214	3784.3142	
	26415.623	6								.970							-91		3784.5636	f
2	26414.936	4	31916.975-	5502.060	21	.	.	1.5-	1.5					1.363	1.169	194		43*	3784.6621	
	26414.139	1																	3784.7763	
	26413.874	0																	3784.8142	
	26413.279	1																	3784.8995	
1	26412.431	1	11840.715-	38253.110	36	.	.	3.0-	4.0					0.811	0.920*	109		-218	3785.0210	
2	26411.870	4	30381.705-	3969.846	11	3.5-	2.5	3.5-	2.5	1.116	1.677	.561		1.109	1.670	561		-57	3785.1014	
	26410.994	1																	3785.2270	
	26410.675	0																	3785.2727	
	26410.167	1																	3785.3455	
	26409.930	1																	3785.3795	
	26409.771	1																	3785.4023	
1	26407.839	4	32552.325-	6144.515	29	2.0-	3.0	2.0-	3.0	.998	1.486	.488		0.982	1.473	491	-63	-63	3785.6792	
	26407.261	1																	3785.7621	
	26406.961	1																	3785.8051	
2	26406.833	1	28421.805-	2014.966	-6	.	.	2.5-	1.5					0.878	1.881	1003		-45	3785.8234	
	26406.278	2																	3785.9030	
	26405.973	0																	3785.9467	
	26405.196	1																	3786.0581	
	26404.294	1																	3786.1875	
	26403.969	0																	3786.2341	
	26403.544	1																	3786.2950	
1	26402.650	0	15074.958-	41477.600	8	.	.	7.0-	7.0					1.097	1.085	12		-145	3786.4232	
	26402.094	1																	3786.5030	
1	26401.173	0	13726.661-	40127.800	34*	.	.	3.0-	4.0					1.150	1.020	130			3786.6351	
2	26400.701	2	19317.370-	45718.025	46	.	.	4.5-	3.5					1.225	1.065	160			3786.7028	
2	26400.102	1	19632.555-	46032.640	17	.	.	1.5-	1.5					1.010	0.000*	0			3786.7887	
1	26399.623	6	35578.900-	9179.262	-15	5.0-	5.0	5.0-	5.0	1.187	1.448	.261		1.193	1.454	261	-46	-46	3786.8574	
	26397.588	3																	3787.1493	
	26397.178	1																	3787.2082	
1	26396.772	7	36635.245-	10238.473	0	7.0-	6.0	7.0-	6.0	1.090	1.400	.310		1.120	1.431*	311	117	117	3787.2664	
	26395.863	0																	3787.3968	
2	26395.488	0	35637.895-	9242.356	-51	.	.	3.5-	3.5					1.158	1.369	211			3787.4506	
	26394.763	0																	3787.5547	
	26394.197	0																	3787.6359	
	26393.534	0																	3787.7311	
	26392.920	0																	3787.8192	
	26391.630	2																	3788.0043	
	26391.273	0																	3788.0556	
	26391.106	0																	3788.0795	
	26390.803	2																	3788.1230	
	26390.456	1																	3788.1728	
2	26389.841	3	35028.065-	8638.233	9	.	.	4.5-	5.5					1.144	1.514	370		158	3788.2611	
	26389.621	3				2.0-	3.0					.408							3788.2927	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	26389.160	1																		3788.3589	
	26388.327	0																		3788.4785	
	26337.330	1																		3788.6216	
	26387.035	0																		3788.6568	
	26385.851	2																		3788.8340	
2	26385.532	7	29621.300-		3235.770	2	1.5-	0.5	1.5-	0.5	1.074	.338	.736	1.045	0.299	746	68	77*	3788.8798		
	26385.190	1																		3788.9289	
	26384.577	1																		3789.0169	
	26333.932	5									1.10	1.10							-338	3789.1096	
1	26333.587	2	14853.317-		41236.870	34	. -	.	4.0-	4.0				0.786	1.020	234			3789.1591		
	26333.311	1																		3789.1988	
	26382.704	1																		3789.2859	
1	26381.709	2B	14853.317-		41234.990	36	. -	.	4.0-	4.0				0.786	1.080	294			-170	3789.4289	
	26381.593	2B																		3789.4455	
	26381.014	0																		3789.5287	
1	26379.605	4	9386.801-		35766.380	26	5.0-	4.0	5.0-	4.0	.778	1.032	.254	0.801	1.055	254	-148	-146	3789.7311		
2	26378.571	6	33876.910-		7498.364	25	3.5-	2.5	3.5-	2.5	1.051	1.331	.280	1.043	1.321	278	193	182*	3789.8797		
	26378.117	1																		3789.9449	
1	26377.118	5	35556.380-		9179.262	0	. -	.	6.0-	5.0			.358	1.100	1.454*	354			+	3790.0884	DJ1 DGQ
	26376.458	1																		3790.1833	
1	26375.926	5	34150.575-		7774.653	4	4.0-	4.0	4.0-	4.0			.477	0.985	1.463	478	117	114	3790.2597		
1	26374.569	6	32519.048-		6144.515	36	2.0-	3.0	2.0-	3.0	.889	1.479	.590	0.880	1.473	593	-93	-95	3790.4547		
	26372.914	0																		3790.6926	
	26372.421	0																		3790.7635	
	26372.173	1																		3790.7991	
1	26371.411	4	30671.063-		4299.659	7	1.0-	2.0	1.0-	2.0	.760	1.471	.711	0.771	1.482	711	71	71	3790.9087		
2	26359.115	2	41062.170-		14693.090	35	. -	.	1.5-	0.5				1.425	0.840	585			3791.2387		
	26368.066	1																		3791.3896	
2	26367.785	1H	19317.370-		45685.090	65	. -	.	4.5-	4.5				1.225	0.955	270			3791.4300		
2	26366.874	1	20121.145-		46488.000	19	. -	.	2.5-	2.5				0.710	1.000*	290			3791.5610		
	26366.430	1																		3791.6248	
2	26364.981	3	35607.320-		9242.356	17	. -	.	3.5-	3.5				1.150	1.369	219			3791.8332		
1	26364.281	2	11840.715-		38204.990	6	. -	.	3.0-	3.0				0.811	1.085	274			-281	3791.9339	
	26363.428	1																		3792.0566	
1	26362.295	9R	28565.887-		2203.606	14	2.0-	1.0	2.0-	1.0	.912	1.493	.581	0.911	1.495	584	-108	-114	3792.2196		
	26361.823	3																		3792.2875	
	26361.635	1																		3792.3145	
	26360.584	1																		3792.4657	
	26360.289	1																		3792.5082	
	26359.316	1																		3792.6482	
	26359.051	0																		3792.6863	
	26358.830	0																		3792.7181	
	26358.519	0																		3792.7628	
2	26358.213	2	37084.510-		10726.322	25	. -	.	3.5-	4.5				1.080	1.391*	311			3792.8069		
	26357.854	3																		3792.8585	
	26357.367	1																		3792.9286	
	26356.854	2																		3793.0024	
	26355.996	2																		3793.1259	
	26355.589	1																		3793.1845	
1	26355.198	2	6313.866-		32669.040	24	. -	.	4.0-	3.0				0.487	1.000*	513			-181	3793.2408	
	26354.261	0																		3793.3757	
	26353.508	0																		3793.4696	
	26352.674	0																		3793.6041	
	26351.583	1																		3793.7612	
	26351.085	1																		3793.8327	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	26351.021	0	40341.970-13990.952		3	.	.	1.5-	1.5	.	.	.	0.890	1.728*	838			3793.8421	
	26350.350	2				.	.			.	.	.						3793.9372	
	26350.091	1				.	.			.	.	.						3793.9760	
	26349.666	1				.	.			.	.	.						3794.0372	
	26349.078	3				1.5-	2.5			.	.	.						3794.1218	SO JQ
	26347.617	1				.	.			.	.	.						3794.3322	
	26347.090	0				.	.			.	.	.						3794.4081	
	26346.508	2				.	.			.	.	.						3794.4920	
1	26346.228	6	30645.856- 4299.659		31	2.0-	2.0	2.0-	2.0	1.551	1.492	.059	1.541	1.482	59	-81	-81	3794.5323	
	26345.203	1				.	.			.	.	.						3794.6792	
	26345.054	2				.	.			.	.	.						3794.7014	
	26344.086	1				.	.			.	.	.						3794.8408	
	26343.003	0				.	.			.	.	.						3794.9968	
	26342.834	1				.	.			.	.	.						3795.0212	
	26342.084	1				.	.			.	.	.						3795.1292	
	26341.757	2				.	.			.	.	.						3795.1763	
2	26341.070	2	40331.990-13990.952		32	.	.	0.5-	1.5	.	.	.	1.920	1.728*	192			3795.2753	
1	26340.575	3	12351.522-38692.075		22	.	.	6.0-	5.0	.	.	.	0.995	1.170*	175			3795.3467	
	26340.204	0				.	.			.	.	.						3795.4001	
	26339.607	3				1.5-	2.5			.90	1.55	.65						3795.4861	
	26339.332	1				.	.			.	.	.						3795.5258	
	26338.050	1				.	.			.	.	.						3795.7105	
	26337.928	1				.	.			.	.	.						3795.7281	
	26337.763	1				.	.			.	.	.						3795.7519	
	26336.904	0				.	.			.	.	.						3795.8757	
	26335.683	0				.	.			.	.	.						3796.0517	
2	26335.360	2	14561.607-40896.955		12	.	.	1.5-	1.5	.	.	.	1.149	0.800*	349			3796.0982	
	26335.066	1				.	.			.	.	.						3796.1406	
	26333.605	1				.	.			.	.	.						3796.3512	
	26332.995	1				.	.			.	.	.						3796.4392	
	26332.319	1				.	.			.	.	.						3796.5366	
	26332.120	1				.	.			.	.	.						3796.5653	
1	26331.375	1	10486.922-36818.300		-3	.	.	1.0-	1.0	.	.	.	0.355	1.103*	748		-238	3796.6728	
	26331.045	0				.	.			.	.	.						3796.7203	
	26330.464	1				.	.			.	.	.						3796.8041	
	26329.878	0				.	.			.	.	.						3796.8886	
1	26328.566	5	34103.210- 7774.653		9	5.0-	4.0	5.0-	4.0	.973	1.418	.445	1.028	1.463	435	66	66	3797.0778	
2	26327.968	1	21359.050-47687.019		-1	.	.	2.5-	2.5	.	.	.	1.254	0.000*	0			3797.1641	
	26327.150	1				.	.			.	.	.						3797.2821	
	26326.858	1				.	.			.	.	.						3797.3242	
2	26326.609	3	34964.825- 8638.233		17	.	.	4.5-	5.5	.	.	.	1.122	1.514	392		40	3797.3601	
	26325.474	3				.	.			.	.	.						3797.5238	
	26325.226	1				.	.			.	.	.						3797.5596	
1	26324.893	3	14912.011-41236.870		34	4.0-	4.0	4.0-	4.0	.493	1.029	.536	0.496	1.020	524			3797.6076	
2	26324.386	0	19863.335-46187.750		-29	.	.	2.5-	1.5	.	.	.	0.921	0.740	181			3797.6808	
	26323.427	1				.	.			.	.	.						3797.8191	
	26322.232	0				.	.			.	.	.						3797.9916	
	26322.139	0				.	.			.	.	.						3798.0050	
	26321.831	0				.	.			.	.	.						3798.0494	
2	26320.802	2	29556.550- 3235.770		22	.	.	1.5-	0.5	.	.	.	0.484	0.299	185		-77	3798.1979	
1	26320.579	1	8768.139-35038.705		13	.	.	2.0-	1.0	.	.	.	0.362	1.380	1018			3798.2301	
1	26320.058	2	14853.317-41173.380		-5*	.	.	4.0-	4.0	.	.	.	0.786	1.153	364			3798.3053	
	26319.002	1				.	.			.	.	.						3798.4577	
1	26318.504	5	34093.140- 7774.653		17	3.0-	4.0	3.0-	4.0	1.057	1.467	.410	1.053	1.463	410	-38	-38	3798.5296	
	26317.769	2				.	.			.	.	.						3798.6356	

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	26317.551	1																	3798.6671	
	26317.078	1																	3798.7354	
	26316.194	1																	3798.8630	
	26315.493	0																	3798.9642	
1	26314.854	6	32459.347-	6144.515	22	3.0-	3.0	3.0-	3.0	1.121	1.478	.357	1.118	1.473	355	-60	-53	3799.0564		
2	26314.624	3	32032.585-	5717.976	15	.	.	4.5-	3.5	.	.	.	1.335	1.596	261		-12	3799.0896		
	26313.787	2																	3799.2105	
	26313.436	1																	3799.2612	
1	26312.697	9R	30612.323-	4299.659	33	3.0-	2.0	3.0-	2.0	.	.	.	1.408	1.482	74	-90	-90	3799.3679		
	26310.958	5															0		3799.6190	IS*
2	26309.824	4	13192.903-	39502.705	22	.	.	2.5-	3.5	.	.	.	0.372	0.920*	548		-161	3799.7828		
	26309.452	4																	3799.8365	
2	26309.101	1	8709.640-	35018.725	16	.	.	3.5-	3.5	.	.	.	0.308	0.911	603		-146	3799.8872		
	26308.698	1																	3799.9454	
	26308.316	1																	3800.0006	
	26308.168	0																	3800.0220	
2	26306.914	4	12048.548-	38355.450	12	1.5-	1.5	1.5-	1.5	-0.060	.709	.769	-0.054	0.698	752		-99	3800.2031		
	26305.981	1																	3800.3379	
	26305.081	1																	3800.4679	
	26304.493	2																	3800.5529	
	26304.209	2																	3800.5939	
	26303.433	2																	3800.7060	
	26303.163	5				4.0-	5.0			1.288	1.454	.166					-101	3800.7451	SI JQ	
	26302.795	2																	3800.7982	
	26302.012	3																	3800.9114	
1	26301.079	7	32445.590-	6144.515	4	4.0-	3.0	4.0-	3.0	1.130	1.476	.345	1.125	1.473	348	37	42	3801.0462	IS*	
	26300.641	1																	3801.1095	
1	26300.435	4	34075.080-	7774.653	8	.	.	3.0-	4.0	.	.	.	0.975	1.463	488	-60	-64	3801.1393		
	26300.250	2																	3801.1660	
1	26299.687	0	11340.715-	32140.400	2	.	.	3.0-	3.0	.	.	.	0.811	1.120*	309			3801.2474		
1	26299.014	5	9386.801-	35685.835	-20	.	.	5.0-	5.0	.	.	.	0.801	1.104	303	-122	-123	3801.3447		
	26298.422	0																	3801.4303	
	26297.785	0																	3801.5223	
	26297.227	3										.37							3801.6030	DJO 2J06
	26297.035	0																	3801.6308	
1	26296.821	1	9724.351-	36021.165	7	.	.	3.0-	3.0	.	.	.	0.442	1.048	606		-156	3801.6617		
	26296.277	1																	3801.7403	
2	26295.560	2	38094.785-	11799.241	16	.	.	5.5-	5.5	.	.	.	1.090	1.373*	283			3801.8440		
	26295.110	0																	3801.9091	
	26294.714	1																	3801.9663	
	26294.349	1																	3802.0191	
	26294.027	3																	3802.0657	
1	26293.620	7R	35472.852-	9179.262	30	5.0-	5.0	5.0-	5.0	1.200	1.454	.254	1.200	1.454	254	-32	-28	3802.1245		
2	26292.631	3	16499.640-	42792.230	41	.	.	3.5-	3.5	.	.	.	0.773	0.900	127			3802.2675		
	26291.560	3																	3802.4224	
	26291.000	1																	3802.5034	
1	26290.370	5	36528.843-	10238.473	0	7.0-	6.0	7.0-	6.0	1.133	1.434	.301	1.130	1.431	301			3802.5946		
2	26289.956	2	37016.265-	10726.322	13	.	.	5.5-	4.5	.	.	.	1.150	1.391	241			3802.6544		
	26289.630	2																	3802.7016	
2	26289.423	1	17532.937-	43822.335	25	.	.	3.5-	2.5	.	.	.	1.238	0.950*	288		-195*	3802.7315		
	26289.040	1																	3802.7869	
	26287.955	0																	3802.9439	
	26287.557	1																	3803.0015	
1	26286.425	2	8768.139-	35054.565	-1	.	.	2.0-	3.0	.	.	.	0.362	0.998	636		-204	3803.1653		
	26286.144	2																	3803.2059	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	26235.912	2	37012.210-10726.322	24	.	.	.	4.5-	4.5	.	.	.	.	.	1.164	1.391	227	91	3803.2395			
1	26284.914	3	12177.953-38462.875	2	.	.	.	1.0-	1.0	.	.	.	.	.	0.525	0.765	240	-229	3803.3839			
1	26284.369	5	36522.818-10238.473	24	5.0-	6.0	5.0-	6.0	1.078	1.402	.324	.	.	.	1.104	1.431	327	11	3803.4627			
2	26233.578	6	35525.910-9242.356	24	4.5-	3.5	4.5-	3.5	1.178	1.370	.192	.	.	.	1.176	1.369	193	46 52*	3803.5772			
	26282.577	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3803.7221		
2	26282.170	0	20063.650-46345.820	0	.	.	.	4.5-	4.5	.	.	.	.	.	1.049	1.030	19		3803.7810			
	26281.652	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3803.8560		
	26280.557	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3804.0145		
2	26280.244	1	40973.325-14693.090	9	.	.	.	0.5-	0.5	.	.	.	.	.	0.485	0.840	355		3804.0598			
	26279.870	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3804.1139		
	26279.036	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3804.2274		
	26278.750	2			0.0-	1.0				1.027										3804.2760	f	
	26278.009	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3804.3833	
	26276.341	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3804.6248	
	26275.902	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3804.6884	
	26275.221	3			0.5-	0.5						105								3804.7870	JQ	
1	26274.659	4	35453.905-9179.262	16	4.0-	5.0	4.0-	5.0	1.115	1.444	.329	.	.	.	1.130	1.454	324	-	3804.8684	ISQ		
	26274.202	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3804.9346	
	26273.870	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3804.9826	
	26272.612	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3805.1648	
2	26272.314	2	17296.905-43569.180	39	.	.	.	4.5-	3.5	.	.	.	.	.	0.494	1.005	511		3805.2080			
2	26272.013	1	20073.840-46345.820	33	.	.	.	5.5-	4.5	.	.	.	.	.	0.790	1.030*	240		3805.2516			
2	26270.780	4	13809.910-40080.685	5	4.5-	5.5	4.5-	5.5	.66	1.06	.40	.	.	.	0.657	1.060*	403	-203	3805.4302			
	26270.081	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3805.5315	
2	26269.227	3	34907.455-8638.233	5	.	.	.	6.5-	5.5	.	.	.	.	.38	1.100	1.514*	414	95	3805.6552			
	26268.562	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3805.7515	
1	26267.380	9R	28470.960-2203.606	26	2.0-	1.0	2.0-	1.0	1.092	1.484	.392	.	.	.	1.104	1.495	391	-127 -115	3805.9228	IS*		
	26265.464	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.2004	
	26265.023	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.2643	
	26264.706	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.3103	
	26264.378	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.3578	
	26263.246	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.5219	
	26261.622	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.7573	
1	26261.407	1	14912.011-41173.380	38*	.	.	.	4.0-	4.0	.	.	.	.	.	0.496	1.150	654		3806.7884			
	26261.220	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.8155	
	26259.971	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3806.9966	
1	26258.967	2	6313.866-32572.811	22	.	.	.	4.0-	5.0	.	.	.	.	.	0.487	1.010*	523	-251	3807.1422			
2	26258.509	5	33756.860-7498.364	13	3.5-	2.5	3.5-	2.5	1.27	1.31	.04	.	.	.	1.272	1.321	49	-28	3807.2086			
	26257.003	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3807.4270	
2	26256.693	5	31758.755-5502.060	-2	.	.	.	2.5-	1.5	.	.	.	.	.	1.270	1.169	101	+	3807.4719	PBQ		
	26255.448	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3807.6525	
	26254.955	3			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3807.7240	
2	26254.424	4	31972.395-5717.976	5	4.5-	3.5	4.5-	3.5	1.214	1.596	.382	.	.	.	1.210	1.596*	386	-	3807.8010			
	26253.802	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3807.8912	
2	26253.531	3	33532.385-7278.862	8	5.5-	4.5	5.5-	4.5	.	.	.21	.	.	.	1.341	1.545	204	-	4	3807.9305		
2	26253.374	3	30223.215-3969.846	5	2.5-	2.5	2.5-	2.5	.	.	.641	.	.	.	1.025	1.670	645	49	3807.9533			
	26253.134	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3807.9881	
2	26252.833	0	24659.305-50912.115	23	.	.	.	4.5-	3.5	.	.	.	.	.	1.140	0.950*	190		3808.0317			
1	26252.572	3	14025.007-40277.550	29*	.	.	.	4.0-	5.0	.	.	.	.	.	0.975	1.125	150		3808.0696			
2	26251.133	2	20063.650-46314.760	23	.	.	.	4.5-	3.5	.	.	.	.	.	1.049	1.055	6		3808.2783			
2	26250.829	4	36977.120-10726.322	31	.	.	.	5.5-	4.5	.	.	.	.	.	1.125	1.391	266	0 4*	3808.3225	IS*		
1	26250.122	7R	26250.080-0.000	42	1.0-	0.0	1.0-	0.0	1.290	.000		.	.	.	1.290	0.000*	0	-36 -30	3808.4250	IS*		
	26249.870	3			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3808.4616	
	26248.933	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3808.5888	
	26248.524	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		3808.6569	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		TERM	IS	IS	WAVELENGTH	NOTES	
							J2	J1	J2	J1							G2	G1						DG	IS	IS
2	26247.947	5	35955.905-		9707.980	22	.	.	6.5-	6.5	.	.	.	1.140	1.485*	345	+		47			3808.7406		
	26247.131	1					.	.			.	.	.									3808.8590	
	26246.703	3											0			3808.9211	IS*
	26245.679	3					.	.			.	.	.									3809.0697	
	26245.515	1					.	.			.	.	.									3809.0936	
1	26245.246	7R	30544.891-		4299.659	14	3.0-	2.0	3.0-	2.0	.941	1.465	.524	0.958	1.482	524	-58		-58			3809.1326		
2	26245.054	7	28259.990-		2014.966	30	1.5-	1.5	1.5-	1.5	1.271	1.839	.618	1.263	1.881	618			143			3809.1605		
	25244.847	3					.	.			.	.	.									3809.1905	
1	26242.456	8R	28446.024-		2203.606	38	1.0-	1.0	1.0-	1.0	.750	1.497	.747	0.745	1.495	750	-80		-84			3809.5376	IS*	
2	26242.032	4	33520.920-		7278.862	24	.	.	4.5-	4.5	.	.	.	0.996	1.545	549						3809.5919		
2	26241.342	3	36967.635-		10726.322	29	.	.	4.5-	4.5	.	.	.	1.190	1.391	201						3809.6993		
	26240.524	1					.	.			.	.	.									3809.8181	
	26240.353	3					.	.			.	.	.									3809.8422	
	26239.233	0					.	.			.	.	.									3810.0055	
	25238.769	2					.	.			.	.	.									3810.0729	
2	26237.979	8	28252.945-		2014.966	0	0.5-	1.5	0.5-	1.5	.904	1.874	.970	0.920	1.881	961	-165		-25	-10		3810.1876	IS*	
2	26237.649	2	35479.995-		9242.356	10	.	.	3.5-	3.5	.	.	.	1.335	1.369	34						3810.2355		
	26236.124	0					.	.			.	.	.									3810.4570	
	25235.365	1					.	.			.	.	.									3810.5673	
	26234.887	2					.	.			.	.	.									3810.6367	
	26232.865	0					.	.			.	.	.									3810.9304	
2	26232.571	1	23671.715-		45904.305	-19	.	.	3.5-	3.5	.	.	.	1.380	0.000*	0						3810.9731		
	26231.050	2					.	.			.	.	.									3811.1941	
1	26230.347	1	13726.661-		39956.990	18	.	.	3.0-	2.0	.	.	.	1.150	1.050	100						3811.2963		
1	26229.657	9R	34004.281-		7774.653	29	5.0-	4.0	5.0-	4.0	1.243	1.466	.223	1.239	1.463	224	-104		-78			3811.3965	IS*	
	26229.195	3					.	.			.	.	.									3811.4637	
	26228.719	0					.	.			.	.	.									3811.5328	
1	26228.546	2	9724.351-		35952.890	7	.	.	3.0-	4.0	.	.	.	0.442	1.100*	658						3811.5580		
2	26227.218	6	13809.910-		40037.110	18*	4.5-	5.5	4.5-	5.5	.	.	.227	0.657	0.884	227	-		-41			3811.7510		
1	26226.717	3	9386.801-		35613.490	28	5.0-	5.0	5.0-	5.0	.	.	.296	0.801	1.090*	289	-246		-256			3811.8238		
2	26225.590	3	11504.095-		37729.665	20	.	.	3.5-	2.5	.	.	.	0.859	1.050*	191						3811.9876		
	26224.061	1					.	.			.	.	.									3812.2099	
	26223.910	0					.	.			.	.	.									3812.2318	
2	26223.435	9	30193.265-		3969.846	17	1.5-	2.5	1.5-	2.5	1.368	1.673	.305	1.364	1.670	306	18		8			3812.3007		
2	26222.681	1	33721.040-		7498.364	5	.	.	1.5-	2.5	.	.	.	1.228	1.321	93						3812.4105		
	26222.102	1					.	.			.	.	.									3812.4947	
	26221.595	1					.	.			.	.	.									3812.5684	
	26220.821	1					.	.			.	.	.									3812.6809	
	26219.964	1					.	.			.	.	.									3812.8056	
	26219.365	1					.	.			.	.	.									3812.8927	
2	26218.997	0	14295.565-		40514.565	-3	.	.	3.5-	2.5	.	.	.	0.790	0.800	10						3812.9462		
2	26218.560	0	19466.530-		45635.090	0	.	.	4.5-	4.5	.	.	.	1.151	0.955	196						3813.0097		
2	26218.313	3	35460.660-		9242.356	9	3.5-	3.5	3.5-	3.5	1.140	1.369	.229	1.145	1.369	224				179		3813.0457		
	26217.805	1					.	.			.	.	.									3813.1195	
	26215.693	1					.	.			.	.	.									3813.2813	
	26216.560	1					.	.			.	.	.									3813.3006	
	26215.829	1					.	.			.	.	.									3813.4070	
	26215.197	0					.	.			.	.	.									3813.4989	
1	26214.602	7R	32359.115-		6144.515	2	3.0-	3.0	3.0-	3.0	1.332	1.482	.150	1.320	1.473	153	88		88			3813.5854		
2	26214.036	1	36013.250-		11799.241	27	.	.	5.5-	5.5	.	.	.	1.145	1.373	228						3813.6678		
	26213.681	1					.	.			.	.	.									3813.7194	
2	26213.230	0	19277.180-		45490.434	26	.	.	3.5-	4.5	.	.	.	0.847	1.065	218						3813.7778		
	26212.170	2					.	.			.	.	.									3813.9393	
	26211.655	0					.	.			.	.	.									3814.0142	
	26211.376	0					.	.			.	.	.									3814.0548	

C	HAVENUMBER	I	T2	-	T1	G-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES			
							J2	J1	J2	J1							G2	G1								DG	IS	IS
	26211.148	0																										
2	26208.814	0	17242.750-43451.520		44		.	.	2.5-	1.5	.	.	.	1.200	1.190*	10												
1	26208.505	2	8768.139-34976.640		4		.	.	2.0-	3.0	.	.	.	0.362	1.160*	798						-314						
2	26207.943	3	15641.100-41849.030		13		.	.	3.5-	2.5	.96	.	.	1.040	1.080*	40									f SO			
	26206.755	0					.	.			.	.	.								
	26206.282	2					.	.			.	.	.								
2	26205.684	7	36931.980-10726.322		26		.	.	5.5-	4.5	.	.	.175	1.214	1.391	177	229	228										
	26205.523	3					.	.			.	.	.								
	26205.332	2					.	.			.	.	.								
1	26204.536	7R	33979.215- 7774.653		24		4.0-	4.0	4.0-	4.0	1.113	1.462	.349	1.115	1.463	348	33	33								IS*		
	26204.155	0					.	.			.	.	.								
	26203.695	1					.	.			.	.	.								
	26202.750	2					.	.			.	.	.								
2	26202.442	0	14295.565-40498.010		-3		.	.	3.5-	4.5	.	.	.	0.790	0.860*	70												
	26201.864	1					.	.			.	.	.								
1	26199.676	6	35378.940- 9179.262		-2		5.0-	5.0	5.0-	5.0	1.166	1.454	.289	1.165	1.454	289	+	22										
	26199.352	0					.	.			.	.	.								
1	26198.363	4U	35970.903- 9772.532		-8		1.0-	0.0	1.0-	0.0	1.02	.	.	1.000	0.000*	0	-	-139*								HAZYJQIQ		
	26198.097	1					.	.			.	.	.								
	26196.477	1					.	.			.	.	.								
2	26196.266	1	40889.360-14693.090		-4		.	.	1.5-	0.5	.	.	.	1.350	0.840*	510												
1	26195.723	8R	35375.000- 9179.262		-15		6.0-	5.0	6.0-	5.0	1.189	1.462	.273	1.182	1.454	272	53	57								IS*		
	26194.455	1					.	.			.	.	.								
	26194.218	1					.	.			.	.	.								
	26192.812	3					.	.			.	.	.								
	26192.184	3					.	.			.	.	.								
2	26191.873	3	15657.156-41849.030		-1		.	.	2.5-	2.5	.	.	.	1.000	1.080	80											C2	
2	26191.873	3	38199.355-12007.503		21		.	.	2.5-	1.5	.	.	.	1.045-0.019	1064												C2	
	26190.940	1B					.	.			.	.	.								
	26190.808	1B					.	.			.	.	.								
	26189.824	2					.	.			.	.	.								
	26188.841	0					.	.			.	.	.								
	26188.176	1					.	.			.	.	.								
	26187.291	1					.	.			.	.	.								
1	26186.944	2	13726.661-39913.605		0		.	.	3.0-	3.0	.	.	.	1.150	1.075	75												
1	26186.666	1	14737.788-40924.450		4		.	.	3.0-	3.0	.	.	.	0.815	1.185	370												
	26184.440	0					.	.			.	.	.								
	26183.198	2					.	.			.	.	.								
	26182.655	1					.	.			.	.	.								
	26182.239	2					.	.			.	.	.								
	26181.578	2					.	.			.	.	.								
1	26181.393	4	8768.139-34949.520		12		2.0-	2.0	2.0-	2.0	.362	1.084	.722	0.362	1.085	723	-215	-210										
1	26180.952	7R	35360.215- 9179.262		-1		6.0-	5.0	6.0-	5.0	1.231	1.449	.218	1.220	1.454	234	34	41									ISQ	
	26179.557	3																			
	26179.267	1																			
2	26178.508	3	17532.937-43711.415		30		.	.	3.5-	3.5	.	.	.	1.238	0.955	283												
2	26178.216	4	33457.050- 7278.862		28		.	.	3.5-	4.5	.	.	.	1.002	1.545	543												
2	26176.910	0	20952.550-47129.430		30		.	.	1.5-	2.5	.	.	.	0.350	0.920	570												
	26175.799	0																			
	26175.271	0																			
1	26174.910	6R	32319.412- 6144.515		13		4.0-	3.0	4.0-	3.0	1.215	1.473	.258	1.220	1.473	253	-60	-62									IS*	
2	26173.374	0	17296.905-43470.195		84		.	.	4.5-	3.5	.	.	.	0.494	0.860	366												CQ
2	26173.019	0	19317.370-45490.434		-45		.	.	4.5-	4.5	.	.	.	1.225	1.065	160												
	26172.856	0																			
	26172.462	1																			

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	26172.096	0																	3819.7792	
1	26171.459	4	9386.801-35558.235	25	5.0- 4.0	5.0- 4.0	.801	.991	.190		0.801	0.990	189	-219	-222			3819.8722		
	26159.429	2																	3820.1685	
1	26168.620	3	6313.866-32482.465	21	. - .	4.0- 4.0					0.487	1.330*	843		-338			3820.2866		
1	26166.414	5	33941.055- 7774.653	12	3.0- 4.0	3.0- 4.0	1.110	1.455	.345		1.118	1.463	345		-33			3820.6087		
	26165.715	0																	3820.7108	
	26165.378	2																	3820.7600	
	26164.984	1																	3820.8175	
2	26164.489	1	33443.355- 7278.862	-4	. - .	5.5- 4.5					1.100	1.545*	445		156			3820.8898		
1	26164.071	7	32308.557- 6144.515	29	2.0- 3.0	2.0- 3.0	1.335	1.478	.143		1.327	1.473	146	-68	-68			3820.9509		
	26163.297	2																	3821.0639	
1	26162.974	8	30462.625- 4299.659	8	1.0- 2.0	1.0- 2.0	1.251	1.483	.232		1.250	1.482	232	78	78			3821.1111	IS*	
2	26162.493	4	26162.460- 0.000	33	. - .	1.5- 0.5					0.710	3.150*	2440		119			3821.1813		
	26162.285	1																	3821.2117	
	26159.980	1																	3821.5484	
2	26159.428	3	21991.980-48151.405	3	. - .	2.5- 3.5					1.344	1.010	334					3821.6290		
	26159.231	3																	3821.6505	
2	26157.912	2	37957.130-11799.241	23	. - .	4.5- 5.5					1.160	1.373	213					3821.8505		
1	26152.197	4	8768.139-34920.315	21	2.0- 3.0	2.0- 3.0	.382	.951	.569		0.362	0.930	568	-242	-244			3822.6857		
	26151.915	1																	3822.7268	
	26150.725	0																	3822.9009	
1	26149.886	3	32294.378- 6144.515	23	. - .	2.0- 3.0					1.016	1.473	457	-	-52			3823.0236		
1	26149.669	2	12322.613-38472.240	42*	. - .	2.0- 3.0					1.036	1.050*	14	0	0			3823.0553	IS*	
	26149.079	1																	3823.1416	
	26148.846	1																	3823.1756	
	26143.144	4																	3823.2783	
2	26147.306	4	39873.620-13726.318	4	. - .	3.5- 2.5					1.160	0.784*	376	-	-			3823.4008		
	26146.215	0																	3823.5504	
	26144.500	2																	3823.8112	
	26143.931	6				0.0- 1.0	.000	.393											3823.8944	HVL*2LNQ
	26143.931	6																	3823.8944	HVL*2LNQ
2	26143.668	6	37942.885-11799.241	24	6.5- 5.5	6.5- 5.5	1.098	1.377	.279		1.097	1.373	276					3823.9329		
	26142.178	1																	3824.1508	
	26141.690	0																	3824.2222	
	26141.194	0																	3824.2948	
	26140.831	0																	3824.3479	
2	26140.151	2	17296.905-43437.020	36	. - .	4.5- 3.5					0.494	0.960*	466	0	0			3824.4474	IS* CQ	
	26139.649	2																	3824.5208	
2	26138.324	2	15178.115-41316.930	9	. - .	0.5- 1.5					-0.085	0.700*	785					3824.6415		
	26138.649	1																	3824.6671	
	26138.237	1																	3824.7198	
2	26135.207	3	33634.550- 7498.364	21	. - .	1.5- 2.5					1.230	1.321*	91		58*			3825.0245		
	26135.540	1																	3825.1221	
2	26135.028	4	30104.835- 3969.846	39	. - .	3.5- 2.5			.513		1.159	1.670	511					3825.1971	DJ1 SP	
	26134.458	0																	3825.2805	
	26132.598	3B																	3825.5528	
2	26132.498	3B	30102.315- 3969.846	29	. - .	2.5- 2.5					1.158	1.670	512		45			3825.5674		
	26132.124	2																	3825.6221	
2	26130.954	6	33629.300- 7498.364	18	2.5- 2.5	2.5- 2.5	1.243	1.377	.335		1.242	1.321	79	-	-57			3825.7934		
	26130.248	2																	3825.8968	
	26128.455	2																	3326.1594	
2	26127.721	3	19317.370-45445.065	26	. - .	4.5- 4.5					1.225	1.000*	225					3826.2668		
	26125.925	0																	3826.3834	
	26125.131	3																	3826.6462	
2	26124.293	2	20689.110-46813.360	43	. - .	3.5- 2.5					1.270	1.070*	200					3826.7689		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS			TERM			OBS			TERM			OBS		WAVELENGTH	NOTES		
							J2	J1	J2	J1	G2	G1	G6	G2	G1	G6	IS	IS						
	26123.213	1																			3826.9272			
	26121.812	1																				3827.1324		
	26119.417	3																				3827.4833		
1	26118.813	9R	32263.305-	6144.515	23		4.0-	3.0	4.0-	3.0	1.162	1.474	.312	1.158	1.473	315	-63	-58			3827.5719			
	26117.704	0																				3827.7344		
2	26117.047	1	31619.095-	5502.060	12		.	.	1.5-	1.5	.	.	.	1.613	1.169	444	+	-39*			3827.8307			
2	26116.616	0	18720.075-	44836.670	21		.	.	3.5-	4.5	.	.	.	1.060	1.085	25					3827.8938			
	26115.983	1																				3827.9866		
	26115.783	2																				3828.0152		
	26113.880	4									1.08	.	.									3828.2949	SI	
	26113.134	2																				3828.4043		
	26111.617	1																				3828.6267		
	26110.354	1																				3828.8119		
	26109.046	4					1.0-	2.0			1.421	.718	.236									3829.0037	6Q SIQ	
1	26108.678	7	32253.195-	6144.515	-2		3.0-	3.0	3.0-	3.0	1.132	1.487	.355	1.115	1.473	358	0	-22*			3829.0577	IS*		
	26108.160	1																				3829.1337		
	26107.546	1																				3829.2237		
	26106.773	0																				3829.3371		
	26106.249	0																				3829.4140		
1	26104.864	7	35284.096-	9179.262	30		6.0-	5.0	6.0-	5.0	1.150	1.461	.311	1.143	1.454	311					3829.6171			
	26104.286	1																				3829.7019		
	26104.045	3																				3829.7373		
	26103.249	0																				3829.8541		
	26102.405	2																				3829.9779		
2	26102.267	2	33381.120-	7278.862	9		.	.	5.5-	4.5	.	.	.	1.152	1.545	393		102			3829.9982			
2	26100.533	6	34738.755-	8638.233	11		6.5-	5.5	6.5-	5.5	1.210	1.454	.244	1.270	1.514	244	41	40			3830.2526	IS*		
	26100.260	1																				3830.2927		
1	26099.314	2	6313.866-	32413.146	34		.	.	4.0-	3.0	.	.	.	0.487	0.995	508		-304			3830.4315			
1	26098.916	1	13726.661-	39825.550	27		.	.	3.0-	4.0	.	.	.	1.150	1.030	120		-247			3830.4899			
	26098.095	2																				3830.6104		
	26095.286	1																				3830.8760		
2	26095.718	6	28110.650-	2014.966	34		1.5-	1.5	1.5-	1.5	.899	1.882	.983	0.899	1.881	982	27	40			3830.9594	IS*		
	26095.230	2																				3831.0310		
1	26094.880	3	14912.011-	41006.850	41*		.	.	4.0-	4.0	.	.	.	0.496	1.210	714					3831.0824			
1	26093.678	4	12159.465-	38253.110	33		.	.	4.0-	4.0	.	.	.	0.844	0.920*	76	-222	-217				3831.2589	IS*	
2	26093.186	1W	13809.910-	39903.115	-19		.	.	4.5-	4.5	.	.	.	0.657	1.060*	403						3831.3311		
	26092.226	5					4.0-	5.0			1.284	1.448	.164				-031					3831.4721	JQ	
2	26089.928	1	35332.255-	9242.356	29		.	.	2.5-	3.5	.	.	.	1.263	1.369	106		-60				3831.8096		
	26089.119	2																				3831.9284		
	26088.775	3																				3831.9789		
	26088.373	3																				3832.0380		
	26086.934	3																				3832.2494		
	26084.695	1																				3832.5783		
1	26084.324	1	8768.139-	34852.445	18		.	.	2.0-	3.0	.	.	.	0.362	1.230	868		-284				3832.6328		
	26084.106	1																				3832.6649		
	26083.963	1																				3832.6859		
	26083.701	3																				3832.7244		
	26083.523	2																				3832.7505		
	26082.909	1																				3832.8408		
	26082.610	1																				3832.8847		
2	26082.425	0	22537.265-	48619.650	40		.	.	5.5-	4.5	.	.	.	1.315	1.000*	315						3832.9119		
	26082.180	0																				3832.9479		
	26081.910	0																				3832.9876		
2	26081.169	2	15235.771-	41316.930	10		.	.	0.5-	1.5	.	.	.	1.791	0.700*	1091						3833.0965		
	26080.372	0																					3833.2136	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	26080.	212	0	31798.195-	5717.976	-7	.	.	4.5-	3.5	.	.	.	.	1.290	1.596*	306	.	61	3833.2371		
1	26078.	765	5	33853.410-	7774.653	9	3.0-	4.0	3.0-	4.0	1.030	1.473	.443	.	1.021	1.463	442	-	-25	3833.4497		
	26077.	893	4B				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3833.5780	
	26077.	786	3B				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3833.5937	
1	26077.	363	4	14912.011-	40989.380	-6	.	.	4.0-	4.0	.	.	.	.	0.496	1.000	504	-423	.	3833.6559	IS*	
	26077.	134	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3833.6896	
	26076.	764	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3833.7440	
	26073.	571	2				.	.	.	.	.	.	.	.	.	.	.	.	-18	.	3834.2135	IS*
2	26072.	329	3	14295.565-	40367.875	19	.	.	3.5-	4.5	.	.	.	.	0.790	1.175	385	.	.	3834.3961		
	26070.	895	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3834.6071	
	26070.	228	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3834.7052	
	26070.	007	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3834.7377	
	26069.	776	4				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3834.7717	
	26069.	360	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3834.8328	
1	26068.	065	7	32212.561-	6144.515	19	2.0-	3.0	2.0-	3.0	1.40	1.47	.	.	1.400	1.473*	73	-38	-22	3835.0234	IS*	
1	26067.	530	2	6313.866-	32381.372	24	.	.	4.0-	5.0	.	.	.	.	0.487	1.190	703	.	-296	3835.1021		
2	26066.	603	1	20121.145-	46187.750	-2	.	.	2.5-	1.5	.	.	.	.	0.710	0.740*	30	.	.	3835.2385		
	26066.	240	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3835.2919	
2	26064.	804	6	34703.075-	8638.233	-38	.	.	5.5-	5.5	.	.	.	.	1.030	1.514	484	.	94	3835.5032		
1	26064.	686	9R	28268.265-	2203.606	27	1.0-	1.0	1.0-	1.0	1.245	1.485	.240	.	1.252	1.495	243	-132	-132	3835.5205		
	26063.	206	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3835.7383	
1	26062.	188	8	30361.813-	4299.659	34	2.0-	2.0	2.0-	2.0	1.042	1.480	.438	.	1.044	1.482	438	-94	-94	3835.8882		
2	26061.	339	6	30031.180-	3969.846	5	.	.	3.5-	2.5	.	.	.	.	1.250	1.670	420	.	32	3836.0131		
2	26061.	063	6	36787.360-	10726.322	25	.	.	5.5-	4.5	.	.	.	.	1.150	1.391	241	115	116	3836.0538	IS*	
	26059.	251	3				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.3205	
	26059.	101	2				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.3426	
	26058.	374	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.4496	
	26057.	970	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.5091	
	26057.	363	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.5985	
2	26056.	405	5	37855.640-	11799.241	6	.	.	6.5-	5.5	.	.	.	.	1.090	1.373*	283	.	0	3836.7395	IS*	
1	26056.	023	3	14692.549-	40748.540	32*	.	.	2.0-	3.0	.	.	.	.	0.292	1.020	728	.	.	3836.7958		
	26055.	506	2				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3836.8719	
1	26054.	927	9R	33829.570-	7774.653	10	5.0-	4.0	5.0-	4.0	1.202	1.490	.288	.	1.175	1.463	288	-78	-76	3836.9572		
	26054.	081	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3837.0818	
2	26053.	491	4	33332.350-	7278.862	3	.	.	4.5-	4.5	.	.	.	.	1.072	1.545	473	+	-5*	3837.1687		
	26053.	178	2				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3837.2148	
	26052.	749	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3837.2780	
	26052.	415	3				2.5-	2.5	.	.	.	.	.48	.	.	.	.	.	.	.	3837.3272	
	26050.	811	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3837.5634	
	26049.	558	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3837.7480	
2	26049.	205	1	17073.340-	43122.525	20	.	.	1.5-	2.5	.	.	.	.	0.576	0.000*	0	.	.	3837.8000	C2	
1	26049.	205	1	13726.661-	39775.870	-4	.	.	3.0-	4.0	.	.	.	.	1.150	0.985	165	.	-209	3837.8000	C2	
2	26048.	565	2	36774.865-	10726.322	22	.	.	3.5-	4.5	.	.	.	.	1.127	1.391	264	.	.	3837.8943		
	26047.	781	2				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3838.0098	
1	26047.	393	2	14025.007-	40072.380	20*	.	.	4.0-	5.0	.	.	.	.	0.975	1.100	125	.	.	3838.0670		
1	26045.	518	2	12159.465-	38204.990	-7	.	.	4.0-	3.0	.	.	.	.	0.844	1.085	241	.	-280	3838.3433		
2	26044.	535	3	40035.490-	13990.952	-3	.	.	1.5-	1.5	.	.	.	.	1.180	1.728*	548	.	.	3838.4882		
	26044.	214	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3838.5355	
	26043.	790	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3838.5980	
	26042.	263	6				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3838.8231	
1	26041.	642	9R	32186.115-	6144.515	42	4.0-	3.0	4.0-	3.0	1.224	1.482	.258	.	1.212	1.473	261	-342	-87	3838.9146		
	26041.	130	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3838.9901	
2	26040.	900	4	31542.950-	5502.060	10	.	.	1.5-	1.5	.	.	.	.	1.026	1.169	143	.	0	3839.0240	IS*	
2	26040.	784	4	31758.755-	5717.976	5	.	.	2.5-	3.5	.	.	.	.	1.270	1.596	326	.	.	3839.0411		
	26040.	246	0				.	.	.	.	.	.	.	.	.	.	.	.	.	.	3839.1204	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	CBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	26039.709	1																	3839.1996	
2	26038.954	3	16362.000	-	42400.935	19	.	.	4.5-	4.5	.	.	.	1.050	1.000*	50			3839.3109	
	26038.645	0																	3839.3565	
	26038.212	0																	3839.4203	
	26036.119	4									1.20	.	.25						3839.7290	f 2J06
2	26035.726	4	40469.010	-	14433.351	67	.	.	1.5-	1.5	.	.	.	1.250	1.925*	675			3839.7870	
	26035.075	3																	3839.8830	
2	26033.605	2	37832.845	-	11799.241	1	.	.	4.5-	5.5	.	.	.	1.250	1.373	123		-59	3840.0998	
	26032.718	2																	3840.2306	
	26032.250	2																	3840.2997	
	26031.604	3																	3840.3950	
	26031.418	1																	3840.4224	
	26030.271	2																	3840.5917	
	26030.043	2																	3840.6253	
	26029.768	1																	3840.6659	
	26029.336	1																	3840.7296	
	26028.348	1																	3840.8754	
	26028.200	1																	3840.8972	
	26028.033	2																	3840.9219	
	26027.520	2																	3840.9976	
	26026.580	0																	3841.1363	
2	26026.079	1	13809.910	-	39835.970	19	.	.	4.5-	3.5	.	.	.	0.657	0.850*	193		-195	3841.2103	
	26025.685	2																	3841.2684	
	26024.779	1																	3841.4022	
	26024.367	1																	3841.4630	
	26024.097	3																	3841.5028	
2	26023.949	6	29259.700	-	3235.770	19	1.5-	0.5	1.5-	0.5	1.254	.298	.956	1.250	0.299	951	0	-11	3841.5247	IS*
2	26023.469	2	35265.810	-	9242.356	15	.	.	3.5-	3.5	.	.	.	0.980	1.369*	389		91*	3841.5955	
	26022.882	1																	3841.6822	
	26022.243	0																	3841.7765	
2	26021.898	3	14476.135	-	40498.010	23	.	.	4.5-	4.5	.	.	.	1.060	0.860*	200		-377*	3841.8275	
2	26021.647	3	31739.610	-	5717.976	13	.	.	2.5-	3.5	.	.	.	1.170	1.596*	426		6	3841.8645	
	26021.093	3																	3841.9463	
1	26020.100	9R	30319.724	-	4299.659	35	3.0-	2.0	3.0-	2.0	1.015	1.487	.472	1.010	1.482	472	-108	-99	3842.0929	
	26017.992	5																	3842.4042	SI
	26016.452	1																	3842.6317	
1	26016.089	0	10486.922	-	36502.980	31	.	.	1.0-	2.0	.	.	.	0.355	0.900*	545		-261	3842.6853	
2	26014.728	2	31516.780	-	5502.060	8	.	.	2.5-	1.5	.	.	.	1.215	1.169	46			3842.8863	
	26014.606	0																	3842.9044	
	26013.919	0																	3843.0059	
	26013.515	1																	3843.0655	
1	26012.729	2	35785.250	-	9772.532	11	.	.	1.0-	0.0	.	.	.	0.530	0.000*	0		-183*	3843.1817	
	26011.984	1																	3843.2917	
	26011.449	0																	3843.3708	
	26010.408	3																	3843.5246	
	26009.797	1																	3843.6149	
	26009.795	0																	3843.7630	
1	26007.296	7	30306.955	-	4299.659	-10	1.0-	2.0	1.0-	2.0	.829	1.491	.662	0.820	1.482	662	-62	-62	3843.9845	IS*
1	26006.483	6	28210.060	-	2203.606	29	2.0-	1.0	2.0-	1.0	.876	1.503	.627	0.865	1.495	630	-73	-77	3844.1047	IS*
	26005.427	1																	3844.2608	
	26005.093	1																	3844.3102	
1	26004.650	1	14025.007	-	40029.640	17	.	.	4.0-	5.0	.	.	.	0.975	1.230	255		-267	3844.3757	
	26004.415	1																	3844.4103	
	26004.081	1																	3844.4598	
	26003.939	1																	3844.4808	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	26003.463	4		35182.696-		9179.262	29	5.0-	5.0	5.0-	5.0			.417	1.037	1.454	417	-		3844.5512		
2	26000.968	3		13013.685-		39014.660	-7	.	.	5.5-	5.5				0.950	1.070*	120		-194	3844.9201		
	26000.767	1																			3844.9498	
	25979.971	3																			3845.0675	
	25999.523	0																			3845.1338	
	25999.130	3																			3845.1919	
	25998.408	2																			3845.2987	
2	25957.614	1		13809.910-		39807.520	4	.	.	4.5-	4.5				0.657	0.725	68			3845.4161		
	25996.152	0																			3845.6324	
	25995.123	1																			3845.7846	
	25994.617	0																			3845.8595	
1	25993.289	4		32137.795-		6144.515	9	2.0-	3.0	2.0-	3.0	.819	1.466	.647	0.827	1.473	646	-52	-51	3846.0560		
	25992.617	1																			3846.1554	
	25992.364	1																			3846.1929	
2	25992.082	4		34630.315-		8638.233	0	.	.	5.5-	5.5				1.155	1.514	359	+	22	3846.2346		
	25991.424	1																			3846.3320	
1	25991.140	4		6313.866-		32304.979	27	4.0-	4.0	4.0-	4.0	.487	.979	.492	0.487	0.990*	503	-295	-293	3846.3740		
1	25988.928	1		12159.465-		38148.375	18	.	.	4.0-	3.0				0.844	0.690	154			3846.7014		
1	25988.096	5		33762.720-		7774.653	29	4.0-	4.0	4.0-	4.0	1.121	1.463	.342	1.120	1.463	343	0	5*	3846.8245	IS*	
	25937.767	1																			3846.8732	
1	25986.155	7		32130.660-		6144.515	10	3.0-	3.0	3.0-	3.0	1.194	1.477	.283	1.186	1.473	287	92	86	3847.1119		
1	25985.747	3		6313.866-		32299.581	32	.	.	4.0-	5.0				0.487	0.000*	0		-249	3847.1723		
	25984.675	2																			3847.3310	
	25984.285	3																			3847.3887	
	25983.264	1																			3847.5399	
	25933.031	1																			3847.5744	
2	25982.226	3		29952.065-		3969.846	7	.	.	1.5-	2.5				1.184	1.670	486		-11	3847.6936		
1	25980.945	0		12159.465-		38140.400	10	.	.	4.0-	3.0				0.844	1.120*	276			3847.8834		
	25980.646	0																			3847.9276	
2	25980.424	3		35688.405-		9707.980	-1	.	.	6.5-	6.5				1.110	1.485*	375		61*	3847.9605		
	25979.797	3																			3848.0534	
1	25978.707	4		33753.360-		7774.653	0	3.0-	4.0	3.0-	4.0	.981	1.463	.482	0.980	1.463	483	-	-15*	3848.2149		
1	25978.011	3		12322.613-		38300.595	29	.	.	2.0-	2.0				1.036	1.150	114			3848.3180		
2	25977.164	3		13013.685-		38990.840	9	.	.	5.5-	4.5				0.950	1.105	155		-224	3848.4434		
	25976.067	0																			3848.6060	
1	25974.478	5		32118.980-		6144.515	13	4.0-	3.0	4.0-	3.0	1.078	1.509	.431	1.039	1.473	434	-	-62	3848.8414		
	25974.189	1																			3848.8842	
	25973.713	4H										1.69		.68				-90			3848.9548	f SI2JD6
1	25972.511	2		11840.715-		37813.200	26	.	.	3.0-	2.0				0.811	0.955	144		-240	3849.1329		
	25971.420	0																			3849.2946	
	25970.784	1																			3849.3889	
2	25970.473	1		35212.780-		9242.356	49	.	.	2.5-	3.5				1.108	1.369	261			3849.4350		
	25970.097	0																			3849.4907	
1	25969.853	1		14692.549-		40662.380	22	.	.	2.0-	3.0				0.292	1.050	758			3849.5269		
1	25968.372	0		14763.705-		40732.070	7	.	.	1.0-	2.0				-0.066	1.040*	1106			3849.7464		
2	25968.055	4		35210.405-		9242.356	6	4.5-	3.5	4.5-	3.5				0.977	1.369	392			3849.7934		
2	25967.200	5		27982.155-		2014.966	11	2.5-	1.5	2.5-	1.5	.52	1.28	1.36	0.520	1.881*	1361	-93		3849.9202		
2	25966.204	5		36692.525-		10726.322	1	5.5-	4.5	5.5-	4.5	1.089	1.410	.321	1.070	1.391	321		7*	3850.0679		
	25964.724	2																			3850.2873	
2	25963.926	2		15641.100-		41605.005	21	.	.	3.5-	2.5				1.040	0.935*	105		-153	3850.4057		
	25962.753	1																			3850.5789	
1	25962.553	0		11840.715-		37803.250	18	.	.	3.0-	3.0				0.811	1.081	270		-254	3850.6093		
	25962.191	3																			3850.6630	
	25961.221	1																			3850.8069	
1	25959.874	9R		25959.849-		0.000	25	1.0-	0.0	1.0-	0.0	1.037	.000		1.037	0.000	0		-24	3851.0067		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS				OBS			TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
2	25958.719	7	33457.050-		7498.354	33	3.5-	2.5	3.5-	2.5	.993	1.312	.319	1.002	1.321	319	-35	-56	3851.1780	IS*	
	25957.461	1																	3851.3647		
	25957.137	3																	3851.4127		
2	25956.950	2	34595.165-		8638.233	18	.	.	6.5-	5.5	.	.	.	1.160	1.514*	354		267	3851.4405		
	25956.219	0																	3851.5490		
	25955.813	1																	3851.6092		
1	25955.132	7	33729.775-		7774.653	10	5.0-	4.0	5.0-	4.0	1.123	1.463	.340	1.125	1.463	338	118	125	3851.7103		
1	25954.195	9	36192.641-		10238.473	27	7.0-	6.0	7.0-	6.0	1.244	1.441	.197	1.234	1.431	197	-75	-75	3851.8493		
	25952.807	0																	3852.0553		
	25952.430	4																95		3852.1113	
1	25952.153	6	36190.615-		10238.473	11	5.0-	6.0	5.0-	6.0	1.121	1.431	.310	1.123	1.431	308			3852.1524		
	25950.617	1																	3852.3804		
2	25950.200	2	19317.370-		45267.550	20	.	.	4.5-	4.5	.	.	.	1.225	1.045	180			3852.4423		
	25949.630	1																	3852.5269		
2	25948.923	7	37748.140-		11799.241	24	6.5-	5.5	6.5-	5.5	1.133	1.373	.240	1.135	1.373	238	+	34*	3852.6319		
2	25947.873	3	15657.156-		41605.005	24	.	.	2.5-	2.5	.	.	.	1.000	0.935	65		-141	3852.7878		
1	25947.315	1	11840.715-		37787.990	40	.	.	3.0-	4.0	.	.	.	0.811	1.260	449		-357	3852.8707		
2	25946.232	4	35188.565-		9242.356	23	.	.	3.5-	3.5	.	.	.	1.154	1.369	215		23*	3853.0315		
2	25945.696	5	35653.670-		9707.980	6	6.5-	6.5	6.5-	6.5	1.117	1.500	.383	1.105	1.485	380	+	49	3853.1111		
2	25944.973	0	25944.980-		0.000	-7	.	.	1.5-	0.5	.	.	.	1.550	3.150	1600		116*	3853.2185		
	25944.824	1																	3853.2406		
	25943.905	1																	3853.3771		
	25943.033	0																	3853.5066		
	25942.937	1																	3853.5209		
	25942.076	0																	3853.6488		
	25941.509	1																	3853.7330		
	25940.822	1																	3853.8351		
	25939.575	3																	3854.0203		
	25938.271	2																	3854.2141		
2	25937.300	3	17532.937-		43470.195	42	.	.	3.5-	3.5	.	.	.	1.238	0.860	378			3854.3584		
1	25936.383	1	35115.625-		9179.262	20	.	.	4.0-	5.0	.	.	.	1.110	1.454	344		-32	3854.4947		
1	25936.256	2	9386.801-		35323.031	26	.	.	5.0-	6.0	.	.	.	0.801	1.090	289		-219	3854.5135		
	25936.055	2																	3854.5434		
	25935.877	1																	3854.5699		
2	25935.036	3	11504.095-		37439.105	26	.	.	3.5-	3.5	.	.	.	0.859	0.926	67		-574	-597*	3854.6949	
	25934.378	0																	3854.7927		
	25933.340	2																	3854.9470		
	25932.985	0																	3854.9997		
2	25931.674	0	22409.025-		48340.695	4	.	.	5.5-	4.5	.	.	.	1.205	1.260*	55			3855.1946		
	25931.081	0																	3855.2828		
	25930.831	1																	3855.3200		
	25930.589	2																	3855.3559		
	25930.262	2																	3855.4046		
	25928.817	0																	3855.6194		
	25928.596	3																	3855.6523		
	25927.830	2																	3855.7662		
	25927.026	1																	3855.8858		
1	25925.561	7	30225.210-		4299.659	10	2.0-	2.0	2.0-	2.0	1.303	1.486	.183	1.300	1.482	182	-76	-70	3856.1037		
	25924.881	1																	3856.2048		
	25923.949	0																	3856.3435		
	25923.406	1																	3856.4242		
	25922.477	1																	3856.5624		
2	25920.555	6	12048.548-		37969.065	38	1.5-	2.5	1.5-	2.5	-0.054	.832	.886	-0.054	0.832	886	-304	-308	3856.8484		
	25918.773	3																	3857.1136		
2	25918.293	0	29888.135-		3969.846	4	.	.	3.5-	2.5	.	.	.	1.140	1.670*	530			3857.1850		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	25918.025	1																	3857.2248	
	25917.682	1																	3857.2760	
	25917.028	1																	3857.3544	
2	25916.666	0	36642.955	-	10726.322	33	.	.	3.5-	4.5	.	.	.	1.356	1.391	35		-30	3857.4272	
	25916.521	0																	3857.4488	
1	25915.477	4	33690.140	-	7774.653	-10	5.0-	4.0	5.0-	4.0	1.206	1.427	.221	1.242	1.463	221	-40	-40	3857.6042	IS*
2	25914.910	2	16362.000	-	42276.885	25	.	.	4.5-	4.5	.	.	.	1.050	1.120*	70			3857.6886	
	25914.423	1																	3857.7611	
	25913.095	4					3.5-	3.5											3857.9588	DJO JQ
	25912.475	1																	3858.0511	
	25912.236	1																	3858.0792	
2	25911.598	1	14295.565	-	40207.135	28	.	.	3.5-	2.5	.	.	.	0.790	1.020*	230			3858.1817	
	25911.007	0																	3858.2697	
	25910.734	3																	3858.3103	
2	25910.123	5	29379.945	-	3969.846	24	2.5-	2.5	2.5-	2.5	1.036	1.680	.644	1.026	1.670	644	75	70	3858.4013	
	25909.826	1																	3858.4455	
2	25908.165	2	12048.548	-	37956.685	28	.	.	1.5-	1.5	.	.	.	-0.054	0.904	958		-54	3858.6929	
	25907.422	0																	3858.8036	
	25906.301	4															-250		3858.9706	
	25905.821	3																	3859.0421	
	25905.528	3																	3859.0857	
1	25905.183	5	30204.810	-	4299.659	32	3.0-	2.0	3.0-	2.0	1.215	1.480	.265	1.215	1.482	267	-44	-63	3859.1371	
	25904.710	3																	3859.2076	
1	25904.319	4	35083.570	-	9179.262	11	5.0-	5.0	5.0-	5.0	1.170	1.450	.280	1.170	1.454	284			3859.2658	
	25902.277	1																	3859.5701	
2	25901.524	1	19863.335	-	45764.910	-51	.	.	2.5-	1.5	.	.	.	0.921	0.660*	261			3859.6823	
2	25901.318	3	16499.640	-	42400.935	23	.	.	3.5-	4.5	.	.	.	0.773	1.000*	227			3859.7130	
	25900.459	1																	3859.8410	
	25899.609	1																	3859.9677	
	25899.320	1																	3860.0107	
	25898.734	4																	3860.0981	
	25898.335	1																	3860.1576	
1	25897.058	5	6313.866	-	32210.885	39	4.0-	4.0	4.0-	4.0	.485	.995	.510	0.487	0.995	508	-90	-94	3860.3479	
	25896.483	0																	3860.4336	
	25895.423	1																	3860.5916	
	25894.809	2																	3860.6832	
	25894.606	2																	3860.7135	
1	25894.122	4	32038.610	-	6144.515	27*	3.0-	3.0	3.0-	3.0	1.165	1.473	.308	1.165	1.473	308	-29	-42	3860.7856	
2	25893.987	2	10436.770	-	36330.720	37	.	.	4.5-	4.5	.	.	.	0.724	1.160*	436		-353	3860.8057	
	25892.497	0																	3861.0279	
2	25891.563	2	33389.920	-	7498.364	7	.	.	1.5-	2.5	.	.	.	0.943	1.321	378		-28	3861.1672	
	25891.219	1																	3861.2185	
1	25890.629	4	36129.102	-	10238.473	0	7.0-	6.0	7.0-	6.0	1.072	1.425	.353	1.080	1.431*	351	141	141	3861.3065	
	25890.183	0																	3861.3723	
1	25888.597	1	14025.007	-	39913.605	-1	.	.	4.0-	3.0	.	.	.	0.975	1.075	100			3861.6096	
	25888.103	1																	3861.6833	
	25887.398	1																	3861.7884	
	25887.114	4									1.17		SHL				-244		3861.8308	f
	25885.227	1																	3862.1123	
	25885.061	1																	3862.1371	
1	25883.801	8	35063.037	-	9179.262	26	6.0-	5.0	6.0-	5.0	1.196	1.462	.266	1.188	1.454	266	-55	-55	3862.3251	
2	25882.657	5	37681.895	-	11799.241	3	.	.	6.5-	5.5	.	.	.	1.090	1.373	283	102	102	3862.4958	
1	25882.387	3	12322.613	-	38204.990	10	.	.	2.0-	3.0	.	.	.	1.036	1.085	49	-283	-283	3862.5361	
2	25881.499	3	19863.335	-	45744.825	9	.	.	2.5-	3.5	.	.	.	0.921	0.000*	0			3862.6687	
	25881.135	3																	3862.7230	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	25330.894	0														3862.7590	
	25877.659	3														3863.2419	
	25877.111	2														3863.3237	
	25876.479	0														3863.4180	
	25875.436	2														3863.5738	
2	25875.166	0	44636.635-13761.530	111		4.5- 5.5					1.075	1.296	221			3863.6141	CQ
2	25872.872	3	40566.005-14693.090	-43		0.5- 0.5					1.170	0.840*	330			3863.9566	
	25872.244	0														3864.0504	
	25871.865	1														3864.1070	
	25870.114	0														3864.3686	
	25869.822	2														3864.4122	
1	25869.518	7	36107.991-10238.473	0	7.0- 6.0	7.0- 6.0	1.132	1.428	.296		1.135	1.431	296	-26	-26	3864.4576	IS*
	25868.641	2														3864.5886	
	25867.907	1														3864.6983	
2	25867.516	5	.8709.640-34577.135	21	3.5- 4.5	3.5- 4.5			.687		0.308	1.010*	702	-167	-318*	3864.7567	ISQ
2	25867.244	5	36593.540-10726.322	26		5.5- 4.5					1.145	1.391	246		-56*	3864.7974	
	25866.706	4												0		3864.8777	IS*
1	25866.289	2	9386.801-35253.102	-12		5.0- 5.0					0.801	1.110*	309		-278	3864.9401	
2	25865.451	7	33363.790- 7498.364	25	3.5- 2.5	3.5- 2.5	1.072	1.321	.249		1.078	1.321	243	+	23	3865.0653	
	25865.173	2														3865.1068	
	25864.616	1														3865.1901	
2	25864.363	5	27879.305- 2014.966	24	0.5- 1.5	0.5- 1.5	.796	1.878	1082		0.802	1.881	1079		42	3865.2279	
2	25863.669	1	41352.185-15488.530	14		4.5- 3.5					1.225	1.057	168			3865.3316	
2	25863.505	1	19277.180-45140.685	0		3.5- 2.5					0.847	0.850	3			3865.3561	
	25862.866	2														3865.4516	
	25862.331	2														3865.5316	
1	25861.752	0	36100.190-10238.473	35		5.0- 6.0					1.223	1.431	208		-11	3865.6181	
	25860.991	0														3865.7319	
	25859.528	3														3865.9506	
2	25858.457	2	21828.590-47687.019	28		2.5- 2.5					0.990	0.000*	0			3866.1107	
1	25856.944	1	13517.647-39374.530	11		2.0- 3.0					0.892	0.885	7			3866.3369	
	25856.614	2														3866.3863	
1	25856.190	3	8768.139-34624.299	30	2.0- 2.0	2.0- 2.0	.37	1.16	.79		0.362	1.150*	788	-289	-275	3866.4497	
	25855.032	0														3866.6228	
2	25854.752	0	19863.335-45718.025	62		2.5- 3.5					0.921	1.065	144			3866.6647	
	25853.650	1														3866.8295	
	25850.160	1														3867.3516	
	25849.053	0														3867.5172	
	25848.807	1														3867.5540	
2	25847.788	1B	39574.070-13726.318	36		2.5- 2.5					0.990	0.784*	206			3867.7065	
1	25847.667	1B	12351.522-38199.170	19		6.0- 6.0					0.995	1.068	73		-258	3867.7246	
	25846.112	0														3867.9573	
	25845.059	1														3868.1134	
	25844.723	3							.60							3868.1652	SO 2J06
1	25844.408	1	9724.351-35568.740	19		3.0- 2.0					0.442	1.040	598		-254	3868.2124	
	25843.965	0														3868.2787	
	25843.006	1														3868.4222	
	25842.557	0														3868.4894	
2	25840.994	3	22372.325-48213.315	4		2.5- 3.5					1.330	1.040*	290			3868.7234	
2	25840.701	0	39565.930-13726.318	39		1.5- 2.5					1.180	0.784*	396			3868.7673	
2	25340.090	5	29809.915- 3969.846	21	3.5- 2.5	3.5- 2.5	1.049	1.651	.602		1.068	1.670	602			3868.8588	
1	25339.402	2	9724.351-35563.728	25		3.0- 3.0					0.442	1.204	762		-408	3868.9618	
2	25336.958	1H	14476.135-40313.110	-17		4.5- 4.5					1.060	1.010	50			3869.3278	
	25336.684	1														3869.3688	
	25336.467	1														3869.4103	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	25835.824	2																3869.4976	
1	25834.898	1	12351.522-38186.420		0	.	.	6.0-	5.0	.	.	.	0.995	0.952	43		-213	3869.6363	
1	25834.444	8	33609.070- 7774.653		27	5.0-	4.0	5.0-	4.0	1.057	1.463	.406	1.057	1.463	406	-25	-28	3869.7043	IS*
1	25833.915	1	9724.351-35553.235		31	.	.	3.0-	4.0	.	.	.	0.442	0.990	548		-218	3869.7835	
	25833.775	1																3869.8045	
2	25832.654	3	14221.716-40054.350		20	.	.	0.5-	0.5				-0.108	0.390	498		-206*	3869.9725	
1	25831.769	8	30131.388- 4299.659		40	3.0-	2.0	3.0-	2.0	1.234	1.484	.250	1.232	1.482	250	-75	-84	3870.1050	
	25830.587	0																3870.2821	
	25829.292	1																3870.4762	
	25823.519	3																3870.5920	
	25827.431	1																3870.7551	
	25825.715	1																3871.0123	
1	25825.344	0	9386.801-35212.127		18	.	.	5.0-	6.0				0.801	1.130*	329		-143	3871.0679	
1	25823.148	4	36061.589-10238.473		32	5.0-	6.0	5.0-	6.0	1.138	1.402	.265	1.167	1.431	264	0	1	3871.3971	IS*
2	25822.341	4	34460.555- 8638.233		19	5.5-	5.5	5.5-	5.5			.448	1.066	1.514	448		-108*	3871.5181	
	25320.880	1																3871.7372	
1	25820.461	1B	6313.866-32134.354		-27	.	.	4.0-	3.0				0.487	0.000*	0		-201	3871.8000	
2	25820.326	1B	19466.530-45286.880		-24	.	.	4.5-	5.5				1.151	1.000*	151			3871.8202	
	25819.765	2																3871.9044	
1	25819.225	3	13517.647-39336.870		2	2.0-	1.0	2.0-	1.0	.907	1.039	.132	0.892	1.025	133	-245	-245	3871.9853	
	25817.869	1																3872.1887	
	25817.593	0																3872.2301	
2	25816.654	2	14221.716-40038.370		0	.	.	0.5-	1.5				-0.108	0.440*	548			3872.3709	
2	25816.226	5	10436.770-36252.985		11	4.5-	3.5	4.5-	3.5	.704	.985	.281	0.724	1.004	280	-124	-123	3872.4351	
2	25815.971	0	33094.805- 7278.862		28	.	.	5.5-	4.5				1.050	1.545*	495		124	3872.4734	
	25815.733	0																3872.5091	
	25815.442	0																3872.5527	
	25815.223	0																3872.5856	
	25814.408	1																3872.7079	
	25813.803	0																3872.7986	
	25813.587	0																3872.8310	
	25813.085	0																3872.9064	
	25812.447	1																3873.0021	
	25811.170	0																3873.1937	
1	25810.594	1	15424.387-41234.990		-9	.	.	3.0-	4.0				1.106	1.080	26		-238	3873.2801	
	25810.329	2																3873.3199	
1	25809.756	1	33584.384- 7774.653		25	.	.	3.0-	4.0				1.058	1.463	405		23	3873.4059	
1	25809.063	2	14853.317-40662.380		20	.	.	4.0-	3.0				0.786	1.050	264			3873.5069	
	25807.201	0																3873.7894	
	25806.753	0																3873.8566	
	25806.519	0																3873.8918	
	25805.611	1																3874.0281	
	25805.292	1																3874.0760	
	25804.966	1																3874.1249	
	25804.800	1																3874.1498	
2	25804.489	7	29040.245- 3235.770		14	1.5-	0.5	1.5-	0.5	1.451	.307	1144	1.447	0.299	1148	10	36	3874.1965	IS*
1	25803.131	5	31947.617- 6144.515		29	3.0-	3.0	3.0-	3.0			.22	1.250	1.473	223	-48	-55	3874.4004	IS*
	25802.336	0																3874.5198	
	25801.160	1																3874.6964	
1	25800.420	6	33575.046- 7774.653		27	3.0-	4.0	3.0-	4.0	1.080	1.490	.410	1.056	1.463	407		7	3874.8075	
	25799.904	3																3874.8850	
2	25798.817	3	31516.780- 5717.976		13	.	.	2.5-	3.5				1.215	1.596	381			3875.0483	
2	25797.690	1	17242.750-43040.400		40	.	.	2.5-	1.5				1.200	0.740*	460			3875.2176	
2	25797.361	2	39788.335-13990.952		-22	.	.	2.5-	1.5				0.000	1.728	0			3875.2670	
	25796.884	1																3875.3387	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	25796.024	0																3875.4679	
	25793.840	0																3875.7960	
	25792.925	1																3875.9245	
1	25792.411	6	36030.884	-10238.473	0	7.0-	6.0	7.0-	6.0	1.050	1.430	.380	1.050	1.431*	381	-11	-11	3876.0108	
	25791.779	0																3876.1058	
	25791.149	0																3876.2004	
	25790.191	3																3876.3444	
1	25789.854	5	6313.866	-32103.687	33	4.0-	4.0	4.0-	4.0				0.487	1.040	553	-185	-188	3876.3951	
	25789.504	1																3876.4477	
	25788.939	3																3876.5326	
	25787.706	0																3876.7180	
	25787.455	2																3876.7557	
	25787.116	1																3876.8067	
	25786.738	1																3876.8635	
	25786.301	1																3876.9292	
	25786.024	0																3876.9709	
2	25785.735	6	35028.065	-9242.356	26	4.5-	3.5	4.5-	3.5	1.128	1.361	.233	1.144	1.369	225	185	170	3877.0143	
	25785.496	2																3877.0502	
	25785.050	1																3877.1173	
1	25783.951	4	33558.579	-7774.653	25	.	.	4.0-	4.0				1.059	1.463	404	-54	-55	3877.2826	IS*
2	25783.392	1	29753.225	-3969.846	13	.	.	3.5-	2.5				1.103	1.670	567		54	3877.3666	C2
1	25783.392	1	11840.715	-37624.090	17	.	.	3.0-	3.0				0.811	1.150*	339		-215	3877.3666	C2
	25782.433	1																3877.5109	
	25781.982	0																3877.5787	
1	25780.780	2	8768.139	-34548.900	19	.	.	2.0-	2.0				0.362	0.850*	488	-158	-158	3877.7595	
2	25780.490	0	40213.870	-14433.351	-29	.	.	2.5-	1.5				1.280	1.925*	645			3877.8031	
	25778.857	3																3878.0487	
2	25777.276	1	16499.640	-42276.885	31	.	.	3.5-	4.5				0.773	1.120*	347			3878.2866	
	25776.758	1B																3878.3645	
2	25776.651	1B	17296.905	-43073.510	46	.	.	4.5-	4.5				0.494	0.950*	456		136*	3878.3806	
1	25775.590	9R	27979.161	-2203.606	35	2.0-	1.0	2.0-	1.0	1.190	1.496	.306	1.186	1.495	309	-76	-86	3878.5403	
	25774.322	0																3878.7311	
	25774.045	0																3878.7728	
2	25772.686	3	31274.745	-5502.060	1	2.5-	1.5	2.5-	1.5	1.20	1.17	.03	1.200	1.169*	31		58*	3878.9773	JQ
	25770.979	1																3879.2343	
	25770.078	0																3879.3699	
	25768.406	1B																3879.6216	
	25768.261	1B																3879.6435	
	25766.841	1																3879.8573	
1	25766.620	4	30066.252	-4299.659	27	1.0-	2.0	1.0-	2.0	.477	1.483	1006	0.476	1.482	1006	-90	-99	3879.8905	
	25765.597	0																3880.0446	
2	25764.768	0	37564.000	-11799.241	9	4.5-	5.5	4.5-	5.5			.259	1.120	1.373*	253			3880.1694	JQ DGQ
	25764.074	2																3880.2740	
	25762.986	1																3880.4378	
	25761.725	0																3880.6278	
	25759.072	2B																3881.0275	
	25758.954	1B																3881.0452	
1	25757.732	6	34936.994	-9179.262	0	6.0-	5.0	6.0-	5.0	1.233	1.460	.226	1.230	1.454	224	-024	-24	3881.2294	
	25757.264	3																3881.2999	
	25756.574	1																3881.4039	
2	25756.334	3	16362.000	-42118.305	29	.	.	4.5-	4.5				1.050	1.040*	10	-247	-255	3881.4400	ISQ
	25755.851	0																3881.5128	
	25755.678	0																3881.5389	
	25755.005	2																3881.6403	
1	25754.614	6	31899.095	-6144.515	34	4.0-	3.0	4.0-	3.0	1.379	1.473	.094	1.380	1.473	93	-040	-52	3881.6993	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES		
	25754.350	2																		3881.7391		
2	25753.901	2	31255.945-		5502.060	16	.	.	1.5-	1.5	.	.	.	0.921	1.169	248		10		3881.8067		
	25752.557	0																			3882.0033	
1	25752.360	2	13726.661-		39479.000	21	.	.	3.0-	3.0	.	.	.	1.150	0.970	180				3882.0390		
	25752.073	1																			3882.0823	
	25751.682	1																			3882.1412	
	25751.395	3																			3882.1844	
1	25750.676	5	31895.185-		6144.515	6	2.0-	3.0	2.0-	3.0	1.080	1.480	.400	1.070	1.473	403	141	141		3882.2929		
1	25750.385	1	14912.011-		40662.380	16	.	.	4.0-	3.0	.	.	.	0.496	1.050	554				3882.3368		
	25750.191	1																			3882.3660	
	25749.846	1																			3882.4180	
	25749.409	4																			3882.4839	
2	25747.260	7	29717.090-		3969.846	16	2.5-	2.5	2.5-	2.5	1.025	1.681	.656	1.014	1.670	656	-99			3882.8080	IS*	
	25746.762	2																			3882.8831	
	25746.295	0																			3882.9535	
	25745.879	0																			3883.0163	
	25745.712	1																			3883.0415	
	25744.606	1																			3883.2083	
2	25744.024	0	36470.320-		10726.322	26	.	.	3.5-	4.5	.	.	.	1.172	1.391	219				3883.2961		
	25743.629	0																			3883.3557	
	25743.493	1																			3883.3762	
	25743.246	1																			3883.4134	
1	25742.995	3	12351.522-		38094.515	2	.	.	6.0-	6.0	.	.	.	0.995	1.095	100		-226		3883.4513		
1	25742.423	4	12159.465-		37901.880	13	4.0-	4.0	4.0-	4.0	.845	1.167	.322	0.844	1.166	322	-208	-208		3883.5368		
	25741.808	1																			3883.6304	
2	25740.839	1	29710.665-		3969.846	20	.	.	3.5-	2.5	.	.	.	1.100	1.670*	570				3883.7766		
1	25740.689	1	12177.963-		37918.620	32	.	.	1.0-	1.0	.	.	.	0.525	0.690	165				3883.7992		
2	25740.318	3	33019.160-		7278.862	20	.	.	3.5-	4.5	.	.	.	1.160	1.545	385				3883.8552		
	25739.908	1																			3883.9171	
1	25738.938	1	8768.139-		34507.044	33	.	.	2.0-	1.0	.	.	.	0.362	1.020*	658				3884.0634		
	25738.364	4																			3884.1500	
	25736.246	2																			3884.4697	
	25735.525	1																			3884.5785	
	25734.921	0																			3884.6697	
	25734.736	0																			3884.6976	
	25734.372	2																			3884.7526	
	25733.516	0																			3884.8818	
	25732.922	2																			3884.9715	
	25732.569	2																			3885.0248	
	25732.052	1																			3885.1028	
	25731.773	0																			3885.1450	
	25731.081	4									1.17	.	.								3885.2495	f IS*
	25730.809	4																			3885.2905	DJO
2	25729.445	4	14295.565-		40025.010	0	.	.	3.5-	3.5	.	.	.	0.790	0.900	110				3885.4965	DJO	
2	25729.165	4	31231.210-		5502.060	15	0.5-	1.5	0.5-	1.5	.85	1.17	.32	0.860	1.169*	309	0	28*		3885.5388	IS*	
	25727.810	10																			3885.7434	
	25727.471	0																			3885.7946	
	25727.019	0																			3885.8629	
	25726.425	1																			3885.9526	
1	25725.635	5	30025.300-		4299.659	-6	2.0-	2.0	2.0-	2.0	1.133	1.492	.359	1.120	1.482	362	95	95		3886.0720		
2	25723.924	2	34362.170-		8638.233	-13	.	.	4.5-	5.5	.	.	.	1.198	1.514	316				3886.3304		
2	25723.426	6	34361.635-		8638.233	24	5.5-	5.5	5.5-	5.5	.	.	.292	1.222	1.514	292	-129	-127		3886.4057		
2	25722.489	6	34964.825-		9242.356	20	4.5-	3.5	4.5-	3.5	1.104	1.349	.245	1.122	1.369	247	58	52		3886.5473	JQ	
	25722.125	0																			3886.6023	
	25721.720	0																			3886.6635	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	25721.338	0																3886.7212	
	25718.249	1																3887.1880	
2	25717.821	0	17733.709-43451.520	10				0.5- 1.5					-0.510	1.190*	1700			3887.2527	
	25717.331	1																3887.3268	
2	25716.974	6	32995.835- 7278.862	21		4.5-	4.5	4.5- 4.5		1.163	1.544	.381	1.164	1.545	381	52	67	3887.3777	
	25716.522	1																3887.4491	
	25715.264	0																3887.6393	
	25715.023	1																3887.6749	
2	25714.292	1	35902.735-10188.463	20				1.5- 0.5					1.605	2.402	797		22	3887.7862	
2	25713.405	0H	39704.305-13990.952	52				1.5- 1.5					1.220	1.728*	508			3887.9203	
	25712.004	0																3888.1322	
	25711.683	0																3888.1807	
2	25711.413	5	36437.710-10726.322	25		5.5-	4.5	5.5- 4.5				.259	1.137	1.391	254	84	83	3888.2216	
	25711.204	1																3888.2532	
	25710.890	1																3888.3005	
	25710.535	1																3888.3543	
	25709.750	1																3888.4731	
2	25709.232	3	35897.685-10188.463	10		0.5-	0.5	0.5- 0.5				.23	2.170	2.402*	232			3888.5514	
1	25708.943	5	33483.590- 7774.653	6		4.0-	4.0	4.0- 4.0		1.012	1.453	.441	1.022	1.463	441	44	44	3888.5951	
	25708.608	2																3888.6458	
	25707.385	0																3888.8308	
1	25706.858	1	13726.661-39433.510	9				3.0- 4.0					1.150	0.925	225		-273	3888.9105	
	25706.303	3															-364	3888.9945	
	25705.312	1																3889.1444	
1	25703.597	6	6313.866-32017.434	29		4.0-	4.0	4.0- 4.0				.530	0.487	1.020*	533	-239	-239	3889.4039	
	25700.515	0																3889.8703	
1	25699.972	6	27903.565- 2203.606	13		2.0-	1.0	2.0- 1.0		1.301	1.468	.167	1.300	1.495	195	144	144	3889.9525	
	25699.834	4																3889.9734	
	25696.240	0																3890.5175	
	25696.053	2																3890.5458	
2	25695.756	0	41982.315-16286.582	23				0.5- 0.5					1.620-0.122*	1742				3890.5908	
2	25695.247	1	18720.075-44415.300	22*				3.5- 3.5					1.060	0.940	120			3890.6679	C2
2	25695.247	1	31197.285- 5502.060	22				0.5- 1.5					0.776	1.169	393		6*	3890.6679	C2
	25693.453	0																3890.9395	
2	25692.794	0	13809.910-39502.705	-1				4.5- 3.5					0.657	0.920*	263		-133	3891.0393	
2	25692.540	1	21048.190-46740.710	20				2.5- 1.5					1.030	0.930*	100			3891.0778	
2	25691.800	0	21991.980-47683.770	10				2.5- 3.5					1.344	1.090*	254			3891.1899	
2	25691.265	3	33189.610- 7498.364	19		2.5-	2.5	2.5- 2.5		1.119	1.321	.202	1.121	1.321	200		-35	3891.2709	
	25689.813	1																3891.4908	
2	25688.639	2	22652.035-48340.695	-21				3.5- 4.5					1.185	1.260*	75			3891.6687	
	25688.126	3															-196	3891.7464	ISQ
	25687.533	1																3891.8363	
2	25687.220	6	27702.165- 2014.966	21		1.5-	1.5	1.5- 1.5		1.122	1.870	.748	1.135	1.881	746	+	30	3891.8837	
	25686.615	3																3891.9753	
1	25685.409	6	31829.899- 6144.515	25		3.0-	3.0	3.0- 3.0				.242	1.228	1.473	245	-90	-82	3892.1581	
1	25684.372	3	27887.955- 2203.606	23				1.0- 1.0					0.870	1.495*	625	25	34	3892.3152	IS*
	25683.834	4														104		3892.3968	
1	25683.460	4	9386.801-35070.230	31		5.0-	5.0	5.0- 5.0				.067	0.801	0.869	68	-139	-139	3892.4535	JQ DJO
	25683.003	3															-134	3892.5227	
	25682.158	1																3892.6508	
1	25681.899	1	11840.715-37522.600	14				3.0- 3.0					0.811	1.260*	449			3892.6901	
2	25681.727	2	8198.666-33830.390	3				2.5- 3.5					0.414	1.000*	586		-634*	3892.7161	
2	25681.152	5	12048.548-37729.665	35		1.5-	2.5	1.5- 2.5		-0.043	1.062	1105	-0.054	1.050*	1104	-318	-317	3892.8033	
	25673.470	1																3893.2099	
	25677.855	3				2.5-	3.5			1.192	1.103	.089					-134	3893.3031	JQ SO

C	HAVE	FIBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	25677.171	1																		3893.4068		
	25676.460	2						0.0-	1.0											3893.5147		
1	25675.531	4	35913.920-10238.473	24				7.0-	6.0	7.0-	6.0	1.039	1.431	.342	1.090	1.431	341	037	37	3893.6555	IS*	
1	25674.814	1	15249.635-40924.450	-1				.	.	2.0-	3.0				0.715	1.185	470		-197	3893.7643		
	25674.025	0																			3893.8839	
	25672.405	0																			3894.1175	
	25672.176	2																			3894.1644	
	25671.291	2																			3894.2986	
1	25670.633	2	6313.866-31984.470	29				4.0-	3.0	4.0-	3.0			.600	0.487	1.090	603		-90	3894.3985		
	25670.259	1																			3894.4552	
	25669.125	0																			3894.6273	
	25665.928	1																			3895.1124	
	25665.552	4																			3895.1695	
1	25664.861	1	13517.647-39182.490	18				.	.	2.0-	2.0				0.892	0.990*	98	-139	-278	3895.2743	ISQ	
	25664.419	0																			3895.3414	
	25663.940	5						2.0-	2.0					.415					73		3895.4141	
	25663.112	4						0.0-	1.0			.000	1.505						171		3895.5398	
1	25662.019	5	8768.139-34430.160	-2				2.0-	3.0	2.0-	3.0				0.362	0.000*	0		-44	3895.7057		
1	25661.335	2	8768.139-34429.460	14				.	.	2.0-	2.0				0.362	0.930*	568		-219	3895.8096		
1	25660.821	9R	25660.792- 0.000	29				1.0-	0.0	1.0-	0.0	1.146	.000		1.146	0.000	0		-13	3895.8876		
	25658.932	0																			3896.1744	
	25658.257	2																			3896.2769	
	25657.895	0																			3896.3319	
2	25656.679	0	15098.815-40755.465	29				1.5-	2.5	1.5-	2.5	.938	.740	.198	1.079	0.800	279			3896.5166		
1	25655.257	2	6313.866-31970.100	33				.	.	4.0-	4.0				0.487	1.100*	613		-194	3896.5792		
	25655.396	0																			3896.7114	
1	25655.285	0	9724.351-35379.603	33				.	.	3.0-	3.0				0.442	1.165	723		-234	3896.7283		
	25654.500	0																			3896.8475	
1	25654.340	1	13726.661-39380.945	56				.	.	3.0-	4.0	1.012			1.150	1.070*	80			3896.8718	f SO	
	25653.107	2																			3897.0591	
	25652.865	1																			3897.0959	
	25651.976	1																			3897.2310	
2	25651.876	1	18720.075-44371.925	26				.	.	3.5-	3.5				1.060	0.970*	90			3897.2462		
2	25651.540	2	28887.310- 3235.770	0				.	.	0.5-	0.5				0.162	0.299	137		39	3897.2972		
	25651.089	1																			3897.3657	
1	25650.785	1	10486.922-35137.730	-23				.	.	1.0-	2.0				0.355	1.525	1170		-279	3897.4119		
2	25648.893	0	40341.970-14693.050	13				.	.	1.5-	0.5				0.890	0.840*	50			3897.6994		
	25648.457	0																			3897.7657	
1	25648.009	1	16532.104-42180.150	-37*				.	.	3.0-	4.0				0.300	1.020*	720			3897.8338		
	25647.643	1																			3897.8894	
	25646.697	1																			3898.0332	
	25646.438	3										1.06	1.08	.18					-219		3898.0649	ISQ 2J0G
	25646.144	1																			3898.1172	
2	25645.792	1	23738.900-49384.725	-33				.	.	2.5-	2.5				0.679	0.930*	251			3898.1707	CQ	
2	25645.530	1	14561.607-40207.135	2				.	.	1.5-	2.5				1.149	1.020*	129			3898.2106		
1	25644.881	5	35833.360-10238.473	-6				5.0-	6.0	5.0-	6.0	1.185	1.450	.265	1.164	1.431	267	-37	-45	3898.3092	IS*	
	25644.457	0																			3898.3737	
1	25643.817	1	12159.465-37803.250	32				.	.	4.0-	3.0				0.844	1.081	237		-253	3898.4710		
	25641.929	1																			3898.7580	
	25641.677	2																			3898.7963	
2	25641.453	1	18720.075-44361.495	33				.	.	3.5-	2.5				1.060	0.850*	210			3898.8304		
2	25640.874	2	37440.110-11799.241	5				.	.	4.5-	5.5				1.125	1.373	248			3898.9184		
	25638.953	2																			3899.2106	
	25638.279	1																			3899.3131	
	25637.301	1																			3899.4618	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	25636.860	2	11840.715-37477.540	35	.	3.0- 3.0	.	.	.	.	0.811	1.120	309	.	.	3899.5289	
	25635.823	1														3899.6867		
1	25635.267	0	12177.963-37813.200	30	.	1.0- 2.0	.	.	.	.	0.525	0.955	430	.	-238	3899.7712	
2	25634.707	1	19466.530-45101.220	17	.	4.5- 5.5	.	.	.	.	1.151	1.060*	91	.	.	3899.8564	
	25634.414	2														3899.9010		
2	25633.828	3	31351.800- 5717.976	4	.	4.5- 3.5	.	.	.	.	1.120	1.596*	476	.	126	3899.9902	
	25632.519	1														3900.1893		
	25631.950	2														3900.2759		
	25631.563	1														3900.3348		
2	25630.608	4	12992.644-38623.240	12	2.5-	3.5	2.5-	3.5	.623	.	0.643	0.640*	3	.	.	3900.4801	f SO	
1	25629.799	2	35868.246-10238.473	26	6.0-	6.0	6.0-	6.0	.	.26	1.162	1.431	269	.	-38	3900.6033		
	25628.743	2														3900.7640		
1	25628.556	2	12159.465-37787.990	31	.	4.0- 4.0	.	.	.	.	0.844	1.260	416	.	-356	3900.7924	
	25628.072	1														3900.8661		
	25627.780	2														3900.9106		
2	25626.780	0	17073.340-42700.125	-5	.	1.5- 2.5	.	.	.	.	0.576	0.815	239	.	.	3901.0628	
	25626.569	0														3901.0949		
2	25625.235	2	33123.530- 7498.364	19	2.5-	2.5	2.5-	2.5	1.31	1.31	.236	1.285	1.321	36	.	137*	3901.2980	JQ
	25624.916	1														3901.3466		
1	25623.378	5	31767.869- 6144.515	24	4.0-	3.0	4.0-	3.0	1.217	1.498	.281	1.189	1.473	284	0	.	3901.5807	IS*
	25622.503	1														3901.7140		
1	25620.560	5	34799.810- 9179.262	12	4.0-	5.0	4.0-	5.0	1.145	1.450	.305	1.145	1.454	309	-15	.	3902.0099	IS*
2	25618.897	2	35345.225-10726.322	-6	.	3.5- 4.5	.	.	.	.	1.214	1.391	177	.	.	3902.2632	239B
2	25618.683	3	16499.640-42118.305	23	.	3.5- 4.5	.	.	.27	.	0.773	1.040	267	-211	-215	3902.2950		
	25618.412	0														3902.3371		
1	25617.834	1	12322.613-37940.455	-8	.	2.0- 3.0	.	.	.	.	1.036	1.170*	134	.	-245	3902.4251	
1	25616.321	4	33390.950- 7774.653	24*	3.0-	4.0	3.0-	4.0	1.052	1.463	.411	1.050	1.463	413	-035	-45	3902.6556	
	25615.715	1														3902.7479		
1	25615.291	7	29914.927- 4299.659	23	3.0-	2.0	3.0-	2.0	1.196	1.484	.288	1.194	1.482	288	88	78	3902.8125	
2	25614.967	2	32893.805- 7278.862	24	.	4.5- 4.5	.	.	.	.	0.980	1.545*	565	.	109	3902.8619	
	25612.946	0														3903.1699		
2	25611.304	1	20073.840-45685.090	54	.	5.5- 4.5	.	.	.	.	0.790	0.955*	165	.	.	3903.4201	
2	25610.786	0	15657.156-41267.915	27	.	2.5- 2.5	.	.	.	.	1.000	0.860	140	.	.	3903.4991	
1	25608.427	5	35846.861-10238.473	39	5.0-	6.0	5.0-	6.0	1.076	1.360	.284	1.151	1.431	280	31	31	3903.8587	IS*
	25607.353	0														3904.0224		
2	25606.711	7	36333.015-10726.322	18	5.5-	4.5	5.5-	4.5	1.087	1.394	.307	1.137	1.391	254	0	9	3904.1203	IS*
	25606.108	2														3904.2122		
	25605.725	1														3904.2706		
	25605.193	1														3904.3517		
	25604.996	0														3904.3818		
	25603.185	1														3904.6579		
2	25602.175	1	40035.490-14433.351	36	.	1.5- 1.5	.	.	.	.	1.180	1.925*	745	.	.	3904.8120	
2	25601.489	4	32880.320- 7278.862	31*	5.5-	4.5	5.5-	4.5	1.153	1.489	.336	1.209	1.545	336	+	15	3904.9166	
	25600.849	3														3905.0142		
	25599.101	2														3905.2809		
	25597.716	0														3905.4922		
	25595.652	1														3905.8071		
	25594.969	1														3905.9114		
	25594.779	1														3905.9404		
	25594.341	3														3906.0072	f DJ1	
	25593.906	1							1.16	.	.	.	.	.	.	3906.0736	
2	25593.641	6	31095.675- 5502.060	26	.	2.5- 1.5	.	1.19	.	.	1.170	1.169*	1	64	74	3906.1140	f SI	
	25593.007	1														3906.2108		
	25591.704	1														3906.4097		
2	25591.333	1	44257.315-18666.005	74	.	1.5- 2.5	.	.	.	.	1.185	1.365	180	.	.	3906.4587	CQ

C	HAVE	NUMBER	I	T2	-	T1	O-C	CBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVE	NOTES		
								J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS	LENGTH			
	25591.160	2																			3906.4927		
	25590.014	2																				3906.6677	
	25588.915	0																				3906.8355	
2	25586.737	6		29556.550-	3969.846	33	1.5-	2.5	1.5-	2.5				1.21	0.484	1.670	1186				3907.1680		
2	25586.433	8		8709.640-	34296.050	23	3.5-	4.5	3.5-	4.5	.308	.768	.460		0.308	0.768	460	-262	-260		3907.2145		
	25584.135	4					4.0-	3.0						.34								3907.5654	JQ
	25582.042	5					4.0-	5.0						.194								3907.8851	IS* JQSO
1	25581.675	5		29881.327-	4299.659	7	2.0-	2.0	2.0-	2.0				.324	1.153	1.482	329	-	-12		3907.9412		
1	25580.387	5		31724.867-	6144.515	35	2.0-	3.0	2.0-	3.0	1.023	1.474	.454		1.016	1.473	457	-68	-78		3908.1380		
2	25579.945	3		40013.240-	14433.351	56	.	.	2.5-	1.5					1.185	1.925	740				3908.2055		
	25578.251	0																				3908.4643	
1	25577.654	1		11840.715-	37418.345	24	.	.	3.0-	2.0					0.811	0.932	121		-215		3908.5556		
	25577.111	1																				3908.6386	
2	25576.060	2		39566.980-	13990.952	32	.	.	1.5-	1.5					1.180	1.728*	548	+			3908.7992		
2	25574.705	1		37373.930-	11799.241	16	.	.	4.5-	5.5					1.175	1.373	198				3909.0063		
2	25574.240	4		36300.540-	10726.522	22	4.5-	4.5	4.5-	4.5				1.60	1.142	1.391	249	+			3909.0774	JQ 2JDG	
2	25573.953	4		25573.915-	0.000	38	1.5-	0.5	1.5-	0.5	1.640	3.193	1553		1.627	3.150	1523		-63		3909.1212		
	25573.640	0																				3909.1691	
1	25572.475	3		34751.714-	9179.262	23	4.0-	5.0	4.0-	5.0					1.146	1.454	308	-93	-87		3909.3472	JQDJISQ	
	25572.195	1																				3909.3900	
2	25570.837	0		12992.644-	38563.445	36	.	.	2.5-	2.5					0.643	1.085	442				3909.5976		
	25570.628	2																	-224			3909.6295	IS*
	25569.751	1																				3909.7636	
	25568.372	0																				3909.9745	
	25567.921	1																				3910.0435	
1	25567.587	2		11840.715-	37403.285	17	.	.	3.0-	4.0					0.811	1.045	234		-204		3910.0946		
2	25566.624	4		28802.375-	3235.770	19	0.5-	0.5	0.5-	0.5	.803	.306	.497		0.800	0.299	501	328	337		3910.2418		
2	25566.421	6		31284.370-	5717.976	27	3.5-	3.5	3.5-	3.5	1.122	1.604	.482		1.114	1.596	482	-	-12		3910.2729		
1	25565.135	4		27768.715-	2203.606	26	1.0-	1.0	1.0-	1.0	.733	1.503	.770		0.722	1.495	773	17	17		3910.4696	IS*	
	25564.615	0																				3910.5491	
	25562.147	0																				3910.9267	
	25560.919	0																				3911.1146	
1	25560.220	7		25560.208-	0.000	12	1.0-	0.0	1.0-	0.0	1.500	.000			1.500	0.000*	0	124	129		3911.2216		
1	25559.115	2		13726.661-	39285.760	16*	.	.	3.0-	2.0					1.150	1.020	130		-271		3911.3907		
	25558.238	3																				3911.5249	
1	25557.574	6		31702.058-	6144.515	31	3.0-	3.0	3.0-	3.0	1.098	1.477	.379		1.085	1.473	388	44	37		3911.6265	IS*	
2	25556.768	4		31274.745-	5717.976	-1	2.5-	3.5	2.5-	3.5			.395		1.200	1.596*	396	+	38*		3911.7499		
	25553.826	1																				3912.2002	
	25553.232	1H																	0			3912.2912	IS*
	25551.975	2H																				3912.4836	
	25551.698	3																				3912.5261	
2	25551.445	7		8709.640-	34261.065	20	3.5-	4.5	3.5-	4.5	.304	.916	.612		0.308	0.920	612	-159	-159		3912.5648		
	25550.553	0																				3912.6999	
	25549.109	1																				3912.9225	
	25546.077	1																				3913.3870	
1	25545.777	4		29845.430-	4299.659	6	.	.	1.0-	2.0	1.336	1.482	.146		1.336	1.482	146	0	2		3913.4329	IS*	
2	25545.448	7		11504.095-	37949.535	28	3.5-	2.5	3.5-	2.5	.859	.730	.129		0.859	0.730	129	-334	-334		3913.4803		
	25543.800	1																				3913.7358	
	25543.252	1																				3913.8198	
2	25540.975	1		22799.695-	48340.695	-25	.	.	4.5-	4.5					1.330	1.260*	70				3914.1687		
2	25540.420	4		14295.565-	39835.970	15	3.5-	3.5	3.5-	3.5	.798	.858	.040		0.790	0.850*	60	-214	-219		3914.2538	JQ	
	25539.161	2																				3914.4467	
2	25538.293	2		15778.634-	41316.930	-3	.	.	1.5-	1.5					1.133	0.700*	433				3914.5798		
1	25538.123	1		11840.715-	37378.815	23	.	.	3.0-	2.0					0.811	0.964	153		-203		3914.6058		
2	25537.760	1		35726.195-	10128.463	28	.	.	0.5-	0.5					1.550	2.402*	852				3914.6615		

C	WAVELENGTH	I	T2	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
						J2	J1	J2	J1				G2	G1	G6	IS	IS		
2	25537.585	0	14561.607-40099.165	27	.	.	.	1.5- 2.5	.	.	.	1.149	0.950*	199	.	.	3914.6883		
2	25536.327	1	39262.620-13726.318	25	.	.	.	3.5- 2.5	.	.	.	0.950	0.784	166	.	.	3914.8312		
	25534.831	2			.	.	.		.	.	.				.	.	3915.1105	
	25532.496	1			.	.	.		.	.	.				.	.	3915.4686	
	25532.052	1			.	.	.		.	.	.				.	.	3915.5367	
	25531.661	0			.	.	.		.	.	.				.	.	3915.5966	
1	25531.315	0	9724.351-35255.665	1	.	.	.	3.0- 4.0	.	.	.	0.442	1.080*	638	-254	.	3915.6497		
1	25530.994	0	10486.922-36017.900	16	.	.	.	1.0- 1.0	.	.	.	0.355	0.910	555	-231	.	3915.6989		
2	25530.285	2	36256.590-10726.322	17	.	.	.	3.5- 4.5	.	.	.	1.115	1.391	276	.	.	3915.8077		
1	25529.740	3	34703.947- 9179.262	55	.	.	.	4.0- 5.0	.	.	.	1.043	1.454	411	22*	.	3915.8913		
	25529.424	0			.	.	.		.	.	.				.	.	3915.9398	
	25529.130	0			.	.	.		.	.	.				.	.	3915.9849	
	25528.877	0			.	.	.		.	.	.				.	.	3916.0237	
	25527.739	2			.	.	.		.	.	.				.	.	3916.1982	
	25527.602	1			.	.	.		.	.	.				.	.	3916.2193	
2	25527.197	1	27542.165- 2014.966	-2	.	.	.	2.5- 1.5	.	.	.	0.934	1.881	947	.	135*	3916.2814		
1	25526.986	5	33301.630- 7774.653	9	5.0-	4.0	5.0-	4.0	1.224	1.466	.242	1.221	1.463	242	076	73	3916.3138		
	25525.712	1			.	.	.		.	.	.				.	.	3916.5092	
	25524.761	1			.	.	.		.	.	.				.	.	3916.6552	
	25523.935	2			0.0-	1.0			.000	1.533					.	.	3916.7819		
	25523.129	3			2.5-	2.5			.	.	.350				.	.	3916.9056		
	25522.127	0			.	.	.		.	.	.				.	.	3917.0594	
2	25520.818	4	33019.160- 7498.364	22	3.5-	2.5	3.5-	2.5	1.159	1.321	.162	1.160	1.321	161	+	7	3917.2603		
	25520.416	1			.	.	.		.	.	.				.	.	3917.3220	
1	25519.697	3	9386.801-34906.470	28	5.0-	5.0	5.0-	5.0	.	.	.12	0.801	0.925	124	-180	-178	3917.4324	JQ DJO	
	25519.500	1			.	.	.		.	.	.				.	.	3917.4626	
	25518.196	0			.	.	.		.	.	.				.	.	3917.6628	
	25517.924	1			.	.	.		.	.	.				.	.	3917.7046	
	25517.053	1			.	.	.		.	.	.				.	.	3917.8383	
	25516.189	0			.	.	.		.	.	.				.	.	3917.9710	
2	25515.523	4	34757.860- 9242.356	19	3.5-	3.5	3.5-	3.5	.	.	.169	1.202	1.369	167	.	57	3918.0732		
	25515.273	1			.	.	.		.	.	.				.	.	3918.1116	
1	25513.733	1	8768.139-34281.845	27	.	.	.	2.0- 2.0	.	.	.	0.362	0.850*	488	-239	.	3918.3481		
1	25512.691	6	31657.182- 6144.515	24	2.0-	3.0	2.0-	3.0	.	.	.	0.000	1.473*	0	13	.	3918.5082	PB	
1	25511.357	7	29810.974- 4299.659	42	3.0-	2.0	3.0-	2.0	1.184	1.483	.299	1.184	1.482	298	-115	-88	3918.7131		
2	25508.669	2	27523.600- 2014.966	35	.	.	.	0.5- 1.5	.	.	.	0.940	1.881	941	.	27	3919.1260		
2	25508.336	1	17073.340-42581.655	21	.	.	.	1.5- 1.5	.	.	.	0.576	0.790*	214	.	.	3919.1772		
	25507.945	0			.	.	.		.	.	.				.	.	3919.2372	
1	25506.668	5	6313.866-31820.494	40	4.0-	4.0	4.0-	4.0	.	.	.753	0.487	1.240	753	-301	-303	3919.4335	DJO	
	25505.677	4			.	.	.		.	.	.				.	.	3919.5858	
	25505.238	1			.	.	.		.	.	.				.	.	3919.6532	
2	25503.976	1	22652.035-48156.010	1	.	.	.	3.5- 2.5	.	.	.	1.185	0.920	265	.	.	3919.8472	C2	
1	25503.976	1	13726.661-39230.610	27*	.	.	.	3.0- 4.0	.	.	.	1.150	1.090*	60	-214	.	3919.8472	C2	
	25503.733	0			.	.	.		.	.	.				.	.	3919.8845	
	25503.196	2			.	.	.		.	.	.				.	.	3919.9671	
	25501.571	1			.	.	.		.	.	.				.	.	3920.2169	
	25501.283	3			.	.	.		.	.	.				.	.	3920.2611	
1	25500.498	5	33275.150- 7774.653	1	4.0-	4.0	4.0-	4.0	1.267	1.474	.207	1.253	1.463	210	+	.	3920.3818		
1	25500.052	2	15424.387-40924.450	-11	.	.	.	3.0- 3.0	.	.	.	1.106	1.185	79	-190	.	3920.4504		
	25499.249	1			.	.	.		.	.	.				.	.	3920.5739	
	25498.865	2			.	.	.		.	.	.				.	.	3920.6329	
2	25497.942	1	31000.010- 5502.060	-8	.	.	.	1.5- 1.5	.	.	.	1.669	1.169	500	.	84	3920.7748	C2	
1	25497.942	1	14853.317-40351.235	24	.	.	.	4.0- 5.0	.	.	.	0.786	1.070	284	.	.	3920.7748	C2	
2	25496.931	0	22652.035-48149.055	-89	.	.	.	3.5- 3.5	.	.	.	1.185	0.980*	205	.	.	3920.9303	CQ	
2	25496.203	1	32994.525- 7498.364	42	.	.	.	1.5- 2.5	.	.	.	1.110	1.321	211	.	.	3921.0423		

C	HAVEN	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	25495.351	2	17296.905-42792.230	56	.	.	4.5-	3.5	.	.	.	.	.	0.494	0.900	406	.	.	3921.1687	
2	25495.074	1	22653.965-48149.055	-16	.	.	2.5-	3.5	.	.	.	.	.	1.360	0.980*	380	.	.	3921.2159	
	25493.957	0			.	.			.	.	.	.	.				.	.	3921.3877	
	25493.325	0			.	.			.	.	.	.	.				.	.	3921.4849	
	25493.119	0			.	.			.	.	.	.	.				.	.	3921.5166	
2	25492.770	6	14561.607-40054.350	27	1.5-	0.5	1.5-	0.5	1.152	.393	.759	.	.	1.149	0.390	759	-264	-264*	3921.5703	
	25491.555	1			.	.			.	.	.	.	.				.	.	3921.7572	
	25489.931	2			.	.			.	.	.	.	.				.	.	3922.0071	
2	25489.472	0	21991.980-47481.485	-13	.	.	2.5-	3.5	.	.	.	.	.	1.344	1.000	344	.	.	3922.0746	
	25488.279	2			.	.			.	.	.	.	.				.	.	3922.2613	
2	25487.726	1	20063.650-45551.330	46	.	.	4.5-	5.5	.	.	.	.	.	1.049	1.060*	11	.	.	3922.3464	
	25486.735	0			.	.			.	.	.	.	.				.	.	3922.4989	
1	25486.015	1B	9724.351-35210.360	6	.	.	3.0-	2.0	.	.	.	.	.	0.442	1.180*	738	-224		3922.6097	C2
1	25486.015	1B	33260.650- 7774.653	18	.	.	3.0-	4.0	.	.	.	.	.	1.015	1.463	448	5		3922.6097	C2
	25485.420	0			.	.			.	.	.	.	.				.	.	3922.7013	
1	25483.923	0	14025.007-39508.910	20	.	.	4.0-	3.0	.	.	.	.	.	0.975	0.870	105	.	.	3922.9317	
	25483.350	1			.	.			.	.	.	.	.				.	.	3923.0138	
	25483.119	1			.	.			.	.	.	.	.				.	.	3923.0555	
	25482.551	4			.	.			.	.	.	.	.				.	.	3923.1430	
	25481.572	0			.	.			.	.	.	.	.				.	.	3923.2937	
1	25480.647	2	12322.613-37803.250	10	.	.	2.0-	3.0	.	.	.	.	.	1.036	1.081	45	-256		3923.4361	
	25480.173	1			.	.			.	.	.	.	.				.	.	3923.5083	
	25478.574	0			.	.			.	.	.	.	.				.	.	3923.7553	
2	25476.755	5	36203.035-10726.322	43	.	.	4.5-	4.5	.	.	.	.	.	0.983	1.391	408	.	.	3924.0353	C2 CQ
2	25476.756	5	14561.607-40038.370	-7	.	.	1.5-	1.5	.	.	.	.	.	1.149	0.440*	709	.	.	3924.0353	C2
	25476.192	1			.	.			.	.	.	.	.				.	.	3924.1222	
	25475.022	0			.	.			.	.	.	.	.				.	.	3924.3024	
	25474.305	0			.	.			.	.	.	.	.				.	.	3924.4129	
	25473.765	0			.	.			.	.	.	.	.				.	.	3924.4961	
	25473.280	2			.	.			.	.	.	.	.				.	.	3924.5708	
	25473.035	2			.	.			.	.	.	.	.				.	.	3924.6086	
2	25471.112	4	35659.575-10188.463	0	0.5-	0.5	0.5-	0.5	.46	2.40	1.94	.	.	0.460	2.402*	1942	-118	-118*	3924.9049	
2	25469.919	2	45296.930-19827.020	9	.	.	1.5-	1.5	.	.	.	.	.	1.245	1.733	488	.	.	3925.0887	
	25468.497	4			.	.			.	.	.	.	.				.	.	3925.3079	
1	25468.093	5	12351.522-37819.580	35*	6.0-	7.0	6.0-	7.0	.	.	.	.117	.	0.995	1.110*	115	-126	-136	3925.3701	JQ SI
	25467.836	3			.	.			.	.	.	.	.				.	.	3925.4097	
	25466.837	1			.	.			.	.	.	.	.				.	.	3925.5637	
	25466.560	3			.	.			.	.	.	.	.				.	.	3925.6064	
1	25465.925	6	29765.568- 4299.659	16	3.0-	2.0	3.0-	2.0	1.147	1.467	.320	.	.	1.162	1.482	320	-	-45*	3925.7043	
	25464.433	2			.	.			.	.	.	.	.				.	.	3925.9343	
	25464.196	0			.	.			.	.	.	.	.				.	.	3925.9709	
	25463.782	1			.	.			.	.	.	.	.				.	.	3926.0347	
	25463.458	1			.	.			.	.	.	.	.				.	.	3926.0847	
	25463.085	1			.	.			.	.	.	.	.				.	.	3926.1422	
2	25462.696	1	40951.155-15483.530	71	.	.	2.5-	3.5	.	.	.	.	.	1.015	1.057	42	.	.	3926.2022	
2	25462.020	2	32740.875- 7278.862	7	.	.	4.5-	4.5	.	.	.	.	.	0.970	1.545	575	-26*		3926.3064	
	25461.665	2			.	.			.	.	.	.	.				.	.	3926.3612	
	25459.328	1			.	.			.	.	.	.	.				.	.	3926.7216	
	25457.766	0			.	.			.	.	.	.	.				.	.	3926.9625	
2	25457.383	1	17242.750-42700.125	8	.	.	2.5-	2.5	.	.	.	.	.	1.200	0.815*	385	.	.	3927.0216	
1	25456.922	1	14025.007-39481.900	29	.	.	4.0-	5.0	.	.	.	.	.	0.975	1.165	190	-279		3927.0927	
	25456.746	1			.	.			.	.	.	.	.				.	.	3927.1199	
	25456.011	5			.	.			.	.	.	.	.				.	.	3927.2332	
	25455.293	2			.	.			.	.	.	.	.				.	.	3927.3440	
	25454.657	3			.	.			.	.	.	.	.				.	.	3927.4422	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OSS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	25454.021	1	14025.007-39479.000			28	.	.	4.0-	3.0	.	.	.	0.975	0.970	5	.	.	3927.5403	
	25453.853	0					.	.			.	.	.				.	.	3927.5562	
	25453.161	0					.	.			.	.	.				.	.	3927.6730	
1	25452.785	6	34532.045- 9179.262			2	6.0-	5.0	6.0-	5.0	1.109	1.482	.373	1.081	1.454	373			3927.7310	
2	25451.366	6	27466.315- 2014.966			17	1.5-	1.5	1.5-	1.5	1.739	1.825	.086	1.793	1.881	88	142	148	3927.9500	
	25451.169	2					.	.			.	.	.				.	.	3927.9804	
	25450.860	1					.	.			.	.	.				.	.	3928.0281	
	25450.573	1					.	.			.	.	.				.	.	3928.0724	
	25449.682	2					.	.			.	.	.				.	.	3928.2099	
1	25449.335	2	34628.584- 9179.262			13	.	.	4.0-	5.0	.	.	.	1.144	1.454	310	+	41	3928.2635	
	25449.212	2					.	.			.	.	.				.	.	3928.2825	
	25448.804	0					.	.			.	.	.				.	.	3928.3455	
	25448.428	0					.	.			.	.	.				.	.	3928.4035	
	25448.202	0					.	.			.	.	.				.	.	3928.4384	
1	25447.617	9R	27651.193- 2203.606			30	2.0-	1.0	2.0-	1.0	1.57	1.49	.08	1.570	1.495	75	-079	-38	3928.5287	
	25446.793	0					.	.			.	.	.				.	.	3928.6559	
	25443.581	3					.	.			.	.	.				.	053	3929.1519	
	25442.698	2					.	.			.	.	.				.	.	3929.2882	239Q
2	25442.432	5	31160.405- 5717.976			3	3.5-	3.5	3.5-	3.5	.	.	.613	0.978	1.596	618	329	327	3929.3293	
	25442.052	0					.	.			.	.	.				.	.	3929.3880	
1	25441.830	3	14025.007-39466.835			2	.	.	4.0-	5.0	.	.	.	0.975	1.065	90		-219	3929.4223	
	25441.399	2					.	.			.	.	.				.	.	3929.4889	
	25440.135	2					.	.			.	.	.				.	.	3929.6841	
1	25438.669	1	12322.613-37761.260			22	.	.	2.0-	3.0	.	.	.	1.036	1.110*	74			3929.9106	
	25436.985	0					.	.			.	.	.				.	.	3930.1708	
	25435.706	1					.	.			.	.	.				.	.	3930.3684	
	25435.625	1					.	.			.	.	.				.	.	3930.3809	
1	25433.311	2	29732.960- 4299.659			10	.	.	1.0-	2.0	.	.	.	1.289	1.482	193		-27	3930.7385	
2	25432.180	0	37439.680-12007.503			3	.	.	0.5-	1.5	.	.	.	1.110-0.019*1129					3930.9133	
	25431.940	4					.	.			.807	.	.				.	-098	3930.9504	f SO
	25431.047	5					.	.			.	.	.306				.		3931.0884	DJ1
2	25430.353	4B	13192.903-38623.240			16	2.5-	3.5	2.5-	3.5	.	.	.	0.372	0.640*	268			3931.1957	JQ DJ1SP
	25430.300	5B					.	.			.	.	.306				.	-058	3931.2039	DJ12LNSQ
2	25430.300	5B	13013.685-38443.925			60	.	.	5.5-	4.5	.	.	.	0.950	1.020	70	-058	-34	3931.2039	2LNSQ
	25429.413	1					.	.			.	.	.				.		3931.3410	
	25429.271	0					.	.			.	.	.				.		3931.3630	
	25428.242	2					.	.			.	.	.				.		3931.5221	
	25419.814	4					.	.			.	.	.				.	-258	3932.8256	
1	25418.742	3	6313.866-31732.582			26	.	.	4.0-	5.0	.	.	.	0.487	1.049	562		-222	-221	3932.9915
	25417.932	0					.	.			.	.	.				.		3933.1168	
	25417.333	2					.	.			.	.	.				.		3933.2095	
	25416.752	1B					.	.			.	.	.				.		3933.2994	
2	25416.645	1B	20073.840-45490.434			51	.	.	5.5-	4.5	.	.	.	0.790	1.065*	275			3933.3160	
	25416.333	1					.	.			.	.	.				.		3933.3643	
2	25415.777	3	15098.815-40514.565			27	.	.	1.5-	2.5	.	.	.	1.079	0.800	279	-362	-362*	3933.4503	
2	25413.653	1	22799.695-42213.315			33	.	.	4.5-	3.5	.	.	.	1.330	1.040*	290			3933.7791	
1	25412.773	1	15249.635-40662.380			28	.	.	2.0-	3.0	.	.	.	0.715	1.050	335			3933.9153	
2	25412.209	6	37211.420-11799.241			30	6.5-	5.5	6.5-	5.5	1.101	1.407	.306	1.069	1.373	304	060	63	3934.0026	
1	25410.703	1	35649.165-10238.473			11	.	.	5.0-	6.0	.	.	.	1.186	1.431	245		29	3934.2358	
	25410.297	1					.	.			.	.	.				.		3934.2986	
2	25408.842	4	34551.175- 9242.356			23	.	.	3.5-	3.5	.	.	.	1.047	1.369	322	119	104	3934.5239	
	25406.851	0					.	.			.	.	.				.		3934.8323	
	25405.425	1					.	.			.	.	.				.		3935.0531	
	25405.200	1					.	.			.	.	.				.		3935.0880	
	25404.155	3					.	.			.	.	.				.	+	3935.2499	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		OBS		OBS		TERM			OBS		WAVELENGTH	NOTES
							J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
	25403.576	3																3935.3396	
1	25402.697	2	11840.715-37243.390			22	.	.	.	.	.	.	0.811	1.300*	489			3935.4757	
	25402.559	0																3935.4971	
2	25402.207	4	8198.666-33600.850			23	2.5-	2.5	2.5-	2.5	.417	1.266	.849	0.414	1.263	849	-452	-453	3935.5516
1	25401.185	0	12351.522-37752.690			17	.	.	.	.	.	.	.	0.995	1.110*	115		-220	3935.7100
	25399.382	0																3935.9894	
	25399.065	0																3936.0385	
2	25398.401	1	35586.850-10188.463			14	.	.	.	.	.	.	.	1.160	2.402*	1242		-76	3936.1414
1	25397.246	6	25397.206- 0.000			40	1.0-	0.0	1.0-	0.0	.776	.000		0.776	0.000	0		-12	3936.3204
	25396.869	0																3936.3788	
	25396.212	0																3936.4807	
	25393.741	1																3936.8637	
	25393.022	1																3936.9752	
	25391.920	0																3937.1461	
	25391.683	1																3937.1828	
	25390.332	0																3937.3923	
1	25390.007	0	14737.788-40127.800			-5*	.	.	.	.	.	.	.	0.815	1.020	205			3937.4427
1	25389.485	1	13517.647-38907.115			17	.	.	.	.	.	.	.	0.892	1.135	243			3937.5237
	25387.759	2																3937.7914	
	25387.346	0																3937.8555	
1	25383.808	6	6313.866-31697.633			41	4.0-	4.0	4.0-	4.0	.503	1.203	.700	0.487	1.187	700	-109	-117	3938.4043
	25381.471	3																3938.7670	
1	25381.092	1	14737.788-40118.850			30*	.	.	.	.	.	.	.	0.815	1.020	205			3938.8258
	25380.077	3																3938.9833	
	25379.617	5																3939.0547	
	25378.394	0									1.278	1.278						-064	3939.2445
2	25377.721	5	31095.675- 5717.976			22	2.5-	3.5	2.5-	3.5	.	.	.	1.170	1.596*	426	+	54	3939.3490
1	25376.788	7	31521.279- 6144.515			24	4.0-	3.0	4.0-	3.0	1.186	1.450	.264	1.206	1.473	267	-101	-101	3939.4938
	25376.368	0																	3939.5590
	25375.588	1																	3939.6801
1	25375.214	0	11840.715-37215.900			29	.	.	.	.	.	.	.	0.811	1.485	674		-258	3939.7382
	25374.423	1																	3939.8610
1	25373.765	4	9386.801-34760.532			34	5.0-	6.0	5.0-	6.0	.	.	.335	0.801	1.140*	339	-172	-170	3939.9632
2	25373.451	3	19317.370-44690.770			51	.	.	.	.	.	.	.	1.225	0.000*	0			3940.0119
2	25372.573	2	40851.025-15488.530			78	.	.	.	.	.	.	.	1.105	1.057	48			3940.1483
	25372.368	0																	3940.1832
2	25371.267	2	20073.840-45445.065			42	.	.	.	.	.	.	.	0.790	1.000*	210			3940.3511
2	25370.437	1	14476.135-39846.560			12	.	.	.	.	.	.	.	1.060	1.021	39			3940.4800
1	25370.437	1	13726.661-39097.075			23	.	.	.	.	.	.	.	1.150	1.345	195			3940.4800
1	25369.872	5	33144.500- 7774.653			25	4.0-	4.0	4.0-	4.0	.956	1.369	.413	1.052	1.463	411	-077	-85*	3940.5678
	25369.308	1																	3940.6554
	25369.052	1																	3940.6952
2	25368.403	0	22107.410-47475.820			-7	.	.	.	.	.	.	.	1.362	1.085*	277			3940.7960
	25368.199	0																	3940.8277
	25367.793	4																112	3940.8907
	25355.141	1																	3941.3028
1	25363.822	7	29663.455- 4299.659			26	3.0-	2.0	3.0-	2.0	1.235	1.485	.250	1.232	1.482	250		-69	3941.5077
2	25352.824	2	12992.644-38355.450			18	.	.	.	.	.	.	.	0.643	0.698	55		-93	3941.6628
	25352.422	3																	3941.7253
2	25361.402	1	18720.075-44031.440			37	.	.	.	.	.	.	.	1.060	0.875	185			3941.8839
1	25360.621	2	8768.139-34128.739			21	.	.	.	.	.	.	.	0.362	1.106	744		-251	3942.0053
	25350.176	1																	3942.0744
1	25359.611	14	27563.217- 2203.606			0	.	.	.	.	.	.	.	0.745	1.495	750		-77	3942.1623
	25353.391	0																	3942.2742
	25353.473	0																	3942.3392

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OSS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES			
	25358.286	2																					
	25357.912	1																					
2	25357.381	5	35545.800-10183.463		44	0.5-	0.5	0.5-	0.5		.961	2.402	1441	0.961	2.402	1441	-199	-195			3942.3682		
	25355.472	1																				3942.4264	
	25354.428	6	9386.801-34741.198		31	5.0-	5.0	5.0-	5.0		.795	1.064	.269	0.801	1.070	269	-213	-208			3942.5089		
	25352.496	1																				3942.8058	
	25351.742	0																				3942.9681	
	25351.260	0																				3943.2686	
1	25350.934	2	39692.853-14341.947		28	.	.	3.0-	2.0		.	.	.	1.025	0.852	173			48*		3943.3859		
	25349.637	2																				3943.4609	
	25349.450	1																				3943.5116	
	25349.061	2																				3943.7134	
	25346.718	1																				3943.7425	
1	25345.739	6	33120.375- 7774.653		17	3.0-	4.0	3.0-	4.0		1.126	1.476	.350	1.113	1.463	350	082	90			3943.8030		
	25343.829	5									1.251	1.251					-060					3944.1675	
2	25342.405	1	40035.490-14693.090		5	.	.	1.5-	0.5		.	.	.	1.180	0.840*	340						3944.3199	
	25342.094	2																				3944.6172	
	25340.868	4															-248					3944.8388	
1	25340.416	4	35578.900-10238.473		-11	.	.	5.0-	6.0		.	.	.	1.193	1.431	238	-060					3944.8872	
1	25339.269	2	8768.139-34107.378		30	.	.	2.0-	3.0		.	.	.	0.362	1.160*	798	-		-47			3945.0781	
2	25338.924	1	17242.750-42581.655		19	.	.	2.5-	1.5		.	.	.	1.200	0.790*	410	-221	-224				3945.1485	
	25334.495	0																				3945.3270	
1	25333.339	4	9386.801-34720.110		30	.	.	5.0-	4.0		.	.	.	1.801	1.030	229	-488	-488				3945.3808	
2	25331.409	1	14476.135-39807.520		24	.	.	4.5-	4.5		.	.	.	1.060	0.725	335						3946.0705	
	25330.977	1																				3946.2506	
1	25330.239	4	9724.351-35054.565		25	3.0-	3.0	3.0-	3.0		.	.	.550	0.442	0.998	556	-202	-204				3946.5512	
	25329.572	2																				3946.6186	
	25328.774	0																				3946.7335	
1	25328.591	1	14292.176-39620.765		2	.	.	5.0-	6.0		.	.	.	0.970	0.965	5			-268			3946.8375	
2	25328.304	6	32607.135- 7278.862		31	4.5-	4.5	4.5-	4.5		.	.	.494	1.047	1.545	498	+		28			3946.9618	
1	25325.733	6	31470.224- 6144.515		24	3.0-	3.0	3.0-	3.0		1.059	1.473	.414	1.070	1.473*	403	+		35			3946.9903	
1	25325.324	1	15405.760-40732.070		14	.	.	1.0-	2.0		.	.	.	0.890	1.040*	150						3947.0351	
2	25323.541	3	27338.500- 2014.966		7	.	.	1.5-	1.5		.	.	1.00	0.876	1.881	1005	+		39			3947.4358	
	25323.085	1																				3947.4995	
2	25322.441	4	32820.775- 7498.364		30	2.5-	2.5	2.5-	2.5		1.26	1.26		1.315	1.321	6			-52			3947.7775	
	25321.699	1																					3947.8486
	25320.034	3																					3947.9490
2	25318.055	0	44079.570-18761.580		65	.	.	5.5-	5.5		.	.	.	1.085	1.296	211						3948.0646	
1	25317.909	4	35556.380-10238.473		2	6.0-	6.0	6.0-	6.0		.	.	.329	1.100	1.431*	331						3948.3165	
	25316.233	2																					3948.6329
	25315.712	3																					3948.6557
2	25314.309	5	15641.100-40955.335		24	3.5-	3.5	3.5-	3.5		1.025	.850	.175	1.040	0.850*	190	-161	-173				3948.9171	
	25310.252	3															188						3948.9984
	25308.145	0																					3949.2172
	25307.868	1																					3949.8503
	25307.004	4H									2.29	2.29	.240				+						3950.1791
2	25307.004	4B	36033.315-10726.322		11	4.5-	4.5	4.5-	4.5		.	.	.265	1.134	1.391	257	+		40			3950.2223	
	25306.922	4B															-45						3950.3572
	25306.109	0																					3950.3572
	25302.083	3															+						3950.3700
	25301.629	1																					3950.4969
1	25301.331	4	33075.985- 7774.653		-1	3.0-	4.0	3.0-	4.0		.	.	.434	1.050	1.463*	413	102					3951.1255	
	25299.059	1																					3951.1964
2	25298.253	4	15657.156-40955.385		24	2.5-	3.5	2.5-	3.5		1.00	.85	.15	1.000	0.850	150	-164	-161				3951.2430	
	25297.603	0																					3951.5978
																							3951.7237
																							3951.8253

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	25296.925	0																	3951.9312	
	25295.203	3																	3952.2002	
	25293.907	1																	3952.4027	
2	25292.893	4	30794.930-		5502.060	23	1.5-	1.5	1.5-	1.5	1.087	1.176	.089	1.084	1.169	85	+	13	3952.5612	
	25292.171	0																	3952.6740	
	25291.609	1																	3952.7619	
1	25290.338	5	9386.801-34677.111			28	.	.	5.0-	4.0				0.801	1.080	279	-239	-238	3952.9605	
2	25289.832	8	29259.700-		3969.846	28	1.5-	2.5	1.5-	2.5	1.236	1.660	.424	1.250	1.670	420		-37	3953.0318	
1	25288.921	4	29588.570-		4299.659	10	3.0-	2.0	3.0-	2.0	1.163	1.482	.319	1.165	1.482	317	132	139	3953.1820	
	25287.984	2																	3953.3285	
1	25287.608	3	27491.196-		2203.606	18	.	.	2.0-	1.0				1.345	1.495	150	+	39	3953.3873	
	25287.138	1																	3953.4608	
	25285.516	1																	3953.7144	
1	25284.228	4	9386.801-34670.995			34	5.0-	5.0	5.0-	5.0			.203	0.801	1.010*	209	-209	-212	3953.9158	
	25282.507	1																	3954.1849	
2	25281.291	2	23272.420-48553.715			-4	.	.	2.5-	2.5				0.951	0.640*	311			3954.3751	
	25280.980	3					0.5-	1.5			3.465	.844	2621						3954.4238	J0505Q
	25280.089	4															125		3954.5631	
	25279.916	0																	3954.5902	
2	25279.645	3	34522.010-		9242.356	-9	.	.	2.5-	3.5				1.085	1.369	284			3954.6326	
	25278.482	2																	3954.8145	
2	25277.933	0	43943.935-		18666.006	4	.	.	1.5-	2.5				1.095	1.365	270		-228	3954.9004	
	25277.763	1																	3954.9270	
2	25277.378	1	19863.335-		45140.685	28	.	.	2.5-	2.5				0.921	0.850	71			3954.9873	
	25277.015	0																	3955.0441	
1	25276.555	3H	12351.522-		37628.055	22	6.0-	7.0	6.0-	7.0	.995	1.140	.145	0.995	1.140*	145	-180	-177	3955.1161	
	25275.617	1																	3955.2628	
1	25274.321	1	9386.801-34661.105			17	.	.	5.0-	4.0				0.801	1.100	299	-151	-149	3955.4657	
	25272.376	0																	3955.7701	
1	25271.680	6	29571.327-		4299.659	12	1.0-	2.0	1.0-	2.0	1.130	1.483	.353	1.132	1.482	350	-087	-86	3955.8790	IS+Q
	25271.365	1																	3955.9283	
1	25270.809	5	15074.958-		40345.740	27*	7.0-	7.0	7.0-	7.0	1.10	1.06	.04	1.097	1.065	32	-171	-169	3956.0154	
1	25269.121	1	9724.351-		34993.452	20	.	.	3.0-	4.0				0.442	1.213	771		-194	3956.2796	
1	25268.623	2	38946.490-		13677.903	36	.	.	1.0-	1.0				1.060	1.442*	382			3956.3576	
	25268.455	2					0.0-	1.0			.000	1.743							3956.3839	
1	25267.185	2	31411.690-		6144.515	10	.	.	2.0-	3.0				1.289	1.473	184		-11	3956.5828	
2	25266.828	0	38993.130-		13726.318	16	.	.	2.5-	2.5				1.025	0.784	241			3956.6387	
	25266.371	1																	3956.7103	
	25265.439	1																	3956.8562	
	25263.956	1																	3957.0885	
1	25262.669	2	12351.522-		37614.165	26	.	.	6.0-	6.0				0.995	1.190	195	-204	-201	3957.2901	
	25261.907	2																	3957.4095	
	25261.034	3					3.0-	3.0			1.163	1.626	.463						3957.5462	J3535Q
	25259.714	0																	3957.7530	
2	25259.336	2	17532.937-		42792.230	43	.	.	3.5-	3.5				1.238	0.900	338			3957.8123	
2	25257.501	3	30759.570-		5502.060	-9	.	.	2.5-	1.5				1.220	1.169	51		150	3958.0998	
	25256.800	1																	3958.2097	
2	25256.431	1	21048.190-		46304.585	36	.	.	2.5-	2.5				1.030	0.980*	50			3958.2675	
1	25256.051	1	12159.465-		37415.495	21	.	.	4.0-	5.0				0.844	0.980	136		-254	3958.3271	
	25255.843	0																	3958.3597	
1	25253.326	1	12322.613-		37575.920	19*	.	.	2.0-	2.0				1.036	1.220*	184		-290	3958.7542	
	25252.888	0																	3958.8229	
2	25252.007	6	8198.666-		33450.655	18	2.5-	2.5	2.5-	2.5	.435	.962	.527	0.414	0.941	527	-469	-468	3958.9610	
2	25251.064	0	21828.590-		47079.610	44	.	.	2.5-	2.5				0.990	0.960*	30			3959.1088	
	25250.005	0																	3959.2749	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1							G2	G1			DG	IS	IS
	25249.287	1																	3959.3875		
1	25248.840	2	12159.465	-	37408.285	20	4.0-	4.0	4.0-	4.0	.	.	.205	0.844	1.045	201	-211	-203	3959.4576		
	25244.861	0																	3960.0817		
	25244.133	0																	3960.1959		
2	25243.672	1	35432.095	-	10138.463	40	.	.	1.5-	0.5	.	.	.	1.190	2.402	1212			3960.2682		
	25243.118	1																	3960.3551		
1	25242.569	6	9724.351	-	34966.946	-26	.	.	3.0-	4.0	.	.	.	0.442	1.025	583	-272	-292	3960.4412	2LNS	
1	25242.559	6	29542.214	-	4299.659	14	2.0-	2.0	2.0-	2.0	1.306	1.488	.182	1.298	1.482	184	+	22	3960.4412	2LNS	
	25241.978	0																	3960.5340		
	25239.136	1																	3960.9800		
	25237.352	3																	-244	3961.2600	
	25236.946	2																		3961.3237	
1	25236.104	2	38914.005	-	13677.903	2	.	.	2.0-	1.0	.	.	.	1.140	1.442	302		-198	3961.4559		
	25234.440	3																		3961.7171	
	25233.173	0																		3961.9160	
	25232.478	1																		3962.0251	
	25230.473	0																		3962.3400	
2	25229.846	0	39922.940	-	14693.090	-4	.	.	1.5-	0.5	.	.	.	1.060	0.840*	220			3962.4385		
2	25229.487	0	38955.805	-	13726.318	0	.	.	3.5-	2.5	.	.	.	1.165	0.784	381			3962.4949		
	25228.459	0																		3962.6563	
2	25227.935	7	29197.755	-	3969.846	26	2.5-	2.5	2.5-	2.5	.988	1.669	.681	0.989	1.670	681	+	34	3962.7386		
	25226.751	1																		3962.9246	
	25225.878	0																		3963.0618	
2	25225.331	0	30727.440	-	5502.060	1	.	.	1.5-	1.5	.	.	.	1.208	1.169	39		54	3963.1399		
1	25225.138	2	9724.351	-	34949.520	19	.	.	3.0-	2.0	.	.	.	0.442	1.085	643	-210	-210	3963.1702		
2	25224.241	1	19466.530	-	44690.770	1	.	.	4.5-	4.5	.	.	.	1.151	0.000*	0			3963.3190		
	25223.636	0																		3963.4140	
2	25222.539	6	32501.390	-	7278.862	11	4.5-	4.5	4.5-	4.5	1.193	1.547	.352	1.190	1.545	355	064	62	3963.5864		
1	25221.995	3	6313.866	-	31535.835	26	.	.	4.0-	5.0	.	.	.	0.487	1.020	533	-295	-293	3963.6719		
2	25220.499	0	19632.555	-	44853.015	39	.	.	1.5-	2.5	.	.	.	1.010	0.920*	90			3963.9070		
	25220.093	0																		3963.9708	
1	25219.106	0	14853.317	-	40072.380	43*	.	.	4.0-	5.0	.	.	.	0.786	1.100	314			3964.1260		
2	25217.023	1	37016.265	-	11799.241	-1	.	.	5.5-	5.5	.	.	.	1.150	1.373	223			3964.4534		
	25216.599	0																		3964.5201	
	25216.195	0																		3964.5836	
2	25215.707	2	22799.695	-	48015.425	-23	.	.	4.5-	3.5	.	.	.	1.330	1.080*	250			3964.6604		
	25215.317	1																		3964.7217	
1	25213.859	6	31353.339	-	6144.515	35	4.0-	3.0	4.0-	3.0	1.157	1.472	.315	1.155	1.473	318	-073	-70	3964.9509		
2	25212.996	1	37012.210	-	11799.241	27	.	.	4.5-	5.5	.	.	.	1.164	1.373	209		90	3965.0867		
	25212.658	0																		3965.1398	
	25212.215	3																		3965.2095	
	25211.698	3																		3965.2908	
	25211.154	3																		3965.3764	
	25209.781	3																		3965.5923	
	25208.803	2																		3965.7454	
	25207.979	1																		3965.8758	
1	25207.461	5	32982.090	-	7774.653	24	.	.	5.0-	4.0	.	.	.	0.000	1.463*	0	-	-25*	3965.9573		
2	25207.168	3	14295.565	-	39502.705	28	.	.	3.5-	3.5	.	.	.	0.790	0.920*	130	-155	-157	3966.0034		
2	25205.864	1	23272.420	-	48478.270	14	.	.	2.5-	3.5	.	.	.	0.951	0.970	19			3966.2086		
1	25200.833	1	12177.963	-	37378.815	31	.	.	1.0-	2.0	.	.	.	0.525	0.964	439			3966.9925		
1	25199.993	0	12322.613	-	37522.600	6	.	.	2.0-	3.0	.	.	.	1.036	1.260*	224			3967.1327		
2	25199.476	4	34907.455	-	9707.980	1	6.5-	6.5	6.5-	6.5	.	.	.380	1.100	1.485*	385	099	100	3967.2140		
1	25199.030	6	34378.267	-	9179.262	25	4.0-	5.0	4.0-	5.0	1.270	1.453	.183	1.272	1.454	182	-071	-70	3967.2843		
1	25195.985	4	9724.351	-	34920.315	21	3.0-	3.0	3.0-	3.0	.	.	.495	0.442	0.930	488	-245	-244	3967.7637		
2	25193.742	1	20073.840	-	45267.550	32	.	.	5.5-	4.5	.	.	.	0.790	1.045*	255			3968.1170		

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	25192.335	0																3968.3386	
	25191.271	2																3968.5062	
	25190.228	0															-194	3968.6706	
2	25187.719	2	16362.000-41549.680	39*				4.5-	5.5				1.050	1.070*	20			3969.0659	
2	25180.935	3	13809.910-38990.840	5		4.5-	4.5	4.5-	4.5	.655	1.105	.450	0.657	1.105	448	-190	-196	3970.1352	
1	25180.302	6	32954.929- 7774.653	26		3.0-	4.0	3.0-	4.0	1.128	1.482	.354	1.105	1.463	358	-	-57	3970.2350	
2	25175.043	3	35901.360-10726.322	5		5.5-	4.5	5.5-	4.5	1.025	1.365	.340	1.015	1.391	376	090	93*	3971.0644	
1	25174.681	2	14292.176-39466.835	22				5.0-	5.0				0.970	1.065	95	-217	-217	3971.1215	
2	25172.500	6	32670.835- 7498.364	29		2.5-	2.5	2.5-	2.5	1.35	1.31	.04	1.361	1.321	40	-	-27	3971.4656	
2	25171.576	5	33809.795- 8638.233	14		5.5-	5.5	5.5-	5.5			.327	1.180	1.514	334	062	66	3971.6114	
2	25170.771	3	8709.640-33880.390	21				3.5-	3.5				0.308	1.000*	692		-293*	3971.7384	
	25169.505	1																3971.9382	
1	25168.258	5	31312.780- 6144.515	-7				4.0-	3.0				1.189	1.473	284	-	-22	3972.1350	
2	25167.827	8	8198.666-33365.475	18		2.5-	1.5	2.5-	1.5	.413	.128	.285	0.414	0.129	285	-319	-320	3972.2030	
1	25166.207	1	15074.958-40241.170	-5				7.0-	7.0				1.097	1.175	78	-284	-284	3972.4587	
2	25162.566	4	13192.903-33355.450	19		2.5-	1.5	2.5-	1.5	.356	.682	.326	0.372	0.698	326	-096	-97	3973.0335	
	25160.092	0																3973.4242	
	25157.656	0																3973.8090	
1	25156.247	6	32930.874- 7774.653	26		3.0-	4.0	3.0-	4.0	1.216	1.463	.247	1.216	1.463	247		-45*	3974.0315	
	25154.358	1																3974.3300	
2	25153.081	4	8198.666-33351.730	17		2.5-	2.5	2.5-	2.5	.41	.80	.39	0.414	0.800*	386	-448	-448	3974.5318	
1	25152.833	3	8768.139-33920.944	28				2.0-	2.0				0.362	1.040*	678	-197	-199	3974.5709	
	25151.040	1																3974.8543	
2	25150.621	2	40639.100-15483.530	51				4.5-	3.5				1.310	1.057	253			3974.9205	CQ
	25150.083	2																3975.0055	
	25148.484	1																3975.2583	
2	25147.432	9	30865.395- 5717.976	13		3.5-	3.5	3.5-	3.5	1.325	1.590	.265	1.328	1.596	268	-076	-72	3975.4246	2 LNS
2	25147.432	9	27162.335- 2014.966	63		1.5-	1.5	1.5-	1.5	1.036	1.876	.842	1.046	1.881	835		-28	3975.4246	2 LNS
2	25146.607	3	33784.830- 8638.233	10				4.5-	5.5				1.070	1.514	444			3975.5550	
	25145.337	1																3975.7558	
	25144.369	0																3975.9089	
2	25143.942	5	36943.155-11799.241	28		6.5-	5.5	6.5-	5.5	1.103	1.379	.276	1.098	1.373	275	-058	-57*	3975.9764	
	25141.660	1																3976.3373	
1	25141.368	0	14292.176-39433.510	14				5.0-	4.0				0.970	0.925	45		-270	3976.3866	
1	25140.480	1	35378.940-10238.473	13				5.0-	6.0				1.165	1.431	266	-	21	3976.5239	
1	25137.992	5	6313.866-31451.814	44		4.0-	4.0	4.0-	4.0	.49	1.06	.593	0.487	1.080	593	-134	-134	3976.9175	
1	25136.551	5	35375.000-10238.473	24		6.0-	6.0	6.0-	6.0			.248	1.182	1.431	249	056	56	3977.1455	
2	25135.549	3	35861.855-10726.322	16				3.5-	4.5				1.155	1.391	236	+	49	3977.3040	
	25133.362	1																3977.6501	
2	25132.767	3	36931.980-11799.241	28				5.5-	5.5				1.214	1.373	159	226	227	3977.7443	
1	25132.481	3	9386.801-34519.250	32				5.0-	5.0				0.801	1.170*	369	-166	-163	3977.7896	
	25131.603	2																3977.9286	
	25129.443	0																3978.2705	HVLQ
1	25129.150	1	32903.777- 7774.653	26				4.0-	4.0				1.120	1.463*	343		-50	3978.3169	
	25128.129	4						2.0-	2.0			.400						3978.4785	PB 2LNSQ
1	25128.129	4	9724.351-36852.445	35				3.0-	3.0				0.442	1.230	788		-284	3978.4785	2 LNSQ
1	25127.731	2	31272.205- 6144.515	41				2.0-	3.0				1.173	1.473	300		-57	3978.5415	
	25125.502	OH																3978.8945	
	25125.151	OH																3978.9501	
1	25124.540	4	8768.139-33892.650	29		2.0-	3.0	2.0-	3.0	.343	1.042	.699	0.362	1.060	698	-218	-216	3979.0468	
	25123.923	0																3979.1446	
1	25121.934	6	25121.896- 0.000	38		1.0-	0.0	1.0-	0.0	1.446	.000		1.444	0.000	0	-074	-37	3979.4596	
2	25121.057	2	32399.895- 7278.852	24				4.5-	4.5				1.110	1.545*	435		56*	3979.5986	
2	25119.815	6	34362.170- 9242.356	1		4.5-	3.5	4.5-	3.5	1.141	1.311	.171	1.198	1.369	171	077	65	3979.7953	
2	25118.336	3	15778.634-40896.955	15		1.5-	1.5	1.5-	1.5			.333	1.133	0.800*	333			3980.0297	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	25117.527	2																			
2	25115.629	6	10436.770	-	35552.335	14	4.5-	3.5	4.5-	3.5	.710	.890	.180	0.724	0.903	179	245	-280	3980.1579		
	25114.529	0																		3980.4586	
	25114.244	0																		3930.6330	
1	25113.689	6	9386.801	-	34500.445	45	5.0-	6.0	5.0-	6.0	.825	1.054	.229	0.801	1.030	229	-234	-238	3980.6782		
	25111.104	2																		3980.7661	
2	25110.690	3	34353.025	-	9242.356	21	. -	.	3.5-	3.5	.	.	.	1.199	1.369	170	199	189	3981.1759		
	25107.749	2																		3981.2416	
	25106.254	0																		3981.7079	
	25105.352	0																		3981.9450	
	25103.842	4																		3982.0881	
1	25103.842	4	34283.083	-	9179.262	21	5.0-	5.0	5.0-	5.0	1.395	1.395		1.110	1.454	344	-	-28	3982.3276	2LNS	
	25103.383	0									1.119	1.454	.335							3982.3276	2LNS
	25102.999	0																		3982.4004	
2	25102.287	1	18720.075	-	43822.335	27	. -	.	3.5-	2.5	.	.	.	1.060	0.950*	110		-114*	3982.4614		
	25101.046	2																		3982.5743	
1	25099.394	5	6313.866	-	31413.230	30	4.0-	3.0	4.0-	3.0	.499	.754	.255	0.487	0.742	255	-202	-127	3982.7712		
	25098.803	1																		3983.0334	IS*
1	25095.003	3	14292.176	-	39387.160	19*	. -	.	5.0-	6.0	.	.	.	0.970	1.029	59	-128	-127	3983.1240		
	25093.562	2																		3983.7303	
1	25092.655	5	9386.801	-	34479.473	-17	. -	.	5.0-	4.0	.	.	.	0.801	0.944	143	-264	-201	3983.9591		
1	25090.562	3	15074.958	-	40165.495	25	. -	.	7.0-	7.0	.	.	.	1.097	1.120	23	-199	-201	3984.1031		
	25090.108	1																		3934.4354	
	25089.845	1																		3984.5075	
1	25089.460	2	6313.866	-	31403.302	24	. -	.	4.0-	5.0	.	.	.	0.487	1.205	718	-252	-252	3984.5493		
1	25088.868	2	31233.379	-	6144.515	4	. -	.	4.0-	3.0	.	.	.	1.090	1.473	383	-300	-294	3984.6105		
2	25085.639	2	38811.900	-	13726.318	57	. -	.	3.5-	2.5	.	.	.	1.115	0.784	331	-73	-73	3984.7045		
2	25084.233	5	30802.205	-	5717.976	4	. -	.	4.5-	3.5	.	.	.	1.160	1.596*	436	133	133*	3985.2174		
	25084.067	4																		3985.4408	
1	25083.945	4	12159.465	-	37243.390	20	. -	.	4.0-	3.0	.	.	.	0.844	1.300*	456	-066	-78	3985.4672		
2	25083.671	7	8709.640	-	33793.295	16	3.5-	4.5	3.5-	4.5	.303	.796	.493	0.308	0.800	492	-347	-347	3985.4865		
	25081.864	0																		3985.5301	
2	25081.410	1	37088.890	-	12007.503	23	. -	.	0.5-	1.5	.	.	.	0.890	0.019*	909			3985.8172		
1	25080.544	3	9724.351	-	34804.860	35	. -	.	3.0-	4.0	.	.	.	0.442	0.941	499	-295	-291	3985.8894		
	25076.212	0																		3986.0270	
	25075.949	3																		3986.7156	
	25074.721	0																		3986.7574	
	25073.991	1																		3986.9527	
	25072.126	1																		3987.0688	
1	25071.054	3	11747.245	-	36318.300	-1	0.0-	1.0	0.0-	1.0	1.103	.	.	0.000	1.103*	0			3987.3653		
2	25070.399	1	29040.245	-	3969.846	0	. -	.	1.5-	2.5	.	.	.	1.447	1.670	223	-239	-247	3987.5358	f	
	25070.061	1																		3987.6400	
	25066.136	1																		3987.6938	
	25065.992	0																		3988.3182	
1	25065.570	2	8768.139	-	33833.699	10	. -	.	2.0-	2.0	.	.	.	0.362	0.930	568			3988.3411		
	25065.254	1					1.5-	1.5			.924	1.882	.958							3988.4083	
2	25064.983	7	25064.960	-	0.000	23	1.5-	0.5	1.5-	0.5	.582	3.149	2567	0.580	3.150	2570	-090	-94	3988.4586		
	25064.033	1																		3988.5017	
1	25063.361	6	6313.866	-	31377.193	34	4.0-	4.0	4.0-	4.0	.476	.962	.486	0.487	0.973	486	-190	-191	3988.6529		
	25061.824	1																		3988.7598	
2	25059.940	2	30562.000	-	5502.060	0	. -	.	0.5-	1.5	.	.	.	2.689	1.169	1520		79	3989.0044		
	25059.105	1																		3989.3043	
2	25057.809	2	34300.160	-	9242.356	5	. -	.	2.5-	3.5	.	.	.	1.370	1.369*	1			3989.4373		
2	25057.360	5	32555.705	-	7498.364	19	. -	.	1.5-	2.5	.	.	.	1.269	1.321	52			3989.6436		
2	25057.167	2	30775.140	-	5717.976	3	. -	.	3.5-	3.5	.	.	.	1.099	1.596	497	-23*	-89	3989.7151		
																				3989.7458	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	25056.725	5	10436.770-35493.485	10		.	.	4.5-	3.5	.	.	.	0.724	0.931	207	-250	-255	3989.8162		
2	25056.630	7	29026.425-3969.846	51		2.5-	2.5	2.5-	2.5	1.152	1.677	.525	1.150	1.670	520	-	-118	3989.8313		
2	25056.343	6	8198.666-33254.995	14		.	.	2.5-	3.5	.	.	.	0.414	0.975	561	-665	-668	3989.8770		
	25055.068	2				3990.0801	
2	25054.538	1	19317.370-44371.925	33		.	.	4.5-	3.5	.	.	.	1.225	0.970*	255			3990.1565		
1	25054.273	7	27257.860-2203.606	19		2.0-	1.0	2.0-	1.0	1.185	1.489	.304	1.190	1.495	305	072	63	3990.2067		
2	25054.081	3	32332.915-7278.862	28		.	.	4.5-	4.5	.	.	.	1.100	1.545*	445	-090	-83	3990.2373		
	25053.497	0				3990.3303	
	25051.979	0				3990.5721	
2	25051.849	0	39042.775-13990.952	26		.	.	1.5-	1.5	.	.	.	1.050	1.728	678			3990.5928		
	25050.206	0				3990.8545	
	25049.781	1				3990.9222	
1	25048.827	1	34228.090-9179.262	-1		.	.	4.0-	5.0	.	.	.	1.050	1.454*	404		-8*	3991.0742		
	25048.479	1				3991.1297	
	25048.319	0				3991.1552	
2	25047.315	4	30765.285-5717.976	6		.	.	3.5-	3.5	.	.	.	1.190	1.596*	406	-	-21	3991.3152		
	25046.210	0				3991.4913	
2	25045.840	4	32544.185-7498.364	19		3.5-	2.5	3.5-	2.5	.	.	.191	1.130	1.321	191	-065	-68	3991.5502	JQ	
2	25045.694	4	32324.550-7278.862	6		.	.	3.5-	4.5	.	.	.	0.975	1.545	570			3991.5735		
	25043.464	0				3991.9289	
	25042.834	0				3992.0214	
2	25042.071	2	15098.815-40140.890	-4		.	.	1.5-	2.5	.	.	.	1.079	0.720*	359			3992.1510		
2	25041.603	6	30759.570-5717.976	9		2.5-	3.5	2.5-	3.5	1.217	1.593	.376	1.220	1.596	376	127	130	3992.2256		
	25041.398	2				3992.2583	
	25040.722	1				3992.3661	
	25039.952	2				3992.4888	
2	25039.219	0	41325.730-16286.582	71		.	.	0.5-	0.5	.	.	.	0.560	0.122*	682			3992.6057		
1	25037.643	5	12351.522-37339.145	20		6.0-	6.0	6.0-	6.0	.995	1.084	.089	0.995	1.085	90	-164	-164	3992.8570		
	25037.272	1				3992.9162	
	25036.418	0				3993.0524	
	25034.890	0				3993.2961	
2	25030.777	4	34738.755-9707.980	2		6.5-	6.5	6.5-	6.5	.	.	.216	1.270	1.485	215	+	45	3993.9523		
	25030.320	2				3994.0252	
1	25030.113	1	12322.613-37352.720	6		.	.	2.0-	3.0	.	.	.	1.036	1.130*	94		-274	3994.0583		
2	25027.834	0	45203.680-20175.895	49		.	.	2.5-	3.5	.	.	.	1.150	1.515*	365			3994.4220		
2	25027.404	0	20073.840-45161.220	24		.	.	5.5-	5.5	.	.	.	0.790	1.060*	270			3994.4906		
2	25026.602	1	14476.135-39502.705	32		.	.	4.5-	3.5	.	.	.	1.060	0.920*	140			3994.6186		
1	25024.602	2	27228.191-2203.665	17		.	.	1.0-	1.0	.	.	.	1.767	1.495	272			3994.9379		
2	25024.237	4	28259.990-3235.770	17		1.5-	0.5	1.5-	0.5	1.26	.29	.97	1.263	0.299	964	158	162	3994.9961		
	25023.872	1				3995.0544	
2	25022.982	2	13809.910-38332.875	17		.	.	4.5-	4.5	.	.	.	0.657	0.995	338		-197	3995.1965		
	25021.535	0				3995.4276	
	25020.687	3				3995.5630	
	25019.420	0				3995.7653	
1	25018.528	2	12159.465-37177.970	23		.	.	4.0-	5.0	.	.	.	0.844	1.125	281	-232	-227	3995.9078		
2	25017.175	6	28252.945-3235.770	0		0.5-	0.5	0.5-	0.5	.907	.284	.623	0.920	0.299	621		9	3996.1239		
	25016.913	1				3996.1658	
	25016.327	1				3996.2594	
1	25015.727	4	32790.360-7774.653	20*		4.0-	4.0	4.0-	4.0	1.240	1.463	.223	1.240	1.463*	223			3996.3552		
2	25015.090	0	23538.650-68553.715	25		.	.	3.5-	2.5	.	.	.	1.470	0.640*	830			3996.4570		
2	25012.660	1H	20044.005-45056.650	15		.	.	1.5-	2.5	.	.	.	0.820	1.030	210			3996.8453		
1	25011.773	5	9386.801-34393.550	24		5.0-	4.0	5.0-	4.0	.80	.87	.07	0.801	0.870*	69	-217	-218	3996.9870		
2	25011.273	3	39704.305-14693.090	58		.	.	1.5-	0.5	.	.	.	1.220	0.840*	380			3997.0669		
1	25010.995	3	9724.351-34735.314	32		.	.	3.0-	3.0	.	.	.	0.442	0.899	457	-254	-254	3997.1113		
	25010.076	1				3997.2582	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
1	25009.750	OH	15074.958-40034.697			11	.	.	7.0-	6.0	.	.	.	1.097	1.510	413		-307	3997.3103	
	25008.762	0					.	.			.	.	.						3997.4682	
	25003.117	1					.	.			.	.	.						3997.5713	
1	25007.367	1	31151.870-		6144.515	12	.	.	2.0-	3.0	.	.	.	1.632	1.473	159		-122	3997.6912	
	25001.485	1					.	.			.	.	.						3998.6318	
	25001.126	1					.	.			.	.	.						3998.6892	
2	25001.018	2	12048.548-		37049.535	31	.	.	1.5-	2.5	.	.	.	-0.054	0.730	784		10	3998.7065	
	25000.802	1					.	.			.	.	.						3998.7410	
	25000.057	3					.	.			.	.	.						3998.8602	
1	24999.675	3	29299.312-		4299.659	22	.	.	1.0-	2.0	.	.	.	1.307	1.482	175		-60	3998.9213	
1	24999.260	4	32773.905-		7774.653	8	5.0-	4.0	5.0-	4.0	1.14	1.46	.32	1.150	1.463*	313	-105	101	3998.9877	ISQ
2	24997.139	2	14221.716-		39218.825	30	.	.	0.5-	0.5	.	.	.	-0.108	1.610*	1718		-165	3999.3270	
	24996.825	1					.	.			.	.	.						3999.3772	
2	24996.029	1	20689.110-		45685.090	49	.	.	3.5-	4.5	.	.	.	1.270	0.955*	315			3999.5046	
1	24995.783	1	9724.351-		34720.110	24	.	.	3.0-	4.0	.	.	.	0.442	1.030	583		-484	3999.5440	
2	24995.115	2	34703.075-		9707.980	20	.	.	5.5-	6.5	.	.	.	1.030	1.485	455		99	3999.6508	
2	24991.375	1	18720.075-		43711.415	35	.	.	3.5-	3.5	.	.	.	1.060	0.955	105			4000.2494	
	24990.789	2					.	.			.	.	.					-248	4000.3432	
2	24989.710	1	19363.335-		44853.015	30	.	.	2.5-	2.5	.	.	.	0.921	0.920*	1			4000.5159	
2	24988.167	1	36787.360-		11799.241	48	.	.	5.5-	5.5	.	.	.	1.150	1.373	223		115	4000.7630	CQ
	24987.922	1					.	.			.	.	.						4000.8022	
	24986.229	1					.	.			.	.	.						4001.0733	
	24984.715	1					.	.			.	.	.						4001.3158	
	24981.985	2					.	.			.	.	.						4001.7530	
	24981.001	1B					.	.			.	.	.						4001.9107	
2	24980.918	1B	32259.765-		7278.862	15*	.	.	5.5-	4.5	.	.	.	1.180	1.545*	365		-345	4001.9240	
	24980.378	1					.	.			.	.	.					110	4002.0105	
	24979.160	1					.	.			.	.	.						4002.2056	
2	24975.644	3	12992.644-		37969.065	23	2.5-	2.5	2.5-	2.5	.	.	.202	0.643	0.832	189	-305	-302	4002.6408	
	24975.955	3					.	.			.	.	.						4002.7192	
1	24975.559	1	9386.801-		34362.360	0	.	.	5.0-	5.0	.	.	.	0.801	1.120*	319		-158	4002.7827	
	24974.842	0					.	.			.	.	.						4002.8976	
1	24974.121	1	31118.615-		6144.515	21	.	.	2.0-	3.0	.	.	.	0.865	1.473	608			4003.0131	
	24973.080	2					.	.			.	.	.						4003.1800	
	24972.826	1					.	.			.	.	.						4003.2207	
2	24972.249	0	45294.560-		20322.349	38	.	.	5.5-	6.5	.	.	.	1.090	1.314*	224			4003.3132	C2
1	24972.249	0	14853.317-		39825.550	16	.	.	4.0-	4.0	.	.	.	0.786	1.030	244		-171	4003.3132	C2
2	24971.366	5	28941.215-		3969.846	-3	2.5-	2.5	2.5-	2.5	.960	1.667	.707	0.968	1.670	702		-81	4003.4548	
	24968.840	1					.	.			.	.	.						4003.8598	
	24968.312	0					.	.			.	.	.						4003.9445	
	24967.569	2					.	.			1.008	.	.						4004.0636	f
	24965.859	1					.	.			.	.	.						4004.3379	
1	24964.826	3	6313.866-		31278.667	25	.	.	4.0-	5.0	.	.	.	0.487	1.010*	523	-107	-108	4004.5036	
2	24964.057	4	12992.644-		37956.685	26	2.5-	1.5	2.5-	1.5	.643	.904	.261	0.643	0.904	261	-038	-48	4004.6254	PB Q
1	24956.723	3	8768.139-		33724.837	25	.	.	2.0-	3.0	.	.	.	0.362	1.160	798	-237	-238	4005.8038	
2	24955.557	1	15098.815-		40054.350	22	.	.	1.5-	0.5	.	.	.	1.079	0.390	639		-412*	4005.9910	
1	24954.069	4B	6313.866-		31257.919	16	4.0-	3.0	4.0-	3.0	.506	1.090	.584	0.487	1.080	593	-107	-116	4006.2299	
1	24953.962	3B	32728.585-		7774.653	30	.	.	3.0-	4.0	.	.	.	0.947	1.463	516		-62	4006.2470	IS*
	24953.331	2					.	.			.	.	.						4006.3483	
1	24952.737	0	9724.351-		34677.111	-23	.	.	3.0-	4.0	.	.	.	0.442	1.080	638		-234	4006.4437	
1	24951.203	1	14737.788-		39688.980	11	.	.	3.0-	4.0	.	.	.	0.815	0.980*	165			4006.6900	
	24950.170	0					.	.			.	.	.						4006.8559	
	24949.915	0					.	.			.	.	.						4006.8969	
	24949.153	1					.	.			.	.	.						4007.0193	
2	24948.761	0	19466.530-		44415.300	-9*	.	.	4.5-	3.5	.	.	.	1.151	0.940	211			4007.0822	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
	24945.121	1																		4007.6670		
	24944.810	1																		4007.7169		
2	24939.554	1	15098.815	-	40038.370	-1	.	.	1.5-	1.5	.	.	.	1.079	0.440*	639			4008.5616			
	24934.705	0																		4009.3411		
	24934.228	0																		4009.4178		
	24930.264	0																		4010.0553		
	24929.895	4					3.0-	3.0										-185		4010.1147		
2	24928.201	4	30646.175-		5717.976	2	.	.	3.5-	3.5	.	.	.	1.272	1.596	324		2	4010.3872			
	24927.401	4																-281		4010.5159		
1	24926.722	6	9386.801-34313.475		48	5.0-	6.0	5.0-	6.0	.80	1.03	.23	0.801	1.030*	229		-151	-150	4010.6252			
1	24926.312	1	13726.661-38652.990		-17	.	.	3.0-	4.0	.	.	.	1.150	1.090*	60				4010.6911			
2	24924.345	2	28894.140-		3969.846	51	.	.	3.5-	2.5	.	.	1.009	1.670	661			-3	4011.0077			
1	24923.942	3B	13726.661-38650.550		53	3.0-	2.0	3.0-	2.0	.	.	.	1.150	0.785	365			-247	4011.0725	C2		
1	24923.942	3B	34103.210-		9179.262	-6	.	.	5.0-	5.0	.	.	1.028	1.454	426		063	63	4011.0725	C2		
	24923.834	3B																-056		4011.0899		
	24923.374	0																		4011.1639		
2	24922.339	4	34630.315-		9707.980	4	.	.	5.5-	6.5	.	.	.	1.155	1.485	330		017	27	4011.3305		
	24921.577	0																		4011.4532		
1	24921.327	6	27124.898-		2203.606	35	2.0-	1.0	2.0-	1.0	1.197	1.495	.298	1.190	1.495*	305		-036	-26	4011.4934		
	24919.909	0																		4011.7217		
	24917.278	1																		4012.1453		
	24914.316	2									1.00		1.15							4012.6223	FDJ02JD6	
1	24913.557	0	14912.011-		39825.550	18	.	.	4.0-	4.0	.	.	.	0.496	1.030	534			-74	4012.7445		
	24913.271	0																		4012.7906		
	24911.929	0																		4013.0068		
2	24911.618	0	35637.895-		10726.322	45	.	.	3.5-	4.5	.	.	.	1.158	1.391	233				4013.0569		
2	24910.984	4	10436.770-		35347.740	14	4.5-	3.5	4.5-	3.5	.720	1.203	.483	0.724	1.195	471		-171	-171	4013.1590		
2	24908.992	2	30626.955-		5717.976	13	.	.	4.5-	3.5	.	.	.	1.055	1.596	541			131	4013.4800		
	24906.441	0																		4013.8910		
1	24902.033	3	31046.528-		6144.515	20	2.0-	3.0	2.0-	3.0	1.46			1.480	1.473*	7		-062	-70	4014.6016	f SO	
2	24901.429	1	14561.607-		39463.005	31	.	.	1.5-	1.5	.	.	.	1.149	1.420	271			-151*	4014.6990		
2	24901.146	3	26916.090-		2014.966	22	2.5-	1.5	2.5-	1.5	1.02	1.86	.84	1.040	1.881*	841			62	4014.7446		
	24900.592	0																		4014.8339		
1	24900.105	0	32674.758-		7774.653	0	3.0-	4.0	3.0-	4.0	.	.	.	1.189	1.463	274			26	4014.9124		
1	24899.954	0	9724.351-		34624.299	6	.	.	3.0-	2.0	.	.	.	0.442	1.150*	708			-275	4014.9368		
2	24899.787	0	32398.160-		7498.364	-9	.	.	2.5-	2.5	.	.	.	1.308	1.321	13			210*	4014.9637		
	24899.407	0																		4015.0250		
	24898.981	0																		4015.0937		
1	24897.872	4	31042.369-		6144.515	18	4.0-	3.0	4.0-	3.0	1.150	1.473	.323	1.150	1.473	323			-47*	4015.2725		
	24895.765	3																	-232		4015.6124	
	24895.333	1																			4015.6820	
	24894.708	3																			4015.7829	
2	24894.153	6	33532.385-		8638.233	1	5.5-	5.5	5.5-	5.5	.	.	.173	1.341	1.514	173			-3	4015.8724		
	24893.951	2																			4015.9050	
	24893.852	3																			4015.9209	
	24893.114	2									.597	.597									4016.0400	
	24892.944	1																			4016.0674	
2	24889.782	1	38880.705-		13990.952	29	.	.	0.5-	1.5	.	.	.	1.050	1.728*	678				4016.5776		
	24887.689	0																			4016.9154	
2	24887.191	4	34595.165-		9707.980	6	6.5-	6.5	6.5-	6.5	.	.	.330	1.160	1.485*	325		271	272	4016.9958		
1	24884.807	4	6313.866-		31198.642	31	.	.	4.0-	3.0	.	.	.	0.487	1.070	583			-113	-115	4017.3807	
	24883.857	1																			4017.5340	
	24883.671	1																			4017.5641	
2	24882.694	4	33520.920-		8638.233	7	4.5-	5.5	4.5-	5.5	.996	1.514	.518	0.996	1.514	518				4017.7218		
1	24881.107	0	13726.661-		38607.775	-7	.	.	3.0-	4.0	.	.	.	1.150	1.105	45					4017.9781	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
2	24381.019	0	35607.320-10726.322	21	.	.	.	3.5-	4.5	.	.	.	1.150	1.391	241	.	.	4017.9923	
1	24830.461	1	31024.953- 6144.515	23	.	.	.	3.0-	3.0	.	.	.	1.335	1.473	138	.	-65	4018.0824	
	24874.359	1			.	.	.	.	.	.	.	.	.	.	.	204	.	4019.0681	
	24873.928	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.1378	
2	24873.478	2	15641.100-40514.565	13	.	.	.	3.5-	2.5	.	.	.	1.040	0.800*	240	-128	-130*	4019.2105	
	24872.127	2			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.4288	
	24872.020	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.4461	
	24871.335	4			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.5568	
1	24870.010	1	9724.351-34594.350	11	.	.	.	3.0-	3.0	.	.	.	0.442	1.198	756	-147	-147	4019.7709	
	24869.627	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.8329	
	24868.775	2			.	.	.	.	.	.	.	.	.	.	.	.	.	4019.9706	
1	24868.336	4	6313.866-31182.179	23	.	.	.	4.0-	4.0	.	.	.	0.487	1.210*	723	-281	-285	4020.0415	
	24867.661	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4020.1507	
	24867.348	1			.	.	.	.	.	.	.	.	.	.	.	.	-265	4020.2013	
1	24864.983	3	9386.801-34251.764	20	.	.	.	5.0-	4.0	.	.	.	0.801	1.005	204	-232	-229	4020.5836	
	24864.153	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4020.7179	
1	24863.869	0	14912.011-39775.870	10	.	.	.	4.0-	4.0	.	.	.	0.496	0.985	489	.	-36	4020.7638	
2	24859.057	8	8198.666-33057.710	13	2.5-	3.5	2.5-	3.5	.411	.854	.443	0.414	0.857	443	-470	-470	4021.5421		
	24858.041	3			.	.	.	.	.	.	.	.	.	.	.	.	.	4021.7065	
1	24856.915	1H	14737.788-39594.680	23*	.	.	.	3.0-	4.0	.	.	.	0.815	1.070	255	.	-116	4021.8887	
	24856.457	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4021.9628	
1	24856.186	1	14853.317-39709.460	43*	.	.	.	4.0-	5.0	.	.	.	0.786	1.070	284	.	-165	4022.0066	
1	24851.360	2	30995.841- 6144.515	34	2.0-	3.0	2.0-	3.0	1.483	.	.	1.470	1.473*	3	-083	-83	4022.7877	f	
	24850.457	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4022.9339	
	24849.430	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4023.1001	
1	24848.699	0	16520.962-41369.665	-4	.	.	.	5.0-	4.0	.	.	.	0.736	1.120*	384	.	.	4023.2185	
2	24847.956	0	17733.709-42581.655	10	.	.	.	0.5-	1.5	.	.	.	-0.510	0.790*	1300	.	.	4023.3388	
2	24847.347	0	41593.040-16745.720	27	.	.	.	1.5-	2.5	.	.	.	1.150	1.671*	521	.	.	4023.4374	
	24846.960	4H			.88	.88	1.75	.	.	.	.	.	.	.	.	.	.	4023.5001	DJ02JD6
	24846.653	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4023.5498	
2	24846.354	1	34088.695- 9242.356	15	.	.	.	2.5-	3.5	.	.	.	1.340	1.369	29	.	-34*	4023.5982	
1	24845.091	1	35083.570-10238.473	-6	.	.	.	5.0-	6.0	.	.	.	1.170	1.431	261	.	.	4023.8028	
	24844.548	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4023.8907	
	24343.294	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4024.0938	
	24842.707	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4024.1889	
1	24842.361	4	27045.963- 2203.606	4	0.0-	1.0	0.0-	1.0	.000	1.512	.	0.000	1.495	0	-096	-96	4024.2450		
	24840.466	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4024.5520	
2	24840.125	6	28809.965- 3969.846	6	2.5-	2.5	2.5-	2.5	1.236	1.666	.430	1.230	1.670*	440	.	5	4024.6072		
	24838.230	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4024.9143	
1	24836.376	0	8768.139-33604.497	18	.	.	.	2.0-	3.0	.	.	.	0.362	1.210	848	.	-179	4025.2147	
1	24830.310	4	30974.813- 6144.515	12	.	.	.	3.0-	3.0	.	.	.	1.050	1.473*	423	064	76	4026.1981	
	24830.027	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4026.2440	
2	24828.056	1	40316.535-15488.530	1	.	.	.	3.5-	3.5	.	.	.	1.085	1.057	28	.	.	4026.5636	
2	24826.648	4	11504.095-36330.720	23	3.5-	4.5	3.5-	4.5	.	.	.30	0.859	1.160*	301	-685	-695	4026.7920		
1	24825.042	4	34004.281- 9179.262	23	5.0-	5.0	5.0-	5.0	.	.	.216	1.239	1.454	215	-081	-81	4027.0525		
1	24824.589	4	35063.037-10238.473	25	6.0-	6.0	6.0-	6.0	.	.	.24	1.188	1.431	243	-057	-56	4027.1260		
	24822.907	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4027.3989	
2	24821.423	0	17296.905-42118.305	23	.	.	.	4.5-	4.5	.	.	.	0.494	1.040	546	.	53	4027.6397	
	24820.261	1			1.21	.	.	.	.	.	.	.	.	.	.	-279	.	4027.8282	
2	24818.592	0	15235.771-40054.350	13	.	.	.	0.5-	0.5	.	.	.	1.791	0.390	1401	.	-176*	4028.0991	
2	24817.227	0	39510.275-16693.090	42	.	.	.	0.5-	0.5	.	.	.	0.290	0.840*	550	.	.	4028.3207	
2	24815.071	3	26830.020- 2014.966	17	0.5-	1.5	0.5-	1.5	-0.05	1.89	194	-0.097	1.881	1978	.	65	4028.6707		
	24814.769	1			.	.	.	.	.	.	.	.	.	.	.	.	.	4028.7197	
	24814.281	0			.	.	.	.	.	.	.	.	.	.	.	.	.	4028.7989	
2	24813.883	1	36613.145-11799.241	-21	.	.	.	4.5-	5.5	.	.	.	1.010	1.373*	363	.	.	4028.8635	

C	HAVER	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAWELENGTH	NOTES	
2	24813.351	4	13209.910-38523.240	21				4.5-	3.5	4.5-	3.5	.65	.64	.01	0.657	0.640*	17			4028.9499	JQ	
	24806.813	0																			4030.0118	
2	24805.137	0	33443.355- 8638.233	15				.	.	5.5-	5.5	.	.	.	1.100	1.514*	414	149		4030.2841		
2	24804.336	2	28774.175- 3969.846	7				.	.	3.5-	2.5	.	.	.	1.140	1.670*	530	60		4030.4142		
2	24799.613	3	35525.910-10726.322	25				4.5-	4.5	4.5-	4.5	.	.	.210	1.176	1.391	215	063	69*	4031.1818		
1	24798.649	0	12159.465-36958.090	24*				.	.	4.0-	5.0	.	.	.	0.844	1.000	156	-267		4031.3386		
1	24798.430	0	15249.635-40048.080	-15*				.	.	2.0-	3.0	.	.	.	0.715	1.005	290			4031.3742		
1	24795.808	4	8768.139-33563.924	23				2.0-	1.0	2.0-	1.0	.35	.42	.07	0.362	0.430*	68	-280	-279	4031.8005		
	24795.716	1												4031.8154	
2	24794.318	1	36593.540-11799.241	19				.	.	5.5-	5.5	.	.	.	1.145	1.373	228	-	-57*	4032.0427		
	24793.761	2									-371			4032.1333	2535Q
	24793.471	0												4032.1805	
	24792.162	0												4032.3934	
	24789.925	0												4032.7573	
1	24788.637	5	29088.272- 4299.659	24				3.0-	2.0	3.0-	2.0	.	.	.477	1.005	1.482	477	-060	-53	4032.9668		
	24783.189	4												4033.0397	
2	24787.732	5	8198.666-32936.390	8				.	.	2.5-	2.5	.	.	.	0.414	1.040*	626	-684	-686	4033.1141		
2	24785.042	3	32283.420- 7498.364	-14				.	.	2.5-	2.5	.	.	.	1.045	1.321	276	047	58	4033.5518		
1	24784.389	1	9336.801-34171.155	35				.	.	5.0-	5.0	.	.	.	0.801	1.230	429		-77	4033.6581		
	24782.060	2						1.5-	1.5			1.17	1.01	.16				-576		4034.0372		
	24781.111	0												4034.1917	
1	24778.099	1	12351.522-37129.590	31				.	.	6.0-	5.0	.	.	.	0.995	1.010	15	-203	-197	4034.6821		
1	24776.973	0	14912.011-39688.980	4				.	.	4.0-	4.0	.	.	.	0.496	0.980*	484			4034.8654	C2	
1	24776.973	0	14025.007-32301.970	10*				.	.	4.0-	4.0	.	.	.	0.975	1.090*	115		-272	4034.8654	C2	
2	24776.191	3	13192.903-37969.065	29				2.5-	2.5	2.5-	2.5	.	.	.46	0.372	0.832	460	-307	-306	4034.9928		
1	24772.911	7	6313.866-31086.744	33				4.0-	5.0	4.0-	5.0	.492	.800	.308	0.487	0.795	308	-074	-29	4035.5270		
2	24771.603	5	34013.940- 9242.356	19				3.5-	3.5	3.5-	3.5	.	.	.249	1.121	1.369	248	059	57	4035.7401		
1	24770.161	2	26973.744- 2203.606	23				.	.	2.0-	1.0	.	.	.	1.210	1.495	285	+	32	4035.9751		
1	24769.156	2	11840.715-36609.850	21				.	.	3.0-	2.0	.	.	.	0.811	1.025	214	-285	-279	4036.1388		
1	24768.394	5	29068.029- 4299.659	24				2.0-	2.0	2.0-	2.0	1.288	1.483	.195	1.284	1.482	198	-	-45	4036.2630		
	24767.560	0									-466			4036.3989	
	24764.830	0												4036.8439	
2	24763.811	2	13192.903-37956.685	29				2.5-	1.5	2.5-	1.5	.	.	.53	0.372	0.904	532	-053	-52	4037.0100		
	24763.221	1									-210			4037.1062	
	24760.964	1												4037.4742	
	24758.068	3									-039			4037.9563	SI
2	24755.641	1	20511.945-45267.550	36				.	.	4.5-	4.5	.	.	.	1.310	1.045	265	048		4038.3423		
1	24755.151	3	9724.351-34479.473	29				3.0-	4.0	3.0-	4.0	.46	.93	.47	0.442	0.944	502	-195	-197	4038.4223		
2	24753.718	3	32032.585- 7278.862	-5				.	.	4.5-	4.5	.	.	.	1.335	1.545	210		-6	4038.6561		
	24752.793	1												4038.8070	
	24752.474	1												4038.8591	
2	24751.700	4	26766.650- 2014.956	16				.	.	2.5-	1.5	.	.	.	1.058	1.881	823	035	53	4038.9854		
1	24751.463	6	24751.439- 0.000	24				1.0-	0.0	1.0-	0.0	.647	.000		0.647	0.000	0		10	4039.0240		
2	24750.132	1	18720.075-43470.195	12				.	.	3.5-	3.5	.	.	.	1.060	0.860	200			4039.2412		
2	24748.899	5	11504.095-36252.985	9				3.5-	3.5	3.5-	3.5	.880	1.025	.145	0.859	1.004	145	-465	-465	4039.4425		
2	24746.138	2	28715.965- 3969.846	19				.	.	1.5-	2.5	.	.	.	0.875	1.670	795		93	4039.8932		
	24743.346	2									-275			4040.3490	
2	24742.867	0	33331.120- 8638.233	-20				.	.	5.5-	5.5	.	.	.	1.152	1.514	362		95	4040.4273		
2	24742.239	0	43408.215-12566.006	30				.	.	3.5-	2.5	.	.	.	1.080	1.365	285			4040.5298		
1	24741.301	1	9386.801-34123.074	8				.	.	5.0-	4.0	.	.	.	0.801	0.000*	0		-230	4040.6830		
2	24741.024	0	8709.640-33450.655	9				.	.	3.5-	2.5	.	.	.	0.308	0.941	633		-127	4040.7282		
	24738.106	2												4041.2049	
1	24737.505	4	29037.158- 4299.659	6				3.0-	2.0	3.0-	2.0	.992	1.488	.496	0.986	1.482	496	-068	-68	4041.3031		
2	24737.066	3	12992.644-37729.665	25				.	.	2.5-	2.5	.	.	.	0.643	1.050*	407	-314	-311	4041.3781		
2	24735.938	0	15778.634-40514.565	7				.	.	1.5-	2.5	.	.	.	1.133	0.800	333		-117*	4041.5591		

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	24734.584	2																	4041.7803		
2	24734.387	2		34922.835-10188.463	15	0.5-	0.5	0.5-	0.5	1.05	2.40	135		1.010	2.402	1392			4041.8125		
2	24732.898	1		17296.905-42029.735	68	.	.	4.5-	3.5	.	.	.		0.494	0.695	201			4042.0559		
	24731.081	0																	4042.3528		
1	24729.958	5		8768.139-33498.071	26	2.0-	3.0	2.0-	3.0	.363	.775	.412		0.362	0.770	408	-181	-182	4042.5364		
	24726.668	0																	4043.0743		
1	24726.076	0		16520.962-41247.030	8	.	.	5.0-	4.0	.	.	.		0.736	1.065	329			4043.1711		
	24723.708	3																	4043.5584		
	24723.228	0																	4043.6369		
2	24722.674	0		34911.115-10188.463	22	.	.	1.5-	0.5	.	.	.		1.300	2.402	1102			4043.7275		
2	24721.765	0		38712.675-13990.952	42	.	.	0.5-	1.5	.	.	.		1.313	1.728	415			4043.8762		
	24721.178	2																	4043.9722		
	24717.059	2																	4044.6461		
1	24715.939	0		16520.962-41236.870	31	.	.	5.0-	4.0	.	.	.		0.736	1.020	284			4044.8294		
	24714.821	1																	4045.0124		
	24714.661	1																	4045.0386		
2	24712.055	4		32210.400- 7498.364	19	.	.	2.5-	2.5	1.32	1.32			1.339	1.321	18		33	4045.4651		
2	24711.980	5		8198.666-32910.615	31	2.5-	3.5	2.5-	3.5	.	.	.435		0.414	0.845	431	-518	-519	4045.4774		
	24705.959	2																	4046.4633		
	24704.133	0																	4046.7624		
1	24701.003	3B		6313.866-31014.877	-8	4.0-	4.0	4.0-	4.0	.	.	.69		0.487	1.170	683	-127	-129	4047.2752		
2	24700.948	3B		24700.905- 0.000	43	0.5-	0.5	0.5-	0.5	1.994	3.162	1168		2.025	3.150	1125		64	4047.2843		
1	24695.683	5		11840.715-36536.380	18	3.0-	3.0	3.0-	3.0	.81	.95	.14		0.811	0.950*	139	-165	-165	4048.1471		
	24694.950	1																	4048.2673		
	24693.875	2																	4048.4435		
2	24693.533	3		31972.395- 7278.862	0	.	.	4.5-	4.5	.	.	.		1.210	1.545*	335			4048.4996		
1	24693.308	3		8768.139-33461.419	28	2.0-	3.0	2.0-	3.0	.36	.95	.59		0.362	0.950*	588	-296	-297	4048.5365		
	24692.671	2																	4048.6409		
2	24691.224	7		30193.265- 5502.060	19	1.5-	1.5	1.5-	1.5	1.376	1.181	.195		1.364	1.169	195	045	35	4048.8782		
1	24684.718	4		32459.347- 7774.653	24	.	.	3.0-	4.0	1.143	1.483	.340		1.118	1.463	345	-056	-56	4049.9454		
	24681.970	1																	4050.3963		
	24678.093	1																	4051.0326		
	24676.910	0																	4051.2268		
1	24676.219	1		14292.176-38968.370	25	.	.	5.0-	5.0	.	.	.		0.970	1.065	95			4051.3403		
1	24670.939	4		32445.590- 7774.653	2	.	.	4.0-	4.0	.	.	.34		1.125	1.463	338	049	39	4052.2074		
1	24670.248	1		39012.195-14341.947	0	.	.	3.0-	2.0	.	.	.		1.080	0.852*	228			4052.3209		
1	24668.740	4		26872.321- 2203.606	25	1.0-	1.0	1.0-	1.0	2.70	1.50	1.20		2.690	1.495*1195		-065	-72	4052.5686		
	24667.439	2								1.15	.	.							-169	4052.7823	f DJ1
	24665.560	0																		4053.0911	
2	24665.364	2		16362.000-41027.335	29	.	.	4.5-	4.5	.	.	.		1.050	0.895*	155			4053.1233		
2	24664.197	4		35390.520-10726.322	-1	.	.	5.5-	4.5	.	.	.		1.055	1.391	336	121	119*	4053.3151		
2	24663.726	1		30381.705- 5717.976	-3	.	.	3.5-	3.5	.	.	.		1.109	1.596	487		-50	4053.3925		
	24663.331	1																		4053.4574	
1	24662.926	1		13726.661-38389.560	27	.	.	3.0-	4.0	.	.	.		1.150	1.070	80		-207*	4053.5240		
1	24662.286	2		11840.715-36502.980	21	.	.	3.0-	2.0	.	.	.		0.811	0.900*	89	-274	-275	4053.6291		
2	24659.954	3		35386.270-10726.322	6	.	.	4.5-	4.5	.	.	.29		1.100	1.391	291	095	98	4054.0125		
	24659.202	3																	147	4054.1361	
2	24657.243	2		14561.607-39218.825	25	.	.	1.5-	0.5	.	.	.		1.149	1.610*	461	-220	-223	4054.4582		
2	24654.997	5		26669.945- 2014.966	18	1.5-	1.5	1.5-	1.5	1.357	1.888	.531		1.350	1.881	531	089	85	4054.8276		
2	24654.621	0		25403.645-50058.235	31	.	.	2.5-	3.5	.	.	.		1.029	1.000*	29	-241		4054.8894		
2	24653.655	1		34361.635- 9707.980	0	.	.	5.5-	6.5	.	.	.		1.222	1.485	263	-115	-122	4055.0483		
1	24653.369	5		24653.345- 0.000	24	1.0-	0.0	1.0-	0.0	.855	.000			0.860	0.000*	0		6	4055.0954	PB .347Q	
1	24650.311	4		33329.570- 9179.262	3	5.0-	5.0	5.0-	5.0	.	.	.28		1.175	1.454	279	-079	-79	4055.5984		
1	24649.979	4		12351.522-37001.490	11	6.0-	6.0	6.0-	6.0	.99	1.04	.05		0.995	1.035	40	-235	-235	4055.6530	DJO	
	24648.631	1																		4055.8748	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	24647.049	1																	4056.1352	
	24644.003	2																	4056.6357	
2	24643.557	5	27879.305-		3235.770	22	0.5-	0.5	0.5-	0.5	.815	.303	.512	0.802	0.299	503	-130	61	4056.7099	DJO
	24642.217	1																	4056.9306	
1	24641.806	0	16595.109-		41236.870	45	.	.	3.0-	4.0				0.999	1.020	21			4056.9982	
	24636.051	3									1.11	1.11					-299		4057.9460	
2	24634.546	2	33876.910-		9242.356	-8	.	.	3.5-	3.5				1.043	1.369	326		171*	4058.1939	
2	24634.017	2	13809.910-		38443.925	2	.	.	4.5-	4.5				0.657	1.020	363		-6	4058.2810	
	24632.326	0															-237		4058.5596	
1	24631.936	1	12159.465-		36791.380	21	.	.	4.0-	5.0				0.844	1.025	181			4058.6239	
1	24628.610	1	14853.317-		39481.900	27	.	.	4.0-	5.0				0.786	1.165	379	-204	-204	4059.1720	
	24627.792	0																	4059.3068	
2	24627.114	4	13013.685-		37640.775	24	.	.	5.5-	5.5			.255	0.950	0.700*	250	260	262	4059.4186	
1	24626.230	2	6313.866-		30940.068	28	.	.	4.0-	5.0				0.487	1.080	593	-077	-83	4059.5643	
1	24625.710	1	30770.199-		6144.515	26	.	.	2.0-	3.0				1.216	1.473	257	-068	-74	4059.6500	
1	24624.610	0	12159.465-		36784.100	-25	.	.	4.0-	3.0				0.844	1.115	271		-246	4059.8314	
	24620.714	0																	4060.4738	
	24620.321	0																	4060.5386	
	24618.394	2															-237		4060.8565	
2	24615.481	2	24615.450-		0.000	31	.	.	1.5-	0.5				1.011	3.150	2139		122	4061.3371	
	24613.818	3															-300		4061.6115	
1	24612.917	0	13726.661-		38339.550	28*	.	.	3.0-	4.0				1.150	1.070*	80		-199	4061.7602	
	24612.114	2																	4061.8927	
2	24611.693	1	41775.135-		17163.470	28	.	.	4.5-	4.5				1.070	1.200	130			4061.9622	
	24611.426	0																	4062.0062	
2	24611.178	1	38337.450-		13726.318	46	.	.	1.5-	2.5				1.160	0.784	376			4062.0472	
	24610.253	2															-226		4062.1998	
	24608.646	1															-181		4062.4651	
1	24606.714	4	28906.355-		4299.659	18	.	.	3.0-	2.0			.27	1.230	1.482	252	046	62	4062.7841	
1	24604.001	3	9386.801-		33990.780	22	5.0-	6.0	5.0-	6.0	.80	.92	.12	0.801	0.920*	119	-153	-155	4063.2321	
1	24601.782	0	10486.922-		35088.705	-1	.	.	1.0-	1.0				0.355	1.380	1025	063		4063.5986	
	24601.255	2																	4063.6856	
2	24600.665	0	41764.120-		17163.470	15	.	.	5.5-	4.5				1.080	1.200	120			4063.7831	
	24597.057	1																	4064.3792	
	24595.361	1																	4064.6595	
	24595.128	ib																	4064.6980	
2	24594.697	7	11504.095-		36098.770	22	3.5-	4.5	3.5-	4.5	.858	1.028	.170	0.859	1.029	170	-415	-415	4064.7692	
2	24593.400	2	16362.000-		40955.385	15	.	.	4.5-	3.5				1.050	0.850*	200	-168	-161	4064.9836	
	24592.229	0																	4065.1771	
2	24589.424	0	16499.640-		41089.060	4	.	.	3.5-	2.5				0.773	0.935	162		-211	4065.6409	
1	24588.708	2	16828.909-		41477.600	17	.	.	6.0-	7.0				1.098	1.085	13	-141	-141	4065.7593	
	24587.440	2															-162		4065.9690	
1	24586.466	1	8768.139-		33354.592	13	.	.	2.0-	3.0				0.362	0.000*	0		-156	4066.1300	
	24584.682	1															-478		4066.4251	
1	24584.464	1	32359.115-		7774.653	2	.	.	3.0-	4.0				1.320	1.463	143		85	4066.4612	
1	24583.461	0	33762.720-		9179.262	3	.	.	4.0-	5.0				1.120	1.454	334		2*	4066.6271	
	24582.477	2															-143		4066.7899	
2	24581.956	2	10436.770-		35018.725	1	.	.	4.5-	3.5			.21	0.724	0.911	187	-150	-146	4066.8760	
	24581.466	2															-382		4066.9571	
	24578.559	0																	4067.4381	
	24575.896	3											.20						4067.8789	
	24575.538	1																	4067.9382	
	24574.819	1																	4068.0572	
	24573.873	1																	4068.2138	
1	24572.063	1	38914.005-		14341.947	5	.	.	2.0-	2.0				1.140	0.852	288		47	4068.5135	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	24569.894	0	14912.011-39481.900		5		.	.	4.0- 5.0		.	.	.	0.496	1.165	669		-107	4068.8726	
1	24568.259	1	12159.465-36727.705		19		.	.	4.0- 3.0		.	.	.	0.844	0.905	61		-191	4069.1434	
	24566.318	0					.	.			.	.	.						4069.4649	
2	24566.024	0	15641.100-40207.135		-11		.	.	3.5- 2.5		.	.	.	1.040	1.020*	20			4069.5136	
	24562.978	2					.	.			.	.	.						4070.0183	
1	24561.958	6	6313.866-30275.798		26		4.0-	4.0	4.0- 4.0		.49	1.07	.58	0.487	1.080*	593	-266	-267	4070.1873	
1	24560.913	5	12351.522-36912.410		25		.	.	6.0- 7.0		.	.	.	0.995	0.000*	0	-195	-195	4070.3605	
	24555.298	3					.	.			.	.	.				-483		4071.2913	DJO
	24551.788	1					.	.			.	.	.						4071.8733	
1	24550.513	2	33729.775- 9179.262		0		.	.	5.0- 5.0		.	.	.	1.125	1.454	329	121	122	4072.0848	
	24550.269	2					.	.			.	.	.						4072.1253	
2	24548.429	2	13013.685-37562.100		14		.	.	5.5- 5.5		.	.	.	0.950	0.950	0	-395	-395*	4072.4305	
	24546.788	2					.	.			.	.	.						4072.7028	
2	24545.354	4	8709.640-33254.995		-1		.	.	3.5- 3.5		.	.	.	0.308	0.975	667	-315	-327	4072.9407	
1	24544.778	6	32319.412- 7774.653		19		4.0-	4.0	4.0- 4.0		1.215	1.458	.243	1.220	1.463	243	-068	-65	4073.0363	
	24541.269	2					.	.			.	.	.				-176		4073.6187	
	24541.055	4					2.5-	3.5			1.11	.97	.14				-559		4073.6542	
	24540.106	0					.	.			.	.	.						4073.8117	
2	24538.528	3	14476.135-39014.660		3		4.5-	5.5	4.5- 5.5		1.06	1.07	.01	1.060	1.070*	10	-514	-514*	4074.0737	
2	24536.783	3	13192.903-37729.665		21		2.5-	2.5	2.5- 2.5		.370	1.050	.680	0.372	1.050*	678	-313	-315	4074.3635	
	24534.947	2					.	.			.	.	.						4074.6684	
2	24533.775	1	36333.015-11799.241		1		.	.	5.5- 5.5		.	.	.	1.137	1.373	236		8	4074.8630	
1	24533.204	1	28832.853- 4299.659		10		.	.	2.0- 2.0		.	.	.	0.000	1.482*	0		-15	4074.9578	
1	24531.894	3	26735.491- 2203.606		9		2.0-	1.0	2.0- 1.0		1.065	1.495	.430	1.062	1.495	433	076	79	4075.1755	
	24531.031	0					.	.			.	.	.				-135		4075.3188	
2	24527.692	4	16499.640-41027.335		-3		.	.	3.5- 4.5		.	.	.	0.773	0.895	122			4075.8736	
1	24527.427	4	9724.351-34251.764		14		3.0-	4.0	3.0- 4.0		.442	1.008	.566	0.442	1.005	563	-225	-225	4075.9177	
1	24524.143	4	11840.715-36364.850		8		3.0-	4.0	3.0- 4.0		.81	1.08	.27	0.811	1.080*	269	-213	-213	4076.4635	
2	24520.819	5	26535.775- 2014.966		10		0.5-	1.5	0.5- 1.5		.	.	.	-0.071	1.881	1952	045	42*	4077.0161	
	24516.958	2					.	.			.	.	.						4077.6581	
2	24514.698	5	14476.135-38990.840		-7		4.5-	4.5	4.5- 4.5		1.060	1.105	.045	1.060	1.105	45	-550	-544*	4078.0341	
2	24514.492	5	33756.860- 9242.356		-12		.	.	3.5- 3.5		.	.	.	1.272	1.369	97		-39	4078.0683	DJO
	24511.269	5					3.5-	2.5			.	.	.				-492		4078.6046	J1525Q
1	24510.889	4	33690.140- 9179.262		11		.	.	5.0- 5.0		.	.	.	1.242	1.454	212		-43	4078.6678	
	24508.730	3					3.0-	3.0			.	.	.						4079.0271	2LNS
2	24508.730	3	28478.585- 3969.846		-9		.	.	3.5- 2.5		.	.	.	1.175	1.670	495		9*	4079.0271	2LNS
1	24505.538	5	32280.169- 7774.653		22		5.0-	4.0	5.0- 4.0		1.15	1.47	.32	1.150	1.463*	313	-055	-55	4079.5584	
2	24505.228	1	30223.215- 5717.976		-11		.	.	2.5- 3.5		.	.	.	1.025	1.596	571		56	4079.6101	
	24504.103	2					.	.			.	.	.				092		4079.7974	
2	24501.308	5	36300.540-11799.241		9		4.5-	5.5	4.5- 5.5		.	.	.227	1.142	1.373	231		23	4080.2628	SI
	24499.246	1					.	.			.	.	.						4080.6062	
1	24488.652	6	32263.305- 7774.653		0		4.0-	4.0	4.0- 4.0		1.161	1.463	.302	1.158	1.463	305	-051	-61	4082.3715	
1	24483.643	3	8768.139-33251.780		2		.	.	2.0- 2.0		.	.	.	0.362	1.465	1103	-215	-210	4083.2067	
	24482.575	2					.	.			.	.	.						4083.3849	
	24481.775	0					.	.			.	.	.						4083.5183	
1	24480.920	3	12159.465-36640.400		-15		.	.	4.0- 3.0		.	.	.	0.844	1.035	191	-209	-209	4083.6609	
	24479.745	1					.	.			.	.	.						4083.8569	
1	24478.519	3	32253.195- 7774.653		-23		.	.	3.0- 4.0		.	.	.	1.115	1.463	348		-25*	4084.0615	
	24476.660	0					.	.			.	.	.						4084.3717	
	24474.890	2					.	.			.	.	.				-310		4084.6671	
	24472.960	2					.	.			.	.	.				-281		4084.9892	
	24471.561	0					.	.			.	.	.						4085.2227	
	24471.296	0					.	.			.	.	.						4085.2670	
	24470.871	0					.	.			.	.	.						4085.3379	
1	24470.566	0	14025.007-38495.570		3		.	.	4.0- 5.0		.	.	.	0.975	1.085	110	-180	-185	4085.3888	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2 - J1	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	24470.074	0																		4085.4710		
	24469.323	0																		4085.5964		
1	24467.811	8		30612.323-	6144.515	3	.	.	3.0-	3.0		1.404	1.466	.062	1.408	1.473	65	-094	-92	4085.8489		
2	24466.402	3		27762.165-	3235.770	7	.	.	1.5-	0.5					1.135	0.299	836		49	4086.0842		
1	24465.724	4		6313.866-	30779.585	5	4.0-	3.0	4.0-	3.0		.49	.86	.370	0.487	0.860	373	-181	-183	4086.1974		
	24464.553	0																		4086.3930		
	24463.685	2																		4086.5380		
1	24462.591	2		14912.011-	39374.580	22	.	.	4.0-	3.0					0.496	0.885	389		-229	4086.7207	C2	
1	24462.591	2		10486.922-	34949.520	-7	.	.	1.0-	2.0					0.355	1.085	730		-200	4086.7207	C2	
2	24462.253	3		35188.565-	10726.322	10	.	.	3.5-	4.5					1.154	1.391	237		40*	4086.7772		
1	24461.483	3		12322.613-	36784.100	-4	2.0-	3.0	2.0-	3.0		1.03	1.10	.07	1.036	1.115	79	-252	-249	4086.9059		
	24457.221	2																			4087.6181	
2	24456.542	1		33094.805-	8638.233	-30	.	.	5.5-	5.5					1.050	1.514*	464		117	4087.7316		
2	24455.734	1		16499.640-	40255.385	-11	.	.	3.5-	3.5					0.773	0.850	77		-121	4087.8666		
	24455.331	1																			4087.9340	
2	24451.953	0		28421.805-	3969.846	-6	.	.	2.5-	2.5					0.878	1.670	792		-52	4088.4987		
1	24451.134	1		11840.715-	36291.840	9	.	.	3.0-	3.0					0.811	0.980	169	-253	-255	4088.6357		
1	24450.252	5		28749.920-	4299.659	-9	.	.	2.0-	2.0		1.49	1.49		1.480	1.482*	2	+	34	4088.7832		
2	24450.002	5		29952.065-	5502.060	-3	.	.	1.5-	1.5		1.19	1.19		1.184	1.169	15	+	16	4088.8250		
1	24444.295	0		16304.260-	40748.540	5*	.	.	4.0-	3.0					1.285	1.020	265			4089.7813		
	24442.842	0																			4090.0227	
	24440.760	0																			4090.3712	
	24439.713	1																			4090.5464	
1	24439.335	6		28738.988-	4299.659	6	.	.	1.0-	2.0					1.892	1.482	410		-51	4090.6097	SO	
	24433.424	3																			4091.5993	
1	24429.788	4B		33609.070-	9179.262	-20	5.0-	5.0	5.0-	5.0		1.05	1.45	.40	1.057	1.454	397		-31	4092.2083		
1	24429.701	7B		26633.286-	2203.606	21	.	.	1.0-	1.0					1.124	1.495	371	-131	-125	4092.2229		
2	24429.081	0		18152.580-	42581.655	6	.	.	0.5-	1.5					-0.510	0.790*	1300			4092.3267		
	24428.340	0																			4092.4509	
2	24427.597	1H		22652.035-	47079.610	22	.	.	3.5-	2.5					1.185	0.960*	225			4092.5753	HAZY	
	24420.539	2																			4093.7582	
2	24418.615	1		31916.975-	7498.364	4	.	.	1.5-	2.5					1.363	1.321	42		45*	4094.0808		
	24416.598	2							3.0-	4.0									-246		4094.4190	
	24414.923	3												.315							4094.6999	DJO
1	24411.471	8		32186.115-	7774.653	9	4.0-	4.0	4.0-	4.0		1.21	1.46	.25	1.212	1.463	251	-083	-90	4095.2789		
1	24409.553	6		30554.070-	6144.515	-2	4.0-	3.0	4.0-	3.0					1.260	1.473*	213	+	28	4095.6007	SO	
	24408.663	1																			4095.7500	
	24404.718	1																			4096.4121	
1	24403.763	0		9724.351-	34128.094	20	.	.	3.0-	4.0					0.442	0.000*	0		-226	4096.5724		
1	24400.541	9		6313.866-	30714.335	22	4.0-	4.0	4.0-	4.0		.488	1.155	.667	0.487	1.150	663	-096	-95	4097.1134		
1	24400.395	4		30544.891-	6144.515	19	.	.	3.0-	3.0					0.958	1.473	515		-60	4097.1379		
1	24399.861	0		14292.176-	32692.075	-38	.	.	5.0-	5.0					0.970	1.170*	200			4097.2276		
	24399.478	0																			4097.2919	
	24397.458	3																			4097.6295	
	24397.070	7										1.31		.36							4097.6963	f SI2J0G
	24396.072	3																			4097.8639	
1	24393.552	1		34632.045-	10238.473	-10	.	.	6.0-	6.0					1.081	1.431	350			4098.2856		
	24391.082	3							3.5-	4.5		.96	1.10	.14					-212		4098.7023	F158 SI
	24389.471	1																			4098.9730	
	24389.091	1																			4099.0369	
2	24388.497	3		13192.903-	37531.395	5	.	.	2.5-	3.5					0.372	0.748	376	-113	-116	4099.1367		
2	24387.369	3		24387.360-	0.000	9	.	.	1.5-	0.5					0.955	3.150	2195		271	4099.3264		
2	24385.945	4		33629.300-	9242.356	1	2.5-	3.5	2.5-	3.5		1.23	1.37	.14	1.242	1.369	127	-	-68	4099.3976		
	24386.257	0																			4099.5133	
	24385.727	0																			4099.6024	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	24385.338	3C																			
2	24384.336	6	30102.315-		5717.976	-3	2.5-	3.5	2.5-	3.5	1.155	1.593	.438	1.158	1.596	438	+	52	4099.6678		
	24384.013	1																		4099.8362	
	24384.013	1																		4099.8906	
1	24333.030	3	9724.351-		34107.378	3	.	.	3.0-	3.0	.	.	.	0.442	1.160*	718	-227	-224	4100.0558		
2	24381.185	1	15657.156-		40038.370	-29	.	.	2.5-	1.5	.	.	.	1.000	0.440*	560			4100.3661		
1	24379.324	3	33558.579-		9179.262	7	.	.	4.0-	5.0	.	.	.	1.059	1.454	395	-060	-58	4100.6791		
	24378.535	3																		4100.8118	
2	24377.874	8	29879.945-		5502.060	-11	2.5-	1.5	2.5-	1.5	1.024	1.167	.143	1.026	1.169	143	098	97	4100.9230		
	24373.464	0																		4101.6651	
2	24372.722	0	20121.145-		44493.850	17	.	.	2.5-	1.5	.	.	.	0.710	1.110*	400			4101.7899		
1	24371.725	9	9386.801-		33758.523	3	5.0-	5.0	5.0-	5.0	.800	.830	.030	0.801	0.830	29	-243	-240	4101.9577		
1	24368.686	7	26572.296-		2203.606	-4	2.0-	1.0	2.0-	1.0	1.020	1.495	.475	1.014	1.495	481	+	21	4102.4693		
	24366.930	1																		4102.7649	
	24366.504	0																		4102.8367	
2	24366.118	3	24366.120-		0.000	-2	0.5-	0.5	0.5-	0.5	2.40	3.15	.75	2.420	3.150*	730		-137	4102.9017		
2	24364.211	5	15098.815-		39463.005	21	1.5-	1.5	1.5-	1.5	1.08	1.42	.34	1.079	1.420	341	-299	-299*	4103.2228		
2	24361.417	5	16593.963-		40955.385	-5	2.5-	3.5	2.5-	3.5	.98	.85	.13	0.983	0.850	133	-156	-157	4103.6934		
2	24360.643	6	36159.835-		11799.241	-1	6.5-	5.5	6.5-	5.5	1.10	1.38	.28	1.090	1.373	283	+	43*	4103.8238		
	24360.208	4																		4103.8971	
	24357.552	1																		4104.3446	
	24357.313	1																		4104.3849	
	24357.070	1																		4104.4258	
2	24356.760	5	14476.135-		38232.875	20	4.5-	4.5	4.5-	4.5	1.060	.995	.065	1.060	0.995	65	-542	-545*	4104.4781	JQ	
1	24356.060	1	14912.011-		39258.050	21	.	.	4.0-	4.0	.	.	.	0.496	1.140*	644			4104.5960		
1	24354.742	3	30499.250-		6144.515	7	.	.	4.0-	3.0	.	.	.	1.150	1.473*	323	-	-22*	4104.8182		
	24353.721	1C																		4104.9902	
2	24352.391	3	11504.095-		35856.485	1	3.5-	3.5	3.5-	3.5	.	.	.165	0.859	1.025	166		-652	4105.2144		
2	24351.645	1	20063.650-		44415.300	-5*	.	.	4.5-	3.5	.	.	.	1.049	0.940	109			4105.3402		
	24350.632	3																		4105.5026	
	24349.439	6																		4105.7121	
2	24349.156	1	19632.555-		43981.710	1	.	.	1.5-	2.5	.	.	.	1.010	1.090*	80	-		4105.7599		
2	24348.066	9	8709.640-		33057.710	-4	3.5-	3.5	3.5-	3.5	.30	.85	.55	0.308	0.857	549	-134	-129	4105.9437		
	24347.075	0																		4106.1108	
	24344.558	3																		4106.5353	DJO 2JDG
1	24344.324	4	32118.980-		7774.653	-3	.	.	4.0-	4.0	.	.	.43	1.039	1.463	424	-	-65	4106.5748		
	24343.485	1																		4106.7164	
	24343.191	0																		4106.7660	
	24341.376	2																		4107.0722	
	24340.355	5H									1.29	.	.24							4107.2445	f SI2JDG
	24339.921	4																		4107.3177	
	24337.095	0																		4107.7946	
	24336.811	0																		4107.8426	
2	24336.339	2	38062.615-		13726.318	42	.	.	2.5-	2.5	.	.	.	1.110	0.784	326	-404		4107.9223	ISQ	
	24335.184	0																		4108.1172	
	24333.832	3B																		4108.3455	239Q
2	24333.147	6	8198.666-		32531.815	-2	2.5-	2.5	2.5-	2.5	.41	1.01	.60	0.414	1.010*	596	-632	-631	4108.4611	PB	
	24332.228	1																		4108.6163	
1	24329.414	1	11840.715-		36170.110	19*	.	.	3.0-	4.0	.	.	.	0.811	0.942*	131	-209	-208	4109.0915		
2	24327.692	5	14295.565-		38623.240	17	3.5-	3.5	3.5-	3.5	.83	.67	.16	0.790	0.640*	150			4109.3824		
	24326.949	0																		4109.5079	
1	24325.023	3	12177.963-		36502.980	6	.	.	1.0-	2.0	.51	.89	.	0.525	0.900*	375	-277	-273	4109.8333		
	24322.018	1																		4110.3411	
	24320.495	2																		4110.5985	
1	24317.705	9	9724.351-		34042.040	16	3.0-	4.0	3.0-	4.0	.45	.82	.37	0.442	0.806	364	-146	-146	4111.0701		
2	24310.298	6	13013.685-		37323.995	-12	5.5-	5.5	5.5-	5.5	.955	.940	.015	0.950	0.935	15	-190	-191	4112.3227		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1				62	61	66	62	61			66	IS	IS
1	24310.129	6	9386.801-33696.921		9		5.0-	6.0	5.0-	6.0	.82	1.12	.295	0.801	1.100*	299	-051	-67	4112.3513	
	24309.257	2															-104		4112.4988	
2	24308.510	0	40595.070-16286.582		22		.	.	1.5-	0.5	.	.	.	0.825-0.122		947			4112.6252	
1	24307.191	2	14292.176-38599.385		-18		.	.	5.0-	6.0	.	.	.	0.970	1.039	69	-098		4112.8434	ISQ
	24306.911	5											.40						4112.8958	
2	24305.764	8	26320.735- 2014.966		-5		.	.	2.5-	1.5	.	.	.	1.050	1.881	831	+	12	4113.0898	SO
	24304.955	2																	4113.2268	
1	24304.313	2	33483.590- 9179.262		-15		.	.	4.0-	5.0	.	.	.	1.022	1.454	432		41	4113.3354	
	24304.063	1																	4113.3777	
2	24302.995	4	16593.963-40896.955		3		2.5-	1.5	2.5-	1.5	.98	.80	.18	0.983	0.800*	183			4113.5585	
	24302.336	4																	4113.6700	
	24301.146	1																	4113.8715	
	24299.719	1																	4114.1131	
	24299.172	0																	4114.2057	
	24297.936	0																	4114.4150	
	24297.193	3																	4114.5400	
	24295.957	4															+		4114.7501	
1	24294.996	9	26498.599- 2203.606		3		0.0-	1.0	0.0-	1.0	.000	1.50		0.000	1.495	0	-153	-148	4114.9129	
	24294.191	1																	4115.0492	
	24291.316	2									1.13	1.13							4115.5363	
2	24290.150	7	28259.990- 3969.846		6		1.5-	2.5	1.5-	2.5	1.26	1.67	.41	1.263	1.670	407	-121	136	4115.7338	
2	24287.831	7	27523.600- 3235.770		1		0.5-	0.5	0.5-	0.5	.95	.29	.66	0.940	0.299	641	+	46	4116.1268	
2	24285.831	8	13013.685-37299.525		-9		5.5-	5.5	5.5-	5.5	.94	.91	.027	0.950	0.923	27	-188	-189	4116.4658	
2	24284.906	2	15178.115-39463.005		16		.	.	0.5-	1.5	.	.	.	-0.085	1.420	1505			4116.6226	
	24283.257	0																	4116.9022	
2	24281.898	6	34470.355-10188.463		6		0.5-	0.5	0.5-	0.5	.48	2.40	1.92	0.480	2.402*1922		064	59*	4117.1326	
2	24281.354	3	29783.410- 5502.060		4		.	.	0.5-	1.5	.	.	.	2.590	1.169*1421			28*	4117.2248	
2	24280.820	2	41444.280-17163.470		10		.	.	5.5-	4.5	.	.	.	1.065	1.200	135			4117.3154	
	24280.399	1																	4117.3868	
2	24278.565	4	33520.920- 9242.356		1		.	.	4.5-	3.5	.	.	.	0.996	1.369	373			4117.6978	
2	24276.746	5	8709.640-32986.390		-4		.	.	3.5-	2.5	.	.	.	0.308	1.040*	732	-351	-345	4118.0063	
2	24276.494	4	23733.900-43015.425		-31		.	.	2.5-	3.5	.	.	.	0.679	1.080*	401	-		4118.0491	
2	24276.292	4	8198.666-32474.965		-7		2.5-	1.5	2.5-	1.5	.415	1.150	.735	0.414	1.150*	736		-318*	4118.0833	
	24275.823	0																	4118.1629	
	24274.434	2																	4118.3985	
	24271.414	1																	4118.9110	
1	24270.649	3	11747.245-36017.900		-6		0.0-	1.0	0.0-	1.0	.	.92		0.000	0.910	0		-240	4119.0408	
1	24270.140	4	28569.792- 4299.659		7		3.0-	2.0	3.0-	2.0	1.24	1.475	.235	1.245	1.482	237		-66	4119.1272	
1	24269.461	2	12322.613-36592.070		4		.	.	2.0-	3.0	.	.	.	1.036	1.300	264		-239	4119.2425	
	24268.106	0																	4119.4725	
2	24267.888	1	14295.565-38563.445		8		.	.	3.5-	2.5	.	.	.	0.790	1.085	295			4119.5095	
1	24266.231	8	28565.887- 4299.659		3		.	.	2.0-	2.0	.91	1.48	.57	0.911	1.432	571	-114	-116	4119.7908	
1	24265.506	6	8768.139-33033.638		7		2.0-	3.0	2.0-	3.0	.36	.92	.56	0.362	0.910	548	-262	-264	4119.9139	
1	24264.584	1	15424.387-39688.980		-9		.	.	3.0-	4.0	.	.	.	1.106	0.980*	126			4120.0704	
2	24262.888	1	20063.650-44326.520		18		.	.	4.5-	4.5	.	.	.	1.049	0.960*	89			4120.3584	
	24262.494	1																	4120.4253	
1	24262.265	1	14692.549-38954.840		-26		.	.	2.0-	2.0	.	.	.	0.292	1.020*	723			4120.4642	
1	24260.703	3	12159.465-36420.170		-2		.	.	4.0-	5.0	.	.	.	0.844	1.025	181	-299	-301	4120.7295	
2	24260.336	4H	31758.755- 7498.364		-55		.	.	2.5-	2.5	.	.	.	1.270	1.321	51			4120.7919	
	24260.039	3C																	4120.8423	
1	24258.447	6	12351.522-35609.983		-14		6.0-	7.0	6.0-	7.0	.98	1.17	.19	0.995	1.195	200	-227	-226	4121.1127	
2	24255.963	8	28225.815- 3969.846		-6		3.5-	2.5	3.5-	2.5	1.21	1.67	.46	1.200	1.670*	470	-	-12	4121.5348	
2	24255.564	5	32893.805- 8638.233		-8		.	.	4.5-	5.5	.	.	.	0.930	1.514*	534	100	102	4121.6026	
2	24254.931	3	20063.650-44318.570		11		.	.	4.5-	5.5	.	.	.	1.049	1.035	14	-265	-265*	4121.7102	
	24249.886	1																	4122.5677	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	24246.200	3	13192.903	-	37439.105	-2	.	.	2.5-	3.5	.	.	.	0.372	0.926	554		-251*	4123.1944		
2	24244.873	2C	19456.530	-	63711.415	-12	.	.	4.5-	3.5	.	.	.	1.151	0.955	196			4123.4201	239BQ	
2	24244.356	6	8198.666	-	32443.065	-3	2.5-	1.5	2.5-	1.5	.405	.740	.335	0.414	0.730	316	-506	-511	4123.5012		
	24243.950	4					5.5-	5.5			.	.	.433						4123.5771		
	24242.855	4									.	.							4123.7633		
2	24242.084	5	32230.320	-	8638.233	-3*	.	.	5.5-	5.5	.	.	.	1.209	1.514	305		8	4123.8945		
2	24241.234	6	31739.610	-	7458.364	-12	2.5-	2.5	2.5-	2.5	1.17	1.32	.15	1.170	1.321*	151		28	4124.0391		
2	24240.371	1	20121.145	-	44361.495	21	.	.	2.5-	2.5	.	.	.	0.710	0.850*	140			4124.1859		
	24239.513	1									.	.	.							4124.3319	
	24238.178	2									.	.	.							4124.5591	
	24237.860	1									.	.	.							4124.6132	
	24237.448	1									.	.	.							4124.6833	
	24235.884	1									.	.	.							4124.9495	
	24234.463	0									.	.	.							4125.1913	
2	24234.075	4	36033.315	-	11799.241	1	4.5-	5.5	4.5-	5.5	1.10	1.36	.26	1.134	1.373	239		39	4125.2574		
	24233.650	0									.	.	.							4125.3297	
	24230.885	1									.	.	.							4125.8005	
2	24230.542	5	27466.315	-	3235.770	-3	1.5-	0.5	1.5-	0.5	1.80	.29	1.51	1.793	0.299	1494	172	167	4125.8589		
	24229.896	1									.	.	.							4125.9689	
1	24228.102	1	14025.007	-	38253.110	-1	.	.	4.0-	4.0	.	.	.	0.975	0.920*	55		-220	4126.2744		
	24225.294	1									.	.	.							4126.5824	
2	24223.743	1	41387.240	-	17163.470	-27	.	.	5.5-	4.5	.	.	.	1.125	1.200	75			4127.0170		
1	24222.222	3	37750.470	-	13528.246	-2	2.0-	1.0	2.0-	1.0	.97	-0.56	1.53	0.980	-0.590*	1570		133*	4127.2761		
	24217.955	1									.	.	.							4128.0016	
1	24217.302	9	30361.813	-	6144.515	4	2.0-	3.0	2.0-	3.0	1.03	1.45	.42	1.044	1.473	429	-099	-96	4128.1146		
	24216.033	3									.	.	.							4128.3301	
2	24215.016	7	29717.090	-	5502.060	-14	2.5-	1.5	2.5-	1.5	1.00	1.16	.16	1.014	1.169	155			4128.5043		
2	24214.693	4	33457.050	-	9242.356	-1	.	.	3.5-	3.5	.	.	.	1.002	1.369	367		-67	4128.5594		
2	24214.019	1	46411.639	-	22197.670	0	.	.	3.5-	3.5	.	.	.	1.080	1.530*	450			4128.6743		
1	24213.756	1	12322.613	-	36536.380	-11	.	.	2.0-	3.0	.	.	.	1.036	0.950*	86		-167	4128.7192		
	24213.476	0									.	.	.							4128.7669	
	24211.555	4									.	.	.							4129.0945	
1	24210.394	7	12159.465	-	36369.870	-11	4.0-	5.0	4.0-	5.0	.840	1.065	.225	0.844	1.069	225	-261	-262	4129.2925		
1	24210.176	4	9336.801	-	33556.975	2	5.0-	5.0	5.0-	5.0	.795	1.310	.515	0.801	1.315	514	-207	-214	4129.3297		
2	24206.699	9	24206.690	-	0.000	9	.	.	1.5-	0.5	.	.	.	0.863	3.150	2287		-37	4129.9229		
1	24205.393	3	12159.465	-	36364.850	8	.	.	4.0-	4.0	.	.	.	0.844	1.080*	236	-222	-212	4130.1457		
	24205.012	3									.	.	.							4130.2107	
1	24203.354	2	14292.176	-	38495.570	0	.	.	5.0-	5.0	.	.	.	0.970	1.085	115	-189	-183	4130.4868		
2	24201.998	1	27542.165	-	51744.190	-27*	.	.	2.5-	1.5	.	.	.	0.934	0.750*	184		-281	4130.7251		
	24201.652	1									.	.	.							4130.7841	
2	24200.968	5	8709.640	-	32910.615	-7	.	.	3.5-	3.5	.	.	.	0.308	0.845	537	-180	-178	4130.9009		
2	24199.683	1	39628.175	-	15432.530	38	.	.	4.5-	3.5	.	.	.	1.140	1.057	83			4131.1202		
	24197.563	1									.	.	.							4131.4822	
	24197.271	3					2.5-	2.5			1.343	1.152	.191					-521	4131.5320		
	24196.712	1B									.	.	.							4131.6275	
1	24196.595	1B	9724.351	-	33920.944	2	.	.	3.0-	2.0	.	.	.	0.442	1.040*	598		-199	4131.6475		
2	24195.928	1	32629.265	-	14433.351	14	.	.	0.5-	1.5	.	.	.	1.380	1.925*	545			4131.7614		
2	24194.543	1	17073.340	-	41267.915	-32	.	.	1.5-	2.5	.	.	.	0.576	0.860	284			4131.9979		
	24194.281	1									.	.	.							4132.0426	
1	24193.691	0	16304.260	-	40497.975	-24	.	.	4.0-	5.0	.	.	.	1.285	1.060*	225		-267	4132.1434		
1	24191.115	1	14763.705	-	32954.840	-20	.	.	1.0-	2.0	.	.	.	-0.066	1.020*	1086			4132.5834		
	24190.452	1									.	.	.							4132.6967	
	24189.104	1									.	.	.							4132.9270	
1	24188.646	9	24188.639	-	0.000	7	1.0-	0.0	1.0-	0.0	.66	.000		0.667	0.000	0	-068	-64	4133.0052		
	24188.202	0									.	.	.							4133.0811	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS	CBS	TERM	TERM	OBS	CBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
24187.892	1																			4133.1341	
24186.679	1	26201.645-	2014.966	0	.	.	.	2.5-	1.5	.	.	.	.	.	1.036	1.881	845		128	4133.3414	
24184.664	1																			4133.6858	
1 24184.146	1	9336.801-	33570.935	12	.	.	.	5.0-	4.0	.	.	.	.	.	0.801	1.130*	329		-170	4133.7743	
24183.631	1W																			4133.8623	
2 24182.483	0	40469.010-	16286.582	55	.	.	.	1.5-	0.5	.	.	.	.	.	1.250	0.122*	1372			4134.0586	
24180.724	2																			4134.3593	
24179.604	0																			4134.5508	
2 24177.359	4	29895.355-	5717.976	-20	4.5-	3.5	4.5-	3.5	1.175	1.545	.370	1.150	1.596	446				70		4134.9347	6Q
24177.088	4																	099		4134.9811	
2 24176.481	2	34902.775-	10726.322	28	.	.	.	3.5-	4.5	.	.	.	.	.	1.155	1.391	236		200	4135.0849	
2 24175.713	5	31454.520-	7278.862	-5	.	.	.	3.5-	4.5	.	.	.	.	.	1.180	1.545*	365	054	84	4135.2163	
1 24175.217	8	30319.724-	6144.515	8	3.0-	3.0	3.0-	3.0	1.02	1.47	.45	1.010	1.473	463	-101	-101				4135.3011	
1 24172.961	1	12351.522-	36524.475	8	.	.	.	6.0-	6.0	.	.	.	.	.	0.995	1.050*	55		-275	4135.6871	C2
1 24172.961	1	31947.617-	7774.653	-3	.	.	.	3.0-	4.0	.	.	.	.	.	1.250	1.463	213		-58	4135.6871	C2
2 24172.352	2	38163.310-	13890.952	-6	.	.	.	1.5-	1.5	.	.	.	.	.	1.220	1.728	508			4135.7913	
1 24171.304	9	28470.960-	4299.659	3	2.0-	2.0	2.0-	2.0	1.110	1.485	.375	1.104	1.482	378	-111	-117				4135.9706	
2 24170.149	0	29838.135-	5717.976	-10	.	.	.	3.5-	3.5	.	.	.	.	.	1.140	1.596*	456		138*	4136.1682	
24169.229	0																			4136.3257	
1 24168.293	1	9724.351-	33892.650	-6	.	.	.	3.0-	3.0	.	.	.	.	.	0.442	1.060	618	-214	-216	4136.4859	
24167.389	1																			4136.6406	
1 24165.201	3	12177.963-	36343.140	24*	1.0-	0.0	1.0-	0.0	.52	.000		0.525	0.000	0	-232	-233				4137.0152	PB
2 24163.941	2	20689.110-	44853.015	36	.	.	.	3.5-	2.5	.	.	.	.	.	1.270	0.920*	350			4137.2309	
2 24163.468	1	31442.330-	7278.852	0	.	.	.	5.5-	4.5	.	.	.	.	.	1.170	1.545*	375			4137.3119	
24162.701	3																		-239	4137.4432	
1 24161.745	1	17045.776-	41207.555	-34	.	.	.	1.0-	2.0	.	.	.	.	.	1.474	0.925	549			4137.6069	
1 24161.409	1	14025.007-	38186.420	-4	.	.	.	4.0-	5.0	.	.	.	.	.	0.975	0.952	23		-210	4137.6645	
1 24160.398	0	8768.139-	32928.540	-3	.	.	.	2.0-	2.0	.	.	.	.	.	0.362	1.060*	698		-208	4137.8376	
24158.112	0																			4138.2292	
24156.667	6									1.01	1.01									4138.4767	2LNS
2 24156.667	6	35955.905-	11799.241	3	6.5-	5.5	6.5-	5.5	1.16	1.40	.24	1.140	1.373*	233	065	70				4138.4767	2LNS
24156.375	4								.995	.995										4138.5267	
24153.816	1																			4138.9652	
24152.771	2								.52	.52										4139.1443	PB
24151.040	0																			4139.4410	
24149.711	0																			4139.6688	
24148.851	0																			4139.8162	
1 24147.538	9	6313.866-	30461.399	5	4.0-	5.0	4.0-	5.0	.49	.99	.50	0.487	0.990	503	-191	-192				4140.0413	
1 24147.206	6	17911.977-	42059.140	43	.	.	.	5.0-	4.0	.	.	.	.	.	1.145	1.060	85		-318	4140.0982	
24146.651	1																			4140.1934	
1 24146.368	5	28446.024-	4299.659	3	1.0-	2.0	1.0-	2.0	.75	1.48	.73	0.745	1.482	737	-075	-86				4140.2419	
24144.469	3				5.0-	5.0			.	.	.37							084		4140.5675	
24143.941	1																			4140.6581	
1 24141.943	2	19059.958-	43201.845	61	.	.	.	5.0-	5.0	.	.	.	.	.	1.375	1.090	285			4140.9999	
2 24140.810	9	28110.650-	3969.846	6	1.5-	2.5	1.5-	2.5	.90	1.67	.77	0.899	1.670	771	084	33				4141.1951	
2 24140.363	4	10436.770-	34577.135	-2	.	.	.	4.5-	4.5	.	.	.270	0.724	1.010*	286	-318	-318*			4141.2718	
24139.993	1																			4141.3353	
2 24138.909	0	23671.715-	47810.565	59	.	.	.	3.5-	3.5	.	.	.	.	.	1.380	1.160	220			4141.5213	
2 24138.055	0	43965.055-	19827.020	20	.	.	.	0.5-	1.5	.	.	.	.	.	0.770	1.733*	963			4141.6678	
24137.845	0																			4141.7038	
24136.517	3				3.0-	2.0			.81	1.14	.33							-200		4141.9317	
2 24133.736	3	14221.716-	38355.450	2	0.5-	1.5	0.5-	1.5	-0.12	.71	.83	-0.108	0.698	806				-134		4142.4090	
24129.054	0																			4143.2128	
24128.374	2				2.5-	3.5			.745	1.100	.355									4143.3296	69,103 Q
24128.025	1																			4143.3895	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2 - J1	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	24127.429	1																				
2	24125.633	4		32763.860-	8538.233	6	6.5-	5.5	6.5-	5.5	1.21	1.52	.31	1.210	1.514*	304				4143.4919		
	24125.192	3																			4143.8003	
1	24124.459	1		31899.095-	7774.653	17	.	.	4.0-	4.0	.	.	.	1.380	1.463	83				4143.8761		
	24123.694	1																			4144.0020	
	24122.617	1																			4144.1334	
1	24122.368	4		33301.630-	9179.262	0	.	.	5.0-	5.0	.	.	.24	1.221	1.454	233	070	70		4144.3184		
2	24121.439	5		33363.790-	9242.356	5	.	.	3.5-	3.5	.	.	.305	1.078	1.369	291		12		4144.3612		
	24120.783	2																			4144.5208	
2	24120.036	1		15098.815-	39218.825	26	.	.	1.5-	0.5	.	.	.	1.079	1.610*	531				4144.6336		
	24119.539	0																			4144.7619	
2	24119.242	2		29621.300-	5502.060	2	.	.	1.5-	1.5	.	.	.	1.045	1.169	124				4144.8473		
	24119.054	0																			4144.8984	
2	24118.372	3		19863.335-	43981.710	-3	2.5-	2.5	2.5-	2.5	.91	1.09	.180	0.921	1.090	169				4144.9307		
	24116.090	1H																			4145.0479	GQ
2	24115.328	1H		40861.025-	16745.720	23	.	.	3.5-	2.5	.	.	.	1.105	1.671	566				4145.4401		
	24114.595	3																			4145.5711	
1	24113.670	1		12322.613-	36436.294	-11	2.0-	3.0	2.0-	3.0	1.035	1.095	.060	1.036	1.095	59				4145.6971		
	24111.369	3																			4145.8561	
1	24111.035	3		37639.270-	13523.246	11	2.0-	1.0	2.0-	1.0	1.02	-0.59	1.61	1.020	-0.590*	1610	132	128		4146.2518		
1	24109.359	3		9724.351-	33833.699	11	3.0-	2.0	3.0-	2.0	.44	.92	.48	0.442	0.930	488	-262	-265		4146.3092		
	24108.078	0																			4146.5975	
1	24106.465	1H		13517.647-	37624.090	22	.	.	2.0-	3.0	.	.	.	0.892	1.150*	258				4146.8178		
	24104.707	0																			4147.0953	
	24103.433	0																			4147.3978	
2	24102.729	6		27338.500-	3235.770	-1	1.5-	0.5	1.5-	0.5	.87	.29	.58	0.876	0.299	577	049	58		4147.6170		
2	24101.814	3		33809.795-	9707.980	-1	.	.	5.5-	6.5	.	.	.	1.180	1.485	305				4147.7381		
	24101.057	1																			4147.8956	
	24098.487	1H																			4148.0259	
1	24097.386	0		14292.176-	38389.560	2	.	.	5.0-	4.0	.	.	.	0.970	1.070	100				4148.4683		
	24096.229	2																			4148.6578	
1	24095.890	0		33275.150-	9179.262	2	.	.	4.0-	5.0	.	.	.	1.253	1.454	201				4148.8570		
1	24095.402	5		12159.465-	36254.860	7	4.0-	5.0	4.0-	5.0	.84	1.03	.19	0.844	1.030	186	-185	-182		4148.9154		
	24094.020	0																			4148.9994	
2	24091.942	7		29809.915-	5717.976	3	3.5-	3.5	3.5-	3.5	1.07	1.59	.52	1.068	1.596	528				4149.2374	JQ DG*	
2	24089.973	6		19863.335-	43953.290	18	2.5-	1.5	2.5-	1.5	.92	1.51	.59	0.921	1.510	589				4149.5953		
	24089.561	1																			4149.9345	
	24088.566	0											.66								4150.0054	
1	24087.298	1		11040.715-	35928.010	3	.	.	3.0-	4.0	.	.	.	0.811	0.960	149				4150.1769		
2	24036.665	1		42752.670-	18666.006	1	.	.	1.5-	2.5	.	.	.	1.200	1.365*	165				4150.3953		
	24085.061	1																			4150.5044	
1	24083.259	9		6313.866-	30397.106	19	4.0-	5.0	4.0-	5.0	.485	1.010	.525	0.487	1.005	518	-099	-107		4150.7808		
1	24081.217	9		6313.866-	30395.062	21	4.0-	4.0	4.0-	4.0	.487	.921	.434	0.487	0.920	433	-184	-184		4151.0914		
1	24080.682	6		30225.210-	6144.515	-13	.	.	2.0-	3.0	.	.	.	1.300	1.473	173	-102	-72		4151.4434		
	24076.966	1																			4151.5356	SI
	24075.922	1																			4152.1764	
	24075.607	1																			4152.3565	
2	24074.187	2		17242.750-	41316.930	7	.	.	2.5-	1.5	.	.	.	1.200	0.700*	500				4152.4108		
2	24072.935	4		31351.800-	7278.862	-3	4.5-	4.5	4.5-	4.5	1.12	1.54	.42	1.120	1.545*	425				4152.6557		
	24071.533	2																			4152.8717	
1	24068.855	2		28368.512-	4299.659	2	.	.	3.0-	2.0	.	.	.66	0.830	1.482*	652				4153.1136		
	24067.701	2																			4153.5757	
	24064.903	2																			4153.7748	DJO
1	24064.441	0		15449.472-	39513.870	43*	.	.	0.0-	1.0	.	.	.	0.000	0.965	0				4154.2578		
1	24064.175	0		14737.728-	36801.970	-7*	.	.	3.0-	4.0	.	.	.	0.815	1.090*	275				4154.3376		
																					4154.3835	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OSS IS	TERM IS	WAVELENGTH	NOTES
	24063.537	0																4154.4850	
1	24061.989	7	10486.922	-34548.900	11	1.0-	2.0	1.0-	2.0	.35	.85	.50	0.355	0.850*	495	-148	-148	4154.7609	
	24061.660	4															-221	4154.8177	IS*
1	24061.359	0	13726.661	-37787.990	30	.	.	3.0-	4.0	.	.	.	1.150	1.260	110		-360	4154.8697	
1	24060.301	3	30204.810	-6144.515	6	3.0-	3.0	3.0-	3.0	1.215	1.470	.255	1.215	1.473	258	-057	-65	4155.0524	
1	24059.473	5	6313.866	-30373.329	10	4.0-	4.0	4.0-	4.0	.495	1.320	.825	0.487	1.345	858	-296	-305	4155.1954	
1	24057.963	9	6313.866	-30371.819	10	4.0-	3.0	4.0-	3.0	.	.	.	0.487	0.640	153	-282	-282	4155.4562	SO
2	24056.831	1	28026.690	-3969.846	-13	.	.	2.5-	2.5	.	.	.	1.320	1.670*	350		123	4155.6517	
	24055.474	4				2.5-	2.5	.	.	.	.	.355						4155.8862	
1	24055.246	1	31829.899	-7774.653	0	.	.	3.0-	4.0	.	.	.	1.228	1.463	235		-85	4155.9256	
	24054.981	1				2.5-	2.5	.	.	.62	.97	.35						4155.9714	HVLQ 6Q
2	24054.504	5	29556.550	-5502.060	14	1.5-	1.5	1.5-	1.5	.47	1.16	.69	0.484	1.169	685		-76	4156.0538	
	24051.150	1																4156.6334	
	24050.779	0																4156.6975	
	24050.458	0																4156.7530	
	24049.525	1																4156.9142	
2	24048.298	4	11504.095	-35552.385	8	3.5-	3.5	3.5-	3.5	.87	.90	.03	0.859	0.903	44	-623	-624	4157.1263	
	24047.212	1																4157.3141	
1	24046.481	6	26250.080	-2203.606	7	1.0-	1.0	1.0-	1.0	1.27	1.49	.22	1.290	1.495*	205		-33	4157.4404	
1	24044.638	2	34283.083	-10238.473	28	.	.	5.0-	6.0	.	.	.	1.110	1.431	321		-29	4157.7591	
2	24040.726	4	15178.115	-39218.825	16	0.5-	0.5	0.5-	0.5	-0.08	1.61	1.69	-0.085	1.610*	1695	-395	-391	4158.4357	
	24040.024	0																4158.5571	
	24038.872	2																4158.7564	
2	24036.254	0	22537.265	-46573.500	19	.	.	5.5-	5.5	.	.	.	1.315	1.025	290			4159.2094	
2	24035.243	9M	29753.225	-5717.976	-6	.	.	3.5-	3.5	1.12	1.60		1.103	1.596	493	064	61	4159.3843	
	24033.773	4										.415				075		4159.6388	
	24033.224	0																4159.7338	
	24032.932	4																4159.7843	
2	24032.684	3	35831.915	-11799.241	10	.	.	4.5-	5.5	.	.	.	1.170	1.373*	203			4159.8272	
1	24031.840	9	9386.801	-33418.637	4	.	.	5.0-	5.0	.	.	.06	0.801	0.872	71	-268	-265	4159.9733	
2	24031.554	2	34757.860	-10726.322	16	.	.	3.5-	4.5	.	.	.	1.202	1.391	189		74	4160.0229	
1	24031.372	0B	12159.465	-36190.820	17	.	.	4.0-	5.0	.	.	.	0.844	1.030	186			4160.0544	
	24029.967	1																4160.2976	
	24029.143	1																4160.4403	
	24027.433	2																4160.7364	
	24026.403	0																4160.9147	
2	24026.051	1	38016.965	-13990.952	38	.	.	0.5-	1.5	.	.	.	1.390	1.728	338			4160.9757	
2	24022.054	1	38455.355	-14433.351	60	.	.	2.5-	1.5	.	.	.	1.300	1.925	625			4161.6663	
1	24020.149	3	10486.922	-34507.044	27	1.0-	1.0	1.0-	1.0	.35	1.02	.67	0.355	1.020*	665	-234	-234	4161.9981	
	24018.721	0																4162.2456	
2	24018.411	3	31516.780	-7498.364	-5	2.5-	2.5	2.5-	2.5	1.215	1.320	.105	1.215	1.321	106			4162.2993	
2	24017.787	0	20053.650	-44021.440	-3	.	.	4.5-	4.5	.	.	.	1.049	0.875	174			4162.4074	
2	24012.291	5	27982.155	-3969.846	-18	2.5-	2.5	2.5-	2.5	.52	1.67	1.15	0.520	1.670*	1150	-083	-100	4163.3601	
	24010.976	4C																4163.5882	
	24009.856	0																4163.7824	
1	24009.103	1	15424.387	-39433.510	-20	.	.	3.0-	4.0	.	.	.	1.106	0.925	181		-265	4163.9130	
	24008.323	2																4164.0483	
1	24007.870	4	37536.120	-13528.246	-4	2.0-	1.0	2.0-	1.0	1.03	-0.58	1.61	1.030	-0.590*	1620	148	146	4164.1268	
	24005.693	2																4164.5045	
1	24004.956	2	13517.647	-37522.600	3	.	.	2.0-	3.0	.	.	.	0.892	1.260*	368			4164.6323	
	23998.948	3																4165.6749	
2	23998.351	1	16499.640	-40498.010	11	.	.	3.5-	4.5	.	.	.	0.773	0.860*	87		-16	4165.7734	
	23996.130	1																4166.1642	
	23994.148	1																4166.5083	
	23993.884	1																4166.5541	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
2	23992.687	5	29710.665-		5717.976	-2	3.5-	3.5	3.5-	3.5	1.10	1.59	.49	1.100	1.596*	496	-086	-86	4166.7620			
2	23991.867	2	32630.100-		8638.233	0	.	.	5.5-	5.5	.	.	.	1.080	1.514*	434		102*	4166.9044			
2	23989.387	2	11504.095-		35493.485	-3	3.5-	3.5	3.5-	3.5	.86	.92	.06	0.859	0.931	72		-597	4167.3352			
	23987.201	8									1.425	.	.50					-614		4167.7150	f SI2JDG	
1	23986.879	9	30131.388-		6144.515	6	3.0-	3.0	3.0-	3.0	1.235	1.475	.240	1.232	1.473	241		-081	-86	4167.7709		
	23984.370	1									.	.	.							4168.2069		
	23983.362	3H									.	.	1.80							4168.3821	DJ0 2JDG	
	23983.200	2									.	.	.67							4168.4103	DJ1 2JDG	
	23981.748	1									.	.	.							4168.6627		
	23980.460	1									.	.	.							4168.8866		
2	23980.081	2	18720.075-		42700.125	31	.	.	3.5-	2.5	.	.	.	1.060	0.815	245				4168.9525		
	23979.553	0									.	.	.							4169.0443		
	23978.736	0									.	.	.							4169.1863		
2	23976.763	7	34703.075-		10726.322	10	5.5-	4.5	5.5-	4.5	1.035	1.390	.355	1.030	1.391	361		-111	123	4169.5294		
	23973.022	1									.	.	.							4170.1801		
1	23969.227	3	12322.613-		36291.840	0	.	.	2.0-	3.0	.	.	.	1.036	0.980	56			-257	4170.8403		
1	23968.616	9	28268.265-		4299.659	10	1.0-	2.0	1.0-	2.0	1.25	1.48	.23	1.252	1.482	230		-137	-134	4170.9467	SI	
2	23966.535	0	37957.445-		13990.952	42	.	.	2.5-	1.5	.	.	.	1.260	1.728*	468				4171.3088		
	23965.640	2									.	.	.						-252		4171.4646	
2	23964.487	5	32602.725-		8638.233	-5	4.5-	5.5	4.5-	5.5	1.29	1.52	.23	1.280	1.514*	234				4171.6653		
	23963.162	1									.	.	.							4171.8960		
	23962.254	1									.	.	.							4172.0541		
1	23960.147	7U	26163.752-		2203.606	1	0.0-	1.0	0.0-	1.0	.000	1.50	.	0.000	1.495	0		086	77	4172.4210		
2	23956.207	6	31454.580-		7498.364	-9	3.5-	2.5	3.5-	2.5	1.20	1.34	.14	1.180	1.321*	141		098	100	4173.1072		
	23955.279	1									.	.	.							4173.2689		
	23954.992	1									.	.	.							4173.3189		
	23954.172	1									.	.	.							4173.4617		
	23953.072	1									.	.	.							4173.6534		
	23952.300	1									.	.	.							4173.7879		
	23951.800	1									.	.	.							4173.8750		
2	23951.096	0	16362.000-		40313.110	-14	.	.	4.5-	4.5	.	.	.	1.050	1.010*	40				4173.9977		
	23950.580	0									.	.	.							4174.0877		
	23949.956	0									.	.	.							4174.1964		
	23948.979	0									.	.	.							4174.3667		
	23948.544	0									.	.	.							4174.4425		
2	23947.228	4	33189.610-		9242.356	-26	2.5-	3.5	2.5-	3.5	1.12	1.37	.25	1.121	1.369	248			-46	4174.6719	2LNS	
1	23947.228	6	39692.853-		15745.648	23	3.0-	3.0	3.0-	3.0	1.025	1.145	.12	1.025	1.145	120		045	45*	4174.6719	2LNS	
	23945.292	3					4.0-	4.0			.	.	1.46						-286		4175.0095	JQ 2JDG
1	23942.534	4	10486.922-		34429.460	-4	1.0-	2.0	1.0-	2.0	.35	.93	.58	0.355	0.930*	575		-207	-209	4175.4904		
	23941.100	3					5.0-	5.0			.	.	.265						140		4175.7405	
	23938.670	0									.	.	.							4176.1644		
	23936.625	0									.	.	.							4176.5212		
1	23934.260	6	9386.801-		33321.067	-6	5.0-	5.0	5.0-	5.0	.80	1.20	.40	0.801	1.200*	399		-190	-188	4176.9339		
	23931.801	1									.	.	.							4177.3631		
	23931.285	0									.	.	.							4177.4532		
1	23930.952	1	13726.661-		37657.560	53	.	.	3.0-	3.0	.	.	.	1.150	1.132	18				4177.5113		
	23930.410	1									.	.	.							4177.6059		
2	23930.028	4	25944.980-		2014.966	14	1.5-	1.5	1.5-	1.5	.	.	.35	1.550	1.881	331			113*	4177.6726		
1	23929.631	1	16155.109-		40084.697	43	.	.	5.0-	6.0	.	.	.	0.948	1.510	562			-300	4177.7419		
1	23927.405	4	31702.058-		7774.653	0	.	.	3.0-	4.0	.	.	.	1.085	1.463	378			34	4178.1306		
2	23926.572	9	27162.335-		3235.770	7	1.5-	0.5	1.5-	0.5	1.054	.306	.748	1.046	0.299	747			-9	4178.2760		
	23925.815	3									.	.	.							4178.4082		
1	23925.667	3	11840.715-		35766.330	2	.	.	3.0-	4.0	.	.	.	0.811	1.055	244		-140	-146	4178.4341		
2	23924.856	2	34651.175-		10726.322	3	.	.	3.5-	4.5	.	.	.	1.047	1.391	344			121	4178.5757		
	23924.413	1									.	.	.							4178.6531		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		TERM	IS	IS	WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	G6	G2	G1						G6	IS	IS
	23920.215	2									1.125		.73									4179.3865	DJ1S02JD	
	23918.203	0																				4179.7372		
1	23917.281	0	16155.109	-	40072.380	10*	.	.	5.0-	5.0	.	.	.	0.948	1.100	152						4179.8992		
1	23915.452	0	14025.007	-	37940.455	4	.	.	4.0-	3.0	.	.	.	0.975	1.170*	195			-245			4180.2189		
1	23915.216	0	14737.783	-	38652.990	14	.	.	3.0-	4.0	.	.	.	0.815	1.090*	275						4180.2601		
	23914.956	0																				4180.3056		
	23912.721	2																				4180.6963		
	23911.797	1																				4180.8578		
1	23910.408	6	28210.060	-	4299.659	7	2.0-	2.0	2.0-	2.0	.88	1.49	.61	0.865	1.482	617			-080	-79		4181.1007		
2	23906.894	3C	16499.640	-	40406.550	-16	.	.	3.5-	4.5	.	.	.	0.773	1.090*	317						4181.7153		
	23905.390	1																				4181.9784		
1	23904.811	1	14853.317	-	38758.100	28	.	.	4.0-	5.0	.	.	.	0.786	1.530	744						4182.0797		
2	23903.995	6	34630.315	-	10726.322	2	5.5-	4.5	5.5-	4.5	1.153	1.391	.238	1.155	1.391	236			063	51		4182.2224		
1	23903.342	1	12351.522	-	36254.860	4	.	.	6.0-	5.0	.	.	.	0.995	1.030	35						4182.3367		
1	23902.350	8	26105.952	-	2203.606	4	2.0-	1.0	2.0-	1.0	1.165	1.495	.33	1.165	1.495	330			063	76		4182.5103	SO	
	23901.566	1																				4182.6475		
1	23900.905	6	8768.139	-	32669.040	4	2.0-	3.0	2.0-	3.0	.35	.99	.64	0.362	1.000*	638			-182	-182		4182.7631		
1	23900.109	3	37428.345	-	13528.246	10	.	.	2.0-	1.0	.	.	.	1.330	0.590*	1920						4182.9025		
	23898.692	3																				4183.1505		
2	23897.540	5	29615.520	-	5717.976	-4	4.5-	3.5	4.5-	3.5	.	.	.44	1.160	1.596	436					106	4183.3521		
1	23896.562	7	6313.866	-	30210.416	12	4.0-	4.0	4.0-	4.0	.49	1.16	.67	0.487	1.160*	673			-245	-246		4183.5233		
	23895.074	2																				4183.7839		
1	23894.245	1	14292.176	-	38186.420	1	.	.	5.0-	5.0	.	.	.	0.970	0.952	18					-208	4183.9290		
	23893.585	2																				4184.0446		
2	23891.799	5	29393.835	-	5502.060	24	0.5-	1.5	0.5-	1.5	-0.505	1.170	1675	-0.516	1.169	1685					-78	4184.3574		
	23891.272	3H											1.0								-120	4184.4497	DJ12JD6	
	23890.104	1																				4184.6543		
2	23889.166	5	35688.405	-	11799.241	2	6.5-	5.5	6.5-	5.5	1.105	1.370	.265	1.110	1.373*	263					84*	4184.8186		
	23888.966	3																				4184.8536		
	23884.163	1																				4185.6952		
	23883.329	2																				4185.8413		
	23882.277	0																				4186.0257		
2	23881.227	4	33123.580	-	9242.356	3	2.5-	3.5	2.5-	3.5	1.28	1.37	.09	1.285	1.369	84					126*	4186.2098		
	23879.830	0																				4186.4547		
	23878.667	1																				4186.6586		
1	23876.898	1	14025.007	-	37901.880	25	.	.	4.0-	4.0	.	.	.	0.975	1.166	191					-211	4186.9688		
	23876.402	1																				4187.0558		
	23876.219	1																				4187.0879		
	23875.886	2																				4187.1462		
	23875.149	4																			186	4187.2755	DJO	
	23875.005	4					2.0-	3.0			.945	1.245	.305								-198	4187.3008	JQ	
2	23873.877	6	31152.740	-	7278.862	-1	.	.	5.5-	4.5	.	.	.	1.240	1.545*	305						4187.4986	SO	
1	23868.971	3	8768.139	-	32637.106	4	2.0-	3.0	2.0-	3.0	.36	.82	.46	0.362	0.820*	458			-161	-172		4188.3593		
2	23865.625	5	8198.666	-	32064.280	11	2.5-	3.5	2.5-	3.5	.40	1.08	.68	0.414	1.090*	676			-554	-554		4188.9465		
1	23864.743	3	34103.210	-	10238.473	6	.	.	5.0-	6.0	.	.	.	1.028	1.431	403					55	62	4189.1014	
2	23863.158	3	32501.390	-	8638.233	1	.	.	4.5-	5.5	.	.	.	1.190	1.514	324			041	55		4189.3796		
1	23862.827	0	10486.922	-	34349.740	9	.	.	1.0-	1.0	.	.	.	0.355	0.810*	455					-240	4189.4377		
	23861.652	0																				4189.6440		
1	23861.184	0	13517.647	-	37378.815	16	.	.	2.0-	2.0	.	.	.	0.892	0.964	72					-193	4189.7262		
2	23860.206	9	27830.060	-	3569.846	-8	2.5-	2.5	2.5-	2.5	1.20	1.67	.47	1.216	1.670	454					9	4189.8979		
2	23859.269	9	10436.770	-	34296.050	-11	4.5-	4.5	4.5-	4.5	.72	.76	.04	0.724	0.768	44			-256	-260		4190.0625		
	23858.933	1																				4190.1215		
	23857.773	0																				4190.3252		
	23855.964	2																				4190.6430		
	23855.305	5									1.28		.83									-151	4190.7588	f S12JD6

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	23854.863	1																				
2	23854.423	7	35653.670-11799.241	-6	6.5-	5.5	6.5-	5.5	1.100	1.373	.273	1.105	1.373	268	068	72			4190.8364			
	23852.226	0																		4190.9137		
	23851.973	1																		4191.2997		
	23849.532	0																		4191.3442		
1	23849.087	2	37377.330-13528.246	3	2.0-	1.0	2.0-	1.0			1.85	1.260	0.590*	1850	127	128			4191.7732			
1	23846.799	5	6313.866-30160.664	1	4.0-	4.0	4.0-	4.0	.49	1.02	.53	0.487	1.030	543	-173	-176			4191.8514			
1	23846.594	5	9724.351-33570.935	10	3.0-	4.0	3.0-	4.0	.45	1.14	.69	0.442	1.130*	688	-167	-166			4192.2536			
2	23843.651	3	11504.095-35347.740	6	3.5-	3.5	3.5-	3.5	.85	1.20	.35	0.859	1.195	336		-513			4192.2896			
1	23839.294	1	12351.522-36190.820	-4	.	.	6.0-	5.0				0.995	1.030	35	-412				4192.8071			
	23838.964	1																		4193.5734		
	23838.258	1																		4193.6315		
	23836.196	3							1.24	1.24										4193.7557		
	23833.859	0																		4194.1185		SP
2	23833.659	0	26070.615-49904.305	-31	.	.	3.5-	3.5				1.119	0.000*	0					4194.5297			
	23831.152	2																		4194.5649		
2	23830.865	6	13809.910-37640.775	0	4.5-	5.5	4.5-	5.5	.67	.72	.05	0.657	0.700*	43	285	290			4195.0062			
2	23828.647	4	27798.480-3969.846	13	3.5-	2.5	3.5-	2.5	1.06	1.68	.62	1.060	1.670*	610		61			4195.0567			
2	23827.703	2	17121.640-40949.343	0	.	.	5.5-	6.5				0.000	0.000	0					4195.4472			
	23827.506	3																		4195.6134		
	23826.800	2																		4195.6481		
	23825.863	1																		4195.7724		
2	23824.367	9	33532.385-9707.980	-38	5.5-	6.5	5.5-	6.5	1.34	1.49	.15	1.341	1.485	144	-	2			4195.9374			
2	23824.305	7	10436.770-34261.065	10	4.5-	4.5	4.5-	4.5			.21	0.724	0.920	196	-159	-159			4196.2009			
2	23823.620	1	17073.340-40896.955	5	.	.	1.5-	1.5				0.576	0.800*	224					4196.2118			
	23822.812	2																		4196.3325		
2	23822.178	0	8709.640-32531.815	3	.	.	3.5-	2.5				0.308	1.010*	702		-290			4196.4748			
1	23818.167	5	9724.351-33542.506	12	3.0-	2.0	3.0-	2.0	.45	1.13	.68	0.442	1.123	681	-234	-236			4196.5865			
	23816.924	0																		4197.2932		
	23816.480	0																		4197.5123		
	23816.048	4				5.0-	5.0													4197.5905		
	23815.325	2												.378						4197.6667		
1	23814.573	1	16304.260-40118.850	-17*	.	.	4.0-	3.0				1.285	1.020	265					4197.7941			
2	23813.501	2	16499.640-40313.110	31	.	.	3.5-	4.5				0.773	1.010	237					4197.9267			
1	23813.030	0	15424.387-39237.380	37	.	.	3.0-	2.0				1.106	1.210*	104					4198.1157			
	23812.687	0																		4198.1987		
	23811.977	0																		4198.2592		
	23811.601	0																		4198.3844		
	23808.916	3							1.40		.82									4198.4507		
	23807.358	1																		4198.9241		DJ0 2JD6
1	23806.841	5	28106.505-4299.659	-5	3.0-	2.0	3.0-	2.0	1.19	1.48	.29	1.190	1.482*	292		8			4199.1989			
1	23806.226	1	15424.387-39230.610	3*	.	.	3.0-	4.0				1.106	1.090*	16		-206			4199.2901			
2	23805.862	1	15657.156-39463.005	13	.	.	2.5-	1.5				1.000	1.420	420		-55*			4199.3986			
	23804.730	0																		4199.4628		
1	23802.835	3	32982.090-9179.262	7	.	.	5.0-	5.0				0.000	1.454*	0		-28*			4199.6625			
	23801.235	1																		4199.9969		
	23799.127	4							1.10	1.10										4200.2792		
	23798.454	4																		4200.6513		SP
1	23796.142	5	9386.801-33182.933	10	5.0-	6.0	5.0-	6.0	.80	1.05	.25	0.801	1.050	249	-160	-166			4200.7700		DJ0	
2	23795.770	2H	24823.940-48619.650	60	.	.	5.5-	4.5				0.000	1.000*	0					4201.1782			
2	23793.845	4	14561.607-38355.450	2	1.5-	1.5	1.5-	1.5	1.15	.71	.44	1.149	0.698	451	-196	-192			4201.2439			
	23792.815	4																		4201.5338		
1	23792.096	3	10486.922-34279.010	8	1.0-	1.0	1.0-	1.0	.35	1.71	1.36	0.355	1.710*	1355	-316	-315			4201.7657		DJ1	
	23787.542	2																		4201.8926		
	23787.061	3				5.0-	5.0				.205						124			4202.6971		
																				4202.7821		

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	23786.000	7	31284.370-	7498.364	-6	3.5-	2.5	3.5-	2.5	1.105	1.32	.215	1.114	1.321	207		10	4202.9696	SO	
	23781.498	1																4203.7652		
1	23780.071	1	14912.011-	38692.075	7	.	.	4.0-	5.0	.	.	.	0.496	1.170*	674			4204.0175		
	23779.787	1																4204.0677		
	23778.917	1																4204.2215		
	23778.492	2																4204.2967		
	23777.667	3																4204.4425		
	23777.463	1																4204.4786		
1	23776.885	5	12351.522-	36128.425	-18	.	.	6.0-	7.0	.	.	.	0.995	1.060	65		-116	4204.5808		
2	23776.358	6	31274.745-	7498.364	-23	2.5-	2.5	2.5-	2.5	1.20	1.31	.11	1.200	1.321*	121		60*	4204.6740		
	23775.745	5H								1.46	.	.72						-386	4204.7824	f SI2J06
	23775.132	0H																	4204.8908	DJ1
1	23773.727	4	9724.351-	33498.071	7	3.0-	3.0	3.0-	3.0	.45	.78	.33	0.442	0.770	328		-183 -182	4205.1393		
	23773.017	1																	4205.2649	
2	23771.489	8	13809.910-	37581.395	4	4.5-	3.5	4.5-	3.5	.64	.75	.11	0.657	0.748	91		-088 -88	4205.5353		
1	23770.408	2	29914.927-	6144.515	-4	.	.	3.0-	3.0	.	.	.	1.194	1.473	279			4205.7265		
1	23769.246	7M	6313.866-	30083.102	10	4.0-	5.0	4.0-	5.0	.51	1.16	.65	0.487	1.150*	663		-205 -207	4205.9321		
	23767.482	1																	4206.2443	
1	23766.146	9R	23766.136-	0.000	10	1.0-	0.0	1.0-	0.0	2.15	0.0		2.162	0.000	0		-155 -155	4206.4807		
2	23765.314	2	22799.695-	46565.005	4	.	.	4.5-	4.5	.	.	.	1.330	1.040*	290			4206.6280		
	23763.386	2										.37							4206.9693	DJ1 2J06
2	23761.653	0	32399.895-	8638.233	-9	.	.	4.5-	5.5	.	.	.	1.110	1.514*	404		49*	4207.2761		
2	23760.961	0	25293.605-	49054.605	-39	.	.	3.5-	4.5	.	.	.	0.970	1.020*	50			4207.3987		
	23760.325	4								1.00	.	.25						060	4207.5113	f SO2J06
1	23760.144	4	12159.465-	35919.595	14	4.0-	5.0	4.0-	5.0	.85	1.13	.28	0.844	1.120*	276		-088 -82	4207.5434		
	23759.749	2																	4207.6133	
1	23758.022	4	6313.866-	30071.890	-2	.	.	4.0-	5.0	.	.	.	0.487	1.290*	803		-294 -297	4207.9192		
2	23757.637	7	29259.700-	5502.060	-3	1.5-	1.5	1.5-	1.5	1.25	1.17	.08	1.250	1.169	81			4207.9874		
1	23756.247	9	25959.849-	2203.606	4	1.0-	1.0	1.0-	1.0	1.035	1.51	.44	1.037	1.495	458		-051 -27	4208.2336		
	23755.304	3																	4208.4006	
2	23755.085	3	32393.315-	8638.233	3	.	.	6.5-	5.5	.	.	.	1.150	1.514*	364		78*	4208.4394		
2	23753.478	7	32995.835-	9242.356	-1	4.5-	3.5	4.5-	3.5	1.164	1.370	.206	1.164	1.369	205		085	72	4208.7241	
2	23752.183	4	13809.910-	37562.100	-7	4.5-	5.5	4.5-	5.5	.64	.95	.31	0.657	0.950	293			-367*	4208.9536	
	23751.948	3																	4208.9953	
	23750.498	0																	4209.2522	
	23750.234	0																	4209.2990	
	23749.793	0																	4209.3772	
	23749.395	0																	4209.4477	
	23748.701	4																	4209.5707	DJ0 2J06
	23748.271	0																	4209.6470	
	23747.301	0																	4209.8189	
	23746.616	3																	4209.9404	
	23746.397	0																	4209.9792	
	23746.121	1																	4210.0281	
	23745.859	3																	4210.0746	
	23744.820	0																	4210.2588	
	23744.128	3																	4210.3815	
1	23743.486	2	37271.740-	13528.246	-8	.	.	2.0-	1.0	.	.	.	1.115-	0.590*	1705				4210.4953	
	23743.229	2																	4210.5409	
1	23742.794	1	14292.176-	38034.960	10	.	.	5.0-	6.0	.	.	.	0.970	1.140	170			-256	4210.6181	
2	23739.338	5	29457.315-	5717.976	-1	4.5-	3.5	4.5-	3.5	1.24	1.595	.355	1.230	1.596	366		16*		4211.2311	SO
1	23736.798	5	29881.327-	6144.515	-14	2.0-	3.0	2.0-	3.0	1.16	1.48	.32	1.153	1.473	320		-14		4211.6817	
2	23735.353	6	33443.355-	9707.980	-17	5.5-	6.5	5.5-	6.5	1.100	1.485	.385	1.100	1.485*	385		154	154	4211.9372	
2	23734.982	4	14221.716-	37956.685	13	0.5-	1.5	0.5-	1.5	-0.11	.90	1.01	-0.108	0.904	1012			-89	4212.0039	
2	23734.239	6	34460.555-	10726.322	6	5.5-	4.5	5.5-	4.5	1.07	1.39	.32	1.066	1.391	325			-082 -79*	4212.1358	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	23732.663	1																	4212.4155		
	23732.020	0																	4212.5297		
	23731.174	1																	4212.6798		
	23730.743	0																	4212.7564		
	23729.078	0																	4213.0520		
1	23728.031	3	11840.715-35568.740			6	3.0-	2.0	3.0-	2.0	.809	1.040	.231	0.811	1.040	229	-255	-258	4213.2379		
	23727.226	1																	4213.3808		
2	23726.682	3	35525.910-11799.241			13	.	.	4.5-	5.5	.	.	.19	1.176	1.373	197		68*	4213.4774	SP	
2	23725.708	3	34452.020-10726.322			10	.	.	3.5-	4.5	.	.		1.215	1.391	176			4213.6504		
1	23724.530	3	32903.777-9179.262			15	4.0-	5.0	4.0-	5.0	1.12	1.45	.33	1.120	1.454*	334			4213.8596		
	23722.817	2																	4214.1639	DJ1	
	23719.180	4H										1.12	.21						4214.8101	DJ1SO2JD	
2	23718.714	2	16362.000-40080.685			29	.	.	4.5-	5.5	.	.		1.050	1.060*	10		-230	4214.8929	C2	
2	23718.714	2	35726.195-12007.503			22	.	.	0.5-	1.5	.	.		1.550	0.019*	1569			4214.8929	C2	
1	23717.505	2	11840.715-35558.235			-15	.	.	3.0-	4.0	.	.		0.811	0.990	179		-222	4215.1078		
	23717.228	3																	4215.1570		
2	23716.859	7	13809.910-37526.775			-6	4.5-	4.5	4.5-	4.5	.657	.594	.063	0.657	0.591	66	124	123	4215.2226		
1	23713.296	0	15856.888-39570.175			9	.	.	1.0-	2.0	.	.		1.103	1.150*	47		-201*	4215.8559	DJ1	
2	23710.621	8	27680.460-3969.846			7	2.5-	2.5	2.5-	2.5	1.30	1.67	.37	1.310	1.670*	360		-26*	4216.3316		
	23708.407	1																	4216.7253		
	23706.710	0																	4217.0272		
	23705.707	3B																	4217.2056		
2	23703.882	5	33892.325-10188.463			20	0.5-	0.5	0.5-	0.5	1.23	2.415	1185	1.220	2.402	1182			4217.5303		
1	23702.298	4	9386.801-33089.092			7	5.0-	5.0	5.0-	5.0	.	.	.270	0.801	1.069	268		-290	-287	4217.8122	
	23700.760	0																	4218.0859		
	23699.250	3H																	4218.3546		
	23697.212	4C									1.22	.	.11						4218.7174	f SI2JD6	
1	23696.498	3	14292.176-37988.680			-6	.	.	5.0-	6.0	.	.		0.970	1.090*	120		-231	4218.8445		
2	23695.687	8	29197.755-5502.060			-8	2.5-	1.5	2.5-	1.5	.99	1.17	.18	0.989	1.169	180	070	61	4218.9889	SO	
1	23695.304	1	12322.613-36017.900			17	.	.	2.0-	1.0	.	.		1.036	0.910	126		-247	4219.0571		
2	23694.671	2	32332.915-8638.233			-11	.	.	4.5-	5.5	.	.		1.100	1.514*	414		-90	4219.1698		
	23691.769	3H									1.01	1.01							4219.6867		
	23688.767	0																	4220.2214		
	23688.319	0																	4220.3012		
	23686.755	3																	4220.5799		
	23686.552	3									.84	.84						-240	4220.6161		
2	23684.391	3	15778.634-39463.005			20	1.5-	1.5	1.5-	1.5	1.138	1.425	.287	1.133	1.420	287		-54*	4221.0012		
1	23679.513	9	27979.161-4299.659			11	2.0-	2.0	2.0-	2.0	1.19	1.485	.295	1.186	1.482	296		-083	-88	4221.8707	
2	23678.220	5	11504.095-35182.315			0	3.5-	4.5	3.5-	4.5	.860	1.000	.140	0.859	1.000	141		-527	-527*	4222.1013	
	23675.907	2																	4222.5137		
2	23673.507	4	14295.565-37969.065			7	3.5-	2.5	3.5-	2.5	.805	.835	.030	0.790	0.832	42		-298	-302	4222.9418	
2	23673.135	2	33381.120-9707.980			-5	.	.	5.5-	6.5	.	.		1.152	1.485	333		100	4223.0082		
1	23670.915	1	12159.465-35830.380			0	.	.	4.0-	4.0	.	.		0.844	0.965	121		-229	4223.4043		
	23669.973	1																	4223.5723		
1	23669.326	2	10486.922-34156.245			3	.	.	1.0-	1.0	.	.		0.355	1.305	950		-311	4223.6878		
	23669.004	4																	4223.7453	DJ0	
	23668.716	0																	4223.7966		
	23668.409	2																	4223.8514		
	23667.298	1																096	4224.0497		
1	23667.078	7	25870.685-2203.606			-1	2.0-	1.0	2.0-	1.0	1.17	1.49	.32	1.170	1.495	325		-049	-59	4224.0890	
1	23666.471	9	29810.974-6144.515			12	3.0-	3.0	3.0-	3.0	1.187	1.471	.284	1.184	1.473	289		-086	-90	4224.1973	
1	23662.801	3	9724.351-33387.151			1	.	.	3.0-	2.0	.	.		0.442	1.288	846		-287	4224.8525		
2	23662.019	6	31160.405-7498.364			-22	3.5-	2.5	3.5-	2.5	.98	1.32	.34	0.978	1.321	343	349	349	4224.9921		
2	23658.487	2	17296.905-40955.385			7	4.5-	3.5	4.5-	3.5	.	.	.335	0.494	0.850	356		147	4225.6229		
	23658.135	1																	4225.6858		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	23657.745	2																	4225.7554	
1	23656.761	0	8768.139	-	32424.890	10	.	.	2.0-	1.0	.	.	.	0.362	1.770*	1408		-257	4225.9312	
	23653.492	2																	4226.5152	
	23653.004	2																	4226.6024	
2	23651.447	3	32893.805	-	9242.356	-2	4.5-	3.5	4.5-	3.5	.97	1.37	.40	0.980	1.369*	389		114	4226.8807	
	23647.701	2																	4227.5503	
1	23645.021	2	8768.139	-	32413.146	14	2.0-	3.0	2.0-	3.0	.37	.99	.62	0.362	0.995	633		-305	4228.0295	
	23642.409	3B																	4228.4966	
1	23642.266	3B	14853.317	-	38495.570	13	4.0-	5.0	4.0-	5.0	.	.	.32	0.786	1.085	299		-110	4228.5221	
2	23635.322	9	34361.635	-	10726.322	9	5.5-	4.5	5.5-	4.5	.	.	.164	1.222	1.391	169	-103	-98	4229.7645	
	23632.747	3					3.5-	3.5			.89	1.13	.24				-190		4230.2254	GQ
	23531.804	1																	4230.3942	
	23529.892	3																	4230.7365	
	23529.423	4																	4230.8205	239BQ
2	23629.188	6	13809.910	-	37439.105	-7	4.5-	3.5	4.5-	3.5	.645	.93	.285	0.657	0.926	269	+234	-223*	4230.8625	
	23624.500	3					1.13	.			1.13	.	.07				147		4231.7021	f 2JDG
	23623.283	1																	4231.9201	
	23622.719	2																	4232.0212	
	23622.324	1																	4232.0919	
2	23621.513	2	32259.765	-	8638.233	-19*	.	.	5.5-	5.5	.	.	.	1.180	1.514*	334		103	4232.2372	
1	23621.048	6	29765.568	-	6144.515	-5	3.0-	3.0	3.0-	3.0	1.16	1.48	.32	1.162	1.473	311	-	-47*	4232.3206	
	23620.808	2																	4232.3636	
1	23603.333	4	33380.841	-	9772.532	24	1.0-	0.0	1.0-	0.0	1.81	.000	.	1.810	0.000*	0	-098	-103*	4234.6001	
1	23606.917	3	12159.465	-	35766.380	2	4.0-	4.0	4.0-	4.0	.	.	.22	0.844	1.055	211		-145	4234.8541	
2	23605.923	1	27306.210	-	50912.115	23	.	.	2.5-	3.5	.	.	.	1.040	0.950*	90			4235.0315	
	23605.223	1																	4235.1580	
1	23603.906	6	27903.565	-	4299.659	0	2.0-	2.0	2.0-	2.0	1.31	1.49	.18	1.300	1.482	182	143	142	4235.3943	
	23600.456	2																	4236.0134	
	23598.532	3																	4236.3588	
2	23597.309	6	31095.675	-	7498.364	-2	2.5-	2.5	2.5-	2.5	1.17	1.31	.14	1.170	1.321*	151	061	76	4236.5784	
1	23594.635	3	32773.905	-	9179.262	-8	5.0-	5.0	5.0-	5.0	.	.	.31	1.150	1.454*	304	096	98	4237.0585	
2	23594.234	4	26830.020	-	3235.770	-16	0.5-	0.5	0.5-	0.5	-0.07	.31	.38	-0.097	0.299	396		84	4237.1305	
	23591.895	1																	4237.5506	
	23591.092	2									1.00	1.00	.						4237.6949	SP
1	23588.291	7	27887.955	-	4299.659	-5	1.0-	2.0	1.0-	2.0	.88	1.49	.61	0.870	1.482*	612		32	4238.1981	PB
2	23587.017	3	35386.270	-	11799.241	-12	.	.	4.5-	5.5	.	.	.	1.100	1.373	273		97	4238.4270	
2	23586.540	3	30365.395	-	7278.862	7	.	.	3.5-	4.5	.	.	.	1.328	1.545	217		-66	4238.5127	
1	23583.693	5	31358.339	-	7774.653	7	4.0-	4.0	4.0-	4.0	.	.	.31	1.155	1.463	308	-065	-73	4239.0244	
	23582.301	3																208	4239.2746	2LNS
	23582.301	3																	4239.2746	2LNS
1	23582.111	4	9386.801	-	32968.906	6	5.0-	4.0	5.0-	4.0	.	.	.32	0.801	1.115	314	-197	-200	4239.3088	
	23580.044	2																	4239.6804	
2	23578.455	3	32820.775	-	9242.356	36	.	.	2.5-	3.5	.	.	.	1.315	1.369	54	140	-63	4239.9661	
1	23577.582	3	29722.097	-	6144.515	0	2.0-	3.0	2.0-	3.0	1.335	1.475	.140	1.335	1.473	138	-070	-70	4240.1231	
	23576.324	0																	4240.3494	
	23575.263	0																	4240.5402	
	23574.902	0																	4240.6051	
	23574.081	0																	4240.7528	
2	23573.729	0	19863.335	-	43437.020	44	.	.	2.5-	3.5	.	.	.	0.921	0.960*	39			4240.8162	
2	23572.322	5	27542.165	-	3969.846	3	2.5-	2.5	2.5-	2.5	.94	1.67	.73	0.934	1.670	736		128*	4241.0693	
1	23572.089	5	6313.866	-	29835.947	8	4.0-	3.0	4.0-	3.0	.	.	.85	0.487	1.330*	843	-364	-369	4241.1112	
	23571.020	2																	4241.3036	
	23569.447	1																	4241.5866	
1	23568.083	3	12351.522	-	35919.595	10	.	.	6.0-	5.0	.	.	.	0.995	1.120*	125	-082	-88	4241.8321	
	23567.572	2					4.0-	3.0			.	.	.40				-260		4241.9241	JQ

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	62	61	D6	62	61	D6	IS	IS			
	23566.357	1																	4242.1428		
	23565.854	0																	4242.2333		
	23564.118	2P																	4242.5459	DJ0	
	23562.114	2P																	4242.9067		
	23559.451	1																	4243.3863		
2	23558.961	2	25573.915-	2014.966	12	.	.	1.5-	1.5	.	.	.	.	1.627	1.881	254		-66	4243.4746	
	23554.635	2																	4244.2539		
	23548.596	1																	4245.3424		
2	23546.924	3C	16593.963-	40140.890	-3	2.5-	2.5	2.5-	2.5	.99	.72	.27		0.983	0.720*	263			4245.6438		
	23544.757	3C				0.5-	0.5												4246.0346	J0515Q	
	23541.706	0																	4246.5849		
2	23538.157	8	29040.245-	5502.060	-28	1.5-	1.5	1.5-	1.5	1.45	1.17	.28		1.447	1.169	278	+	37	4247.2252	2LNS	
1	23538.157	5	31312.780-	7774.653	30	.	.	4.0-	4.0	1.19	1.47	.28		1.189	1.463	274		-25	4247.2252	2LNS	
1	23536.511	1	12351.522-	35838.025	8	.	.	6.0-	7.0					0.995	1.050*	55		-67	4247.5222		
1	23536.279	0	14853.317-	38389.560	36	.	.	4.0-	4.0					0.786	1.070	284		-131*	4247.5641		
	23535.140	0																	4247.7697		
	23534.595	0																	4247.8680		
	23533.028	0																	4248.1509		
	23532.634	0																	4248.2220		
	23531.571	1																	4248.4139		
	23530.929	1																	4248.5299		
	23528.399	3																	4248.9867	DJ0	
1	23527.438	1	9724.351-	33251.780	9	.	.	3.0-	2.0					0.442	1.465	1023		-210	4249.1603		
2	23524.375	7	29026.425-	5502.060	10	.	.	2.5-	1.5	1.15	1.15			1.150	1.169	19	-089	-91	4249.7135	SO	
2	23523.335	5	30802.205-	7278.862	-8	4.5-	4.5	4.5-	4.5	1.16	1.555	.395		1.160	1.545*	385		-079	-72	4249.9014	
	23520.641	2B																	4250.3882		
1	23519.652	3	10486.922-	34006.573	1	1.0-	0.0	1.0-	0.0	.36	.000			0.355	0.000	0	-330	-329	4250.5669		
	23519.197	4				5.0-	5.0					.22							4250.6492	J5555Q	
1	23518.937	6	29663.455-	6144.515	-3	3.0-	3.0	3.0-	3.0	1.24	1.48	.24		1.232	1.473	241	-068	-71	4250.6962		
	23515.120	5																	-325	4251.3862	
2	23514.631	4	11504.095-	35018.725	1	.	.	3.5-	3.5	.86	.91	.05		0.859	0.911	52		-488	4251.4746		
2	23514.078	4	13809.910-	37323.995	-7	4.5-	5.5	4.5-	5.5			.29		0.657	0.935	278	-158	-163	4251.5746	PBQ	
2	23511.968	5	30790.830-	7278.862	0	5.5-	4.5	5.5-	4.5			.38		1.175	1.545	370	083	80	4251.9561	SO	
	23511.741	2																	-210	4251.9972	
	23510.916	0																		4252.1464	
	23508.326	2																		4252.6148	
	23508.011	1																		4252.6718	
	23504.409	2																		4253.3236	
	23502.968	2																		4253.5843	
1	23502.439	3	25706.036-	2203.606	9	2.0-	1.0	2.0-	1.0	1.29	1.49	.20		1.290	1.495	205	-049	-59	4253.6801		
2	23498.515	4	32740.875-	9242.356	-4	4.5-	3.5	4.5-	3.5	.97	1.37	.403		0.970	1.369	399	-	-21*	4254.3904	JQ	
	23497.968	1																		4254.4894	
2	23496.465	9	27466.315-	3969.846	-4	1.5-	2.5	1.5-	2.5					1.793	1.670	123	147	141	4254.7616	SO	
2	23496.279	6	30775.140-	7278.862	1	3.5-	4.5	3.5-	4.5	1.12	1.54	.42		1.099	1.545	446	-089	-83	4254.7953		
	23495.260	2								.91	.91									4254.9798	
1	23491.293	2	33729.775-	10238.473	-9	.	.	5.0-	6.0					1.125	1.431	306	135	121	4255.6984		
2	23489.598	8	13809.910-	37299.525	-17	4.5-	5.5	4.5-	5.5	.645	.930	.285		0.657	0.923	266	-161	-161	4256.0055		
1	23488.555	2	9724.351-	33212.897	9	.	.	3.0-	4.0					0.442	1.110*	668	-175	-163	4256.1945		
	23487.845	1																		4256.3231	
	23487.387	0																		4256.4061	
	23486.798	1																		4256.5129	
2	23486.415	6	30765.285-	7278.852	-8	3.5-	4.5	3.5-	4.5	1.16	1.545	.375		1.190	1.545*	355	-	-15	4256.5823	SI	
2	23485.433	2	25018.940-	48504.345	28	.	.	2.5-	2.5					1.385	0.790*	595			4256.7603		
1	23482.728	0	15424.387-	32907.115	0	.	.	3.0-	2.0					1.106	1.135	29			4257.2506		
1	23482.376	0	9386.801-	32369.165	12	.	.	5.0-	5.0					0.801	0.916	115			-248	4257.3144	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS				
	23480.194	2																		4257.7101	
2	23479.776	7	29197.755-	5717.976	-3		2.5-	3.5	2.5-	3.5	.98	1.59	.285	0.989	1.596	607	036	41		4257.7859	
2	23478.719	5	8198.666-	31677.390	-5		2.5-	2.5	2.5-	2.5	.41	.67	.26	0.414	0.675	261	-467	-468		4257.9776	
2	23473.986	1	16362.000-	39835.970	16		.	.	4.5-	3.5	.	.	.	1.050	0.850*	200		-222		4258.8361	
	23473.154	3																		4258.9871	
1	23470.554	4	9386.801-	32857.357	8		5.0-	6.0	5.0-	6.0	.810	1.105	.295	0.801	1.101	300	-202	-203		4259.4570	
2	23470.213	2	38163.310-	14693.090	-7		.	.	1.5-	0.5	.	.	.	1.220	0.840	380				4259.5207	
	23469.546	1																		4259.6418	
1	23469.049	3C	27768.715-	4299.659	-7		.	.	1.0-	2.0	.	.	.	0.722	1.482	760	+	15		4259.7320	
	23465.506	2																		4260.1936	
1	23465.656	2	16155.109-	39620.765	0		.	.	5.0-	6.0	.945	.965	.02	0.948	0.965	17		-270		4260.3480	
	23465.089	1H																		4260.4509	
2	23464.644	1	15098.815-	38563.445	14		.	.	1.5-	2.5	.	.	.	1.079	1.085	6				4260.5317	
	23463.984	3									1.12	.	.30				040			4260.6515	DJO 2J06
	23463.221	1																		4260.7901	
	23462.604	2																		4260.9021	
1	23461.242	5	25664.825-	2203.606	23		0.0-	1.0	0.0-	1.0	.000	1.497		0.000	1.495	0	-062	-71		4261.1495	PB
1	23458.726	5	31233.379-	7774.653	0		4.0-	4.0	4.0-	4.0	1.09	1.46	.37	1.090	1.463	373	-067	-76		4261.6065	
1	23457.189	9	25660.792-	2203.606	3		1.0-	1.0	1.0-	1.0	1.130	1.495	.365	1.146	1.495	349	-051	-16		4261.8358	PB
1	23455.327	5	27755.977-	4299.659	9		3.0-	2.0	3.0-	2.0	1.370	1.480	.11	1.370	1.482	112	-090	-90		4262.0424	SO
1	23454.029	3	12159.465-	35613.490	4		4.0-	5.0	4.0-	5.0	.85	1.10	.25	0.844	1.090*	246	-251	-255		4262.4600	
2	23445.102	2	33634.550-	10188.463	15		.	.	1.5-	0.5	.	.	.	1.230	2.402*1172			35*		4263.9011	
2	23443.619	4	10436.770-	33580.390	-1		4.5-	3.5	4.5-	3.5	.715	1.000	.285	0.724	1.000*	276	-293	-293*		4264.3528	
2	23439.155	4	28941.215-	5502.060	0		2.5-	1.5	2.5-	1.5	.960	1.175	.215	0.968	1.169	201		-54		4265.1649	SO
	23436.953	3																		4265.5638	
2	23434.160	6	26669.945-	3235.770	-15		1.5-	0.5	1.5-	0.5	1.355	.295	1.06	1.350	0.299	1051		104		4266.0741	SI
	23433.158	3					2.0-	3.0					.64							4266.2565	3040Q
2	23428.485	6	32670.835-	9242.356	6		.	.	2.5-	3.5	1.36	1.36		1.361	1.369	8	-	-38		4267.1074	
	23426.920	1																		4267.3925	
	23425.350	1																		4267.6785	
	23424.276	2																		4267.8742	
	23423.519	3					0.5-	0.5			1.71	.86								4268.0121	J0515Q
1	23423.057	4	9386.801-	32809.844	14		5.0-	4.0	5.0-	4.0	.80	.90	.10	0.801	0.900	99	-212	-218		4268.0963	SO
	23419.020	0																		4268.8321	
	23418.391	0																		4268.9467	
	23417.691	0																		4269.0743	
	23416.083	2																		4269.3675	
1	23414.952	3	11840.715-	35255.665	2		3.0-	4.0	3.0-	4.0	.81	1.08	.27	0.811	1.080*	269	-285	-258		4269.5737	
1	23413.881	9	25617.477-	2203.606	10		2.0-	1.0	2.0-	1.0	1.36	1.495	.135	1.360	1.495*	135	-091	-90		4269.7690	SO
1	23408.530	3	37750.470-	14341.947	7		2.0-	2.0	2.0-	2.0	.99	.87	.12	0.980	0.852*	128	133	133*		4270.7451	
	23407.595	4					4.5-	3.5			.71	.98	.27							4270.9157	J4555Q
	23406.990	2H																		4271.0261	
2	23403.477	0	16499.640-	39903.115	2		.	.	3.5-	4.5	.	.	.	0.773	1.060*	287				4271.6672	
	23401.920	0																		4271.9514	
2	23398.235	1	18720.075-	42118.305	5		.	.	3.5-	4.5	.	.	.	1.060	1.040	20		-195		4272.6242	
1	23397.686	1	29542.214-	6144.515	-13		.	.	2.0-	3.0	.	.	.	1.298	1.473	175		20		4272.7244	
	23396.641	2C																		4272.9153	
	23395.719	2																		4273.0837	
2	23395.077	1	14561.697-	37956.685	-1		.	.	1.5-	1.5	.	.	.	1.149	0.904	245		-147		4273.2009	
2	23394.822	1	20056.725-	43451.520	27		.	.	0.5-	1.5	.	.	.	0.047	1.190*1143					4273.2475	
2	23394.333	9	32032.585-	8638.233	-19		4.5-	5.5	4.5-	5.5	1.31	1.51	.20	1.335	1.514	179		-13		4273.3368	
1	23390.504	3	14025.007-	37415.485	16		.	.	4.0-	5.0	1.00			0.975	0.980	5	-256	-257		4274.0364	f SI
2	23388.687	5	25403.645-	2014.966	8		2.5-	1.5	2.5-	1.5	1.03	1.88	.85	1.029	1.881	852	031	43		4274.3684	
	23387.097	2																173		4274.6590	
1	23385.815	2	9724.351-	33110.165	1		.	.	3.0-	4.0	.	.	.	0.442	1.220*	778		-251		4274.8934	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	23385.245	5	22887.310-	5502.060	-5	0.5-	1.5	0.5-	1.5	.15	1.175	1025	0.162	1.169	1007	038	40	4274.9976		
1	23383.272	3	14025.007-	37408.285	-6	4.0-	4.0	4.0-	4.0	.98	1.05	.07	0.975	1.045	70	-202	-206	4275.3583	DJO	
1	23380.962	4	32550.225-	9179.262	-1	5.0-	5.0	5.0-	5.0	1.23	1.45	.215	1.230	1.454*	224	-089	-89	4275.7807		
2	23379.395	1	22652.035-	46031.465	-35	.	.	3.5-	2.5	.	.	.	1.185	0.800*	385	.	.	4276.0673		
	23378.947	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4276.1492	
2	23371.331	4	37362.265-	13990.952	18	1.5-	1.5	1.5-	1.5	1.222	1.735	.513	1.215	1.728	513	.	.	4277.5427		
	23371.010	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4277.6015	
1	23369.652	2	11840.715-	35210.360	7	.	.	3.0-	2.0	.	.	.39	0.811	1.180*	369	-230	-228	4277.8501		
2	23368.640	6	27338.500-	3969.846	-14	1.5-	2.5	1.5-	2.5	.87	1.67	.80	0.876	1.670	794	+	32	4278.0353		
2	23367.025	8	30865.395-	7498.364	-6	.	.	3.5-	2.5	1.32	1.32	.	1.323	1.321	7	-044	-50	4278.3310		
2	23364.774	7	32607.135-	9242.356	-5	4.5-	3.5	4.5-	3.5	1.055	1.375	.32	1.047	1.369	322	038	33	4278.7432	SO	
	23361.853	3				.	.	.	.	1.19	.	.24	.	.	.	.	.	.	4279.2782	SI 2JDG
	23360.747	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4279.4808	
2	23360.378	1	32602.725-	9242.356	9	.	.	4.5-	3.5	.	.	.	1.280	1.369*	89	.	.	4279.5484		
	23359.927	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4279.6310	
	23359.506	5				.	.	.	.	.	1.06	.12	.	.	.	-176	.	.	4279.7081	SI 2JDG
1	23356.605	4	25560.208-	2203.606	3	.	.	1.0-	1.0	1.50	1.50	.	1.500	1.495*	5	133	126	4280.2397		
2	23356.521	8	10436.770-	33793.295	-4	.	.	4.5-	4.5	.715	.795	.08	0.724	0.800	76	-345	-347	4280.2551		
2	23354.632	1	8709.640-	32064.280	-8	.	.	3.5-	3.5	.	.	.	0.308	1.090*	782	.	-213	4280.6013		
	23354.315	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4280.6594	
	23352.039	6				.	.	.	.	1.19	.	.35	.	.	.	-171	.	.	4281.0766	f SI2JDG
1	23351.534	9	27651.193-	4299.659	0	2.0-	2.0	2.0-	2.0	1.57	1.48	.09	1.570	1.482	88	-056	-40	4281.1692		
	23350.547	3				.	.	.	.	.	.	.	.	.	.	.	.	.	4281.3502	
2	23349.738	1	15641.100-	38990.840	-2	.	.	3.5-	4.5	.	.	.	1.040	1.105*	65	.	-235	4281.4985		
2	23348.086	5	30626.955-	7278.862	-7	4.5-	4.5	4.5-	4.5	1.055	1.545	.490	1.055	1.545	490	130	137	4281.8015		
1	23346.774	3	10486.922-	33833.699	-3	1.0-	2.0	1.0-	2.0	.350	.955	.605	0.355	0.930	575	-236	-255	4282.0421		
2	23345.725	1	37336.640-	13990.952	37	.	.	2.5-	1.5	.	.	.	1.207	1.728	521	.	.	4282.2345		
	23344.832	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4282.3983	
	23344.122	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4282.5286	
	23343.918	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4282.5660	
	23342.964	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4282.7410	
	23342.237	1				.	.	.	.	1.29	.	.17	.	.	.	.	.	.	4282.8744	f SI2JDG
1	23341.093	1	14912.011-	38253.110	-6	.	.	4.0-	4.0	.	.	.	0.496	0.920*	424	.	-48	4283.0843		
	23337.480	7H				.	.	.	.	.	.96	.20	.	.	.	-163	.	.	4283.7474	SPS02JDG
2	23336.355	4	27306.210-	3969.846	-9	2.5-	2.5	2.5-	2.5	1.05	1.67	.62	1.040	1.670*	630	.	100	4283.9539		
	23334.695	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4284.2587	
2	23334.132	0	31972.395-	8638.233	-30	.	.	4.5-	5.5	.	.	.	1.210	1.514*	304	.	.	4284.3621		
	23332.591	2				2.0-	3.0	.	.	.	.	.23	.	.	.	.	.	.	4284.6450	
	23328.950	2				4.5-	5.5	.	.	.	.	.37	.	.	.	.	.	.	4285.3138	SPJ5565Q
2	23326.552	5	31964.795-	8638.233	-10	6.5-	5.5	6.5-	5.5	1.19	1.52	.33	1.189	1.514	325	.	.	4285.7543		
	23325.964	3				.	.	.	.	.	.	.	.	.	.	.	.	.	4285.8623	
2	23325.704	0	19466.530-	42792.230	4	.	.	4.5-	3.5	.	.	.	1.151	0.900	251	.	.	4285.9101		
	23324.697	3				2.5-	3.5	.	.	.	.	.22	.	.	.	.	.	.	4286.0952	
	23324.273	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4286.1731	
	23322.369	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4286.5230	
	23321.631	1				.	.	.	.	.	.	.	.	.	.	.	.	.	4286.6586	
2	23321.213	1	38809.725-	15483.530	18	.	.	4.5-	3.5	.	.	.	1.110	1.057	53	.	.	4286.7355		
	23320.897	2				4.5-	4.5	.	.	1.39	1.195	.195	.	.	.	.	.	.	4286.7936	
	23318.921	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4287.1568	
2	23318.650	0	23272.420-	46591.055	15	.	.	2.5-	3.5	.	.	.	0.951	1.100	149	.	.	4287.2066		
2	23317.041	4	13013.685-	36330.720	6	5.5-	4.5	5.5-	4.5	.975	1.19	.215	0.950	1.160*	210	-358	-349	4287.5025		
2	23312.616	1	23312.615-	0.000	1	1.5-	0.5	1.5-	0.5	.	.	2.47	0.680	3.150*	2470	.	109	4288.3163		
	23311.975	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4288.4342	
	23311.416	0				.	.	.	.	.	.	.	.	.	.	.	.	.	4288.5371	
	23311.120	2				.	.	.	.	.	.	.	.	.	.	-085	.	.	4288.5915	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	J2 - J1	J2 - J1				J2 - J1	J2 - J1	J2 - J1	IS	IS			
2	23308.461	9	29026.425-	5717.976	12		2.5-	3.5	2.5-	3.5			.445	1.150	1.596	446	-114	-111	4289.0808		
2	23307.895	7	28809.965-	5502.060	-10		2.5-	1.5	2.5-	1.5	1.23	1.17	.06	1.230	1.169*	61		32	4289.1849		
	23307.394	3																	4289.2771		
	23306.925	0																	4289.3634		
	23306.507	0																	4289.4404		
	23304.045	2									1.06	1.06							4289.8935	SP	
	23303.133	1																	4290.0614		
2	23301.835	3	32544.185-	9242.356	6		.	.	3.5-	3.5				1.130	1.369	239		-79	4290.3004		
2	23300.320	4	28302.375-	5502.060	5		0.5-	1.5	0.5-	1.5	.81	1.18	.37	0.800	1.169	369	345	338	4290.5794		
2	23300.007	3	26535.775-	3235.770	2		0.5-	0.5	0.5-	0.5			.40	-0.071	0.299	370		61*	4290.6370		
1	23298.314	3	8768.139-	32066.452	1		2.0-	2.0	2.0-	2.0			.57	0.362	0.910*	548	-252	-252	4290.9488		
1	23297.317	4	37639.270-	14341.947	-6		2.0-	2.0	2.0-	2.0	1.04	.84	.20	1.020	0.852*	168	124	128	4291.1324		
2	23297.116	4	27266.960-	3969.846	2		.	.	3.5-	2.5				1.155	1.670	515		84	4291.1695		
2	23296.569	5	30794.930-	7498.364	3		1.5-	2.5	1.5-	2.5			.245	1.084	1.321	237	+	15	4291.2702	SI	
	23291.108	0																	4292.2764		
1	23290.449	0	16304.260-	39594.620	29*		.	.	4.0-	4.0				1.285	1.070	215		-121	4292.3979		
	23290.197	0																	4292.4443		
	23289.285	1									.95		.11						4292.6124	DJ1 2JD6	
2	23287.617	3	34013.940-	10726.322	-1		3.5-	4.5	3.5-	4.5			.275	1.121	1.391	270		74	4292.9199	SI	
2	23285.831	2	14295.565-	37581.395	1		3.5-	3.5	3.5-	3.5	.79	.75	.04	0.790	0.748	42		-112	4293.2491		
	23282.804	2									1.13									4293.8073	F
	23281.417	5									2.10								-126	4294.0631	fSI6070Q
	23281.079	3					2.0-	3.0			.89	1.12	.23							4294.1255	GQ
1	23278.404	0	16155.109-	39433.510	3		.	.	5.0-	4.0				0.948	0.925	23		-272	4294.6189		
2	23276.749	4	30775.140-	7498.364	-27		3.5-	2.5	3.5-	2.5			.19	1.099	1.321	222		-67	4294.9243		
1	23276.518	5	8768.139-	32044.652	5		2.0-	1.0	2.0-	1.0	.355	.795	.440	0.362	0.800	438	-166	-166	4294.9669		
1	23275.302	2	33047.830-	9772.532	4		1.0-	0.0	1.0-	0.0	1.205			1.207	0.000	0		22	4295.1913		
1	23274.410	3	14912.011-	38186.420	1		4.0-	5.0	4.0-	5.0			.46	0.496	0.952	456	-	-38	4295.3559	SI	
	23271.884	0																		4295.8222	
	23269.260	0																		4296.3066	
1	23267.711	4	31042.369-	7774.653	-5		4.0-	4.0	4.0-	4.0	1.15	1.46	.313	1.150	1.463	313	-	-50*	4296.5926		
2	23266.905	5	30765.285-	7498.364	-16		3.5-	2.5	3.5-	2.5	1.205	1.305	.100	1.190	1.321*	131		1	4296.7415		
1	23266.529	2	39012.195-	15745.648	-18		.	.	3.0-	3.0				1.080	1.145*	65			4296.8109		
	23264.093	1																		4297.2608	
2	23261.179	7	30759.570-	7498.364	-27		2.5-	2.5	2.5-	2.5			.105	1.220	1.321	101	153	152	4297.7992		
2	23260.329	4	12992.644-	36252.985	-12		2.5-	3.5	2.5-	3.5	.67	1.02	.35	0.643	1.004	361		-115	4297.9562		
2	23259.016	7	32501.390-	9242.356	-18		4.5-	3.5	4.5-	3.5			.185	1.190	1.369	179	089	67	4298.1989	SO	
1	23258.309	1	9386.801-	32645.106	4		.	.	5.0-	5.0				0.801	1.135	334		-250	4298.3295		
	23257.917	2																		4298.4020	
2	23256.618	2	15098.815-	38355.450	-17		.	.	1.5-	1.5				1.079	0.698	381		-340	4298.6420		
	23254.830	0																		4298.9633	
	23252.900	1									1.155									4299.3294	f TRIPL
	23252.301	1																		4299.4401	
1	23252.050	1	12351.522-	35603.582	-10		.	.	6.0-	6.0				0.995	1.070*	75		-181	4299.4866		
	23251.534	3											.77							4299.5820	DJ1 2JD6
	23250.604	2									1.90	1.90								4299.7540	
2	23250.238	4	8198.666-	31448.910	-6		2.5-	2.5	2.5-	2.5	.406	.799	.393	0.414	0.800	386		-637	4299.8216		
2	23248.724	1	40412.140-	17163.470	54		.	.	3.5-	4.5				1.170	1.200	30			4300.1017		
1	23246.171	2	12322.613-	35568.740	44		.	.	2.0-	2.0				1.036	1.040	4		-260	4300.5739	2LNS	
	23246.171	2									.36	.36								4300.5739	2LNS
1	23244.556	7H	9724.351-	32968.906	1		3.0-	4.0	3.0-	4.0	.445	1.12	.675	0.442	1.115	673	-193	-196	4300.8727	SI	
	23243.925	1B																		4300.9895	
1	23243.788	1B	16532.104-	39775.870	22		.	.	3.0-	4.0				0.300	0.985	685		2	4301.0148	C2	
1	23243.788	1B	15406.760-	38650.550	-2		.	.	1.0-	2.0				0.890	0.785	105		-175	4301.0148	C2	
1	23243.036	2	8768.139-	32011.173	2		.	.	2.0-	3.0				0.362	1.140*	778		-179	4301.1540		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	23240.855	3	6313.866-29554.716			5	4.0-	3.0	4.0-	3.0	.	.	.35	0.487	0.831	344	-174	-181	4301.5576	
	23237.004	0																	4302.2705	
1	23236.572	5	27536.236-4299.659			-5	3.0-	2.0	3.0-	2.0	1.36	1.48	.12	1.355	1.482	127		2	4302.3505	
	23234.529	0																	4302.7288	
	23232.583	2																	4303.0892	
2	23231.199	1	39976.890-16745.720			29	.	.	3.5-	2.5	.	.	.	1.170	1.671	501		286*	4303.3456	C2
2	23231.199	1	14295.565-37526.775			-11	.	.	3.5-	4.5	.	.	.	0.790	0.591	199		99	4303.3456	C2
2	23229.090	2	30727.440-7498.364			14	.	.	1.5-	2.5	.	.	.	1.208	1.321	113		56	4303.7363	
2	23228.024	0	21828.590-45056.650			-36	.	.	2.5-	2.5	.	.	.	0.990	1.030*	40			4303.9338	
	23225.625	3					3.5-	4.5			.	.	.32						4304.3784	JQ
	23225.121	0																	4304.4718	
2	23223.228	5	28941.215-5717.976			-11	2.5-	3.5	2.5-	3.5	.96	1.58	.62	0.968	1.596	628		-74	4304.8227	
1	23222.677	2	30997.335-7774.653			-5	5.0-	4.0	5.0-	4.0	1.20	1.46	.26	1.200	1.463*	263		-53	4304.9248	
	23222.194	1																	4305.0144	
1	23218.920	3C	16520.962-39739.870			12*	.	.	5.0-	6.0	.	.	.	0.736	1.140	404		-54	4305.6214	
1	23216.333	5	8768.139-31984.470			2	2.0-	3.0	2.0-	3.0	.360	1.090	.730	0.362	1.090	728		-094	4306.1012	
	23210.605	5									1.01	.	.15					-239	4307.1639	f S02J06
	23209.932	3					2.0-	1.0			.89	1.52	.63						4307.2888	6Q
2	23209.099	3	28927.075-5717.976			0	.	.	4.5-	3.5	.	.	.	1.040	1.596*	556		93*	4307.4434	
1	23204.190	0	9724.351-32928.540			1	.	.	3.0-	2.0	.	.	.	0.442	1.060*	618		-208	4308.3547	
	23203.942	1																	4308.4007	
	23203.542	1																	4308.4750	
	23199.699	1																	4309.1887	
	23196.190	1																	4309.8406	
	23195.771	3									1.57	.	.53					-154	4309.9184	f SI2J06
1	23194.172	4	37536.120-14341.947			-1	2.0-	2.0	2.0-	2.0	.	.	.175	1.030	0.852*	178		145	4310.2156	
1	23193.603	6	25397.206-2203.606			3	1.0-	1.0	1.0-	1.0	.77	1.49	.72	0.776	1.495	719		-15	4310.3213	
2	23192.497	4	27162.335-3969.846			8	.	.	1.5-	2.5	.	.	.63	1.046	1.670	624		-35	4310.5269	
1	23191.534	7	27491.196-4299.659			-3	2.0-	2.0	2.0-	2.0	1.34	1.48	.14	1.345	1.482	137		042	4310.7058	
1	23186.015	4	9386.801-32572.811			5	5.0-	5.0	5.0-	5.0	.795	1.00	.205	0.801	1.010*	209		-255	4311.7319	
	23177.973	2																	4313.2280	
2	23177.329	4	15178.115-38355.450			-6	0.5-	1.5	0.5-	1.5	-0.08	.71	.79	-0.085	0.698	783		-370	4313.3479	
2	23176.177	4	28894.140-5717.976			13	3.5-	3.5	3.5-	3.5	.	.	.57	1.009	1.596	587		4	4313.5623	
2	23172.336	7	32880.320-9707.980			-4*	5.5-	6.5	5.5-	6.5	1.23	1.50	.27	1.209	1.485	276		13	4314.2773	
2	23170.717	7	23170.720-0.000			-3	0.5-	0.5	0.5-	0.5	1.08	3.14	2.06	1.082	3.150*2068			166	4314.5787	
	23170.147	0																	4314.6849	
	23169.737	3																	4314.7612	
	23168.605	1																	4314.9720	
	23166.667	3																	4315.3330	
2	23165.584	2	34964.825-11799.241			0	4.5-	5.5	4.5-	5.5	.	.	.26	1.122	1.373	251		68	4315.5348	
2	23164.352	2	18152.580-41316.930			2	0.5-	1.5	0.5-	1.5	-0.51	.70	1.21	-0.510	0.700*1210				4315.7643	
	23162.801	1																	4316.0533	
2	23159.947	7	31798.195-8638.233			-15	4.5-	5.5	4.5-	5.5	1.27	1.50	.23	1.290	1.514*	224		073	4316.5852	
	23158.087	2																	4316.9319	
2	23157.531	4	32399.895-9242.356			-8	4.5-	3.5	4.5-	3.5	1.115	1.365	.250	1.110	1.369*	259		071	4317.0355	
1	23156.881	2	16532.104-39688.980			5	.	.	3.0-	4.0	.	.	.	0.300	0.980*	680			4317.1567	
1	23152.739	0	11840.715-34993.452			2	.	.	3.0-	4.0	.	.	.	0.811	1.213	402		-198	4317.9290	
1	23150.795	4	29295.313-6144.515			-3	4.0-	3.0	4.0-	3.0	1.27	1.47	.20	1.270	1.473*	203		8	4318.2916	
2	23147.789	6	30646.175-7498.364			-22	3.5-	2.5	3.5-	2.5	1.27	1.32	.05	1.272	1.321	49		24	4318.8524	
1	23147.088	2	32919.605-9772.532			15	1.0-	0.0	1.0-	0.0	1.483	.000		1.490	0.000*	0			4318.9832	
1	23141.738	4	35669.985-13528.246			-1	1.0-	1.0	1.0-	1.0	1.01	-0.59	1.60	1.010	-0.590*1600				4319.9817	
1	23141.081	3	8768.139-31909.212			8	2.0-	1.0	2.0-	1.0	.	.	.51	0.362	0.888	526		-65	4320.1044	
1	23140.739	2	16838.909-40029.640			8	.	.	6.0-	5.0	.	.	.	1.098	1.230	132		-270	4320.1682	
	23140.385	1																	4320.2343	
	23139.235	4									1.36	.	.35						4320.4490	f SI2J06

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	G6	G2	G1			G6	IS	IS
	23137.096	4									1.33		.45						4320.8485	DJO	
	23136.400	2									.		.						4320.9784		
	23133.713	0									.		.						4321.4803		
2	23131.794	5	30410.665-	7278.862	-9		4.5-	4.5	4.5-	4.5	1.11	1.53	.42	1.126	1.545	419	375	376*	4321.8388		
	23129.052	2									1.11		.10						4322.3512	f 2JD6	
	23128.087	0									.		.						4322.5316		
	23123.285	2									.		.						4323.4292		
	23123.047	2									.		.						4323.4737		
1	23122.749	3	13517.647-	36640.400	-4		2.0-	3.0	2.0-	3.0	.890	1.035	.145	0.892	1.035	143	-202	-200	4323.5295	PB	
2	23120.601	1	22838.570-	5717.976	7		.	.	3.5-	3.5	.	.	.	0.845	1.596	751		-36	4323.9311		
1	23112.354	2	10486.922-	33599.280	-4		1.0-	2.0	1.0-	2.0	.350	1.60	1.25	0.355	1.606	1251	-270	-274	4325.4740		
2	23111.973	3	31750.220-	8638.233	-14		5.5-	5.5	5.5-	5.5	1.180	1.515	.335	1.180	1.514	334			4325.5454		
	23110.674	1									.		.						4325.7885		
	23110.353	2									.		.						4325.8486		
	23110.037	0									.		.						4325.9077		
1	23108.793	3	8768.139-	31876.909	23		.	.	2.0-	2.0	.	.	.	0.362	0.000*	0		-215	4326.1406		
2	23108.201	6	34907.455-	11799.241	-13		6.5-	5.5	6.5-	5.5	1.09	1.36	.27	1.100	1.373*	273	127	123	4326.2514		
	23107.581	1									.		.						4326.3675		
	23106.416	0									.		.						4326.5856		
2	23105.277	1	14476.135-	37581.395	17		.	.	4.5-	3.5	.	.	.	1.060	0.748	312		-436*	4326.7989		
	23104.467	3									.		.						4326.9506		
2	23102.829	3	30381.705-	7278.862	-14		3.5-	4.5	3.5-	4.5	1.12	1.54	.42	1.109	1.545	436		-44	4327.2574		
	23100.402	2									.		.						4327.7121		
1	23099.799	6	16520.962-	39620.765	-4		5.0-	6.0	5.0-	6.0	.740	.965	.225	0.736	0.965	229	-056	-56	4327.8250		
1	23095.961	0	14292.176-	37389.145	-8		.	.	5.0-	6.0	.	.	.	0.970	1.085	115		-159	4328.3568		
1	23095.668	1	9386.801-	32482.465	4		5.0-	4.0	5.0-	4.0	.75	1.28	.53	0.801	1.330*	529	-348	-343	4328.5991		
	23094.827	1									.		.						4328.7568		
1	23093.887	0	16595.109-	39688.980	16		.	.	3.0-	4.0	.	.	.	0.999	0.980*	19			4328.9330		
1	23093.635	0	12159.465-	35253.102	-2		.	.	4.0-	5.0	.	.	.	0.844	1.110*	266		-277	4328.9802		
2	23091.979	4	22809.965-	5717.976	-10		2.5-	3.5	2.5-	3.5	1.25	1.59	.34	1.230	1.596*	366		12	4329.2907		
2	23090.551	5	32332.915-	9242.356	-8		4.5-	3.5	4.5-	3.5	1.12	1.39	.27	1.100	1.369*	269		-78	4329.5584		
1	23089.202	3	29233.723-	6144.515	-6		.	.	4.0-	3.0	.	.	.225	1.260	1.473*	213	094	95	4329.8114	PB	
1	23086.390	2	37428.345-	14341.947	-8		.	.	2.0-	2.0	.	.	.	1.330	0.852*	478			4330.3388		
1	23085.488	5	9724.351-	32809.844	-5		3.0-	4.0	3.0-	4.0	.	.	.465	0.442	0.900	458	-206	-214	4330.5080		
2	23085.088	7	13013.685-	36098.770	3		5.5-	4.5	5.5-	4.5	.94	1.03	.09	0.950	1.029	79	-067	-69	4330.5830		
1	23084.032	1	32263.305-	9179.262	-11		.	.	4.0-	5.0	.	.	.	1.158	1.454	296		-64	4330.7811		
2	23083.471	6	33809.795-	10726.322	-2		5.5-	4.5	5.5-	4.5	1.186	1.396	.210	1.180	1.391	211	090	95	4330.8864		
2	23082.171	4	32324.550-	9242.356	-23		3.5-	3.5	3.5-	3.5	.98	1.37	.39	0.975	1.369	394			4331.1303		
	23079.959	2									.		.						172	4331.5454	
1	23076.998	3	10486.922-	33563.924	-4		1.0-	1.0	1.0-	1.0	.350	.425	.075	0.355	0.430*	75	-269	-269	4332.1012		
	23073.648	1									.		.							4332.7302	
	23071.114	0									.		.							4333.2060	
	23070.557	1									.		.							4333.3107	
1	23070.317	2	16304.260-	39374.580	-3		.	.	4.0-	3.0	.	.	.	1.285	0.885	400			4333.3557		
	23065.426	1									.		.							4334.2746	
1	23063.149	4	33301.630-	10238.473	-8		5.0-	6.0	5.0-	6.0	.	.	.215	1.221	1.431	210	065	69	4334.7026	SI	
1	23062.585	1	16532.104-	39594.680	9*		.	.	3.0-	4.0	.	.	.	0.300	1.070	770		93	4334.8086		
2	23060.284	5	30339.150-	7278.862	-4		4.5-	4.5	4.5-	4.5	1.16	1.55	.390	1.154	1.545	391		111	4335.2411		
2	23058.490	3	33784.830-	10726.322	-18		4.5-	4.5	4.5-	4.5	.	.	.32	1.070	1.391	321			4335.5784		
2	23056.189	7	28774.175-	5717.976	-10		3.5-	3.5	3.5-	3.5	1.14	1.59	.45	1.140	1.596*	456	062	67	4336.0111		
2	23055.877	5	32763.860-	9707.980	-3		6.5-	6.5	6.5-	6.5	.	.	.275	1.210	1.485*	275			4336.0698		
1	23055.585	5	10486.922-	33542.506	2		1.0-	2.0	1.0-	2.0	.	.	.775	0.355	1.123	768		-226	4336.1245		
1	23054.031	2	9385.801-	32440.827	.5		.	.	5.0-	6.0	.	.	.	0.801	1.120*	319		-238	4336.4170		
2	23050.006	9U	25064.960-	2014.966	12		1.5-	1.5	1.5-	1.5	.58	1.885	1.30	0.580	1.881	1301	-099	-97	4337.1742		
	23047.614	1									.		.							4337.6244	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES		
	23046.510	0																				
	23044.771	3					4.0-	5.0														
1	23042.700	0	8768.139	-	31810.821	18	.	.	2.0-	2.0	.	.	.	0.362	0.865	503	.	-121		4337.8322	JQ SOQ	
	23036.455	1					.	.	.	.	.	.	.	.	.	.	.	.	.		4338.1595	
1	23036.287	1	6313.866	-	29350.139	14	.	.	4.0-	3.0	.	.	.	0.487	0.910	423	.	-187		4338.5494		
	23035.762	1					.	.	.	.	.	.	.	.	.	.	.	.	.		4339.7256	
1	23035.385	3	37377.330	-	14341.947	2	2.0-	2.0	2.0-	2.0	1.26	.85	.41	1.260	0.852*	408	129	128		4339.8561		
	23032.851	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4339.9272	
1	23032.402	0	12177.963	-	35210.360	5	.	.	1.0-	2.0	.	.	.	0.525	1.180*	655	.	-226		4340.4047		
	23031.493	1					.	.	.	.	.	.	.	.	.	.	.	.	.		4340.4893	
1	23031.120	1	9724.351	-	32755.472	-1	.	.	3.0-	4.0	.	.	.	0.442	1.005	563	.	-310		4340.6606		
1	23030.902	1	18046.108	-	41077.010	0	.	.	4.0-	3.0	.	.	.	0.694	1.100	406	.	-63		4340.7309		
2	23030.554	1	33756.860	-	10726.322	16	.	.	3.5-	4.5	.	.	.	1.272	1.391	119	.	-22		4340.7720		
2	23024.438	1	21828.590	-	44353.015	13	.	.	2.5-	2.5	.	.	.	0.990	0.920*	70	.			4340.8376		
1	23024.438	1	16595.109	-	39619.530	17*	.	.	3.0-	4.0	.	.	.	0.999	1.115	116	.			4341.9906	C2	
	23024.217	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4341.9906	C2
	23023.035	2					.	.	.	.	.	.	.	.	.	.	.	.	.		4342.0323	
	23021.219	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4342.2552	
	23020.431	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4342.5978	
	23019.154	1					.	.	.	.	.	.	.	.	.	.	.	.	.		4342.7464	
1	23018.741	0	13517.647	-	36536.330	8	.	.	2.0-	3.0	.	.	.	0.892	0.950*	58	.	-155		4342.9874		
1	23018.100	0	12351.522	-	35369.610	12	.	.	6.0-	5.0	.	.	.	0.995	1.120*	125	.	-189		4343.0653		
1	23047.623	1	9386.801	-	32404.416	8	.	.	5.0-	5.0	.	.	.	0.801	1.055	254	.	-159		4343.1862		
	23017.260	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4343.2762	
2	23016.199	1	17296.905	-	40313.110	-6	.	.	4.5-	4.5	.	.	.	0.494	1.010	516	.			4343.3447		
	23015.396	3					.	.	.	.	.	.	.	.	.	.	.	.	.		4343.5449	
2	23014.844	5	8198.666	-	31213.510	0	2.5-	3.5	2.5-	3.5	.40	1.04	.64	0.414	1.045	631	-485	-473		4343.6965	2398Q	
	23014.098	2					.	.	.	.	.	.	.	.	.	.	.	.	.		4343.8007	
	23010.886	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4343.9415	
	23010.687	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4344.5478	
2	23009.860	0	20063.650	-	43073.510	0	.	.	4.5-	4.5	.	.	.	1.049	0.950*	99	.	-106*		4344.5854		
	23008.279	2					.	.	.	.	.	.	.	.	.	.	.	.	.		4344.7416	
1	23006.872	2	32186.115	-	9179.262	19	.	.	4.0-	5.0	.	.	.	1.212	1.454	242	.	-93		4345.0401		
	23004.903	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4345.3059	
	23004.490	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4345.6778	
	23003.657	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4345.7558	
2	23003.071	5	16499.640	-	39502.705	6	3.5-	3.5	3.5-	3.5	.79	.92	.13	0.773	0.920*	147	.	-120		4345.9132		
1	23002.538	3	12351.522	-	35354.050	10	.	.	6.0-	7.0	.	.	.	0.995	0.000*	0	-158	-151		4346.0239		
1	23001.047	1	13726.661	-	36727.705	3	.	.	3.0-	3.0	.	.	.	1.150	0.905	245	.	-195		4346.1246		
2	22999.690	4	20073.840	-	43073.510	20	5.5-	4.5	5.5-	4.5	.79	.945	.155	0.790	0.950*	160	137	137*		4346.4063		
	22998.006	2H					.	.	.	.	.	.	.	.	.	.	.	.	.		4346.6628	
	22996.068	4H					.	.	.	.	.	.	.	.	.	.	.	.	.		4346.9811	DJO 2JDG
1	22994.578	3	9386.801	-	32381.372	7	5.0-	5.0	5.0-	5.0	.80	1.19	.39	0.801	1.190	389	-300	-301		4347.3474	SO	
	22993.647	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4347.6291	
	22993.085	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4347.8051	
1	22992.209	1	30766.862	-	7774.653	0	.	.	5.0-	4.0	.	.	.	0.950	1.463*	513	.	-75		4347.9114		
	22991.866	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4348.0771	
	22988.000	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4348.1419	
	22987.498	2					.	.	.	.	.	.	.	.	.	.	.	.	.		4348.8732	
2	22986.964	0	28838.570	-	51825.535	-1	.	.	3.5-	2.5	.	.	.	0.845	0.990*	145	.			4348.9682		
	22986.540	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4349.0692	
1	22985.344	0	13517.647	-	36502.980	11	.	.	2.0-	2.0	.	.	.	0.892	0.900*	8	.	-265		4349.1494		
2	22981.632	0	17532.937	-	40514.565	4	.	.	3.5-	2.5	.	.	.	1.238	0.800	438	.	-139*		4349.3757		
	22981.257	0					.	.	.	.	.	.	.	.	.	.	.	.	.		4350.0783	
	22977.765	1					.	.	.	.	.	.	.	.	.	.	.	.	.		4350.1492	
							.	.	.	.	.	.	.	.	.	.	.	.	.		4350.8104	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	22976.819	1	16532.104	-	39508.910	13	.	.	3.0-	3.0	.	.	.	0.300	0.870	570	.	.	4350.9895	
	22974.641	0																	4351.4020	
1	22971.514	3	12351.522	-	35323.031	5	6.0-	6.0	6.0-	6.0	.995	1.090	.095	0.995	1.090	95	-223	-224	4351.9943	
	22968.638	0																	4352.5298	
	22968.416	1																	4352.5813	
2	22967.747	9	8709.640	-	31677.390	-3	3.5-	2.5	3.5-	2.5	.303	.67	.37	0.308	0.675	367	-131	-127	4352.7081	
	22965.159	1																	4353.0091	
	22965.501	1					1.0-	2.0			.	.	.22						4353.1338	JQSI2LNS
	22965.501	1									.	.	.80						4353.1338	2392LNS
	22965.205	4									.	.	.80						4353.1897	DJO 2JDG
2	22962.975	1	14476.135	-	37439.105	5	.	.	4.5-	3.5	.	.	.	1.060	0.926	134	-291	-571*	4353.6127	
2	22962.670	1	36953.625	-	13990.952	-3	.	.	0.5-	1.5	.	.	.	0.920	1.728*	808			4353.6705	
	22960.376	0																	4354.1055	
2	22957.829	1	31596.070	-	8638.233	-8	.	.	6.5-	5.5	.	.	.	1.000	1.514	514		15*	4354.5886	
	22954.703	1																	4355.1816	
2	22953.185	0	22537.265	-	45490.434	16	.	.	5.5-	4.5	.	.	.	1.315	1.065	250			4355.4696	
	22952.157	1																	4355.6647	
2	22951.881	5	31590.115	-	8638.233	-1	4.5-	5.5	4.5-	5.5	1.057	1.517	.460	1.054	1.514	460	350	346	4355.7171	
2	22950.901	5	30229.760	-	7278.862	3	4.5-	4.5	4.5-	4.5	.	.	.47	1.075	1.545	470	094	94*	4355.9031	DJO
	22948.748	1H																	4356.3117	HAZY
2	22946.248	1C	26916.090	-	3969.846	4	.	.	2.5-	2.5	.	.	.	1.040	1.670*	630		55	4356.7864	DJO
1	22944.696	3	9724.351	-	32669.040	7	3.0-	3.0	3.0-	3.0	.	.	.55	0.442	1.000*	558	-180	-182	4357.0811	
1	22943.765	1	29088.272	-	6144.515	8	3.0-	3.0	3.0-	3.0	.	.	.46	1.005	1.473	468		-55	4357.2579	
	22940.867	2									.	.	.59						4357.8083	SO 2JDG
1	22939.717	4	32118.980	-	9179.262	-1	.	.	4.0-	5.0	.	.	.42	1.039	1.454	415	-068	-68	4358.0268	SI
2	22939.505	8	34738.755	-	11799.241	-9	6.5-	5.5	6.5-	5.5	1.27	1.38	.11	1.270	1.373	103		68	4358.0670	
	22935.635	1																	4358.8024	
1	22929.792	1	37271.740	-	14341.947	-1	2.0-	2.0	2.0-	2.0	1.115	.845	.27	1.115	0.852	263			4359.9131	
2	22928.934	0	37362.265	-	14433.351	20	.	.	1.5-	1.5	.	.	.	1.215	1.925	710			4360.0763	
	22927.919	0																	4360.2693	
2	22922.357	4	15641.100	-	38563.445	12	.	.	3.5-	2.5	.	1.04	.44	1.040	1.085*	45			4361.3273	SO 2JDG
2	22922.117	3	32630.100	-	9707.980	-3	5.5-	6.5	5.5-	6.5	1.08	1.48	.40	1.080	1.485*	405	107	107*	4361.3730	
1	22921.247	0	32100.500	-	9179.262	9	.	.	6.0-	5.0	.	.	.	1.126	1.454	328		-52	4361.5385	
	22920.861	0																	4361.6120	
2	22920.285	0	23272.420	-	46192.700	5	.	.	2.5-	3.5	.	.	.	0.951	0.950	1			4361.7216	
2	22919.754	0	28421.805	-	5502.060	9	.	.	2.5-	1.5	.	.	.	0.878	1.169	291		-25	4361.8227	
1	22918.653	1	13517.647	-	36436.294	6	.	.	2.0-	3.0	.	.	.	0.892	1.095	203		-188	4362.0322	
1	22918.269	2B	25121.896	-	2203.606	-21	.	.	1.0-	1.0	1.47	1.47		1.444	1.495	51		-40	4362.1053	
1	22918.182	1B	9386.801	-	32304.979	4	.	.	5.0-	4.0	.	.	.	0.801	0.990*	189		-298	4362.1219	
	22917.646	1																	4362.2239	DJ1
	22915.995	0											.15						4362.5382	
1	22915.333	4	6313.866	-	29229.190	9	4.0-	4.0	4.0-	4.0	.490	1.480	.990	0.487	1.480*	993	-398	-399	4362.6642	
	22910.370	1																	4363.6093	
	22907.856	0																	4364.0882	
	22907.331	1																	4364.1882	
1	22901.402	3	16532.104	-	39433.510	-4	3.0-	4.0	3.0-	4.0	.31	.95	.64	0.300	0.925	625	-063	-62	4365.3181	
1	22896.747	4	27195.404	-	4299.659	2	3.0-	2.0	3.0-	2.0	1.28	1.48	.20	1.282	1.482	200	031	46	4366.2056	
1	22892.623	2	29037.158	-	6144.515	-20	.	.	3.0-	3.0	.	.	.497	0.986	1.473	487		-70	4366.9921	
2	22890.659	6H	40054.100	-	17163.470	29	.	.	4.5-	4.5	.	.	.	1.160	1.200	40			4367.3668	239B
1	22890.452	9	6313.866	-	29204.308	10	4.0-	5.0	4.0-	5.0	.50	.91	.41	0.487	0.896	409	-212	-211	4367.4063	
1	22887.761	3	12322.613	-	35210.360	14	2.0-	2.0	2.0-	2.0	1.04	1.17	.13	1.036	1.180*	144	-228	-230	4367.9198	
1	22886.297	1	14737.782	-	37624.090	-5	3.0-	3.0	3.0-	3.0	.	.	.	0.815	1.150*	335		-216	4368.1992	
	22884.935	2																	4368.4592	
2	22883.333	4	30381.705	-	7498.364	-8	3.5-	2.5	3.5-	2.5	1.09	1.31	.22	1.109	1.321	212		-28	4368.7650	
	22879.940	1					0.5-	0.5			1.07	2.56	1.49						4369.4129	PB

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	22879.404	2	11840.715-34720.110			9	3.0-	4.0	3.0-	4.0	0.81	1.03	.22	0.811	1.030	219	-490	-488	4369.5153	
1	22875.031	3	16834.379-39709.460			-50*	5.0-	5.0	5.0-	5.0	.96	1.07	.111	0.961	1.070	109	-221	-218	4370.3506	
2	22868.978	6	31507.220-8638.233			-9	4.5-	5.5	4.5-	5.5	1.14	1.53	.39	1.130	1.514	384	-057	-62	4371.5074	
	22868.355	2									1.02								4371.6265	f
1	22866.202	5	15520.962-39387.160			4*	5.0-	6.0	5.0-	6.0	.725	1.018	.293	0.736	1.029	293	-074	-76	4372.0381	
	22865.067	1																	4372.2551	
2	22864.351	2	33052.825-10188.463			-11	0.5-	0.5	0.5-	0.5	1.20	2.42	1.22	1.242	2.402	1160		20*	4372.3921	
1	22862.868	0	12322.613-35185.490			-9	.	.	2.0-	1.0				1.036	0.905	131		-220	4372.6757	
1	22860.600	5	12351.522-35212.127			-5	6.0-	6.0	6.0-	6.0	.990	1.125	.135	0.995	1.130*	135	-153	-148	4373.1095	
	22853.323	1																	4374.5020	
1	22852.854	5	9724.351-32577.204			1	3.0-	4.0	3.0-	4.0	.45	.98	.53	0.442	0.980*	538	-270	-274	4374.5918	
	22842.613	0																	4376.5531	
	22840.495	0																	4376.9589	
2	22839.859	4	19277.180-42117.035			4	.	.	3.5-	2.5	.86	.	.	0.847	0.835	12	+	18*	4377.0808	f
1	22835.386	0	16595.109-39433.510			-15	.	.	3.0-	4.0	.	.	.	0.999	0.925	74		-233	4377.3631	
2	22837.144	0	34844.620-12007.503			27	.	.	1.5-	1.5	.	.	.	1.528	0.019	1547		259	4377.6012	
1	22836.414	4	11840.715-34677.111			18	3.0-	4.0	3.0-	4.0	.82	1.09	.27	0.811	1.080	269	-248	-238	4377.7411	
1	22833.990	0	12159.465-34993.452			3	.	.	4.0-	4.0	.	.	.	0.844	1.213	369		-197	4378.2059	
	22833.154	0																	4378.3662	
	22831.840	0																	4378.6182	
2	22831.068	1	34630.315-11799.241			-6	.	.	5.5-	5.5	.	.	.	1.155	1.373	218		50	4378.7662	
2	22825.969	5	30104.835-7278.862			-4	3.5-	4.5	3.5-	4.5	1.160	1.544	.384	1.159	1.545	386			4379.7444	
2	22825.140	9	24840.100-2014.966			6	1.5-	1.5	1.5-	1.5	1.02	1.88	.86	1.025	1.881*	856	293	298	4379.9035	
	22824.707	6																	4379.9866	
1	22824.086	2	9386.801-32210.885			2	.	.	5.0-	4.0	.	.	.	0.801	0.995	194		-99	4380.1057	
2	22823.474	3	21670.405-44493.850			29	.	.	1.5-	1.5	.	.	.	2.328	1.110*	1218			4380.2232	
	22819.456	1																	4380.9945	DJO
1	22818.225	5	12351.522-35169.790			-43	6.0-	6.0	6.0-	6.0	.995	1.120	.125	0.995	1.120*	125	-240	-244	4381.2308	DJO 2LNS
2	22818.225	6	10436.770-33254.995			0	4.5-	3.5	4.5-	3.5	.725	.975	.25	0.724	0.975	251	-345	-327	4381.2308	2LNS
	22817.847	0																	4381.3034	
1	22817.494	0	10486.922-33304.400			16	.	.	1.0-	0.0	.	.	.	0.355	0.000	0		-300	4381.3712	
1	22817.173	0	12159.465-34976.640			-2	.	.	4.0-	3.0	.	.	.	0.844	1.160*	316		-317	4381.4328	
	22816.389	0																	4381.5834	
2	22810.364	1	19466.530-42276.885			9	4.5-	4.5	4.5-	4.5	1.15	1.135	.015	1.151	1.120*	31			4382.7407	
1	22807.483	1	12159.465-34966.946			7	4.0-	4.0	4.0-	4.0	.844	1.025	.181	0.844	1.025	181	-283	-295	4383.2934	DJO
2	22806.053	7	33532.385-10726.322			-10	5.5-	4.5	5.5-	4.5	1.34	1.39	.05	1.341	1.391	50	090	26	4383.5692	SO
2	22804.084	0	31442.330-8638.233			-13	.	.	5.5-	5.5	.	.	.	1.170	1.514*	344			4383.9477	C2
1	22804.084	0	30578.731-7774.653			6	.	.	5.0-	4.0	.	.	.	1.209	1.463	254		38	4383.9477	C2
1	22801.416	0	13726.661-36528.070			7	3.0-	3.0	3.0-	3.0	.	.	.160	1.150	0.985	165			4384.4607	
	22800.750	4										1.085							4384.5887	SO
2	22796.810	9	26766.650-3969.846			6	2.5-	2.5	2.5-	2.5	1.06	1.68	.615	1.058	1.670	612	+	46	4385.3465	
2	22795.920	6	34595.165-11799.241			-4	6.5-	5.5	6.5-	5.5	.	.	.21	1.160	1.373*	213	302	295	4385.5178	
	22795.696	1B																	4385.5609	
	22795.559	1B																	4385.5872	
	22792.594	4					1.0-	1.0			.76	.24	.52						4386.1577	PB
2	22790.218	3	32032.585-9242.356			-11	.	.	4.5-	3.5	1.34	1.37	.03	1.335	1.369	34		-1	4386.6150	
2	22787.011	1	20291.680-43078.770			-79	.	.	1.5-	2.5	.	.	.	1.377	0.840*	537			4387.2324	
1	22786.392	1	16834.379-39620.765			6	.	.	5.0-	6.0	.	.	.	0.961	0.965	4	-258	-248	4387.3516	
2	22784.827	0	15778.634-38563.445			16	.	.	1.5-	2.5	.	.	.	1.133	1.085	48			4387.6529	C2
1	22784.827	0	16737.738-37522.600			15	.	.	3.0-	3.0	.	.	.	0.815	1.260*	445			4387.6529	C2
1	22783.584	1	11840.715-34624.299			0	.	.	3.0-	2.0	.	.	.	0.811	1.150*	339		-279	4387.8923	
1	22779.417	3	30554.070-7774.653			0	4.0-	4.0	4.0-	4.0	1.26	1.46	.20	1.260	1.463*	203	+	25	4388.6950	
	22771.292	0																	4390.2609	
1	22770.233	1	30544.891-7774.653			-5	3.0-	4.0	3.0-	4.0	.97	1.46	.49	0.958	1.463	505	-	-63	4390.4651	
	22769.811	0																	4390.5465	

C	HAVENUMBER	I	T2	-	T1	O-C	OSS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	22767.135	2																			
1	22766.632	1	12322.613-35088.705		-10	2.0-	1.0	2.0-	1.0	1.035	1.380	.345	1.036	1.380	344				4391.0626		
1	22761.837	7	28906.355- 6144.515		-3	3.0-	3.0	3.0-	3.0	1.22	1.47	.25	1.230	1.473	243	60	60		4391.2657	IS*	
1	22758.133	4	9724.351-32482.465		19			3.0-	4.0				0.442	1.330*	888		-339		4392.0846		
2	22757.926	5	28259.990- 5502.060		-4	1.5-	1.5	1.5-	1.5	1.26	1.17	.09	1.263	1.169	94	157	163		4392.7995		
2	22757.695	7	8198.666-30956.365		-4	2.5-	2.5	2.5-	2.5	.405	.650	.245	0.414	0.646	232	-473	-472		4392.8394		
2	22756.971	1	11504.095-34261.065		1			3.5-	4.5				0.859	0.920	61		-501		4392.8840		
2	22753.965	4	14295.565-37049.535		-5	3.5-	2.5	3.5-	2.5	.81	.75	.06	0.790	0.730	60	+	16		4393.0238		
2	22752.312	9	30031.180- 7278.862		-6	3.5-	4.5	3.5-	4.5	1.25	1.54	.29	1.250	1.545	295	044	45		4393.6042		
2	22750.862	5	28252.945- 5502.060		-23	0.5-	1.5	0.5-	1.5	.91	1.17	.26	0.920	1.169	249		10		4393.9234		
	22748.192	1																	4394.2034		
1	22747.006	3	12159.465-34906.470		1	4.0-	5.0	4.0-	5.0	.82	.91	.09	0.844	0.925	81	-175	-177		4394.7192		
1	22744.632	5	15074.958-37819.580		10*	7.0-	7.0	7.0-	7.0	1.095	1.110	.015	1.097	1.110*	13	-141	-140		4394.9483		
1	22743.617	2	32982.090-10238.473		0			5.0-	6.0				0.000	1.431*	0		-29*		4395.4071		
	22743.032	2																	4395.6032		
1	22740.706	1	28935.208- 6144.515		13	2.0-	3.0	2.0-	3.0			.55	0.912	1.473	561	-	-65		4395.7163		
2	22739.258	9	8709.640-31448.910		-12	3.5-	2.5	3.5-	2.5	.304	.795	.491	0.308	0.800	492	-297	-296		4396.1659		
1	22735.969	1	16532.104-39268.050		23			3.0-	4.0				0.300	1.140*	840				4396.4458		
	22732.373	0																	4397.0818		
2	22730.738	0	33457.050-10726.322		10			3.5-	4.5				1.002	1.391	389		-50		4397.7774		
2	22730.310	0	22537.265-45267.550		25			5.5-	4.5				1.315	1.045	270				4398.0938		
2	22730.016	5	31972.395- 9242.356		-23	4.5-	3.5	4.5-	3.5	1.200	1.365	.165	1.210	1.369*	159				4398.1766		
1	22729.239	0	30503.896- 7774.653		-4			5.0-	4.0				0.000	1.463*	0		-54		4398.2335		
2	22728.105	5	17296.905-40025.010		0	4.5-	3.5	4.5-	3.5	.49	.90	.41	0.494	0.900	406	037	48		4398.3838		
	22725.958	2																	4398.6033		
1	22724.599	5	30499.250- 7774.653		2	4.0-	4.0	4.0-	4.0	1.14	1.46	.32	1.150	1.463*	313	-	-25*		4399.0188		
2	22720.928	0	15235.771-37956.685		14			0.5-	1.5				1.791	0.904	887		-59		4399.2819		
	22720.410	0																	4399.9927		
1	22719.847	0	31899.095- 9179.262		14			4.0-	5.0				1.380	1.454	74		-58		4400.0930		
1	22718.709	3	12351.522-35070.230		1			6.0-	5.0			.09	0.995	0.869	126	-145	-144		4400.2021	SI	
1	22716.890	4	9386.801-32103.687		4	5.0-	4.0	5.0-	4.0	.80	1.04	.24	0.801	1.040	239	-193	-193		4400.4225		
	22715.097	1																	4400.7748		
2	22713.507	1	39876.970-17163.470		7			4.5-	4.5				1.115	1.200	85				4401.1222		
2	22709.220	2	25944.980- 3235.770		10	1.5-	0.5	1.5-	0.5	1.54	.30	1.24	1.550	0.299	1251		132*		4401.4303		
1	22708.186	2	11840.715-34548.900		1			3.0-	2.0	.81	.84	.03	0.811	0.850*	39		-162		4402.2612		
	22707.840	1				4.0-	4.0					.21							4402.4617		
1	22705.169	6	22705.158- 0.000		11			1.0-	0.0	.000	.000		-0.020	0.000*	0	-	-1		4402.5288	J3535Q	
1	22702.715	0	14025.007-36727.705		17	4.0-	3.0	4.0-	3.0	.98	.93	.05	0.975	0.905	70	-147	-194		4403.0467		
2	22700.105	7	26669.945- 3969.846		6	1.5-	2.5	1.5-	2.5	1.35	1.675	.325	1.350	1.670	320	083	78		4403.5226		
2	22698.296	5	15657.156-38355.450		2	2.5-	1.5	2.5-	1.5	.99	.69	.30	1.000	0.698	302	-094	-96		4404.0289		
1	22695.646	9R	6313.866-29009.483		29	4.0-	4.0	4.0-	4.0	.48	.70	.22	0.487	0.695	208	-169	-170		4404.3799		
2	22695.404	6	32403.385- 9707.980		-1	5.5-	6.5	5.5-	6.5	1.145	1.485	.340	1.145	1.485	340				4404.8942		
2	22694.899	6	30193.265- 7498.364		-2			1.5-	2.5	1.37	1.32	.05	1.364	1.321	43	+	37		4404.9412		
	22694.499	1																	4405.0392		
	22690.672	2								.70		.46							4405.1168		
2	22689.913	0	41451.460-18761.580		33			5.5-	5.5				1.280	1.296	16	049	49*		4405.8598	f SO2J0G	
2	22685.940	9	24700.905- 2014.966		1	0.5-	1.5	0.5-	1.5	2.04	1.88	.16	2.025	1.881	144		61		4406.0072		
2	22685.338	3	32393.315- 9707.980		3	6.5-	6.5	6.5-	6.5			.33	1.150	1.485*	335		83*		4406.7788		
1	22684.229	3	8768.139-31452.362		6	2.0-	1.0	2.0-	1.0	.36	.85	.49	0.362	0.852	490	-079	-79		4406.8958		
	22683.431	0																	4407.1112		
2	22682.728	0	41444.280-18761.580		28			5.5-	5.5				1.065	1.296	231				4407.2663		
	22682.472	0																	4407.4029		
	22680.678	0B																	4407.4526		
1	22680.555	0B	14737.788-37418.345		-2			3.0-	2.0				0.815	0.932	117		-216		4407.8012		
	22679.657	0																	4407.8252		
																			4407.9997		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS			OBS			TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2 - J1	G2	G1	G6	G2	G1	G6	IS	IS		
	22679.156	0																4408.0971	
	22676.237	0																4408.6645	
	22675.233	0																4408.8597	
	22674.979	1																4408.9091	
1	22671.890	5	22671.890-	0.000	0	1.0-	0.0	1.0-	0.0	.60	.000		0.599	0.000	0	107	107	4409.5098	
2	22669.180	3	37362.265-	14693.090	5	1.5-	0.5	1.5-	0.5	1.21	.815	.40	1.215	0.840	375			4410.0370	
2	22663.263	0	21048.190-	43711.415	38	.	.	2.5-	3.5	.	.	.	1.030	0.955*	75			4411.1884	
	22662.632	0																4411.3112	
2	22661.918	0	24341.940-	47003.820	38	.	.	4.5-	3.5	.	.	.	1.310	0.935	375			4411.4502	
	22660.613	1H																4411.7042	
2	22656.554	1	25556.740-	48213.315	-21	.	.	4.5-	3.5	.	.	.	0.976	1.040*	64			4412.4946	
2	22654.783	4	33331.120-	10726.322	-10	5.5-	4.5	5.5-	4.5	1.15	1.39	.24	1.152	1.391	239	128	124	4412.8386	
	22652.643	1																4413.2565	
1	22645.101	6	8768.139-	31413.230	10	2.0-	3.0	2.0-	3.0	.36	.75	.39	0.362	0.742	380	-128	-128	4414.7263	
	22642.640	3				3.5-	4.5			.	.	.26						4415.2062	J4555QSI
	22641.737	0																4415.3823	
	22641.094	0																4415.5077	
	22639.979	2																4415.7251	
	22639.465	0																4415.8254	
1	22638.762	1	11840.715-	34479.473	4	.	.	3.0-	4.0	.	.	.	0.811	0.944	133	-205	-201	4415.9625	
2	22637.470	2	33363.790-	10726.322	2	.	.	3.5-	4.5	.	.	.	1.078	1.391	313		29	4416.2145	
2	22630.864	0B	15098.815-	37729.665	14	.	.	1.5-	2.5	.	.	.	1.079	1.050*	29		-558	4417.5037	239 C2
1	22630.639	3	9386.801-	32017.434	6	5.0-	4.0	5.0-	4.0	.80	1.02	.22	0.801	1.020*	219	-245	-244	4417.5476	
1	22625.510	1	9724.351-	32349.853	8	3.0-	2.0	3.0-	2.0	.442	.787	.345	0.442	0.000*	0	-270	-272	4418.5490	
1	22625.122	0	14912.011-	37537.100	33	4.0-	3.0	4.0-	3.0	.	.	.	0.496	1.070*	574			4418.6248	
2	22620.942	8	10436.770-	33057.710	2	4.5-	3.5	4.5-	3.5	.708	.845	.137	0.724	0.857	133	-124	-129	4419.4413	
2	22616.491	5	29895.355-	7278.862	-2	4.5-	4.5	4.5-	4.5	1.15	1.54	.39	1.150	1.545	395	070	76	4420.3111	
	22611.537	0																4421.2795	
1	22610.801	1	17554.704-	40165.495	10	.	.	8.0-	7.0	.	.	.	1.170	1.120*	50		-256	4421.4235	
	22610.655	1																4421.4501	
	22610.407	1																4421.5005	
2	22609.274	5	29383.135-	7278.862	1	3.5-	4.5	3.5-	4.5	1.16	1.56	.40	1.140	1.545*	405	144	144*	4421.7221	
2	22608.604	6	23110.650-	5502.060	14	1.5-	1.5	1.5-	1.5	.90	1.17	.27	0.899	1.169	270	045	60	4421.8531	
2	22606.023	2	33332.350-	10726.322	-5	4.5-	4.5	4.5-	4.5	1.072	1.391	.319	1.072	1.391	319	+	17*	4422.3580	DJO
1	22605.413	0	28749.920-	6144.515	8	.	.	2.0-	3.0	.	.	.	1.480	1.473*	7	+	32	4422.4773	
	22604.339	2														144		4422.6875	
2	22603.959	1	30102.315-	7498.364	8	.	.	2.5-	2.5	.	.	.	1.158	1.321	163		74	4422.7618	
1	22602.833	0	14025.007-	36627.825	15	.	.	4.0-	4.0	.	.	.	0.975	0.980	5		-181	4422.9821	
	22602.389	0																4423.0690	DJO
2	22600.502	4	24615.450-	2014.966	18	1.5-	1.5	1.5-	1.5	1.005	1.880	.875	1.011	1.881	870	117	119	4423.4383	
	22593.347	1																4424.8392	
1	22592.295	6	6313.866-	28906.150	11	4.0-	5.0	4.0-	5.0	.49	1.10	.61	0.487	1.105	618	-220	-219	4425.0452	
	22589.964	1																4425.5019	
1	22589.447	1	11840.715-	34430.160	2	.	.	3.0-	3.0	.	.	.	0.811	0.000*	0			4425.6031	
	22584.681	1														+		4426.5371	DJ1
1	22583.308	1	9386.801-	31970.100	9	.	.	5.0-	4.0	.	.	.29	0.801	1.100*	299	-194	-199	4426.8062	DJ1
1	22530.653	0	9724.351-	32304.979	25	.	.	3.0-	4.0	.	.	.	0.442	0.990*	548		-294	4427.3267	
	22579.915	0																4427.4714	
2	22578.979	0	20121.145-	42700.125	-1	.	.	2.5-	2.5	.	.	.	0.710	0.815*	105			4427.6550	
	22578.320	0																4427.7842	
2	22576.819	1	15778.634-	33355.450	3	.	.	1.5-	1.5	.	.	.	1.133	0.698	435		-95	4428.0786	
	22576.127	0																4428.2143	
1	22575.856	3	12159.465-	34735.314	7	4.0-	3.0	4.0-	3.0	.85	.89	.04	0.844	0.899	55	-258	-257	4428.2675	
2	22571.855	1	19277.180-	41849.030	5	.	.	3.5-	2.5	.	.	.	0.847	1.080	233			4429.0524	
1	22570.916	0	14737.788-	37308.707	-3	.	.	3.0-	4.0	.	.	.	0.815	1.040	225		-227	4429.2367	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	22570.260	0																		4429.3654	
1	22562.192	3		14853.317	-	37415.495	14	4.0-	5.0	4.0-	5.0	.81	1.00	.19	0.786	0.980	194	-188	-182	4430.9493	
2	22559.740	1		12992.644	-	35552.335	-1	.	.	2.5-	3.5	.	.	.	0.643	0.903	260		-274	4431.4309	
1	22557.840	3		11840.715	-	34398.550	5	3.0-	4.0	3.0-	4.0	.81	.87	.06	0.811	0.870*	59	-217	-218	4431.8042	DJ1
	22556.637	2																		4432.1585	DJ1
2	22555.843	2		31798.195-		9242.356	4	.	.	4.5-	3.5	.	.	.08	1.290	1.369*	79		72	4432.1966	DJ1
1	22554.957	2		12351.522	-	34906.470	9	.	.	6.0-	5.0	.	.	.05	0.995	0.925	70	-188	-183	4432.3707	
1	22553.089	1		15074.958	-	37628.055	-8	.	.	7.0-	7.0	.	.	.	1.097	1.140*	43		-181	4432.7378	
1	22552.550	2		9336.801	-	31939.345	6	.	.	5.0-	6.0	.	.	.	0.801	1.200*	399		-334	4432.8438	
2	22551.762	6		32259.765-		9707.980	-23*	5.5-	6.5	5.5-	6.5	1.19	1.49	.30	1.180	1.485*	305	124	108	4432.9987	
	22550.367	0																		4433.2729	
2	22549.644	0		17296.905	-	39846.560	-11	.	.	4.5-	4.5	.	.	.	0.494	1.021	527			4433.4150	
1	22548.126	2		9724.351	-	32272.487	-10	.	.	3.0-	3.0	.	.	.	0.442	0.000*	0		-294	4433.7135	
1	22547.833	8		24751.439-		2203.606	0	1.0-	1.0	1.0-	1.0	.650	1.495	.845	0.647	1.495	848		7	4433.7711	
1	22545.077	3		30319.724-		7774.653	6	3.0-	4.0	3.0-	4.0	1.01	1.46	.45	1.010	1.463	453	-101	-104	4434.3131	
2	22542.825	0		29821.685-		7278.862	2	.	.	5.5-	4.5	.	.	.	1.005	1.545	540		70	4434.7561	
2	22541.483	0		22541.470-		0.000	13	.	.	1.5-	0.5	.	.	.	0.420	3.150*	2730		117	4435.0202	
2	22539.085	5		17296.905	-	39835.970	20	4.5-	3.5	4.5-	3.5	.48	.85	.37	0.494	0.850*	356	076	86	4435.4920	
	22537.621	0																		4435.7801	
1	22536.682	3		12351.522	-	34828.198	6	.	.	6.0-	5.0	.	.	.	0.995	1.070	75	-204	-198	4435.9650	
	22535.859	0																		4436.1270	
1	22535.428	4		32773.905	-	10238.473	-4	5.0-	6.0	5.0-	6.0	1.14	1.43	.29	1.150	1.431*	281	098	97	4436.2118	
2	22535.135	1		31173.370-		8638.233	-2	.	.	6.5-	5.5	.	.	.	1.160	1.514*	354		50*	4436.2695	
	22533.736	0																		4436.5449	
2	22531.051	4		29809.915-		7278.862	-2	3.5-	4.5	3.5-	4.5	1.085	1.565	.480	1.068	1.545	477		-28*	4437.0736	
	22529.254	3																		4437.4275	
	22524.792	1																	170	4438.3066	
2	22524.636	1		28026.690-		5502.060	6	.	.	2.5-	1.5	.	.	.	1.320	1.169*	151		150	4438.3373	
1	22520.679	6H		6313.866-		28834.535	10	4.0-	5.0	4.0-	5.0	.47	.96	.49	0.487	0.978	491	-148	-152	4439.1172	
2	22514.497	7		31152.740-		8638.233	-10	5.5-	5.5	5.5-	5.5	1.27	1.55	.28	1.240	1.514*	274			4440.3361	
1	22511.543	5		12159.465	-	34670.995	13	4.0-	5.0	4.0-	5.0	.84	1.01	.17	0.844	1.010*	166	-210	-211	4440.9188	
2	22508.833	3		26478.685-		3969.846	-6	.	.	3.5-	2.5	.	.	.	1.045	1.670	625		166	4441.4534	
2	22507.839	9		28225.815-		5717.976	0	3.5-	3.5	3.5-	3.5	1.20	1.59	.39	1.200	1.596*	396		-5	4441.6496	
2	22503.868	1		8709.640	-	31213.510	-2	.	.	3.5-	3.5	.	.	.	0.308	1.045	737		-132	4442.4334	
1	22503.496	5		14912.011	-	37415.495	12	4.0-	5.0	4.0-	5.0	.51	.99	.48	0.496	0.980	484	-071	-85	4442.5068	
	22501.024	0																		4442.9949	
2	22500.837	0		12992.644	-	35493.485	-4	.	.	2.5-	3.5	.	.	.	0.643	0.931	288		-247	4443.0318	
1	22500.253	0		13517.647	-	35017.900	5	.	.	2.0-	1.0	.	.	.	0.892	0.910	18		-235	4443.1461	
1	22499.791	2		8768.139	-	31267.919	11	2.0-	3.0	2.0-	3.0	.37	1.09	.72	0.362	1.080	718	-115	-117	4443.2384	
2	22497.249	2		31739.610-		9242.356	-5	2.5-	3.5	2.5-	3.5	.	.	.20	1.170	1.369*	199	+	17	4443.7404	
	22496.559	0																		4443.8767	
	22495.267	0						2.0-	1.0			.65	1.45	.80						4444.1320	
2	22491.187	1		16499.640	-	38990.840	-13	3.5-	4.5	3.5-	4.5	.75	1.08	.33	0.773	1.105	332		-183	4444.9382	
2	22489.445	3		8198.666	-	30688.110	1	2.5-	2.5	2.5-	2.5	.41	1.10	.69	0.414	1.110*	696			4445.2825	
	22488.219	0																		4445.5248	
	22486.334	0																		4445.8975	
2	22480.094	2		27982.155-		5502.060	-1	2.5-	1.5	2.5-	1.5	.	.	.65	0.520	1.169*	649		-73	4447.1316	
1	22479.949	6		6313.866-		28793.800	15	4.0-	3.0	4.0-	3.0	.49	1.10	.61	0.487	1.083	596	-285	-287	4447.1603	
	22479.044	0																		4447.3393	
	22478.321	0																		4447.4824	
	22477.626	0																		4447.6199	
2	22474.363	7		29753.225-		7278.862	0	3.5-	4.5	3.5-	4.5	1.105	1.547	.442	1.103	1.545	442	050	67	4448.2656	
2	22473.846	5		10436.770	-	32910.615	1	4.5-	3.5	4.5-	3.5	.715	.845	.130	0.724	0.845	121	-174	-178	4448.3680	
	22463.918	0																		4450.3340	
	22462.374	0																		4450.6399	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	22459.993	2H						4.0-	5.0	.65	1.32	.67						4451.1117	JQ
	22452.723	2																4452.5530	
2	22452.114	1	25358.470-47810.565	19									1.443	1.160	283			4452.6737	DJ1
1	22449.742	8	24653.345-2203.606	3		1.0-	1.0	1.0-	1.0	.85	1.50	.65	0.860	1.495*	635	3		4453.1442	PB
1	22442.928	3	6313.856-28756.769	25		4.0-	5.0	4.0-	5.0	.48	1.16	.68	0.487	1.165	678	-269	-271	4454.4963	
1	22441.622	2	10486.922-32928.540	4		1.0-	2.0	1.0-	2.0			.70	0.355	1.060*	705	-198	-198	4454.7555	
1	22435.824	6	26735.491-4299.659	-8		2.0-	2.0	2.0-	2.0	1.05	1.48	.43	1.062	1.482	420	071	77	4455.9067	
1	22433.693	0	9356.801-31820.494	0				5.0-	4.0				0.801	1.240	439		-308	4456.3300	
2	22431.800	8	29710.665-7278.862	-3		3.5-	4.5	3.5-	4.5	1.14	1.56	.42	1.100	1.545*	445	-079	-80	4456.7061	
1	22430.508	4	8768.139-31193.642	5		2.0-	3.0	2.0-	3.0	.37	1.08	.71	0.362	1.070	708	-117	-116	4456.9628	
1	22426.577	5	6313.866-28740.433	10		4.0-	3.0	4.0-	3.0	.49	.98	.49	0.487	0.970	483	-260	-263	4457.7440	
	22424.731	0																4458.1110	
1	22421.376	2	28565.887-6144.515	4		2.0-	3.0	2.0-	3.0	.91	1.47	.56	0.911	1.473	562		-118	4458.7781	
2	22415.618	2	37904.140-15488.530	8		3.5-	3.5	3.5-	3.5			.22	1.275	1.057	218		271*	4459.9235	
1	22409.011	6	12351.522-34760.532	1		6.0-	6.0	6.0-	6.0	.98	1.15	.17	0.995	1.140*	145	-177	-175	4461.2384	
	22408.078	0																4461.4242	
	22407.724	0																4461.4947	
	22406.553	2				3.0-	2.0			1.02	1.12	.10						4461.7278	JQ
1	22405.678	2	8768.139-31173.814	3		2.0-	1.0	2.0-	1.0	.36	.45	.09	0.362	0.450*	88	-173	-180	4461.9021	
	22405.351	0																4461.9672	
	22399.815	0																4463.0700	
	22393.994	1																4464.2301	
	22393.759	0																4464.2770	
	22393.604	0																4464.3079	
1	22389.698	4	12351.522-34741.198	22				6.0-	5.0				0.995	1.070	75	-225	-213	4465.0867	SO
	22386.337	0																4465.7571	
1	22384.442	0	14292.176-36676.620	-2				5.0-	4.0				0.970	1.150*	180		-354	4466.1351	
	22383.580	0																4466.3071	
	22383.392	0																4466.3447	
	22381.790	2				2.0-	3.0					.62					-222	4466.6643	
2	22381.575	3	29879.945-7498.364	-6		2.5-	2.5	2.5-	2.5			.29	1.026	1.321	295		99	4466.7073	
1	22381.019	0	12159.465-34540.469	15				4.0-	3.0				0.844	0.888	44		-262	4466.8182	
	22380.825	0																4466.8569	
1	22379.339	2	9724.351-32103.687	3		3.0-	4.0	3.0-	4.0			.60	0.442	1.040	598	-188	-189	4467.1535	
2	22377.235	5	27879.305-5502.060	-10		0.5-	1.5	0.5-	1.5	.81	1.18	.37	0.802	1.169	367	+	62	4467.5736	
2	22372.401	9	24387.360-2014.966	7		1.5-	1.5	1.5-	1.5	.945			0.955	1.881	926	271	268	4468.5389	
2	22369.641	5	32558.100-10188.463	4		0.5-	0.5	0.5-	0.5	1.37	2.40	1.03	1.370	2.402*	1032	052	58	4469.0902	
2	22368.986	0	18720.075-41089.060	1				3.5-	2.5				1.060	0.935	125		-191	4469.2211	
	22367.404	0																4469.5372	
	22364.143	0				0.5-	0.5			.49	.82	.33						4470.1889	
	22362.693	0																4470.4788	
2	22359.481	1	13192.903-35552.385	-1		2.5-	3.5	2.5-	3.5	.37	.89	.52	0.372	0.903	531		-278	4471.1210	
1	22359.016	1	14853.317-37212.310	23				4.0-	5.0				0.786	0.990	204		-178	4471.2140	
	22357.866	0																4471.4440	
1	22356.747	1	30131.388-7774.653	12		3.0-	4.0	3.0-	4.0			.245	1.232	1.463	231		-89	4471.6678	
2	22355.094	0	12992.644-35347.740	-2				2.5-	3.5				0.643	1.195	552		-163	4471.9984	
2	22351.146	9	24366.120-2014.966	-8		0.5-	1.5	0.5-	1.5	2.42	1.88	.54	2.420	1.881*	539	-137	-140	4472.7884	
2	22350.893	7	26320.735-3969.846	4		2.5-	2.5	2.5-	2.5				1.050	1.670	620		5	4472.8390	
	22349.294	0																4473.1590	
	22347.168	2																4473.5846	DJO
	22344.225	2				2.0-	3.0			.87	1.19	.32				188		4474.1738	
	22342.160	3C				4.5-	5.5					.30						4474.5873	SO 3LNS
	22342.160	3C																4474.5873	3LNS
1	22342.160	3C	9724.351-32066.452	59				3.0-	2.0				0.442	0.910*	468		-252	4474.5873	3LNS
1	22339.853	2	14025.007-36364.850	10		4.0-	4.0	4.0-	4.0			.13	0.975	1.080*	105	-206	-215	4475.0494	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 -	J1	J2 -	J1				G2	G1	DG	G2	G1			DG	IS	IS
	22335.459	0																	4475.1224	
	22333.030	0																	4475.2023	
	22337.774	0																	4475.4659	
2	22335.655	5	29615.520-	7278.862	-3	4.5-	4.5	4.5-	4.5	1.16	1.56	.40	1.160	1.545	385	107	112	4475.6902	ISQ	
1	22335.657	0	14292.176-	36627.825	8	. . .	. . .	5.0-	4.0				0.970	0.980	10		-179	4475.8901	
1	22333.632	3	26633.286-	4299.659	5	1.0-	2.0	1.0-	2.0	1.12	1.48	.36	1.124	1.482	358	-127	-127	4476.2960		
2	22333.250	1	16499.640-	38832.875	15	. . .	. . .	3.5-	4.5				0.773	0.995	222		-184	4476.3725	
2	22327.993	5	27830.060-	5502.060	-7	. . .	. . .	2.5-	1.5	1.25			1.216	1.169	47	+	36	4477.4265	f SI
2	22327.114	3	20073.840-	42400.935	19	5.5-	4.5	5.5-	4.5	.790	1.005	.215	0.790	1.000*	210			4477.6028		
1	22326.419	1	28470.960-	6144.515	-26	. . .	. . .	2.0-	3.0				1.104	1.473	369		-119	4477.7422	
1	22326.121	0	36668.045-	14341.947	23	. . .	. . .	3.0-	2.0				1.158	0.852	306		222	4477.8019	
	22325.967	0																	4477.8328	
1	22324.654	1	14853.317-	37177.970	1	. . .	. . .	4.0-	5.0				0.786	1.125	339	-149	-155	4478.0962	
2	22322.878	2	24337.845-	2014.966	-1	. . .	. . .	2.5-	1.5				0.900	1.881	981		101	4478.4525	
1	22321.757	7	32560.225-	10238.473	5	5.0-	6.0	5.0-	6.0	1.23	1.43	.20	1.230	1.431*	201	-090	-90	4478.6774		
	22321.330	0																	4478.7630	
2	22320.640	0	17733.709-	40054.350	-1	. . .	. . .	0.5-	0.5				-0.510	0.390*	900		-183*	4478.9015	
1	22320.013	0	12159.465-	34479.473	5	. . .	. . .	4.0-	4.0				0.844	0.944	100		-200	4479.0273	
	22319.634	1B																	4479.1034	239Q
1	22319.490	3B	12351.522-	34670.995	17	. . .	. . .	6.0-	5.0				0.995	1.010*	15	-216	-217	4479.1323	
2	22318.630	2	37807.135-	15488.530	25	. . .	. . .	3.5-	3.5				1.090	1.057*	33		220*	4479.3049	CQ
	22315.157	0																	4480.0020	
1	22314.185	1	15074.958-	37389.145	-2	. . .	. . .	7.0-	6.0				1.097	1.085	12		-168	4480.1972	
	22314.012	0																	4480.2319	
2	22311.547	5	29809.915-	7498.364	-4	3.5-	2.5	3.5-	2.5			.26	1.068	1.321	253		-12*	4480.7269	SO	
1	22310.835	2	9386.801-	31697.633	3	. . .	. . .	5.0-	4.0				0.801	1.187	386	-116	-122	4480.8699	
	22309.627	3																	4481.1125	
2	22308.710	6	28026.690-	5717.976	-4	2.5-	3.5	2.5-	3.5	1.32	1.58	.26	1.320	1.596*	276	133	130	4481.2967		
	22308.476	1																	4481.3437	
1	22302.906	2	28447.410-	6144.515	11*	4.0-	3.0	4.0-	3.0			.42	1.025	1.473	448	137	136*	4482.4629	SO	
	22301.312	0																	4482.7833	
1	22300.326	2B	14912.011-	37212.310	27	4.0-	5.0	4.0-	5.0				0.496	0.990	494	-065	-81	4482.9815	SI	
	22295.670	1								1.06	1.06							-258	4483.9177	
1	22293.039	8	9724.351-	32017.434	6	3.0-	4.0	3.0-	4.0	.45	1.02	.57	0.442	1.020*	578	-239	-240	4484.4369		
	22292.215	0																	4484.6127	
	22291.483	0																	4484.7599	
	22290.451	0																	4484.9616	
	22289.747	0																	4485.1092	
2	22288.858	5	13809.910-	36098.770	-2	4.5-	4.5	4.5-	4.5	.65	1.03	.38	0.657	1.029	372	-	-41	4485.2881		
	22287.541	1								1.23	1.23							-238	4485.5532	SP
	22286.648	0																	4485.7329	
	22286.362	1																	4485.7905	
1	22282.463	0	17081.874-	39364.330	7	. . .	. . .	4.0-	5.0				1.217	1.130	87		-197	4486.5754	
	22281.653	2W										1.05							4486.7385	SO
1	22281.030	1	16520.962-	38801.970	22*	. . .	. . .	5.0-	4.0				0.736	1.090*	354		-58	4486.8640	
	22280.323	0																	4487.0064	
	22279.375	0																	4487.1973	
	22279.179	0																	4487.2368	
	22278.422	0																	4487.3592	
1	22276.281	4	14853.317-	37129.590	8	4.0-	5.0	4.0-	5.0	.81	1.03	.22	0.786	1.010	224	-119	-119	4487.8205		
1	22274.072	2	8768.139-	31042.204	7	2.0-	3.0	2.0-	3.0	.37	1.01	.64	0.362	1.010	648	-086	-81	4488.2656		
	22273.668	0																	4488.3470	
	22273.353	2				2.0-	3.0			.91	1.04	.13				137			4488.4105	GQ
1	22272.989	0	18963.921-	41236.870	40	. . .	. . .	4.0-	4.0				1.251	1.020	231			4488.4839	
1	22272.637	0	26572.296-	4299.659	0	. . .	. . .	2.0-	2.0				1.014	1.482	468		19	4488.5548	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	22272.234	0															4488.6360	
1	22269.890	1	16532.104-38801.970	24*	3.0-	4.0	3.0-	4.0	.	.	.81	0.300	1.090*	790		-62	4489.1085	
1	22265.967	2	14912.011-37177.970	8	.	.	4.0-	5.0	.	.	.	0.496	1.125	629		-53	4489.8994	
2	22264.174	4	27982.155- 5717.976	-5	2.5-	3.5	2.5-	3.5	.52	1.59	1.07	0.520	1.596*	1076	-103	-93	4490.2610	
	22257.717	0															4491.5637	
	22257.501	0															4491.6072	
1	22257.001	5	35785.250-13528.246	-3	1.0-	1.0	1.0-	1.0	.53	-0.59	1.12	0.530-0.590*	1120	+	47*	4491.7081		
2	22256.812	7	31964.795- 9707.980	-3	.	.	6.5-	6.5	.	.	.296	1.189	1.485	296	-		4491.7463	ISQ
2	22254.857	4	29753.225- 7498.364	-4	.	.	3.5-	2.5	.	.	.	1.103	1.321	218	099	83	4492.1409	DJ1
	22253.486	0															4492.4176	
2	22252.226	0	36945.320-14693.090	-4	.	.	1.5-	0.5	.	.	.	1.030	0.840	190			4492.6720	
1	22251.504	3	12177.963-34429.460	7	1.0-	2.0	1.0-	2.0	.51	.93	.42	0.525	0.930*	405	-220	-221	4492.8178	
	22249.452	0															4493.2322	
	22248.610	1															4493.4022	
2	22246.730	9	8709.640-30956.365	5	3.5-	2.5	3.5-	2.5	.318	.656	.338	0.308	0.646	338	-129	-131	4493.7819	ISQ
1	22245.764	5	9724.351-31970.100	15	3.0-	4.0	3.0-	4.0	.44	1.10	.66	0.442	1.100*	658	-201	-195	4493.9771	
	22240.576	2															4495.0254	
	22239.801	3				6.0-	7.0				.19						4495.1820	JQ
1	22239.079	2	12159.465-34398.550	-6	4.0-	4.0	4.0-	4.0	.845	.880	.035	0.844	0.870*	26	-222	-217	4495.3280	
	22235.564	2H															4496.0386	HAZY
	22235.038	0															4496.1450	
1	22234.502	0	16155.109-38389.560	51	.	.	5.0-	4.0	.	.	.	0.948	1.070	122		-206*	4496.2534	
2	22231.809	7	26201.645- 3969.846	10	2.5-	2.5	2.5-	2.5	1.04	1.67	.63	1.036	1.670	634	121	121	4496.7980	
1	22231.366	0	10486.922-32718.268	20	.	.	1.0-	1.0	.	.	.	0.355	0.600*	245		-191	4496.8876	
2	22229.825	0	36663.170-14433.351	6	.	.	1.5-	1.5	.	.	.	1.635	1.925	290			4497.1994	
	22229.201	0															4497.3256	
	22228.076	0															4497.5532	
	22226.927	0															4497.7857	
	22225.557	0															4498.0630	
1	22223.997	3	28368.512- 6144.515	0	3.0-	3.0	3.0-	3.0	.83	1.47	.64	0.830	1.473*	643	+	38	4498.3787	
2	22220.276	0	17242.750-39463.005	21	.	.	2.5-	1.5	.	.	.	1.200	1.420*	220		-58*	4499.1320	
1	22217.586	2	14912.011-37129.590	7	4.0-	5.0	4.0-	5.0	.	.	.52	0.496	1.010	514	-	-22	4499.6768	
	22215.649	2				5.5-	5.5				.30						4500.0691	
2	22212.246	5	31454.580- 9242.356	22	3.5-	3.5	3.5-	3.5	1.18	1.37	.19	1.180	1.369*	189	+045	89	4500.7585	DJO 2LNS
2	22212.246	5	29710.665- 7498.364	-55	3.5-	2.5	3.5-	2.5	1.11	1.33	.22	1.100	1.321*	221		-64	4500.7585	SO 2LNS
	22208.177	0															4501.5832	
	22206.391	1															4501.9453	
2	22205.818	5	17296.905-39502.705	18	4.5-	3.5	4.5-	3.5	.51	.94	.43	0.494	0.920*	426	146	148	4502.0614	
1	22202.887	5B	12159.465-34362.360	-8	4.0-	5.0	4.0-	5.0	.84	1.12	.28	0.844	1.120*	276	-159	-157	4502.6557	
	22201.041	0															4503.0301	
	22200.149	3				0.5-	1.5		-0.40	1.14	1.54						4503.2111	
1	22197.951	0	15074.958-37272.921	-12	.	.	7.0-	8.0	.	.	.	1.097	1.175	78		-177	4503.6570	
1	22197.598	0	38473.945-16276.332	-15	.	.	3.0-	2.0	.	.	.	1.020	1.880*	860		162	4503.7286	
2	22192.617	3	26162.460- 3969.846	3	1.5-	2.5	1.5-	2.5	.71	1.67	.96	0.710	1.670*	960		109	4504.7395	
	22192.351	2															4504.7935	
2	22191.745	9	24206.690- 2014.966	21	1.5-	1.5	1.5-	1.5	.885	1.885	1000	0.863	1.881	1018	-069	-40	4504.9165	
	22188.337	0															4505.6084	
	22188.052	0															4505.6663	
	22186.874	0															4505.9055	
1	22184.457	0	16155.109-38339.550	16*	.	.	5.0-	4.0	.	.	.	0.948	1.070*	122		-198	4506.3964	C2
1	22184.457	0	12322.613-34507.044	26	.	.	2.0-	1.0	.	.	.	1.036	1.020*	16		-250	4506.3964	C2
	22183.747	1															4506.5407	
1	22183.094	8	6313.866-28496.950	10	4.0-	4.0	4.0-	4.0	.49	.81	.32	0.487	0.810	323	-193	-194	4506.6733	
	22182.712	0															4506.7509	
	22182.144	0															4506.8663	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	22179.079	3	31358.339	-	9179.262	2	.	.	4.0-	5.0	.	.	.	1.155	1.454	299	-075	-76	4507.4892		
2	22178.432	6	29457.315	-	7278.862	-21	4.5-	4.5	4.5-	4.5	1.245	1.56	.32	1.230	1.545	315		22*	4507.6207	2 LNS	
2	22178.432	6	27680.460	-	5502.060	32	2.5-	1.5	2.5-	1.5	1.32	1.16	.16	1.310	1.169*	141		1*	4507.6207	2 LNS	
1	22176.331	1	22176.323	-	0.000	8	1.0-	0.0	1.0-	0.0	1.20	.000	.	1.210	0.000*	0		-31	4508.0477	PB	
	22174.760	1																		4508.3671	
2	22172.593	0	40934.150	-	18761.580	23	.	.	5.5-	5.5	.	.	.	1.165	1.296	131			4508.8077		
1	22169.153	2	15405.760	-	37575.920	-7*	1.0-	2.0	1.0-	2.0	.86	1.21	.35	0.890	1.220*	330		-219	4509.5074		
2	22168.652	1H	13013.685	-	35182.315	22	5.5-	4.5	5.5-	4.5	.92	.	.	0.950	1.000	50		-181*	4509.6093	f	
1	22167.975	0	16304.260	-	38472.240	-5*	.	.	4.0-	3.0	.	.	.	1.285	1.050*	235			4509.7470		
2	22167.478	0	32893.805	-	10726.322	-5	.	.	4.5-	4.5	.	.	.	0.980	1.391*	411		131	4509.8481		
2	22163.949	7	30802.205	-	8638.233	-23	4.5-	5.5	4.5-	5.5	1.18	1.55	.37	1.160	1.514*	354		-072	4510.5662		
2	22162.021	0	35088.345	-	13726.318	-6	.	.	2.5-	2.5	.	.	.	0.965	0.784	181		397*	4510.9586		
	22158.773	0									.96	.96	.							4511.6198	
2	22154.838	0	13192.903	-	35347.740	1	.	.	2.5-	3.5	.	.	.	0.372	1.195	823		-167	4512.4212		
2	22154.010	4	32380.320	-	10726.322	12*	.	.	5.5-	4.5	.	.	.	1.209	1.391	182		+	37	4512.5898	
2	22152.590	7	30790.830	-	8638.233	-7	5.5-	5.5	5.5-	5.5	1.175	1.515	.240	1.175	1.514	339	069	73	4512.8791		
1	22150.205	0	31922.720	-	9772.532	17	.	.	1.0-	0.0	.	.	.	1.278	0.000	0		17*	4513.3650		
1	22149.037	5	9386.801	-	31535.835	3	5.0-	5.0	5.0-	5.0	.80	1.02	.22	0.801	1.020	219		-300	-298	4513.6030	
	22148.752	0																		4513.6611	
2	22145.500	0	17073.340	-	39218.825	15	.	.	1.5-	0.5	.	.	.	0.576	1.610*	1034		-127	4514.3240		
	22142.500	2					4.0-	5.0					.25							4514.9356	5060 Q
	22136.333	0									1.45	1.45	.							4516.1934	
1	22133.526	0	31312.780	-	9179.262	8	.	.	4.0-	5.0	.	.	.265	1.189	1.454	265		-28	4516.7662		
	22129.254	0									.93	.	.34					-232		4517.6382	fDJ02JDG
2	22123.598	0	16499.640	-	38623.240	-2	.	.	3.5-	3.5	.	.	.	0.773	0.640*	133			4518.7931		
2	22122.926	1H	29621.300	-	7498.364	-10	1.5-	2.5	1.5-	2.5	1.04	1.31	.27	1.045	1.321	276		80*	4518.9304		
1	22120.254	1	39692.853	-	17572.608	9	3.0-	2.0	3.0-	2.0	1.04	.55	.49	1.025	0.555	470		17*	4519.4763		
	22117.498	0																		4520.0394	
	22117.025	0																		4520.1361	
	22116.168	0																		4520.3113	
	22114.182	4					0.0-	1.0			.000	1.495	.					-080		4520.7172	
	22112.051	7					6.0-	6.0				.19	.					-135		4521.1529	6565Q2LN
2	22112.051	7	27830.060	-	5717.976	-33	2.5-	3.5	2.5-	3.5	1.22	1.60	.38	1.216	1.596	380		16	4521.1529	2LNS	
2	22110.027	3	27828.005	-	5717.976	-2	.	.	4.5-	3.5	.	.	.	1.410	1.596*	186		79	4521.5668	SO	
2	22109.428	4	31351.800	-	9242.356	-16	4.5-	3.5	4.5-	3.5	.	.	.245	1.120	1.369*	249	151	137	4521.6893	SO	
1	22103.881	1	12177.963	-	34281.845	-1	1.0-	2.0	1.0-	2.0	.50	.83	.33	0.525	0.850*	325		-241	-241	4522.8240	
2	22100.791	1	26070.615	-	3969.846	22	.	.	3.5-	2.5	.	.	.	1.119	1.670	551		40	4523.4564		
2	22096.754	1	11504.095	-	33600.850	-1	.	.	3.5-	2.5	.	.	.	0.859	1.263	404		-454	4524.2828		
1	22096.149	4	9724.351	-	31820.494	6	3.0-	4.0	3.0-	4.0	.44	1.24	.80	0.442	1.240	798		-303	-304	4524.4067	
1	22058.642	0	35616.875	-	13528.246	13	.	.	1.0-	1.0	.	.	.	1.000	-0.590*	1590			4525.9444		
1	22035.645	1	31858.170	-	9772.532	7	1.0-	0.0	1.0-	0.0	1.33	.000	.	1.335	0.000	0		166	4526.5586		
2	22081.930	1	16362.000	-	38443.925	5	.	.	4.5-	4.5	.	.	.	1.050	1.020*	30		-33	4527.3201		
2	22030.510	5	27798.480	-	5717.976	6	3.5-	3.5	3.5-	3.5	1.06	1.59	.53	1.060	1.596*	536	064	68	4527.6113		
	22079.622	3																		4527.7934	DJO
1	22065.552	4	28210.060	-	6144.515	7	2.0-	3.0	2.0-	3.0	.873	1.470	.597	0.865	1.473	608		-079	-81	4530.6805	
	22065.077	1H											.56							4530.7781	DJ1 2LNS
1	22065.077	1H	9386.801	-	31451.814	64	.	.	5.0-	4.0	.	.	.	0.801	1.080	279		-139	4530.7781	2LNS	
2	22063.813	3	16499.640	-	38563.445	8	3.5-	2.5	3.5-	2.5	.790	1.105	.315	0.773	1.085	312		-	4531.0376		
2	22051.427	0	36494.740	-	14433.351	38	1.5-	1.5	1.5-	1.5	1.470	1.925	.455	1.470	1.925	455			4531.5277		
1	22054.114	5	31233.379	-	9179.262	-3	4.0-	5.0	4.0-	5.0	1.09	1.45	.36	1.090	1.454	364		-064	-79	4533.0303	
1	22051.939	1	11840.715	-	33892.650	4	.	.	3.0-	3.0	.	.	.	0.811	1.060	249		-220	4533.4774		
	22049.845	4H									.31	.31	.							4533.9080	
	22049.259	5					5.0-	5.0			1.08	1.46	.38							4534.0285	
1	22046.939	4	6313.866	-	28360.802	3	.	.	4.0-	3.0	.	.	.40	0.487	0.887	400		-118	-122	4534.5056	
2	22046.574	1	13809.910	-	35856.485	-1	.	.	4.5-	3.5	.	.	.	0.657	1.025	368		-278	4534.5807		

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	22046.039	3	14912.011-36953.090	10*	.	.	.	4.0-	5.0	.	.	.	.	.51	0.496	1.000	504	-098	-98	4534.6804	DJ1
2	22044.478	1	20073.840-42118.305	13	.	.	.	5.5-	4.5	.	.	.	.	.	0.790	1.040*	250	.	54	4535.0118	
1	22042.624	1	18147.975-40190.580	19	.	.	.	3.0-	2.0	.	.	.	.	.	1.049	0.920	129	.	.	4535.3933	
2	22042.232	1	31750.220- 9707.930	-8	5.5-	6.5	5.5-	6.5	.	.	.	.	.	.	1.180	1.485	305	.	.	4535.4739	
2	22038.966	9	22038.950- 0.000	16	0.5-	0.5	0.5-	0.5	.	.	.	.346	3.152	2806	0.344	3.150	2806	-087	-94	4536.1461	
2	22035.160	0	14295.565-36330.720	5	.	.	.	3.5-	4.5	.	.	.	.	.	0.790	1.160*	370	.	-345	4536.9296	C2
1	22035.160	0	14692.549-36727.705	4	.	.	.	2.0-	3.0	.	.	.	.	.	0.292	0.905	613	.	-194	4536.9296	C2
2	22032.369	3	31274.745- 9242.356	-20	2.5-	3.5	2.5-	3.5	1.20	1.37	.17	.	.	.	1.200	1.369*	169	.	49*	4537.5043	
	22026.929	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4538.6250	
	22022.422	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4539.5538	
2	22021.538	0	27523.600- 5502.060	-2	.	.	.	0.5-	1.5	.	.	.	.	.	0.940	1.169	229	.	47	4539.7361	
	22020.243	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4540.0030	
	22017.421	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4540.5850	
1	22016.507	0	9386.801-31403.302	6	.	.	.	5.0-	5.0	.	.	.	.	.	0.801	1.205	404	.	-299	4540.7735	
	22015.341	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4541.0140	
	22011.253	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4541.8573	
	22007.299	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4542.6734	
	21999.562	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4544.2710	
	21998.604	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4544.4689	
	21997.412	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4544.7152	
	21994.864	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4545.2417	
2	21994.281	4	31702.260- 9707.980	1	6.5-	6.5	6.5-	6.5	.	.	.	.	.	.43	1.050	1.485*	435	+	4	4545.3621	
	21991.205	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4545.9979	
1	21990.920	0	29765.568- 7774.653	5	.	.	.	3.0-	4.0	.	.	.	.	.	1.162	1.463	301	.	-50*	4546.0568	
2	21988.779	2C	39152.255-17163.470	-6	.	.	.	4.5-	4.5	.	.	.	.	.	1.187	1.200	13	140	.	4546.4995	DJ1HAZY
	21987.463	1			.	.	.	.	.	.	.	.	.	.	.	.	.	141	.	4546.7716	
2	21985.581	2	33784.830-11799.241	-8	4.5-	5.5	4.5-	5.5	1.08	1.375	.30	.	.	.	1.070	1.373	303	.	.	4547.1608	
2	21979.140	0	23738.900-45718.025	15	.	.	.	2.5-	3.5	.	.	.	.	.	0.679	1.065	386	.	.	4548.4934	
2	21978.471	0	8709.640-30688.110	1	.	.	.	3.5-	2.5	.	.	.	.	.78	0.308	1.110*	802	.	.	4548.6319	
	21976.635	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4549.0119	
2	21975.156	4	25944.980- 3969.846	22	1.5-	2.5	1.5-	2.5	1.56	1.69	.13	.	.	.	1.550	1.670	120	.	106*	4549.3180	
1	21974.577	1	16520.962-38495.570	-31	.	.	.	5.0-	5.0	.	.	.	.	.	0.736	1.085	349	.	29	4549.4379	
1	21973.292	1	9724.351-31697.633	10	.	.	.	3.0-	4.0	.	.	.	.	.74	0.442	1.187	745	.	-118	4549.7040	
1	21967.974	2	14853.317-36821.290	1	.	.	.	4.0-	5.0	.	.	.	.	.38	0.786	1.162	376	-206	-215	4550.8054	
	21967.521	3			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4550.8992	
2	21965.984	3	32154.455-10188.463	-8	0.5-	0.5	0.5-	0.5	1.97	2.40	.43	.	.	.	1.970	2.402*	432	.	.	4551.2177	
2	21964.265	6	27466.315- 5502.060	10	1.5-	1.5	1.5-	1.5	1.79	1.17	.62	.	.	.	1.793	1.169	624	164	168	4551.5739	
1	21961.970	3	12351.522-34313.475	17	6.0-	6.0	6.0-	6.0	.995	1.035	.040	.	.	.	0.995	1.030*	35	-160	-155	4552.0495	
1	21959.231	0	12322.613-34281.845	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.036	0.850*	186	.	-245	4552.6173	
	21957.092	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4553.0608	
1	21955.147	7	24158.741- 2203.606	12	2.0-	1.0	2.0-	1.0	1.25	1.49	.24	.	.	.	1.240	1.495*	255	-115	-112	4553.4642	
1	21954.435	0	15424.387-37378.815	7	.	.	.	3.0-	2.0	.	.	.	.	.	1.106	0.964	142	.	-198	4553.6118	
	21953.219	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4553.8541	
	21948.159	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4554.9140	
1	21947.927	0	12159.465-34107.378	14	4.0-	3.0	4.0-	3.0	.84	1.16	.32	.	.	.	0.844	1.160*	316	.	-227	4554.9621	
2	21946.557	1	11504.095-33450.655	-3	3.5-	2.5	3.5-	2.5	.84	.90	.06	.	.	.	0.859	0.941	82	.	-469	4555.2464	SOGQ
2	21944.283	0	16499.640-38443.925	-2	.	.	.	3.5-	4.5	.	.	.	.	.	0.773	1.020	247	.	7	4555.7185	
	21943.642	2			0.5-	0.5	.	.	1.73	-0.515	2.24	.	.	.	.	.	.	.	.	4555.8516	JQ
1	21938.041	1C	14853.317-36791.380	-22	4.0-	5.0	4.0-	5.0	.82	1.05	.23	.	.	.	0.786	1.025	239	.	.	4557.0147	HAZY
	21927.080	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4559.2928	
1	21925.801	0	14025.007-35950.800	8	.	.	.	4.0-	3.0	.	.	.	.	.	0.975	1.005	30	.	.	4559.5587	
1	21925.200	3	14912.011-36837.190	21*	4.0-	5.0	4.0-	5.0	.53	.995	.46	.	.	.	0.496	0.965	469	051	.	4559.6837	
	21922.264	0			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4560.2944	
2	21918.105	3C	39081.580-17163.470	-5	.	.	.	4.5-	4.5	1.21	1.195	.015	.	.	1.207	1.200	7	234	236	4561.1597	
	21917.303	1			.	.	.	.	.	1.13	1.13	.	.	.	.	.	.	.	.	4561.3266	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES			
		21910.591	0																		4562.7240			
		21909.989	0																			4562.8493		
2		21909.511	0	35635.830	-	13726.318	-1	.	.	2.5-	2.5	.	.	.	1.165	0.784	381	+			4562.9489			
1		21909.272	1	14912.011	-	36821.290	-7	.	.	4.0-	5.0	.	.	.59	0.496	1.162	666		-118		4562.9986			
		21908.305	0																			4563.2001		
1		21907.357	0	8768.139	-	30675.497	-1	.	.	2.0-	2.0	.36	.375	.015	0.362	0.375	13		-182		4563.3975			
1		21894.590	1	14025.007	-	35919.595	2	4.0-	5.0	4.0-	5.0	.98	1.12	.14	0.975	1.120*	145		-85		4566.0585	SI		
1		21891.875	6	9385.801	-	31278.667	9	5.0-	5.0	5.0-	5.0	.80	1.01	.21	0.801	1.010*	209	-111	-113		4566.6248			
1		21888.794	3	29663.455	-	7774.653	-8	3.0-	4.0	3.0-	4.0	.	.	.23	1.232	1.463	231	-081	-74		4567.2676			
2		21888.086	4	31596.070	-	9707.980	-4	6.5-	6.5	6.5-	6.5	.	.	.485	1.000	1.485	485		20*		4567.4154			
2		21885.200	0	42207.525	-	20322.349	24	.	.	6.5-	6.5	.	.	.	1.140	1.314	174		249		4568.0177			
1		21884.320	0	15424.387	-	37308.707	0	.	.	3.0-	4.0	.	.	.	1.106	1.040	66		-221		4568.2014			
1		21882.574	2	12159.465	-	34042.040	-1	4.0-	4.0	4.0-	4.0	.84	.80	.035	0.844	0.806	38	-137	-149		4568.5659			
1		21879.380	3C	14912.011	-	36791.380	11	4.0-	5.0	4.0-	5.0	.537	1.06	.52	0.496	1.025	529		-		4569.2328			
1		21877.140	0	16595.109	-	38472.240	9*	.	.	3.0-	3.0	.	.	.	0.999	1.050*	51				4569.7767			
		21876.776	0																			4570.5134	SI JQ	
1		21873.250	2	9386.801	-	31260.046	5	5.0-	6.0	5.0-	6.0	.79	1.20	.41	0.801	1.210*	409	-380	-379		4572.6350	HAZY		
1		21863.101	1H	31042.369	-	9179.262	-6	.	.	4.0-	5.0	.	.	.	1.150	1.454	304		-53*		4572.7980			
		21862.322	1H																			4572.8597		
1		21862.027	3	32100.500	-	10238.473	0	6.0-	6.0	6.0-	6.0	1.125	1.430	.305	1.126	1.431	305	-053	-53		4574.1435			
		21855.891	2																			4574.2957		
		21855.164	0																			4574.4464		
		21854.444	0																			4574.4803		
1		21854.282	0	14737.788	-	36592.070	0	.	.	3.0-	3.0	.	.	.	0.815	1.300	485	-238	-238		4574.6817	4LNS		
		21853.320	2																			4574.6817	4LNS	
		21853.320	2																			4574.6817	4LNS	
2		21853.320	2	32041.795	-	10188.463	-12	.	.	1.5-	0.5	.	.	1.42	0.981	2.402	1421		-134		4574.6817	4LNS		
2		21853.320	3	31095.675	-	9242.356	1	.	.	2.5-	3.5	.	.	.18	1.170	1.369*	199		65		4574.7803	4LNS		
2		21852.849	0	35579.170	-	13726.318	-3	.	.	2.5-	2.5	.	.	.	1.190	0.784*	406		313*		4575.8717			
2		21847.637	2	11504.095	-	33351.730	2	.	.	3.5-	2.5	.89	.	.045	0.859	0.800*	59		-449		4576.9275	DJ02JD6		
		21842.597	2H									1.01	.	1.05								4577.6732	SI JQ	
		21839.039	2					4.0-	5.0					SHL					-256			4578.2201		
2		21836.430	5	27338.500	-	5502.060	-10	1.5-	1.5	1.5-	1.5	.87	1.18	.31	0.876	1.169	293	+	59		4578.3053			
1		21836.024	3	29610.675	-	7774.653	2	4.0-	4.0	4.0-	4.0	1.03	1.46	.43	1.020	1.463*	443		-18		4578.4120			
1		21835.515	1	14692.549	-	36528.070	-6	.	.	2.0-	3.0	.	.	.	0.292	0.985	693				4578.4894			
		21835.146	0																			4578.5919		
1		21834.657	3	27979.161	-	6144.515	11	.	.	2.0-	3.0	.	.	.	1.186	1.473	287	-066	-90		4578.7479			
		21833.913	0																			4578.8536		
		21833.409	0																			4579.7355		
2		21829.205	8	25064.960	-	3235.770	15	1.5-	0.5	1.5-	0.5	.59	.30	.29	0.580	0.299	281	-072	-78		4579.8599			
1		21828.612	1	12177.963	-	34006.573	2	1.0-	0.0	1.0-	0.0	.48	.000	.	0.525	0.000	0		-341		4580.2359			
		21826.815	0																			4580.6714		
2		21824.745	0	24206.690	-	46031.465	-30	.	.	1.5-	2.5	.	.	.	0.863	0.800*	63				4580.9791			
1		21823.279	0	14953.317	-	36676.620	-24	.	.	4.0-	4.0	.	.	.	0.786	1.150*	364		-281		4581.7425			
1		21819.643	0	12351.522	-	34171.155	10	.	.	6.0-	5.0	.	.	.	0.995	1.230	235		-82		4581.8989			
		21818.898	0																			4582.0705		
1		21818.081	6	30997.335	-	9179.262	8	5.0-	5.0	5.0-	5.0	1.19	1.45	.26	1.200	1.454*	254	-042	-56		4582.6939			
		21815.113	0																			4582.8756		
		21814.248	0																			4582.9489		
1		21813.899	0	29588.570	-	7774.653	-18	.	.	3.0-	4.0	.	.	.	1.165	1.463	298		134		4583.2055			
		21812.678	1																+			4583.3723		
2		21811.884	0	19277.180	-	41089.060	4	.	.	3.5-	2.5	.	.	.	0.847	0.935	88		-158		4583.7933			
		21809.881	0																			4583.9223		
		21809.267	1																			4584.0629		
		21808.598	1																					

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	21806.306	1	26105.952-	4299.659	13	2.0-	2.0	2.0-	2.0	1.172	1.482	.310	1.165	1.482	317	+	74	4584.5448	
2	21804.146	3	27306.210-	5502.050	-4	2.5-	1.5	2.5-	1.5	1.05	1.18	.13	1.040	1.169*	129		127	4584.9989	
2	21803.205	3	14295.565-	36098.770	0	3.5-	4.5	3.5-	4.5	.80	1.03	.23	0.790	1.029	239	-	-65	4585.1968	
	21798.924	0																4586.0973	
1	21798.535	2	14737.788-	36536.330	-7	3.0-	3.0	3.0-	3.0	.82	.95	.13	0.815	0.950*	135	-162	-166	4586.1686	
	21796.950	0																4586.5126	
	21795.953	1										.20						4586.7224	
2	21795.281	2	29074.145-	7278.852	-2	.	.	5.5-	4.5	.	.	.60	0.940	1.545*	605		-59	4586.8639	SP
1	21790.473	1	37536.120-	15745.648	1	2.0-	3.0	2.0-	3.0	.	.	.12	1.030	1.145*	115		143	4587.8760	
	21788.909	1																4588.2053	
	21787.088	4				6.5-	5.5			1.489	1.045	.444				146		4588.5888	
2	21776.837	3	14476.135-	36252.985	-13	.	.	4.5-	3.5	.	.		1.060	1.004	56		-439*	4590.7488	
1	21776.061	3	8768.139-	30544.187	13	2.0-	3.0	2.0-	3.0	.36	.96	.60	0.362	0.946	584	-151	-152	4590.9124	
	21775.127	0																4591.1093	
	21774.591	0																4591.2223	
	21773.776	0																4591.3942	
2	21772.429	3	30410.665-	8638.233	-3	.	.	4.5-	5.5	.	.	.39	1.126	1.514	388		369*	4591.6782	
1	21770.773	1	12322.613-	34093.375	11	.	.	2.0-	1.0	1.03	1.30	.27	1.036	1.310*	274		-234	4592.0275	
1	21765.009	2H	16834.379-	38599.385	3	.	.	5.0-	6.0	.	.		0.961	1.039	78			4593.2436	HAZY C2
1	21765.009	2H	27909.524-	6144.515	0	.	.	4.0-	3.0	.	.		1.270	1.473*	203	-	-45	4593.2436	C2 HAZY
1	21763.761	1	11840.715-	33604.497	-21	.	.	3.0-	3.0	.	.		0.811	1.210	399		-183	4593.5070	
	21761.892	0																4593.9015	
	21761.341	6H				1.5-	2.5			.41	.69	.28						4594.0179	2LNS
2	21761.341	6H	29259.700-	7498.364	5	1.5-	2.5	1.5-	2.5	1.26	1.32	.06	1.250	1.321	71	-12	-8	4594.0179	2LNS
1	21760.128	0	18591.122-	40351.235	15	.	.	4.0-	5.0	.	.		0.965	1.070	105			4594.2740	
2	21759.838	0	24432.860-	46192.700	-2	.	.	3.5-	3.5	.	.		1.110	0.950*	160			4594.3352	
1	21759.056	4	27903.565-	6144.515	6	2.0-	3.0	2.0-	3.0	1.30	1.47	.17	1.300	1.473	173	138	140	4594.5003	
1	21758.371	1C	14292.176-	36050.540	7	5.0-	6.0	5.0-	6.0	.97	.84	.13	0.970	0.830*	140		-123	4594.6450	
1	21753.706	0	30932.959-	9179.262	9	.	.	6.0-	5.0	.	.		1.340	1.454*	114		-58	4595.6303	
2	21751.698	0	37240.235-	15408.530	-7	3.5-	3.5	3.5-	3.5	.	.	.18	1.240	1.057	183		243*	4596.0545	
2	21750.144	0	19277.180-	41027.335	-11	.	.	3.5-	4.5	.85	.90	.05	0.847	0.895	48			4596.3829	SI SP
1	21742.990	0	12177.963-	33920.944	9	1.0-	2.0	1.0-	2.0	.	.	.52	0.525	1.040*	515		-201	4597.8953	
1	21741.374	0	14025.007-	35766.380	1	4.0-	4.0	4.0-	4.0	.98	1.06	.08	0.975	1.055	80		-148	4598.2370	DJO
	21740.677	0																4598.3844	
	21740.367	0																4598.4500	
	21738.877	1																4598.7652	
2	21734.355	3	31442.330-	9707.980	5	5.5-	6.5	5.5-	6.5	.	.	.31	1.170	1.485*	315			4599.7220	
2	21733.134	4	33532.385-	11799.241	-10	.	.	5.5-	5.5	1.34	1.37	.03	1.341	1.373	32	+	25	4599.9804	
	21732.051	1B								1.08	1.08							4600.2097	HVLQ
	21731.946	1B																4600.2319	
2	21730.685	1	8198.666-	29929.355	-4	.	.	2.5-	2.5	.	.		0.414	1.280*	866		-555	4600.4989	
	21729.938	0								1.02	1.02							4600.6570	
	21729.315	0				3.0-	4.0			.	.	.46						4600.7889	JQ 2LNS
2	21729.315	0	17733.709-	39463.005	19	.	.	0.5-	1.5	.	.		-0.510	1.420*	1930		-70*	4600.7889	2LNS
1	21727.458	2	9724.351-	31451.814	-5	3.0-	4.0	3.0-	4.0	.45	1.09	.64	0.442	1.080	638	-130	-135	4601.1821	
1	21726.895	1	10485.922-	32213.814	3	.	.	1.0-	2.0	.	.		0.355	0.725	370	-	-51	4601.3014	
	21726.456	1																4601.3943	
	21725.177	1																4601.6652	
	21722.390	0																4602.2557	
2	21721.680	0	33520.920-	11799.241	1	.	.	4.5-	5.5	.	.		0.996	1.373	377			4602.4061	
2	21721.000	1	24634.455-	46355.430	25	.	.	3.5-	3.5	.	.	.31	0.839	0.950	111			4602.5502	CQ
1	21720.473	4	30899.721-	9179.252	14	5.0-	5.0	5.0-	5.0	1.08	1.45	.37	1.090	1.454*	364	049	49	4602.6618	
1	21719.023	1	15856.888-	37575.920	-9*	.	.	1.0-	2.0	.	.		1.103	1.220*	117	-236	-231	4602.9691	
	21718.093	0				1.0-	2.0			.	.	.43						4603.1684	
2	21713.546	2	33721.040-	12007.503	9	1.5-	1.5	1.5-	1.5	1.26	-0.01	1.27	1.228	-0.019	1247		340	4604.1302	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1		G2	G1	DG	G2	G1	DG	IS		
	21712.074	2																	4604.4423	
	21710.964	1																-155	4604.6778	
1	21709.344	4	26009.000-		4299.659	3	3.0-	2.0	3.0-	2.0	.89	1.48	.59	0.870	1.482*	612		-44	4605.0214	
	21708.694	1																	4605.1593	
	21706.390	0					2.0-	3.0											4605.6481	J2535q
2	21705.784	0	35432.095-		13726.318	7	.	.	1.5-	2.5	.	.	.	1.190	0.784	406			4605.7767	
1	21701.154	2	18346.917-		40048.080	-9*	.	.	2.0-	3.0	.	.	.	1.518	1.005	513			4606.7593	
2	21700.909	4	30339.150-		8638.233	-8	4.5-	5.5	4.5-	5.5	1.16	1.52	.36	1.154	1.514	360	098	104	4606.8113	
1	21699.948	7	9335.801-		31085.744	5	.	.	5.0-	5.0	.80	.80	.	0.801	0.795	6		-34	4607.0154	
2	21699.385	6	29197.755-		7498.364	-6	2.5-	2.5	2.5-	2.5	.99	1.32	.33	0.989	1.321	332	052	63	4607.1349	
	21697.290	1																	4607.5797	
1	21692.139	4	23895.741-		2203.606	4	2.0-	1.0	2.0-	1.0	-0.10	1.495	1.60	-0.100	1.495*	1595	-028	-56	4608.6739	
1	21683.884	4	9724.351-		31413.230	5	3.0-	3.0	3.0-	3.0	.45	.75	.30	0.442	0.742	300	-131	-128	4609.3655	
2	21683.563	3	13809.910-		35493.485	-12	4.5-	3.5	4.5-	3.5	.64	.92	.28	0.657	0.931	274	-239	-223	4610.4967	
1	21682.698	4	37428.345-		15745.643	1	2.0-	3.0	2.0-	3.0	1.33	1.15	.18	1.330	1.145*	185	+		4610.6806	
2	21678.213	0	19277.180-		40955.385	8	.	.	3.5-	3.5	.	.	.	0.847	0.850	3		-68	4611.6345	C2
1	21678.213	0	16520.962-		38199.170	5	.	.	5.0-	6.0	.	.	.	0.736	1.068	332		-41	4611.6345	C2
2	21677.071	0	32403.385-		10726.322	8	.	.	5.5-	4.5	.	.	.	1.145	1.391	246			4611.8775	
	21674.321	0																	4612.4626	
2	21673.565	1	32399.895-		10726.322	-8	.	.	4.5-	4.5	.	.	.	1.110	1.391*	281		78*	4612.6235	
	21572.926	1																	4612.7595	
2	21668.610	1	35659.575-		13790.952	-13	0.5-	1.5	0.5-	1.5	.46	1.73	1.27	0.460	1.728*	1268		-115*	4613.6783	
1	21665.458	1	16520.962-		38186.420	0	5.0-	5.0	5.0-	5.0	.	.	.22	0.736	0.952	216	+	4	4614.3495	
1	21663.024	1	6313.866-		27976.881	9	.	.	4.0-	3.0	.	.	.	0.487	1.080	593		-138	4614.8680	
	21561.514	3																	4615.1897	
1	21560.847	0	14025.007-		35685.835	19	.	.	4.0-	5.0	.	.	.	0.975	1.104	129		-125	4615.3318	
2	21560.279	5	27162.335-		5502.060	4	1.5-	1.5	1.5-	1.5	1.04	1.18	.14	1.046	1.169	123		-8	4615.4529	
1	21558.958	4	6313.866-		27972.815	9	4.0-	4.0	4.0-	4.0	.485	.985	.50	0.487	0.979	492	-048	-76	4615.7344	
	21558.238	0																	4615.8878	
1	21558.019	0	16595.109-		38253.110	18	.	.	3.0-	4.0	.	.	.	0.999	0.920*	79		-181	4615.9345	
	21557.710	1																	4616.0083	
1	21555.746	1	12177.963-		33833.699	10	1.0-	2.0	1.0-	2.0	.57	.98	.41	0.525	0.930	405		-267	4616.4190	
1	21552.850	3	9724.351-		31377.193	8	3.0-	4.0	3.0-	4.0	.	.	.53	0.442	0.973	531	-195	-192	4617.0364	
	21651.116	1																	4617.4062	
2	21648.213	5	28927.075-		7278.862	0	4.5-	4.5	4.5-	4.5	1.04	1.53	.49	1.040	1.545*	505	098	99*	4618.0254	
	21646.201	1					1.13	1.13											4618.4546	
	21644.816	2																	4618.7502	
2	21644.278	1	25614.115-		3969.846	9	.	.	3.5-	2.5	.	.	.	1.480	1.670*	190	+	128	4618.8650	
2	21644.114	1	33443.355-		11799.241	0	.	.	5.5-	5.5	.	.	.	1.100	1.373*	273		177	4618.9000	
	21643.884	3					1.18	.	.	.19									4618.9491	f SO2JD6
1	21642.859	0	18046.108-		39688.980	-13	.	.	4.0-	4.0	.	.	.	0.694	0.980*	286			4619.1678	
2	21642.438	0	23426.895-		45069.320	13	.	.	2.5-	2.5	.	.	.	1.340	0.730*	610			4619.2577	
	21642.063	0																	4619.3377	
1	21639.265	0	12351.522-		33990.780	7	.	.	6.0-	6.0	.	.	.	0.995	0.920*	75		-160	4619.9350	
1	21635.844	0	14292.176-		35928.010	10	5.0-	4.0	5.0-	4.0	.97	.96	.01	0.970	0.960	10		-183	4620.6655	
	21634.914	0					1.16	1.16											4620.8641	
	21632.331	0																	4621.4159	
	21629.578	1					1.44	1.44											4622.0041	
1	21628.971	3	35970.903-		14341.947	15	1.0-	2.0	1.0-	2.0	1.01	.86	.15	1.000	0.852*	148	091	91*	4622.1338	
	21628.237	0																	4622.2907	
	21627.492	0																	4622.4499	
1	21627.115	1	35969.064-		14341.947	-2	2.0-	2.0	2.0-	2.0	.765	.860	.095	0.765	0.852	87	+	47*	4622.5305	
2	21623.046	1	30855.395-		9242.356	7	.	.	3.5-	3.5	1.33	1.37	.04	1.328	1.369	41		-61	4623.4004	DJ0
2	21622.645	1	14476.135-		36098.770	10	.	.	4.5-	4.5	1.06	1.03	.025	1.060	1.029	31		-389*	4623.4861	DJ0
1	21616.423	8	25916.069-		4299.659	13	3.0-	2.0	3.0-	2.0	1.35	1.48	.13	1.350	1.482*	132	-100	-102	4624.8170	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	21615.831	0																4624.9436	
1	21615.610	0	13726.661-35342.260	11				3.0-	4.0				1.150	1.110	40		-186	4624.9909	
2	21615.294	6	28394.140-7278.862	16		3.5-	4.5	3.5-	4.5	1.00	1.54	.54	1.009	1.545	536	+	10	4625.0585	
1	21611.472	6	27755.977-6144.515	10		3.0-	3.0	3.0-	3.0			.095	1.370	1.473	103	-	093 -92	4625.8765	
	21608.511	0																4626.5104	
	21607.962	2																4626.6279	
	21606.927	0																4626.8496	
2	21606.592	1	32332.915-10726.322	-1				4.5-	4.5				1.100	1.391*	291		-61	4626.9213	
2	21605.955	2	35332.255-13726.318	18		2.5-	2.5	2.5-	2.5			.49	1.263	0.784	479		234	4627.0577	
	21605.771	1																4627.0971	
2	21604.332	7	24840.100-3235.770	2		1.5-	0.5	1.5-	0.5	1.015	.30	.715	1.025	0.299*	726	318	317	4627.4053	
2	21604.089	8	25373.915-3969.846	20		1.5-	2.5	1.5-	2.5	1.62	1.67	.05	1.627	1.670	43	-	-73	4627.4574	
1	21603.695	1	8768.139-30371.819	15				2.0-	3.0				0.362	0.640	278	-	-265 -283	4627.5418	
1	21599.056	0	12159.465-33758.523	8				4.0-	5.0	.76	.76		0.844	0.830	14		-239	4628.5335	
	21592.515	0																4629.9378	
2	21591.520	2	30229.760-8638.233	-7				4.5-	5.5				1.075	1.514	439		87*	4630.1512	
	21590.587	2														116		4630.3513	
2	21588.225	7	27306.210-5717.976	-9		2.5-	3.5	2.5-	3.5	1.04	1.59	.55	1.040	1.596*	556	112	107	4630.8579	
	21588.057	1																4630.8939	
1	21587.616	4	30766.862-9179.262	16		5.0-	5.0	5.0-	5.0	.95	1.46	.51	0.950	1.454*	504	-	-078 -78	4630.9885	
2	21582.803	1	40344.355-18761.580	33				5.5-	5.5			.11	1.165	1.296	131		195*	4632.0202	DJO
1	21579.533	2	10486.922-32066.452	3		1.0-	2.0	1.0-	2.0	.35	.89	.54	0.355	0.910*	555	-	-242 -242	4632.7232	
1	21571.034	5	25870.685-4299.659	8		2.0-	2.0	2.0-	2.0	1.17	1.48	.31	1.170	1.482	312	-	-055 -61	4634.5485	
	21570.377	0																4634.6897	
1	21562.532	3	23766.136-2203.606	2		1.0-	1.0	1.0-	1.0	2.165	1.495	.670	2.162	1.495	667	-	-155 -158	4636.3759	
1	21561.689	1	9724.351-31286.029	11				3.0-	2.0				0.442	1.280	838		-91	4636.5572	
2	21560.934	21	14295.565-35856.485	14				3.5-	3.5				0.790	1.025	235	-	-300 -302	4636.7195	
2	21559.841	4	30802.205-9242.356	-8		4.5-	3.5	4.5-	3.5	1.16	1.37	.21	1.160	1.369*	209	-	-67	4636.9566	
	21555.836	0																4637.8161	
	21555.441	0																4637.9011	
2	21553.627	2	11504.095-33057.710	12				3.5-	3.5	.86	.86	.00	0.859	0.857	2		-471	4638.2915	
2	21552.299	2	12048.548-33600.850	-3		1.5-	2.5	1.5-	2.5			1.32	-0.054	1.263	1317		-110	4638.5773	
2	21548.987	7	27266.960-5717.976	3		3.5-	3.5	3.5-	3.5	1.18	1.59	.41	1.155	1.596	441	092	91	4639.2902	
	21548.017	3																4639.4991	
	21543.740	2						3.0-	2.0	.82	1.50	.68						4640.4201	JQ
2	21541.873	2	29040.245-7498.364	-8		1.5-	2.5	1.5-	2.5	1.45	1.31	.14	1.447	1.321	126		39	4640.8223	
2	21537.830	3	13809.910-35347.740	0		4.5-	3.5	4.5-	3.5	.65	1.20	.55	0.657	1.195	538	-	-144 -139	4641.6935	
1	21535.022	1	15074.958-36609.983	-3				7.0-	7.0				1.097	1.195	98	-	-264 -230	4642.2987	ISQ
2	21533.445	1	32259.765-10726.322	2*				5.5-	4.5				1.180	1.391*	211		132	4642.6387	
2	21533.083	1	33332.350-11799.241	-26				4.5-	5.5				1.072	1.373	301		16*	4642.7168	
1	21532.732	5	12351.522-33884.230	24		6.0-	7.0	6.0-	7.0	.980	1.105	.125	0.995	1.105	110	-	-326 -323	4642.7925	
	21530.145	1																4643.3503	
	21529.370	0																4643.5175	
1	21529.017	0	13726.661-35255.665	13				3.0-	4.0				1.150	1.080*	70		-261	4643.5936	
2	21528.074	4	29026.425-7498.364	13		2.5-	2.5	2.5-	2.5	1.15	1.32	.17	1.150	1.321	171	-	-088 -89	4643.7970	
1	21526.101	0	37271.740-15745.648	9				2.0-	3.0	1.13	1.15	.02	1.115	1.145	30			4644.2227	
	21525.714	0																4644.3062	
2	21522.916	0	30765.285-9242.356	-13				3.5-	3.5				1.190	1.369*	179		-10	4644.9099	
	21522.783	0																4644.9386	
	21522.454	0																4645.0097	
1	21521.940	0	15356.888-37378.815	13				1.0-	2.0				1.103	0.964	139		-146	4645.1206	
1	21520.665	6	29295.313-7774.653	5		4.0-	4.0	4.0-	4.0	1.285	1.475	.190	1.270	1.463*	193		5	4645.3958	
1	21518.583	5	6313.866-27832.430	19		4.0-	4.0	4.0-	4.0	.49	.93	.44	0.487	0.920	433	-	-074 -83	4645.8453	
2	21517.204	4	30759.570-9242.356	-10		2.5-	3.5	2.5-	3.5	1.21	1.36	.15	1.220	1.369	149	137	141	4646.1430	
1	21515.144	4	21515.136-0.000	8		1.0-	0.0	1.0-	0.0	1.19	.000		1.180	0.000*	0	111	113	4646.5879	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	21503.	170	2	14912.011-36420.		170	11	4.0-	5.0	4.0-	5.0	.495	1.025	.530	0.496	1.025	529	-134	-132	4648.0945	
	21507.	747	0																	4648.1860	
1	21506.	684	1	27651.193-	6144.	515	6	.	.	2.0-	3.0	.	.	.	1.570	1.473	97	-	-42	4648.4157	
	21504.	279	1															125		4648.9356	
	21503.	169	0																	4649.1756	
1	21499.	190	7	27643.693-	6144.	515	12	4.0-	3.0	4.0-	3.0	1.30	1.47	.17	1.310	1.473*	163	-085	-87	4650.0360	
	21497.	135	0																	4650.4806	
2	21495.	320	0	28774.175-	7278.	862	7	.	.	3.5-	4.5	.	.	.	1.140	1.545*	405		73	4650.8732	
	21494.	702	0																	4651.0070	
	21494.	516	0																	4651.0472	
	21494.	327	0																	4651.0881	
	21493.	746	1																	4651.2138	
1	21493.	113	0	18672.411-40165.	495		29	.	.	6.0-	7.0	.	.	.	1.190	1.120*	70		-246	4651.3508	
	21492.	636	0																	4651.4540	
1	21491.	306	0	6313.866-27805.	163		9	.	.	4.0-	5.0	.	.	.	0.487	1.024	537		-140	4651.7419	
2	21490.	120	1	17073.340-38563.	445		15	.	.	1.5-	2.5	.	.	.	0.576	1.085	509			4651.9986	
	21487.	451	0																	4652.5765	
2	21487.	073	0	18720.075-40207.	135		13	.	.	3.5-	2.5	.	.	.	1.060	1.020*	40			4652.6583	
2	21485.	106	2	17733.709-39218.	825		-10	.	.	0.5-	0.5	.	.	.	-0.510	1.610*	2120		-142	4653.0843	
2	21483.	184	0	41659.050-20175.	895		29	.	.	4.5-	3.5	.	.	.	1.120	1.515	395			4653.5006	
2	21432.	292	0	11504.095-32986.	390		-3	.	.	3.5-	2.5	.	.	.	0.859	1.040*	181		-687	4653.6938	
	21478.	572	1									1.07	1.07							4654.4998	
2	21478.	296	0	19277.180-40755.	465		11	.	.	3.5-	2.5	.	.	.	0.847	0.800	47			4654.5596	
1	21473.	036	0	12159.465-33632.	520		-19	.	.	4.0-	5.0	.	.	.	0.844	1.305	461		-164	4655.6998	
	21471.	041	0																	4656.1324	
2	21469.	427	4	35902.735-14433.	351		43	1.5-	1.5	1.5-	1.5	1.61	1.93	.32	1.605	1.925	320	316	308	4656.4825	2LNS
2	21469.	427	4	16499.640-37969.	065		2	.	.	3.5-	2.5	.68	.68		0.773	0.832	59		-265	4656.4825	SO 2LNS
2	21465.	372	5	31173.370- 9707.	980		-18	6.5-	6.5	6.5-	6.5	.	.	.32	1.160	1.485*	325		55*	4657.3621	
2	21455.	142	7	24700.905- 3235.	770		7	0.5-	0.5	0.5-	0.5	.	.		2.025	0.299	1726	067	80	4657.4120	
1	21459.	070	6	29233.723- 7774.	653		0	4.0-	4.0	4.0-	4.0	1.25	1.46	.21	1.260	1.463*	203	086	92	4658.7299	
1	21457.	872	3	9724.351-31182.	179		44	3.0-	4.0	3.0-	4.0	.	.	.75	0.442	1.210*	768	-301	-286	4658.9900	
2	21456.	493	0	19632.555-41039.	060		-12	.	.	1.5-	2.5	.	.	.	1.010	0.935*	75		-226*	4659.2894	
	21455.	492	0																	4659.5068	
2	21454.	291	0	36942.795-15438.	530		26	.	.	2.5-	3.5	.	.	.	1.040	1.057	17			4659.7677	
1	21453.	621	0	12897.584-40351.	235		-30	.	.	5.0-	5.0	.	.	.	1.280	1.070	210			4659.9132	
2	21453.	282	0	40214.805-18761.	580		57	.	.	4.5-	5.5	.	.	.	1.320	1.296	24		298*	4659.9868	
	21453.	049	0																	4660.0374	
1	21449.	523	4	15074.958-36524.	475		6	7.0-	6.0	7.0-	6.0	1.10	1.05	.055	1.097	1.050*	47	-279	-279	4660.8035	
2	21444.	754	1	31152.740- 9707.	980		-6	.	.	5.5-	6.5	.	.	.	1.240	1.485*	245			4661.8400	
1	21443.	308	4	35785.250-14341.	947		5	1.0-	2.0	1.0-	2.0	.53	.85	.32	0.530	0.852*	322	+	47*	4662.1544	
2	21442.	849	4	28941.215- 7493.	364		-2	2.5-	2.5	2.5-	2.5	.	.	.35	0.968	1.321	353	-	-52	4662.2542	
2	21440.	985	1	41763.300-20322.	349		34	.	.	6.5-	6.5	.	.	.	1.125	1.314	189			4662.6595	
	21440.	701	1																	4662.7213	
	21440.	473	1																	4662.7708	
	21440.	260	0																	4662.8172	
1	21439.	590	1	39012.195-17572.	608		3	3.0-	2.0	3.0-	2.0	1.08	.55	.53	1.080	0.555*	525			4662.9629	
1	21438.	029	1	19059.958-40497.	975		12	.	.	5.0-	5.0	.	.	.	1.375	1.060*	315		-268	4663.3024	
	21434.	833	1																	4663.9869	
2	21433.	812	8	25403.645- 3969.	846		13	2.5-	2.5	2.5-	2.5	1.029	1.672	.643	1.029	1.670	641	+	36	4664.2199	
2	21430.	635	2	31619.095-10138.	463		3	1.5-	0.5	1.5-	0.5	1.62	2.40	.78	1.613	2.402	789		-60*	4664.9114	
1	21428.	148	0	9386.801-30314.	939		10	.	.	5.0-	5.0	.	.	.	0.801	1.111	310		-226	4665.4528	
1	21422.	293	0	10486.922-31909.	212		3	.	.	1.0-	1.0	.	.	.	0.355	0.888	533		-55	4666.7280	
	21420.	950	0																	4667.0205	
2	21420.	568	2H	43339.890-21919.	400		78	.	.	7.5-	7.5	.	.	.	1.213	1.345	132			4667.1038	HAZY
	21420.	038	0																	4667.2193	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	21419.638	0																	4667.3064	
	21417.720	1																	4667.7244	
	21417.012	0								1.14									4667.8787	f Q
1	21414.950	0	6313.866	-27728.796	20	4.0-	3.0	4.0-	3.0			.565	0.487	1.060	573		-123	4668.3282	MSF HWL	
2	21414.041	4	26916.090	-5502.060	11	2.5-	1.5	2.5-	1.5	1.03	1.17	.14	1.040	1.169*	129		82	4668.5263		
	21408.739	2				1.5-	2.5					.39				091			4669.6825	J2030QPB
2	21407.241	3	28686.100	-7278.852	3	.	.	5.5-	4.5			.28	1.290	1.545*	255		78	4670.0093	SO	
2	21406.529	0	11504.095	-32910.615	9	.	.	3.5-	3.5			.	0.859	0.845	14		-520	4670.1646		
2	21404.556	0	19863.335	-41267.915	-24	.	.	2.5-	2.5			.	0.921	0.860	61			4670.5951		
2	21403.802	1	30646.175	-9242.356	-17	3.5-	3.5	3.5-	3.5			.10	1.272	1.369	97	+	13	4670.7597		
2	21402.101	5	12048.548	-33450.655	-6	1.5-	2.5	1.5-	2.5	-0.06	.94	1.00	-0.054	0.941	995	-125	-125	4671.1309		
1	21401.553	0	14853.317	-36254.860	10	.	.	4.0-	5.0			.	0.786	1.030	244		-110	4671.2505		
	21400.961	0																	4671.3797	
1	21399.655	1	35741.610	-14341.947	-8	.	.	3.0-	2.0			.	0.965	0.852	113			4671.6648		
1	21399.469	3	30578.731	-9179.262	0	5.0-	5.0	5.0-	5.0			.245	1.209	1.454	245	+	35	4671.7054		
2	21395.789	3	28894.140	-7498.364	13	3.5-	2.5	3.5-	2.5	1.02	1.32	.30	1.009	1.321	312	+	26	4672.5090		
1	21395.149	1	9724.351	-31119.494	6	3.0-	2.0	3.0-	2.0			.35	0.442	0.814	372	-226	-228	4672.6487		
2	21392.385	5	15657.156	-37049.535	6	2.5-	2.5	2.5-	2.5	1.02	.75	.27	1.000	0.730	270	+	13	4673.2525		
1	21391.724	6	27536.236	-6144.515	3	3.0-	3.0	3.0-	3.0	1.37	1.48	.115	1.355	1.473	118		0	4673.3969		
2	21391.412	3	35117.695	-13726.318	35	.	.	1.5-	2.5			.	1.505	0.784	721		192	4673.4650		
1	21389.985	1	10486.922	-31876.909	-2	.	.	1.0-	2.0			.	0.355	0.000*	0		-205	4673.7768		
1	21387.401	0	18046.108	-39433.510	-1	.	.	4.0-	4.0			.	0.694	0.925	231		-41	4674.3415		
	21386.794	1																	4674.4742	
	21385.070	3																	4674.8510	
2	21384.596	4	30626.955	-9242.356	-3	4.5-	3.5	4.5-	3.5	1.06	1.36	.30	1.055	1.369	314	160	142	4674.9546		
	21382.409	1																	4675.4328	
	21382.030	1																	4675.5157	
1	21377.452	7	9386.801	-30764.244	9	5.0-	6.0	5.0-	6.0	.81	.98	.17	0.801	0.975	174	-223	-228	4676.5170		
1	21374.815	6	30554.070	-9179.262	7	4.0-	5.0	4.0-	5.0	1.25	1.445	.195	1.260	1.454*	194		22	4677.0939		
1	21373.884	1	38946.490	-17572.608	2	1.0-	2.0	1.0-	2.0	1.06	.56	.50	1.060	0.555*	505			4677.2976	JQ 6Q	
1	21372.189	1	11840.715	-33212.897	7	3.0-	4.0	3.0-	4.0	.81	1.10	.29	0.811	1.110*	299		-153	-167	4677.6686	
	21368.851	1B																	4678.3993	
2	21368.728	1B	40130.265	-18761.580	43	.	.	5.5-	5.5			.	1.150	1.296	146			4678.4262		
1	21365.822	2	8768.139	-30133.953	8	2.0-	3.0	2.0-	3.0	.36	1.20	.84	0.362	1.200*	838	-268	-265	4679.0626		
	21356.777	1				5.0-	6.0			1.217	1.454	.236							4681.0443	JQ
	21355.677	0																	4681.2854	
1	21352.049	0	16834.379	-38186.420	8	.	.	5.0-	5.0	.96	.95		0.961	0.952	9		-188	4682.0808		
	21346.820	1				3.0-	2.0			1.15	1.94	.79							4683.2277	
1	21346.690	6	27491.196	-6144.515	9	2.0-	3.0	2.0-	3.0	1.34	1.46	.12	1.345	1.473	128	+	35	4683.2562		
	21346.242	0																	4683.3545	
1	21345.416	1	12351.522	-33696.921	17	.	.	6.0-	6.0			.	0.995	1.100*	105		-72	4683.5358		
1	21344.422	1	10486.922	-31831.325	19	1.0-	0.0	1.0-	0.0	.35	.000		0.355	0.000	0			4683.7539		
1	21343.954	4	29118.602	-7774.653	5	.	.	4.0-	4.0	1.51	1.46	.05	1.510	1.463*	47	-	-29	4683.8566	DJO	
1	21341.385	1	38914.005	-17572.608	-12	2.0-	2.0	2.0-	2.0	1.14	.54	.60	1.140	0.555	585	+	16	4684.4204		
	21335.862	0																	4685.6330	
	21335.521	0																	4685.7079	
1	21334.217	3	29108.865	-7774.653	5	5.0-	4.0	5.0-	4.0	1.22	1.47	.25	1.210	1.463*	253		-6	4685.9943		
2	21333.312	1	43252.700	-21919.400	12	7.5-	7.5	7.5-	7.5	1.185	1.345	.160	1.190	1.345	155			4686.1931		
	21329.347	1H								1.2	.77								4687.0643	fDJO2JQG
2	21327.967	1	26830.020	-5502.060	7	0.5-	1.5	0.5-	1.5	-0.08	1.16	1.24	-0.097	1.169	1266		85	4687.3676		
2	21326.357	0	17296.905	-38623.240	22	.	.	4.5-	3.5			.	0.494	0.640*	146			4687.7214		
2	21320.703	1	17242.750	-38563.445	8	.	.	2.5-	2.5			.	1.200	1.085*	115			4688.9546		
1	21319.987	6	30499.250	-9179.262	-1	4.0-	5.0	4.0-	5.0	1.14	1.45	.31	1.150	1.454*	304	-	-28*	4689.1220		
2	21317.869	8	12048.548	-33366.475	-58	1.5-	1.5	1.5-	1.5	-0.055	.13	.185	-0.054	0.129	183		23	4689.5879	3LNS	
1	21317.869	1	9724.351	-31042.204	16	3.0-	3.0	3.0-	3.0			.565	0.442	1.010	568		-81	4689.5879	3LNS	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	21317.869	8R	25617.477-	4299.659	51	2.0-	2.0	2.0-	2.0	1.36	1.48	.12	1.360	1.482*	122	-096	-92	4689.5879	3LNS
1	21313.629	4	29088.272-	7774.653	10	3.0-	4.0	3.0-	4.0	1.00	1.46	.46	1.005	1.463	458	-	-58	4690.5209	
	21311.883	0																4690.9051	
2	21311.592	5	28809.965-	7498.364	-9	2.5-	2.5	2.5-	2.5	1.24	1.32	.08	1.230	1.321*	91	46	34	4690.9692	
	21310.781	1								1.15	1.15							4691.1477	
1	21307.500	1	37912.285-	16604.786	1	6.0-	6.0	6.0-	6.0			.095	1.109	0.950*	159		-15	4691.8701	
2	21306.249	5	32032.585-	10726.322	-14	4.5-	4.5	4.5-	4.5	1.325	1.390	.065	1.335	1.391	56	+	16	4692.1456	
2	21303.177	2	12048.548-	33351.730	-5	1.5-	2.5	1.5-	2.5	-0.059	.800	.859	-0.054	0.800*	854		-105	4692.8222	
	21302.884	1																4692.8868	
1	21301.956	1	12159.465-	33461.419	2	.	.	4.0-	3.0	.	.	.	0.844	0.950*	106		-300	4693.0912	
1	21301.670	4	31540.149-	10238.473	-6	7.0-	6.0	7.0-	6.0	1.206	1.431	.225	1.205	1.431	226		26	4693.1542	
	21300.493	0																4693.4135	
	21299.602	0																4693.6099	
2	21297.650	7	23312.615-	2014.966	1	1.5-	1.5	1.5-	1.5	.67	1.88	1.21	0.680	1.881*	1201		106	4694.0401	
1	21292.190	6	25591.845-	4299.659	4	3.0-	2.0	3.0-	2.0	.99	1.48	.49	0.990	1.482*	492		-26	4695.2438	
1	21291.303	1	19059.958-	40351.235	26	.	.	5.0-	5.0				1.375	1.070	305			4695.4394	
2	21275.807	6	28774.175-	7498.364	-4	3.5-	2.5	3.5-	2.5	1.14	1.32	.18	1.140	1.321*	181	092	89	4698.8593	
1	21274.943	3	35616.875-	14341.947	15	1.0-	2.0	1.0-	2.0	1.00	.86	.14	1.000	0.852*	148			4699.0502	
2	21264.598	8	26766.650-	5502.060	8	2.5-	1.5	2.5-	1.5	1.04	1.16	.12	1.058	1.169	111	062	73	4701.3362	
2	21257.110	3	29895.355-	8638.233	-12	4.5-	5.5	4.5-	5.5	1.12	1.49	.37	1.150	1.514	364		69	4702.9923	
1	21248.242	0	8768.139-	30016.377	4	.	.	2.0-	2.0	.	.	.	0.362	1.140	778		-321	4704.9552	
2	21247.388	0	13013.685-	34261.065	8	.	.	5.5-	4.5	.	.	.	0.950	0.920	30		-155	4705.1443	
1	21246.619	1	29021.267-	7774.653	5	.	.	4.0-	4.0	.	.	.	0.000	1.463*	0		-43	4705.3146	
2	21246.054	0	31972.395-	10726.322	-19	.	.	4.5-	4.5	.	.	.	1.210	1.391*	181			4705.4397	
1	21245.454	0	12351.522-	33596.975	1	.	.	6.0-	5.0	.	.	.	0.995	1.315	320		-219	4705.5726	
2	21243.721	0	43163.110-	21919.400	11	.	.	7.5-	7.5	.	.	.	1.180	1.345	165			4705.9565	
	21243.526	0																4705.9997	
1	21242.118	3	25541.775-	4299.659	2	3.0-	2.0	3.0-	2.0	.915	1.48	.56	0.915	1.482	567	075	84	4706.3116	
	21232.742	1																4708.3899	
2	21230.031	4	16499.640-	37729.665	6	3.5-	2.5	3.5-	2.5	.78	1.04	.26	0.773	1.050*	277	-281	-274	4708.9911	
1	21222.195	4	31460.669-	10238.473	-1	7.0-	6.0	7.0-	6.0	1.13	1.43	.30	1.140	1.431*	291	066	72	4710.7299	
2	21219.717	3	8709.640-	29929.355	2	3.5-	2.5	3.5-	2.5	.305	1.280	.975	0.308	1.280*	972	-214	-214	4711.2800	
1	21217.650	1	13517.647-	34735.314	-17	.	.	2.0-	3.0	.89	.90	.01	0.892	0.899	7		-248	4711.7390	
1	21217.312	4	27361.817-	6144.515	10	3.0-	3.0	3.0-	3.0	1.310	1.475	.16	1.310	1.473	163		-51	4711.8140	
	21216.173	1																4712.0670	
1	21215.103	1	14737.788-	35952.890	1	.	.	3.0-	4.0	.	.	.	0.815	1.100*	285			4712.3046	
1	21213.060	6	23416.666-	2203.606	0	2.0-	1.0	2.0-	1.0	1.31	1.50	.19	1.320	1.495*	175	+	23	4712.7585	
2	21208.811	4	13209.910-	35018.725	-4	4.5-	3.5	4.5-	3.5	.65	.91	.26	0.657	0.911	254	-105	-114	4713.7027	
	21207.400	1																4714.0163	
	21206.410	0																4714.2364	
2	21199.721	6	28478.585-	7278.862	-2	3.5-	4.5	3.5-	4.5	1.175	1.545	.370	1.175	1.545	370	+	22*	4715.7238	
2	21198.133	3	26916.090-	5717.976	19	2.5-	3.5	2.5-	3.5			.55	1.040	1.596*	556		62	4716.0771	
	21197.162	1																4716.2931	
1	21195.972	6	30375.227-	9179.262	7	6.0-	5.0	6.0-	5.0	1.32	1.45	.13	1.320	1.454*	134	-099	-102	4716.5579	
1	21193.674	0	13726.661-	34920.315	20	.	.	3.0-	3.0	.	.	.	1.150	0.930	220		-251	4717.0693	
	21193.165	0																4717.1826	
1	21192.935	0	11840.715-	33033.638	12	3.0-	3.0	3.0-	3.0			.10	0.811	0.910	99		-268	4717.2338	
1	21190.225	2	14737.788-	35928.010	3	3.0-	4.0	3.0-	4.0	.82	.96	.14	0.815	0.960	145	-183	-184	4717.8371	SI
1	21186.741	2	31425.212-	10238.473	2	7.0-	6.0	7.0-	6.0	1.168	1.427	.259	1.170	1.431	261		29	4718.6130	SO
	21180.250	1																4720.0591	
	21177.819	0																4720.6009	
1	21177.212	7	28951.847-	7774.653	18	5.0-	4.0	5.0-	4.0	1.28	1.46	.18	1.290	1.463*	173	-070	-64	4720.7362	
	21176.434	0																4720.9096	
2	21168.312	3	30410.665-	9242.356	3	4.5-	3.5	4.5-	3.5	1.127	1.370	.243	1.126	1.369	243		381*	4722.7210	
2	21167.896	6	26669.945-	5502.060	11	1.5-	1.5	1.5-	1.5	1.355	1.175	.18	1.350	1.169	181	108	105	4722.8138	

C	HAVENUMBER	I	T2	-	T1	O-C	OSS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	21161.609	1	12159.465-33321.067			7	.	.	4.0-	5.0	.	.	.	0.844	1.200*	356		-187	4724.2170		
1	21156.787	6	27301.288- 6144.515			14	4.0-	3.0	4.0-	3.0	.985	1.470	.485	0.985	1.473	488		0	4725.2937		
2	21155.757	0	23170.720- 2014.966			3	.	.	0.5-	1.5	.	.	.	1.082	1.881*	799		114	4725.5238		
1	21153.770	1	8768.139-29921.899			10	.	.	2.0-	2.0	.	.	.	0.362	1.070*	708		-273	4725.9677		
2	21153.526	1	35586.850-14433.351			27	.	.	1.5-	1.5	.	.	.	1.160	1.925*	765		210	4726.0222		
2	21151.603	5	24337.360- 3255.770			18	1.5-	0.5	1.5-	0.5	.940	.300	.640	0.955	0.299	656	291	287	4726.4507		
1	21150.664	0	38473.945-17323.291			10	.	.	3.0-	4.0	.	.	.	1.020	1.250*	230		152	4726.6617		
1	21148.720	0	38914.005-17765.281			-4	.	.	2.0-	3.0	.	.	.	1.140	1.680*	540		44	4727.0962		
	21145.801	0								4727.7487	
	21134.052	1								4730.3770	
	21132.705	1								4730.6786	
1	21131.708	5	28906.355- 7774.653			6	3.0-	4.0	3.0-	4.0	1.230	1.460	.230	1.230	1.463	233	054	57	4730.9017		
2	21130.351	8	24366.120- 3235.770			1	0.5-	0.5	0.5-	0.5	2.42	.30	2.12	2.420	0.299*	2121	-125	-121	4731.2056		
2	21129.124	1	41451.460-20322.349			13	.	.	5.5-	6.5	.	.	.	1.280	1.314	34		52*	4731.4803		
2	21128.785	0	37874.470-16745.720			35	.	.	1.5-	2.5	.	.	.	1.030	1.671	641			4731.5562		
2	21128.205	3	11840.715-32968.906			14	3.0-	4.0	3.0-	4.0	.805	1.115	.310	0.811	1.115	304	-193	-200	4731.6861		
1	21126.467	0	12177.963-33304.400			30	.	.	1.0-	0.0	.	.	.	0.525	0.000	0		-312	4732.0754		
	21125.278	1								4732.3417	
2	21121.956	0	41444.280-20322.349			25	.	.	5.5-	6.5	.	.	.	1.065	1.314	249			4733.0860		
1	21117.839	0	8768.139-29885.947			31	.	.	2.0-	3.0	.	.	.	0.362	1.330*	968		-370	4734.0088		
2	21117.448	3	8198.666-29316.115			-1	2.5-	2.5	2.5-	2.5	.410	1.135	.725	0.414	1.140	726		-532*	4734.0964		
2	21115.420	1	39876.970-18761.580			30	.	.	4.5-	5.5	.	.	.	1.115	1.296	181			4734.5511		
2	21112.707	0	17242.750-38355.450			7	.	.	2.5-	1.5	.	.	.	1.200	0.698*	502		-99	4735.1595		
1	21111.616	9	23315.209- 2203.606			13	2.0-	1.0	2.0-	1.0	1.335	1.495	.160	1.335	1.495	160		-40	4735.4042		
1	21103.660	0	15424.387-36528.070			-23	.	.	3.0-	3.0	.	.	.	1.106	0.985	121			4737.1895		
	21103.288	0								4737.2730	
	21100.808	0								4737.8298	
1	21097.556	3	25397.206- 4299.659			9	1.0-	2.0	1.0-	2.0	.765	1.480	.715	0.776	1.482	706		-17	4738.5601		
2	21096.799	3	30339.150- 9242.356			5	4.5-	3.5	4.5-	3.5	1.155	1.370	.215	1.154	1.369	215		116	4738.7301		
2	21095.135	4	25064.960- 3969.846			21	1.5-	2.5	1.5-	2.5	.580	1.670	1.09	0.580	1.670	1090		-104	4739.1039		
1	21093.973	4	28868.619- 7774.653			7	5.0-	4.0	5.0-	4.0	1.085	1.460	.375	1.085	1.463	378		-1	4739.3650		
	21093.081	2					1.30	1.30	.23	.	.	.				4739.5654	DJ0 2JD6
2	21090.314	0	17532.937-38623.240			11	.	.	3.5-	3.5	.	.	.	1.238	0.640*	598			4740.1872		
	21089.408	1					7.0-	6.0	.	.	1.19	1.44	.25	.	.	.				4740.3909	
	21088.878	0								4740.5100	
1	21087.835	0	11840.715-32928.540			10	.	.	3.0-	2.0	.	.	.	0.811	1.060*	249		-212	4740.7445		
	21086.990	0								4740.9345	
1	21086.314	0	8768.139-29854.442			11	.	.	2.0-	1.0	.	.	.	0.362	1.180*	818		-254	4741.0864		
1	21083.195	6	30262.453- 9179.262			4	6.0-	5.0	6.0-	5.0	1.280	1.450	.167	1.284	1.454	170	-056	-69	4741.7878		
2	21082.846	2	30790.830- 9707.980			-4	.	.	5.5-	6.5	.	.	.	1.175	1.485	310		78	4741.8663		
2	21081.092	3	32280.320-11799.241			13*	5.5-	5.5	5.5-	5.5	.	.	.168	1.209	1.373	164	+	36	4742.2609		
1	21078.221	0	13726.661-34804.860			22	.	.	3.0-	4.0	.	.	.	1.150	0.941	209		-298	4742.9068		
	21077.849	0								4742.9905	
	21075.137	0								4743.6009	
1	21074.607	0	9386.801-30461.399			9	.	.	5.0-	5.0	.	.	.	0.801	0.990	189		-197	4743.7202		
	21074.209	0								4743.8098	
1	21073.812	0	12177.963-33251.780			-5	.	.	1.0-	2.0	.	.	.	0.525	1.465	940		-212	4743.8991		
	21073.080	0								4744.0639	
2	21071.874	3	31798.195-10726.322			1	4.5-	4.5	4.5-	4.5	.	.	.10	1.290	1.391*	101	079	89	4744.3354		
	21056.253	1								4747.8552	
1	21055.244	4H	9724.351-30779.585			10	3.0-	3.0	3.0-	3.0	.445	.865	.420	0.442	0.860	418	-180	-184	4748.0827		
2	21052.422	1	36540.920-15488.530			32	.	.	3.5-	3.5	.	.	.	1.200	1.057*	143		272*	4748.7192		
1	21051.222	4	27196.404- 6144.515			-7	3.0-	3.0	3.0-	3.0	1.280	1.470	.188	1.282	1.473	191	+	44	4748.8410		
2	21049.091	3	25018.940- 3969.846			-3	2.5-	2.5	2.5-	2.5	1.385	1.670	.284	1.385	1.670	285		311	4749.4707		
	21048.307	1								4749.6476	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG					G2	G1	DG	IS	IS
1	21045.228	1	14025.007-35070.230		230	5	.	.	4.0-	5.0	.	.	.	0.975	0.869	106	-140	-141	4750.3425	DJ1 S0	
2	21042.751	0	31231.210-10183.463		4	4	0.5-	0.5	0.5-	0.5	.89	2.40	1.51	0.860	2.402*	1542		7*	4750.9017		
1	21042.222	0	15249.635-36291.840		17	17	2.0-	3.0	2.0-	3.0	.	.	.	0.715	0.980	265		-257	4751.0211		
1	21041.579	0	35333.505-14341.947		21	21	3.0-	2.0	3.0-	2.0	.92	.85	.07	1.032	0.852	180		155	4751.1663	6Q	
1	21039.923	0	12177.963-33217.880		6	6	.	.	1.0-	1.0	.52	.52	.	0.525	0.520*	5			4751.5402	II	
	21039.178	0					.	.	.	.	.	.	.	.	.	.				4751.7085	
	21038.646	0					.	.	.	.	.	.	.	.	.	.				4751.8287	
2	21037.471	1	26755.425- 5717.976		22	22	.	.	4.5-	3.5	.	.	.	1.200	1.596*	396			4752.0941		
	21031.740	2					.	.	.	.	.	.96	.28				240			4753.3890	DJ0Q2JDG
1	21031.230	6	27175.729- 6144.515		16	16	4.0-	3.0	4.0-	3.0	1.020	1.470	.450	1.021	1.473	452		-9	4753.5043		
1	21029.252	7	25328.907- 4299.659		14	14	3.0-	2.0	3.0-	2.0	1.340	1.480	.140	1.340	1.482	142		-126	-128	4753.9491	
1	21027.133	0	16734.151-37761.260		24	24	.	.	2.0-	3.0	.	.	.	0.928	1.110*	182				4754.4305	
	21026.577	0					.	.	.	.	.	.	.	.	.	.				4754.5562	
2	21025.745	0	37771.420-16745.720		45	45	.	.	1.5-	2.5	.	.	.	1.470	1.671*	201				4754.7443	
	21025.337	1					.	.	.	.	.	.	.				124			4754.8366	
2	21023.904	2	31750.220-10726.322		6	6	5.5-	4.5	5.5-	4.5	.	.	.	1.180	1.391	211				4755.1607	
2	21023.133	0	38062.615-17039.487		5	5	.	.	2.5-	1.5	.	.	.	1.110	1.354	244				4755.3351	
1	21022.847	0	16155.109-37177.970		-14	-14	.	.	5.0-	5.0	.	.	.	0.948	1.125	177		-230		4755.3998	
	21020.416	2					.	.	.	.	.	.	.	.	.	.				4755.9497	
	21014.562	0					.	.	.	.	.	.	.	.	.	.				4757.2746	
	21014.295	0					.	.	.	.	.	.	.	.	.	.				4757.3351	
	21012.021	0					.	.	.	.	.	.	.	.	.	.				4757.8499	
1	21011.193	3	12351.522-33362.705		10	10	.	.	6.0-	7.0	.	.	.	0.995	1.140*	145	-187	-188		4758.0374	SI
1	21010.325	5	9386.801-30397.106		20	20	5.0-	5.0	5.0-	5.0	.805	1.005	.200	0.801	1.005	204		-094	-112	4758.2340	
	21008.664	0					.	.	.	.	.	.	.	.	.	.				4758.6102	
1	21008.280	5	9386.801-30395.062		19	19	5.0-	4.0	5.0-	4.0	.800	.920	.120	0.801	0.920	119	-187	-189		4758.6972	
1	20999.497	1	12351.522-33351.007		12	12	6.0-	6.0	6.0-	6.0	.995	1.245	.250	0.995	1.240*	245			-43	4760.6875	
1	20997.814	4	6313.866-27311.658		22	22	4.0-	5.0	4.0-	5.0	.485	1.035	.550	0.487	1.035	548			-77	4761.0691	
	20997.426	1					.	.	.	.	.	.	.	.	.	.				4761.1571	
2	20997.003	1	25358.470-46355.430		43	43	.	.	4.5-	3.5	.	.	.	1.443	0.950	493	298			4761.2530	
	20996.120	0					.	.	.	.	.	.	.	.	.	.				4761.4533	
1	20995.404	0	37271.740-16276.332		-4	-4	.	.	2.0-	2.0	.	.	.	1.115	1.880*	765				4761.6156	
2	20994.826	0	37281.410-16286.582		-2	-2	.	.	0.5-	0.5	.	.	.	0.730-	0.122*	852				4761.7467	
	20994.043	0					.	.	.	.	.	.	.	.	.	.				4761.9243	
2	20992.546	1	42050.415-21957.925		56	56	.	.	1.5-	2.5	.	.	.	1.180	1.590*	410				4762.2639	
2	20992.055	2	29630.290- 8638.233		-2	-2	5.5-	5.5	5.5-	5.5	1.116	1.514	.398	1.130	1.514*	384		-21		4762.3753	
1	20990.052	3	9724.351-30714.385		18	18	.	.	3.0-	4.0	.	.	.71	0.442	1.150	708	-085	-96		4762.8298	DJ1
2	20987.399	3	30229.760- 9242.355		-5	-5	4.5-	3.5	4.5-	3.5	1.075	1.370	.295	1.075	1.369	294			99*	4763.4318	
2	20987.022	1	32994.525-12007.503		0	0	.	.	1.5-	1.5	.	.	.	1.110-	0.019	1129				4763.5174	
	20985.394	2					.	.	.	.	1.09	1.09	.				171			4763.8869	
1	20984.636	2	10486.922-31471.542		16	16	1.0-	1.0	1.0-	1.0	.350	2.190	1.84	0.355	2.188	1833	-066	-98		4764.0590	
	20933.322	0					.	.	.	.	.	.	.	.	.	.				4764.3574	
2	20981.803	0	36470.320-15483.530		13	13	.	.	3.5-	3.5	.	.	.	1.172	1.057	115				4764.7023	
	20981.608	1					1.0-	2.0	.	.	.	.	.69				130			4764.7466	JQ
1	20930.399	3	27124.898- 6144.515		16	16	2.0-	3.0	2.0-	3.0	1.18	1.47	.29	1.190	1.473*	283		-30		4765.0211	
	20978.171	0					.	.	.	.	.	.	.	.	.	.				4765.5272	
2	20970.943	8	24206.690- 3235.770		23	23	1.5-	0.5	1.5-	0.5	.830	.300	.580	0.863	0.299	564		-21		4767.1698	
1	20969.540	0	12351.522-33321.067		-5	-5	.	.	6.0-	5.0	.	.	.	0.995	1.200*	205		-193		4767.4887	
	20968.506	0					.	.	.	.	.	.	.	.	.	.				4767.7238	
	20966.814	2					.	.	.	.	.	.	.	.	.	.				4768.1086	
2	20964.649	3	32763.860-11799.241		30	30	.	.	6.5-	5.5	.	.	.	1.210	1.373*	163				4768.6010	
	20963.741	1					.	.	.	.	.	.	.	.	.	.				4768.8075	
2	20962.943	1	28421.805-49384.725		23	23	.	.	2.5-	2.5	.	.	.	0.878	0.930*	52				4768.9891	
	20957.875	0					.	.	.	.	.	.	.	.	.	.				4770.1423	
1	20957.072	3	35299.015-14341.947		4	4	3.0-	2.0	3.0-	2.0	1.040	.860	.180	1.035	0.852	183	088	90		4770.3251	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1							G2	G1			DG	IS	IS
1	20951.156	2	9724.351-30675.497			10	3.0-	2.0	3.0-	2.0	.46	.37	.09	0.442	0.375	67	-172	-182	4771.6721	
	20950.039	0																	4771.9265	
	20947.591	0																	4772.4842	
	20947.020	0																	4772.6143	
2	20946.584	0	38109.990-17163.470			64	.	.	3.5-	4.5	.	.	.	1.105	1.200	95		357*	4772.7136	
	20945.159	0																	4773.0384	
1	20943.426	1	9724.351-30667.769			8	.	.	3.0-	4.0	.	.	.	0.442	1.265	823		-274	4773.4333	
	20940.715	1																	4774.0513	
1	20940.468	1	15424.387-36364.850			5	.	.	3.0-	4.0	.	.	.	1.106	1.080*	26		-208	4774.1076	
	20940.202	1																	4774.1683	
	20938.936	1																	4774.4569	
2	20937.839	1	12048.548-32986.390			-3	.	.	1.5-	2.5	.	.	.	-0.054	1.040*1094			-343	4774.7071	
	20935.152	1																071	4775.3199	
2	20931.900	2	34922.835-13990.952			17	0.5-	1.5	0.5-	1.5	1.015	1.730	.715	1.010	1.728	718			4776.0618	
	20925.826	1																	4777.4482	
1	20924.012	6	27068.524- 6144.515			3	3.0-	3.0	3.0-	3.0	.960	1.470	.510	0.960	1.473	513	+	80	4777.8623	
2	20923.448	1	28421.805- 7498.364			7	.	.	2.5-	2.5	.	.	.	0.878	1.321	443	-	-23	4777.9911	
	20922.446	1																	4778.2200	
1	20922.015	6	12351.522-33273.528			9	6.0-	7.0	6.0-	7.0	.98	1.07	.09	0.995	1.070*	75	-	-227	4778.3184	
	20921.219	0																	4778.5002	
1	20919.955	2	14292.176-35212.127			4	.	.	5.0-	6.0	.	.	.	0.970	1.130*	160	-	-136	4778.7889	
2	20917.984	1	37957.445-17039.487			26	.	.	2.5-	1.5	.	.	.	1.260	1.354*	94			4779.2392	
	20917.279	1																	4779.4003	
1	20916.918	1	6313.866-27230.768			16	.	.	4.0-	4.0	.	.	.	0.487	0.000*	0	-	-401	4779.4828	
	20915.391	0																	4779.8317	
	20913.940	0																	4780.1634	
2	20910.993	2	17532.937-38443.925			5	.	.	3.5-	4.5	.	.	.	1.238	1.020	218	-	-54	4780.8370	
1	20910.340	5	27054.840- 6144.515			15	4.0-	3.0	4.0-	3.0	1.225	1.470	.245	1.225	1.473	248	-	-63	4780.9863	
	20907.189	0																	4781.7069	
	20906.490	0																	4781.8668	
	20904.787	0																	4782.2563	
	20903.816	0																	4782.4785	
	20903.076	0																	4783.7921	
	20897.255	0																	4783.9800	
2	20896.426	2	8709.640-29606.060			6	3.5-	4.5	3.5-	4.5	.305	.800	.495	0.308	0.790	482	-	-449	4784.1698	
	20893.788	0																	4784.7739	
	20892.398	0																	4785.0922	
	20892.202	0									1.25	1.25							4785.1371	
2	20891.759	2	20063.650-40955.385			24	4.5-	3.5	4.5-	3.5	1.05	.85	.20	1.049	0.850	199	-	-95	4785.2386	
	20889.714	0																	4785.7070	
1	20889.524	1	38212.799-17323.291			16	.	.	5.0-	4.0	.	.	.	1.170	1.250*	80		142	4785.7506	
	20888.549	1																	4785.9739	
1	20887.313	0	16520.962-37408.285			-10	.	.	5.0-	4.0	.	.	.	0.736	1.045	309		8	4786.2572	
	20887.059	0																	4786.3154	
	20884.625	1																	4786.8732	
	20884.167	0																	4786.9782	
2	20883.358	2	17073.340-37956.685			13	1.5-	1.5	1.5-	1.5	.590	.905	.315	0.576	0.904	328	-	-51	4787.1636	
1	20881.475	4	14025.007-34906.470			12	4.0-	5.0	4.0-	5.0	.97	.93	.04	0.975	0.925	50	-	-173	4787.5953	
2	20879.631	1	28158.490- 7278.862			3	.	.	5.5-	4.5	.	.	.	1.140	1.545*	405		109	4788.0181	
1	20878.235	4	15074.958-35953.183			10	7.0-	8.0	7.0-	8.0	1.100	1.105	.005	1.097	1.105	8	-	-301	4788.3383	DJ1
1	20877.305	4	8768.139-29645.433			11	2.0-	1.0	2.0-	1.0	.360	.705	.345	0.362	0.705	343	-	-292	4788.5516	
	20876.427	0																	4788.7530	
1	20874.186	1	12159.465-33033.638			13	.	.	4.0-	3.0	.	.	.	0.844	0.910	66	-	-269	4789.2671	
2	20870.277	1	24340.100- 3969.846			23	.	.	1.5-	2.5	.	.	.67	1.025	1.670*	645		291	4790.1641	
2	20867.980	2	8193.666-29066.645			1	2.5-	1.5	2.5-	1.5	.41	.65	.24	0.414	0.670	256	-	-792	4790.6914	

C	HAVENUMBER	I	T2	-	T1	D-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	20863.809	2	31590.115-10726.322			16	4.5-	4.5	4.5-	4.5	1.05	1.39	.34	1.054	1.391	337	374	375	4791.6492	
2	20862.486	1	30104.835- 9242.356			7	.	.	3.5-	3.5	.	.	.	1.159	1.369	210			4791.9530	
	20861.452	0					.	.	.	.	.	.	.						4792.1906	
	20860.754	0					.	.	.	.	.	.	.						4792.3509	
	20850.342	0					.	.	.	.	.	.	.						4792.4456	
1	20857.964	1	36603.601-15745.648			11	.	.	4.0-	3.0	1.11	1.11		1.134	1.145	11	215	215	4792.9919	
1	20856.883	0	8768.139-29625.003			19	.	.	2.0-	2.0	.	.		0.362	0.910*	548	-190	-190	4793.2404	
	20855.747	0					.	.	.	.	.	.	.						4793.5015	
2	20853.693	0	34844.620-13990.952			25	.	.	1.5-	1.5	.	.		1.528	1.728	200		-46	4793.9736	
2	20852.943	0	20044.005-40896.955			-7	.	.	1.5-	1.5	.	.		0.820	0.800*	20			4794.1460	
	20852.227	0					.	.	.	.	.	.	.						4794.3106	
	20851.282	0					.	.	.	.	.	.	.						4794.5279	
	20849.333	0					.	.	.	.	.	.	.						4794.9761	
	20848.002	0					.	.	.	.	.	.	.						4795.2823	
	20847.334	0					.	.	.	.	.	.	.						4795.4359	
1	20845.312	4	38168.603-17323.291			0	5.0-	4.0	5.0-	4.0	1.08	1.25	.170	1.080	1.250*	170		68	4795.9011	
	20840.560	1					.	.	.	.	.	.	.						4796.9946	
	20838.616	0					.	.	.	.	.	.	.						4797.4422	
	20837.047	0					.	.	.	.	.	.	.						4797.8034	
1	20833.843	3	23037.432- 2203.606			17	1.0-	1.0	1.0-	1.0	.875	1.495	.620	0.870	1.495	625	-280		4798.5413	
1	20831.422	7	12351.522-33182.933			11	6.0-	6.0	6.0-	6.0	.995	1.055	.060	0.995	1.050	55	-175	-171	4799.0989	
1	20829.238	2	26973.744- 6144.515			9	2.0-	3.0	2.0-	3.0	1.210	1.470	.260	1.210	1.473	263	+	28	4799.6021	
	20827.890	1					.	.	.	.	.	.	.						4799.9128	
1	20823.635	1	9386.801-30210.416			20	.	.	5.0-	4.0	.	.		0.801	1.160*	359	-242	-251	4800.8936	
	20822.872	0					.	.	.	.	.	.	.						4801.0695	
	20822.615	1					.	.	.	.	.	.	.						4801.1288	
1	20822.255	3	25121.896- 4299.659			18	1.0-	2.0	1.0-	2.0	1.46	1.48	.02	1.444	1.482	38	-	-42	4801.2118	SI
	20820.089	0					.	.	.	.	.	.	.						4801.7113	
2	20819.082	3	29457.315- 8638.233			0	4.5-	5.5	4.5-	5.5	1.230	1.520	.290	1.230	1.514	284	+	15*	4801.9435	
2	20818.688	5	26320.735- 5502.060			13	2.5-	1.5	2.5-	1.5	1.035	1.170	.135	1.050	1.169	119	+	32	4802.0344	
	20816.430	0					.	.	.	.	.	.	.						4802.5553	
	20814.052	1					.	.	.	.	.	.	.						4803.1040	
1	20813.829	0	13726.661-34540.469			21	.	.	3.0-	3.0	.	.		1.150	0.888	262		-266	4803.1555	
2	20813.306	1W	39574.860-18761.580			26	.	.	5.5-	5.5	.	.		1.070	1.296*	226			4803.2762	2LNS
2	20813.306	1W	32820.775-12007.593			34	.	.	2.5-	1.5	.	.		1.315-0.019	1334		233		4803.2762	2LNS
1	20810.837	1	31049.306-10238.473			4	.	.	7.0-	6.0	.	.		0.000	1.431*	0		-15	4803.8460	
	20810.656	0					.	.	.	.	.	.	.						4803.8878	
1	20809.711	4	28584.353- 7774.653			11	4.0-	4.0	4.0-	4.0	.920	1.460	.540	0.920	1.463*	543	-	-24	4804.1060	
1	20809.457	1	12159.465-32968.906			16	.	.	4.0-	4.0	.	.		0.844	1.115	271	-204	-199	4804.1646	
2	20807.910	0	32607.135-11799.241			16	.	.	4.5-	5.5	.	.		1.047	1.373	326		49	4804.5218	
	20806.667	2W					1.5-	2.5	.	.	.	.	.335						4804.8088	SO
	20806.667	2W					0.5*	0.5	.	.	.	.							4804.8038	2LNS
	20805.640	0					.	.	.	.	.	.	.						4805.0460	
	20804.921	0					.	.	.	.	.	.	.						4805.2120	
	20803.650	0					.	.	.	.	.	.	.						4805.5056	
1	20802.957	0	16155.109-36958.090			-24*	.	.	5.0-	5.0	.	.		0.948	1.000	52		-270	4805.6657	
	20802.096	0					.	.	.	.	.	.	.						4805.8646	
	20801.551	1					.	.	.	.	.	.	.						4805.9905	
1	20800.952	4	25100.598- 4299.659			13	2.0-	2.0	2.0-	2.0	1.431	1.482	.051	1.430	1.482	52	-	-62	4806.1289	
1	20795.149	0	28569.792- 7774.653			10	.	.	3.0-	4.0	.	.		1.245	1.463	218		-71	4807.4701	
	20793.092	0					.	.	.	.	.	.	.						4807.9443	
	20791.048	0					.	.	.	.	.	.	.						4808.4184	
2	20788.821	6	30031.180- 9242.356			-3	3.5-	3.5	3.5-	3.5	1.250	1.365	.115	1.250	1.369	119	+	50	4808.9335	
1	20786.586	4	8768.139-29554.716			9	2.0-	3.0	2.0-	3.0	.360	.825	.465	0.362	0.831	469	-168	-182	4809.4506	
	20785.131	0					.	.	.	.	.	.	.						4809.7873	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	20784.681	1	12602.505-39387.160		26*				6.0-	6.0				0.910	1.029	119		-60	4809.8914		
2	20782.623	0	18720.075-39502.705		-7				3.5-	3.5				1.060	0.920*	140		-100	4810.3677		
2	20780.904	3	31597.220-10726.322		6	4.5-	4.5	4.5-	4.5			.255		1.130	1.391	261		-33	4810.7656		
1	20779.797	1	16834.379-37614.165		11				5.0-	6.0				0.961	1.190	229		-176	4811.0219		
1	20779.304	4	22982.904-2203.606		6	2.0-	1.0	2.0-	1.0		1.260	1.495	.235	1.257	1.495	238	109	123	4811.1361		
2	20776.739	3	10436.770-31213.510		-1	4.5-	3.5	4.5-	3.5		.715	1.045	.330	0.724	1.045	321	-118	-132	4811.7300		
	20776.253	0																	4811.8426		
	20773.171	4									1.13		.81					-251	4812.5565	fDJ02JDG	
	20769.968	0																	4813.2987		
1	20767.451	4	39623.901-18856.461		11	6.0-	5.0	6.0-	5.0		1.140	1.325	.18	1.140	1.325*	185	092	92	4813.8821		
1	20765.011	8	25064.653-4299.659		17	3.0-	2.0	3.0-	2.0		.980	1.480	.500	0.980	1.482	502		-62	4814.4477		
2	20761.636	0	28259.990-7498.364		10			1.5-	2.5					1.263	1.321	58		165	4815.2304		
1	20761.348	0	13517.647-34279.010		-15			2.0-	1.0					0.892	1.710*	818		-319	4815.2972		
2	20760.706	5	26478.685-5717.976		-3	3.5-	3.5	3.5-	3.5		1.045	1.595	.550	1.045	1.596	551	178	173	4815.4461		
1	20758.856	1	30997.335-10233.473		4			5.0-	6.0					1.200	1.431*	231		-57	4815.8729		
	20757.911	1										1.00	.08					-357	4816.0945	SI 2JDG	
	20755.072	0																	4816.7533		
	20750.476	3									1.07	1.07	.82						4817.8201	DJO 2JDG	
1	20750.205	6	26894.711-6144.515		9	3.0-	3.0	3.0-	3.0		1.46	1.47	.01	1.465	1.473	8		-21	4817.8830		
	20747.539	1									.96							426		4818.4905	f
	20744.112	0																		4819.2982	
	20743.776	0																		4819.3762	
	20742.194	0																		4819.7438	
2	20740.677	2	37904.140-17163.470		7	3.5-	4.5	3.5-	4.5		1.29	1.21	.08	1.275	1.200	75	271	271*	4820.0964	SO	
1	20737.762	0	36483.410-15745.648		0			4.0-	3.0		1.11	1.14	.03	1.100	1.145*	45	122	129	4820.7739	DJ1 SO	
	20736.540	1																328		4821.0580	
1	20734.741	2	9724.351-30459.091		1	3.0-	2.0	3.0-	2.0		.445	1.255	.810	0.442	1.255	813	-294	-298	4821.4763		
	20734.359	0																		4821.5651	
2	20730.668	0	25573.915-46304.585		-2			1.5-	2.5					1.627	0.980*	647	-261		4822.4236		
2	20728.253	3	31454.580-10726.322		0	3.5-	4.5	3.5-	4.5		1.18	1.39	.21	1.180	1.391*	211	104	106	4822.9843		
2	20727.451	8	28225.815-7498.364		0	3.5-	2.5	3.5-	2.5		1.19	1.32	.13	1.200	1.321*	121		17	4823.1721	SO	
1	20726.490	4	9386.801-30113.280		11	5.0-	6.0	5.0-	6.0				.26	0.801	1.050	249	-109	-117	4823.3957	SI	
	20725.002	1																		4823.7420	
	20722.589	1																		4824.3037	
2	20713.946	1	17242.750-37956.685		11			2.5-	1.5					1.200	0.904*	296	-059	-54	4826.3167		
	20713.762	1																		4826.3596	
1	20711.041	2	12322.613-33033.638		16			2.0-	3.0					1.036	0.910	126	-254	-270	4826.9937		
1	20710.428	0	14853.317-35563.728		17			4.0-	3.0					0.786	1.204	418		-339	4827.1365		
1	20709.705	2	12159.465-32369.165		5			4.0-	5.0					0.844	0.916	72	-256	-247	4827.3051		
1	20708.663	3	38473.945-17765.281		-1	3.0-	3.0	3.0-	3.0		1.02	1.68	.66	1.020	1.680*	660	156	156	4827.5480		
	20704.979	0																		4828.4069	
	20704.091	0																		4828.6140	
	20703.839	0																		4828.6728	
1	20702.825	0	13726.661-34429.460		26			3.0-	2.0					1.150	0.930*	220	-235	-226	4828.9093		
	20702.571	1																		4828.9685	
	20701.756	0																		4829.1587	
1	20701.164	0	15249.635-35950.800		-1			2.0-	3.0					0.715	1.005	290		+	4829.2968		
2	20699.597	5	26201.645-5502.060		12	2.5-	1.5	2.5-	1.5		1.035	1.170	.135	1.036	1.169	133	139	148	4829.6624		
1	20696.317	6	9336.801-30083.102		16	5.0-	5.0	5.0-	5.0		.800	1.150	.347	0.801	1.150*	349	-208	-212	4830.4278		
1	20693.224	0	15074.958-35768.160		22			7.0-	8.0					1.097	1.120*	23		-184	4831.1498		
1	20692.794	2	28467.436-7774.653		11			5.0-	4.0					1.210	1.463*	253		-69	4831.2502		
	20691.788	2									1.04	1.04	.58							4831.4851	DJO 2JDG
1	20691.354	0	16520.962-37212.310		6			5.0-	5.0					0.736	0.990	254		-39	4831.5864		
1	20690.103	1	30462.625-9772.532		10	1.0-	0.0	1.0-	0.0		1.26	.000		1.250	0.000	0		+	65	4831.8786	
1	20688.872	0	16834.379-37523.250		1			5.0-	6.0					0.961	1.055	94		-161	4832.1661		

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	20688.	297	0	12177.963	-	32856.230	30	.	.	1.0-	1.0	.	.	.	0.525	0.320*	205		-279	4832.3004	
	20587.	631	2					.	.			.	.	.				146		4832.4559	
1	20687.	405	2	17911.977	-	38599.385	-3	.	.	5.0-	6.0	.	.	.	1.145	1.039	106			4832.5087	
	20686.	294	0					.	.			.	.	.						4832.7683	
	20685.	979	0					.	.			.	.	.						4832.8419	
1	20685.	105	3	9386.801	-	30071.890	16	.	.	5.0-	5.0	.	.	.	0.801	1.290*	489	-303	-302	4833.0461	
2	20683.	435	0	26401.370	-	5717.976	41	.	.	4.5-	3.5	.	.	.	1.220	1.596*	376		126	4833.4363	
1	20679.	338	0C	17081.874	-	37761.260	-48	.	.	4.0-	3.0	.	.	.	1.217	1.110*	107			4834.3939	
	20678.	557	0					.	.			.	.	.						4834.5765	
1	20677.	654	4	11747.245	-	32424.890	9	0.0-	1.0	0.0-	1.0	.000	1.77	.	0.000	1.770*	0	-256	-256	4834.7876	
	20677.	249	1					.	.			.	.	.						4834.8823	
2	20676.	384	0	37839.835	-	17163.470	19	.	.	3.5-	4.5	.	.	.	1.220	1.200	20			4835.0846	
	20675.	360	1					.	.			.	.	.						4835.3241	
	20673.	741	0					.	.			.	.	.						4835.7027	
1	20672.	780	3	28447.410	-	7774.653	23*	4.0-	4.0	4.0-	4.0	1.025	1.465	.420	1.025	1.463	438	128	133*	4835.9275	
1	20669.	158	6	36414.798	-	15745.648	8	4.0-	3.0	4.0-	3.0	1.11	1.14	.03	1.100	1.145*	45	103	103	4836.7750	SO PB
2	20665.	250	0	22799.695	-	43464.975	-30	.	.	4.5-	5.5	.	.	.	1.330	1.050*	280			4837.6897	
1	20661.	276	3	30399.721	-	10238.473	28	5.0-	6.0	5.0-	6.0	1.06	1.42	.36	1.090	1.431*	341	+	48	4838.6202	
2	20660.	403	0	26162.460	-	5502.060	3	.	.	1.5-	1.5	.	.	.	0.710	1.169*	459		136	4838.8246	
2	20656.	336	0	17073.340	-	37729.665	11	.	.	1.5-	2.5	.	.	.	0.576	1.050*	474	-315	-314	4839.7774	
2	20652.	999	5	29895.355	-	9242.356	0	4.5-	3.5	4.5-	3.5	1.13	1.35	.22	1.150	1.369	219	095	81	4840.5594	SO
1	20652.	113	1	14025.007	-	34677.111	9	.	.	4.0-	4.0	.	.	.	0.975	1.080	105	-234	-240	4840.7670	
	20651.	077	0					.	.			.	.	.						4841.0099	
1	20650.	391	2	12159.465	-	32309.844	12	.	.	4.0-	4.0	.	.	.	0.844	0.900	56	-219	-217	4841.1707	DJO
1	20647.	477	5	9724.351	-	30371.819	9	3.0-	3.0	3.0-	3.0	.445	.640	.195	0.442	0.640	198	-282	-283	4841.8539	
1	20645.	990	3	14025.007	-	34670.995	2	.	.	4.0-	5.0	.	.	.	0.975	1.010*	35		-214	4842.2027	
2	20645.	621	7	24615.450	-	3969.846	17	1.5-	2.5	1.5-	2.5	1.005	1.665	.660	1.011	1.670	659	124	112	4842.2892	
2	20643.	710	3	37807.135	-	17163.470	45	3.5-	4.5	3.5-	4.5	1.09	1.20	.11	1.090	1.200*	110	220	220*	4842.7375	
	20642.	797	0					.	.			.	.	SMAL						4842.9517	DJ1
1	20641.	747	0	11840.715	-	32482.465	-3	.	.	3.0-	4.0	.	.	.	0.811	1.330*	519		-343	4843.1980	
	20640.	876	0					.	.			.	.	.						4843.4024	
	20640.	477	0H					.	.			.	.	.						4843.4960	
2	20639.	011	2	22653.955	-	2014.966	12	.	.	2.5-	1.5	.	.	.	1.360	1.881*	521		-179	4843.8401	
1	20638.	625	3	29817.890	-	9179.262	-3	.	.	5.0-	5.0	.	.	.	1.110	1.454*	344	-	-28*	4843.9307	
2	20637.	599	1	29879.945	-	9242.356	10	.	.	2.5-	3.5	.	.	.	1.026	1.369	343		88	4844.1715	
	20636.	996	0					.	.			.	.	.						4844.3130	
	20636.	549	0					.	.			.	.	.						4844.4180	
1	20636.	288	0	16155.109	-	36791.380	17	.	.	5.0-	5.0	.	.	.	0.948	1.025	77			4844.4792	
	20634.	506	1					.	.			.	.	.						4844.8976	
1	20632.	584	5	10486.922	-	31119.494	12	1.0-	2.0	1.0-	2.0	.35	.81	.46	0.355	0.814	459	-213	-218	4845.3489	
2	20631.	381	5	29269.625	-	8633.233	-11	5.5-	5.5	5.5-	5.5	1.11	1.52	.410	1.110	1.514	404	084	87	4845.6315	
1	20626.	570	3	36372.210	-	15745.648	8*	4.0-	3.0	4.0-	3.0	1.090	1.145	.055	1.082	1.145	63	213	213	4846.7617	
	20625.	250	0H					.	.			.	.	.						4847.0719	HAZY
	20623.	909	1					.	.			.	.	.						4847.3871	
	20623.	123	1					.	.			.	.	.						4847.5718	
2	20622.	704	0	28478.585	-	49101.285	4	.	.	3.5-	4.5	.	.	.	1.175	1.050*	125	-290		4847.6703	
2	20621.	740	0	17733.709	-	38355.450	-1	.	.	0.5-	1.5	.	.	.	-0.510	0.698*	1208	-093	-111	4847.8969	
	20613.	726	0					.	.			.	.	.						4849.7817	
	20613.	276	0					.	.			.	.	.						4849.8875	
2	20612.	301	2	23110.650	-	7498.364	15	1.5-	2.5	1.5-	2.5	.895	1.315	.420	0.899	1.321	422	+	62	4850.1169	
2	20511.	885	6	15641.100	-	36252.985	0	3.5-	3.5	3.5-	3.5	1.04	1.02	.02	1.040	1.004*	36		-130	4850.2148	
	20611.	491	0					.	.			.	.	.						4850.3075	
1	20611.	120	0	13517.647	-	34128.739	28	.	.	2.0-	3.0	.	.	.	0.892	1.106	214		-245	4850.3949	
	20609.	380	0					.	.			.	.	.						4850.8044	
	20609.	095	1					1.0-	2.0			.	.	.950					-320	4850.8714	J2030Q

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	20603.205	1	12992.644-33500.850		-1	.	.	2.5-	2.5	.	.	.	0.643	1.263	620	.	-104	4851.0809		
2	20606.476	4	8709.640-29316.115		1	3.5-	2.5	3.5-	2.5	.305	1.140	.835	0.308	1.140	832	-191	-191*	4851.4880		
1	20604.240	7	24903.894- 4299.659		5	3.0-	2.0	3.0-	2.0	.915	1.480	.565	0.915	1.482	567	110	110	4852.0145		
2	20502.771	6	26320.735- 5717.976		12	2.5-	3.5	2.5-	3.5	1.050	1.595	.545	1.050	1.596	546	.	12	4852.3604		
	20601.767	0					4852.5969	
	20599.784	2					4853.0640	
	20597.290	0					4853.6517	
1	20596.786	0	15424.387-36021.165		8	.	.	3.0-	3.0	.	.	.	1.106	1.048	58	.	-155	4853.7705		
	20596.313	0					4853.8819	
	20596.015	3				-149		4853.9522	
2	20595.834	3	15557.156-36252.985		5	.	.	2.5-	3.5	1.00	1.00	.	1.000	1.004	4	.	-118	4853.9948		
2	20594.084	2	32393.315-11799.241		10	.	.	6.5-	5.5	.	.	.	1.150	1.373*	223	.	106*	4854.4073	239 C2	
1	20593.865	4	9724.351-30318.195		21	.	.	3.0-	2.0	.	.	.	0.442	0.940	498	-243	-222	4854.4589		
1	20590.984	2	26735.491- 6144.515		8	.	.	2.0-	3.0	.	.	.	1.062	1.473	411	+	75	4855.1381		
	20590.398	2					4855.2763	
1	20589.731	1	13517.647-34107.378		0	.	.	2.0-	3.0	.	.	.	0.892	1.160*	268	-173	-218	4855.4336	ISQ	
1	20589.255	2	9386.801-29976.039		17	.	.	5.0-	4.0	.	.	.	0.801	1.070	269	-161	-169	4855.5459		
	20588.941	0					4855.6199	
	20587.910	2					4855.8631	
	20586.571	0					4856.1789	
1	20585.705	1	26730.201- 6144.515		19	.	.	3.0-	3.0	.	.	.	0.950	1.473	523	.	-21	4856.3832		
	20585.443	0					4856.4450	
2	20584.515	1	30292.495- 9707.980		0	.	.	6.5-	6.5	.	.	.	1.123	1.485	362	.	11	4856.6640		
1	20582.016	2	8768.139-29350.139		16	2.0-	3.0	2.0-	3.0	.36	.91	.55	0.362	0.910	548	-190	-188	4857.2537		
1	20581.124	2	16834.379-37415.495		8	.	.	5.0-	5.0	.96	.97	.01	0.961	0.980	19	-235	-235	4857.4642		
	20579.147	0				-584		4857.9308	
	20577.839	0					4858.2396	
	20576.553	0					4858.5433	
1	20575.748	1	13517.647-34093.375		20	2.0-	1.0	2.0-	1.0	.89	1.31	.42	0.892	1.310*	418	-219	-222	4858.7333		
1	20573.345	1	28348.462- 7774.653		36	.	.	4.0-	4.0	.	.	.	0.000	1.463*	0	.	-32	4859.1828		
	20572.056	0					4859.6053	
1	20569.227	8	15074.958-35644.180		5	.	.	7.0-	7.0	1.09	1.07	.	1.097	1.070*	27	-176	-173	4860.2737	DJO	
	20568.125	0				-224		4860.5341	
2	20567.567	0	29809.915- 9242.356		8	.	.	3.5-	3.5	.	.	.	1.068	1.369	301	.	-23*	4860.6660		
	20566.363	0					4860.9505	
1	20564.288	6	26708.790- 6144.515		13	3.0-	3.0	3.0-	3.0	.850	1.470	.620	0.855	1.473	618	-090	-58	4861.4410	ISQ	
	20562.948	0					4861.7578	
1	20562.331	0	34240.242-13677.903		-8	.	.	2.0-	1.0	.	.	.	1.190	1.442*	252	.	-28*	4861.9037		
	20562.154	1					4861.9456	
	20561.039	0				+		4862.1974	
	20560.864	1					4862.2506	
	20557.169	0					4863.1246	
2	20556.831	1W	37720.350-17163.470		1	.	.	4.5-	4.5	.	.	.	1.145	1.200	55	351	342	4863.1927		
1	20554.811	1W	16834.379-37389.145		45	.	.	5.0-	6.0	.	.	.	0.961	1.085	124	-147	-139	4863.6825		
2	20552.070	0	43052.235-22500.225		10	.	.	5.5-	5.5	.	.	.	1.150	1.555	405	.	.	4864.3312		
	20550.426	3				5.0-	4.0	.	.	.	.	.33	.	.	.	-443		4864.7203	JQ
2	20549.898	3	16499.640-37049.535		3	3.5-	2.5	3.5-	2.5	.790	.745	.035	0.773	0.730	43	.	53	4864.8453		
2	20549.137	5	27828.005- 7278.862		-6	4.5-	4.5	4.5-	4.5	.	.	.135	1.410	1.545*	135	.	85	4865.0255		
	20547.856	0					4865.3288	
	20546.740	0					4865.5930	
	20545.301	0					4865.6970	
	20545.705	2				107		4865.8381	
1	20540.343	0	12177.963-32718.268		38	.	.	1.0-	1.0	.	.	.	0.525	0.600*	75	-213	-203	4867.1084		
	20539.615	1					4867.2809	
	20535.763	0				232		4868.1939	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES			
2	20533.671	0	32332.915	-	11799.241	-3	.	.	4.5-	5.5	.	.	.	1.100	1.373*	273		-62	4868.6899				
	20531.348	0																-337	4869.2407				
1	20530.152	3H	17045.776	-	37575.920	8*	1.0-	2.0	1.0-	2.0	1.495	1.24	.255	1.474	1.220*	254		-15	4869.5244	HAZY			
1	20528.615	1	15074.958	-	35603.582	-9	.	.	7.0-	6.0	.	.	.	1.097	1.070*	27		-185	4869.8890				
2	20528.324	5	28026.690	-	7498.364	-2	.	.	2.5-	2.5	1.32	1.32	.	1.320	1.321*	1	151	152	4869.9580				
	20525.980	0																	4870.5142				
	20525.032	0																	4870.7273				
	20524.502	2									1.08	.	.					+	4870.8649	f			
	20524.048	0									.	.	.						4870.9726				
	20523.672	0									.	.	.						4871.0619				
	20520.941	0									.	.	.						4871.7101				
	20520.275	0									.	.	.						4871.8683				
2	20519.631	3	27798.480	-	7278.862	13	3.5-	4.5	3.5-	4.5	1.02	1.52	.50	1.060	1.545*	485		+	74	4872.0212			
	20518.190	0																	256	4872.3633			
1	20517.050	5	15074.958	-	35591.995	13	7.0-	8.0	7.0-	8.0	1.097	1.102	.005	1.097	1.105	8	-218	-209	4872.6341	2 LNS			
1	20517.050	3	24816.699	-	4299.659	10	2.0-	2.0	2.0-	2.0	1.165	1.480	.315	1.165	1.482	317			-54	4872.6341	2LNS		
	20515.434	0																		4873.0179			
1	20514.995	3	28289.640	-	7774.653	8	3.0-	4.0	3.0-	4.0	1.129	1.463	.334	1.130	1.463*	333			-2	4873.1222			
	20513.600	0																		4873.4536			
	20512.818	0																		4873.6394			
2	20510.869	4	29753.225	-	9242.356	0	3.5-	3.5	3.5-	3.5	1.09	1.36	.270	1.103	1.369	266		+	72	4874.1025			
	20507.783	1									.	.	.							266	4874.8359		
	20506.985	1									.	.	.							-234	4875.0256		
1	20505.835	1	12351.522	-	32857.357	0	.	.	6.0-	6.0	.	.	.	0.995	1.101	106	-209	-208	4875.2990				
	20502.685	1									.	.	.								4876.0481		
2	20501.989	2	37665.440	-	17163.470	19	4.5-	4.5	4.5-	4.5	1.100	1.200	.100	1.105	1.200	95	277	249*	4876.2136				
1	20500.933	2	8768.139	-	29269.059	13	2.0-	1.0	2.0-	1.0	.36	1.11	.75	0.362	1.110*	748	-188	-197	4876.4648	PB			
	20500.219	0									.	.	.								4876.6346		
	20499.638	0									.	.	.								4876.7728		
	20498.978	0									.	.	.								4876.9299		
	20496.802	1									.	.	.							077	4877.4476		
1	20495.209	0	37271.740	-	16776.530	-1	.	.	2.0-	1.0	.	.	.	1.115	0.000*	0					4877.8267		
1	20494.252	0	14025.007	-	34519.250	9	.	.	4.0-	5.0	.	.	.	0.975	1.170*	195	-179	-165	4878.0545				
1	20491.807	0	9724.351	-	30216.163	-5	.	.	3.0-	2.0	.	.	.	0.442	1.143	701			-215	4878.6365			
	20491.684	0									.	.	.								4878.6658		
	20491.159	2									.	.	.							+	4878.7908		
1	20487.187	3	34829.137	-	14341.947	-3	3.0-	2.0	3.0-	2.0	.	.	.28	1.125	0.852	273			114	117	4879.7367		
2	20486.141	4	13309.910	-	34296.050	1	4.5-	4.5	4.5-	4.5	.64	.78	.14	0.657	0.768	111	-229	-228	4879.9859				
1	20485.656	2	12159.465	-	32645.105	15	.	.	4.0-	5.0	.	.	.	0.844	1.135	291				-249	4880.1014		
1	20484.013	1	10486.922	-	30970.926	9	.	.	1.0-	1.0	.	.	.	0.355	0.295	60				-157	4880.4929		
2	20483.683	6	26201.645	-	5717.976	14	2.5-	3.5	2.5-	3.5	1.040	1.590	.550	1.036	1.596	560	137	128	4880.5715				
2	20483.288	0	12048.548	-	32531.815	21	.	.	1.5-	2.5	.	.	.	-0.054	1.010*	1064				-288	4880.6656		
	20482.283	0									.	.	.								4880.9051		
1	20481.283	5	24780.935	-	4299.659	7	2.0-	2.0	2.0-	2.0	.820	1.480	.660	0.830	1.482*	652	112	111	4881.1434				
1	20480.610	1	12322.613	-	32803.199	24	.	.	2.0-	3.0	.	.	.	1.036	0.825	211	-155	-167	4881.3038				
	20479.892	0									.	.	.								4881.4749		
	20478.672	0									.	.	.								4881.7657		
1	20477.632	0	12159.465	-	32637.106	-9	.	.	4.0-	3.0	.	.	.	0.844	0.820*	24				-175	4882.0137		
	20477.277	0									.	.	.									4882.0983	
	20476.868	2									.	.	.							142	4882.1958		
	20473.592	0									.	.	.							-417	4882.9770		
1	20470.236	0	10486.922	-	30957.140	18	.	.	1.0-	2.0	.	.	.	0.355	0.980	625	-202	-209	4883.7776				
2	20468.319	6	29710.665	-	9242.356	10	3.5-	3.5	3.5-	3.5	1.10	1.37	.270	1.100	1.369*	269			-75	4884.2350			
	20467.174	1									.	.	.									4884.5082	
	20465.166	0									.	.	.									4884.9875	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		TERM	IS	IS	WAVELENGTH	NOTES	
							J2	J1	J2	J1							G2	G1						DG	IS	IS
	20464.777	0																						
2	20463.244	0	40639.100-20175.895		39		.	.	4.5- 3.5		.	.		1.310	1.515	205				-344		4885.0804		
2	20463.034	0	24432.860- 3969.846		20		.	.	3.5- 2.5		.	.		1.110	1.670*	560				90		4885.4463		
2	20460.516	3	32259.765-11799.241		-8*		5.5-	5.5	5.5- 5.5		.	.	.192	1.180	1.373*	193			118	131		4886.0977		
	20459.898	0					.	.			.	.										4886.2453	
	20458.984	0					.	.			.	.										4886.4636	
2	20458.003	4	12992.644-33450.655		-8		2.5-	2.5	2.5- 2.5		.640	.955	.315	0.643	0.941	298			-119	-119		4886.6979		
2	20457.676	2	15641.100-36098.770		6		.	.	3.5- 4.5		1.03	1.03		1.040	1.029*	11				-80		4886.7760	97,97 Q	
	20456.798	0					.	.			.	.										4886.9858	
2	20455.578	5	16593.963-37049.535		6		2.5-	2.5	2.5- 2.5		.995	.740	.253	0.983	0.730	253				17		4887.2772		
1	20454.485	2	14025.007-34479.473		19		.	.	4.0- 4.0		.	.		0.975	0.944	31			-200	-203		4887.5384		
	20453.553	2					.	.			.	.										4887.7611	
1	20451.788	4	24751.439- 4299.659		8		1.0-	2.0	1.0- 2.0		.660	1.495	.835	0.647	1.482	835				5		4888.1829		
2	20451.156	3	13809.910-34261.065		1		4.5-	4.5	4.5- 4.5		.	.	.270	0.657	0.920	263			-128	-127		4888.3340		
1	20449.035	1	14292.176-34741.198		13		.	.	5.0- 5.0		.	.		0.970	1.070	100			-218	-208		4888.8410		
	20447.875	1					.	.			.	.										4889.1184	
	20447.651	0					.	.			.	.										4889.1719	
2	20446.998	0	29457.315-49904.305		8		.	.	4.5- 3.5		.	.		1.230	0.000*	0						4889.3281		
1	20446.560	1	33974.800-13528.246		6		.	.	2.0- 1.0		.	.		1.110	-0.590*	1700			137	137		4889.4328		
	20443.473	0					.	.			.	.										4890.1711	
2	20442.937	1	25944.980- 5502.060		17		.	.	1.5- 1.5		.	.		1.550	1.169	381				133*		4890.2994		
	20442.263	0					.	.			.	.										4890.4606	
	20441.708	0					.	.			.	.										4890.5934	
	20441.274	0					.	.			.	.										4890.6972	
1	20440.143	1	28214.784- 7774.653		12		.	.	3.0- 4.0		.	.		0.905	1.463	558				-53		4890.9678		
1	20439.593	0	19074.292-39513.870		15*		.	.	2.0- 1.0		.	.		1.532	0.965	567				-56		4891.0994		
1	20437.139	1	16520.962-36958.090		11*		.	.	5.0- 5.0		.	.		0.736	1.000	264				-56		4891.6868		
	20436.649	3					.	.			.	.										4891.8040	
1	20435.330	1	9724.351-30160.664		17		3.0-	4.0	3.0- 4.0		.445	1.030	.585	0.442	1.030	588			-181	-177		4891.8804		
2	20435.904	4	29074.145- 8638.233		-8		5.5-	5.5	5.5- 5.5		.	.	.575	0.940	1.514*	574			-056	-66		4891.9824		
	20435.130	0					.	.			.	.										4892.1557	
	20434.541	3					.	.			.	.										4892.3087	
2	20434.073	0	31160.405-10726.322		-10		.	.	3.5- 4.5		.	.		0.978	1.391	413			-145	355		4892.4207	ISQ	
1	20430.649	7	34772.583-14341.947		13		3.0-	2.0	3.0- 2.0		0.990	0.845	.145	0.990	0.852*	138			129	130		4893.2407		
1	20427.794	1	26572.296- 6144.515		13		.	.	2.0- 3.0		.	.		1.014	1.473	459				17		4893.9246		
2	20426.425	7	31152.740-10726.322		7		5.5-	4.5	5.5- 4.5		.	.	.148	1.240	1.391*	151						4894.2526		
1	20425.728	7	20425.711- 0.000		17		1.0-	0.0	1.0- 0.0		1.340	.000		1.340	0.000	0				-68		4894.4196		
2	20424.185	3	20073.840-40498.010		15		.	.	5.5- 4.5		.	.	SML	0.790	0.860*	70			250	253		4894.7893	DJ1	
1	20421.814	1	14763.705-35185.490		29		.	.	1.0- 1.0		.	.		-0.066	0.905	971			-211	-220		4895.3576		
2	20417.536	0	24387.360- 3969.846		22		.	.	1.5- 2.5		.	.		0.955	1.670	715				261		4896.3834		
2	20417.365	0	26070.615-46488.000		-20		.	.	3.5- 2.5		.	.		1.119	1.000*	119						4896.4244	C2	
2	20417.365	0	25614.115-46031.465		15		.	.	3.5- 2.5		.	.		1.480	0.800*	680						4896.4244	C2	
	20416.772	0					.	.			.	.										4896.5666	
	20413.828	1					.	.			.	.										4897.2728	
1	20413.355	6	12159.465-32572.811		9		4.0-	5.0	4.0- 5.0		.845	1.010	.165	0.844	1.010*	166			-251	-255		4897.3862		
2	20411.553	0	39173.105-18761.580		28		.	.	4.5- 5.5		.	.		1.035	1.296*	261						4897.8186		
2	20411.287	1	34844.620-14433.351		18		.	.	1.5- 1.5		.	.		1.528	1.925	397			243	237		4897.8824		
	20408.910	0					.	.			.	.										4898.4529	
2	20407.948	5	13192.903-33600.850		1		2.5-	2.5	2.5- 2.5		.370	1.255	.885	0.372	1.263	891			-095	-108		4898.6838		
2	20406.950	0	42326.310-21919.400		40		.	.	6.5- 7.5		.	.		1.095	1.345	250						4898.9234		
	20406.072	0					.	.			.	.										4899.1342	
2	20403.559	4	30111.540- 9707.980		-1		5.5-	6.5	5.5- 6.5		1.095	1.485	.390	1.100	1.485*	385			070	70*		4899.7376		
1	20403.309	2	13517.647-33920.944		12		.	.	2.0- 2.0		.	.		0.892	1.040*	148			-192	-193		4899.7976		
2	20399.820	0	35888.345-15488.530		5		.	.	2.5- 3.5		.	.		0.965	1.057	92			397	397*		4900.6356		
	20398.407	0					.	.			.	.										4900.9751	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES			
	20397.207	0																					
	20396.815	1																					
2	20394.519	2	12048.548	-	32443.065	2	1.5-	1.5	1.5-	1.5	-0.055	.730	.785	-0.054	0.730	784	-162	-168	4901.2634				
	20389.732	1																		4901.3576			
	20389.096	1																		4901.9094			
	20386.921	2					2.5-	2.5			.745	1.105	.360							4903.0603			
	20382.901	1					6.0-	6.0			1.05	.	.130							4903.2132			
2	20330.050	0	19466.530	-	39846.560	20	.	.	4.5-	4.5	.	.	.	1.151	1.021	130				4903.7364			
2	20373.819	6	12992.644	-	33366.475	-12	2.5-	1.5	2.5-	1.5	.640	.130	.510	0.643	0.129	514	+	29		4904.7035	f		
2	20373.595	3	42873.785	-	22500.225	35	.	.	5.5-	5.5	.	.	.	1.215	1.555	340				4905.3896			
2	20373.163	4	29615.520	-	9242.356	-1	4.5-	3.5	4.5-	3.5	1.160	1.370	.210	1.160	1.369	209				4906.8899			
	20371.402	0																			4906.9438		
	20370.909	0																			4907.0479		
1	20370.198	0	11840.715	-	32210.885	28	.	.	3.0-	4.0	.	.	.	0.811	0.995	184				4907.4721			
1	20368.947	1	14292.176	-	34661.105	18	.	.	5.0-	4.0	.	.	.	0.970	1.100	130				4907.5909			
2	20358.008	4	24337.845	-	3959.846	9	2.5-	2.5	2.5-	2.5	.900	1.665	.765	0.900	1.670	770	-153	-149		4907.7621			
2	20362.394	0	34088.695	-	13726.318	17	.	.	2.5-	2.5	.	.	.	0.900	1.670	770	114	94		4908.0636			
2	20359.558	1	25358.470	-	45718.025	3	.	.	4.5-	3.5	.	.	.	1.340	0.784	556	260	260*		4908.2898			
2	20359.087	1	12992.644	-	33351.730	1	.	.	2.5-	2.5	.	.	.	1.443	1.065	378				4909.6431			
	20358.247	0												0.643	0.800*	157	-236	-99		4910.3270	ISQ		
2	20357.353	5	22372.325	-	2014.966	-6	2.5-	1.5	2.5-	1.5	1.330	1.880	.550	1.330	1.881*	551	268	268*		4910.4406			
	20355.049	1																			4910.6432		
	20354.041	0																			4911.4147		
1	20353.698	6	24653.345	-	4299.659	12	1.0-	2.0	1.0-	2.0	.855	1.480	.625	0.860	1.482*	622			1	4911.6580			
2	20352.655	3	26070.615	-	5717.976	16	.	.	3.5-	3.5	.	.	.	1.119	1.596	477	+	47		4911.7407	PB		
	20352.182	0																			4911.9925		
2	20351.529	1	34077.830	-	13726.318	17	.	.	1.5-	2.5	.	.	.	1.650	0.784	866			209*	4912.1066			
1	20351.009	3	34692.946	-	14341.947	10	3.0-	2.0	3.0-	2.0	1.205	.860	.345	1.191	0.852	339	169	168		4912.2642			
	20350.451	0																			4912.3898		
	20348.413	1																			4912.5244		
1	20345.342	4	24644.996	-	4299.659	5	3.0-	2.0	3.0-	2.0	1.195	1.480	.285	1.195	1.482	287	-268			4913.0165			
1	20343.687	0	14912.011	-	35255.665	33	.	.	4.0-	4.0	.	.	.	0.496	1.080*	584	+		82		4913.7581		
	20343.154	0																			4914.1578		
1	20341.768	4	6313.866	-	26655.622	12	4.0-	3.0	4.0-	3.0	.485	1.015	.530	0.487	1.015	528	147			4914.2866			
2	20340.852	1	28421.805	-	48762.625	32	.	.	2.5-	3.5	.	.	.	0.878	0.820*	58	-169	-177			4914.6214		
1	20340.264	0	30578.731	-	10238.473	6	.	.	5.0-	6.0	.	.	.	1.209	1.431	222	-218				4914.8427		
	20337.863	0																		34	4914.9848		
1	20337.362	2	14025.007	-	34362.360	9	.	.	4.0-	5.0	.	.	.	0.975	1.120*	145	234				4915.5651		
2	20335.978	0	41628.325	-	21291.350	3	.	.	4.5-	4.5	.	.	.	1.155	1.590	435	-156	-160			4915.6862		
1	20336.162	0	16304.260	-	36640.400	22	.	.	4.0-	3.0	.	.	.	1.285	1.035	250	-226	-216			4915.7790		
	20333.271	2																			4915.9762		
1	20333.002	0	17045.776	-	37378.815	-37	.	.	1.0-	2.0	.	.	.	1.474	0.964	510	+		70		4916.6752		
2	20332.729	0	20073.840	-	40406.550	19	.	.	5.5-	4.5	.	.	.	0.790	1.090*	300					4916.7402		
1	20331.851	6	28106.505	-	7774.653	-1	3.0-	4.0	3.0-	4.0	.	.	.28	1.190	1.463*	273			3		4916.8063		
2	20331.697	6	27830.060	-	7498.364	1	2.5-	2.5	2.5-	2.5	1.210	1.315	.103	1.216	1.321	105	+		38		4917.0186		
	20329.589	0																			4917.0558		
1	20328.432	0	18578.669	-	38907.115	-14	.	.	1.0-	2.0	.	.	.	1.932	1.135	797					4917.5657		
2	20327.033	6	22341.990	-	2014.966	9	0.5-	1.5	0.5-	1.5	1.35	1.88	.53	1.370	1.831	511	+		84		4917.8456		
1	20323.016	1	12159.465	-	32482.465	16	.	.	4.0-	4.0	.	.	.	0.844	1.330*	486	-345	-342				4918.1841	
2	20320.029	2	39081.580	-	18761.580	29	4.5-	5.5	4.5-	5.5	1.23	1.290	.06	1.207	1.296	89	238	236				4919.1562	
	20317.202	1																				4919.8793	
1	20316.776	0	14737.783	-	35054.565	-1	.	.	3.0-	3.0	.	.	.	0.815	0.998	183	-170	-209				4920.5639	
1	20315.371	1	13726.661	-	34042.040	-8	.	.	3.0-	4.0	.	.	.	1.150	0.806	344	-168	-153				4920.6671	
1	20314.718	5	22518.312	-	2203.606	12	2.0-	1.0	2.0-	1.0	1.345	1.490	.145	1.350	1.495	145			-49			4921.1656	
1	20314.078	5	34656.014	-	14341.947	11	3.0-	2.0	3.0-	2.0	1.110	.860	.250	1.110	0.852	258	177	173				4921.3206	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
		20312.931	1																			
		20309.594	1																			
1		20307.327	3	36583.653	-	16276.332	6	1.0-	2.0	1.0-	2.0	1.140	1.880	.740	1.135	1.880*	745	080	80	4921.5985		
		20306.576	0																		4922.4072	
		20305.817	0																		4922.9567	
		20305.098	0																		4923.1387	
		20302.717	0																		4923.3228	
		20302.312	0																		4923.4971	
		20301.415	0																		4924.0745	
2		20300.134	3	27798.480	-	7498.364	18	3.5-	2.5	3.5-	2.5	1.055	1.315	.260	1.060	1.321*	261	084	90	4924.1727		
		20299.743	1																		4924.3903	
		20299.414	0																		4924.7011	
		20299.212	1																		4924.7959	
		20297.612	0																		4924.8757	
		20296.242	1																		4924.9247	
		20295.016	0																		4925.3130	
		20294.482	0																		4925.6454	
1		20293.600	3	12351.522	-	32645.106	16	6.0-	5.0	6.0-	5.0	.98	1.13	.15	0.995	1.135	140	-251	-255	4925.9430		
1		20292.652	2	37615.923	-	17323.291	20	.-	.-	5.0-	4.0				1.095	1.250*	155		150	4926.0726		
2		20291.704	5	20291.680	-	0.000	24	1.5-	0.5	1.5-	0.5	1.39	3.14	1.75	1.377	3.150	1773	154	152	4926.2867		
		20290.057	3					2.0-	3.0			.52	.96	.44							4926.5168	
2		20288.849	1	28927.075	-	8638.233	7	.-	.-	4.5-	5.5				1.040	1.514*	474		92*	4926.7470		
2		20288.150	2	42207.525	-	21919.400	25	.-	.-	6.5-	7.5				1.140	1.345	205	251	251	4927.1469		
		20284.918	0																		4927.4403	
2		20284.520	3	17296.905	-	37581.395	30	4.5-	3.5	4.5-	3.5	.495	.750	.255	0.494	0.748	254	190	193	4927.6101		
1		20283.024	1	9386.801	-	29669.807	18	.-	.-	5.0-	6.0				0.801	1.150	349	-158	-161	4928.3952		
1		20280.129	2	8768.139	-	29048.255	13	2.0-	1.0	2.0-	1.0	.36	.90	.540	0.362	0.900	538	-263	-263	4928.4919		
1		20279.103	1	15074.958	-	35354.050	11	.-	.-	7.0-	7.0				1.097	0.000*	0	-160	-155	4928.8554		
		20278.519	1																		4929.5590	
2		20275.680	3	28913.915	-	8638.233	-2	5.5-	5.5	5.5-	5.5	1.32	1.53	.21	1.300	1.514*	214	275	116	4929.8084		
1		20270.427	2	16520.962	-	36791.380	9	5.0-	5.0	5.0-	5.0			.29	0.736	1.025	289			4929.9504	ISQ	
1		20268.411	0	14763.705	-	35032.090	26	.-	.-	1.0-	0.0				-0.066	0.000	0			4930.6407		
		20266.950	1																		4931.9185	
1		20264.848	1	17554.704	-	37819.580	-28*	.-	.-	8.0-	7.0				1.170	1.110*	60			4932.4090		
		20264.417	0																		4932.7646	
		20264.045	0																		4933.2763	
1		20262.987	5	11840.715	-	32103.687	15	3.0-	4.0	3.0-	4.0	.82	1.05	.225	0.811	1.040	229	-188	-193	4933.3312		
		20261.475	0																		4933.4718	
1		20258.992	0	19074.292	-	39333.250	34	.-	.-	2.0-	2.0				1.532	0.995	537			4933.7294		
2		20257.748	5	13192.903	-	33450.655	-4	2.5-	2.5	2.5-	2.5	.370	.935	.565	0.372	0.941	569	-123	-123	4934.0975		
		20257.230	0																		4934.7023	
1		20256.981	0	14692.549	-	34949.520	10	.-	.-	2.0-	2.0				0.292	1.085	793	-207	-216	4935.0053		
		20255.312	1																		4935.1315	
		20254.648	2																		4935.1922	
2		20252.493	0	28225.815	-	48478.270	38	.-	.-	3.5-	3.5				1.200	0.970*	230			4935.5988		
1		20251.977	0	16532.104	-	36784.100	-19	.-	.-	3.0-	3.0				0.300	1.115	815			4935.7606		
1		20251.710	0	9724.351	-	29976.039	22	.-	.-	3.0-	4.0				0.442	1.070	628			4936.2859		
1		20250.455	0	9386.801	-	29637.242	14	.-	.-	5.0-	6.0				0.801	1.020	219			4936.4116		
		20250.249	2																		4936.4767	
1		20248.778	4	17554.704	-	37803.470	12	.-	.-	8.0-	9.0				1.170	1.220*	50	-153	-196	4936.7326		
1		20248.074	1	15074.958	-	35323.031	1	.-	.-	7.0-	6.0				1.097	1.090	7			4936.8329		
		20247.514	1																		4937.1915	DJ1
1		20246.985	4	28021.637	-	7774.653	1	5.0-	4.0	5.0-	4.0	1.40	1.46	.06	1.400	1.463*	63	-082	-68	4937.3632		
2		20244.964	3	25962.945	-	5717.976	-5	4.5-	3.5	4.5-	3.5	1.015	1.545	.530	1.065	1.596	531		161	4937.4997	DJ1	
		20244.461	1H																		4938.1217	
																					4938.2444	HAZY

C	HA	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
2	20239.	279	1	20073.840-40313.110		9	.	.	5.5-	4.5	.	.	.	.	0.790	1.010*	220	-307		4939.5087	ISQ
	20238.985	1	1				.	.			.	.	.	.						4939.5805	
1	20238.879	0	0	14737.783-34976.640		27	.	.	3.0-	3.0	.	.	.	.	0.815	1.160*	345	-319		4939.6064	
2	20238.179	0	0	41529.540-21291.350		-11	.	.	4.5-	4.5	.	.	.	.	1.165	1.590	425			4939.7772	
2	20236.865	1	1	24206.690-3969.846		21	.	.	1.5-	2.5	.	.	.	.	0.863	1.670	807	-47		4940.0980	
2	20233.341	2	2	32032.585-11799.241		-3	4.5-	5.5	4.5-	5.5	1.335	1.375	.040		1.335	1.373	38	15		4940.9584		
	20232.803	0	0				.	.			.	.	.	.						4941.0898	
	20232.471	0	0				.	.			.	.	.	.						4941.1709	
1	20232.099	0	0	16304.260-36536.380		-21	.	.	4.0-	3.0	.	.	.	.	1.285	0.950*	335	-171		4941.2617	
	20231.304	0	0				.	.			.	.	.	.						4941.4559	
1	20230.811	1	1	19872.154-40102.977		-12	.	.	9.0-	10.0	.	.	.	.	1.199	1.310*	111	-227		4941.5763	
2	20229.891	2	2	17296.905-37526.775		21	4.5-	4.5	4.5-	4.5	.500	.595	.097		0.494	0.591	97	403	404	4941.8010		
2	20225.531	0	0	19277.180-39502.705		6	.	.	3.5-	3.5	.	.	.	.	0.847	0.920*	73	-67		4942.8663	
2	20215.375	2	2	15641.100-35856.485		-10	.	.	3.5-	3.5	1.02	1.02			1.040	1.025*	15	-317		4945.3496		
2	20214.956	5	5	29457.315-9242.356		-3	4.5-	3.5	4.5-	3.5	1.22	1.36	.140		1.230	1.369	139	27*		4945.4521		
1	20213.390	2	2	22416.990-2203.606		6	2.0-	1.0	2.0-	1.0	1.675	1.495	.180		1.675	1.495	180	-	-57	4945.8353		
1	20208.298	2	2	14292.176-34500.445		29	.	.	5.0-	6.0	.	.	.	.	0.970	1.030	60	-230	-238	4947.0815	
	20206.031	1	1				.	.			.	.	.	.				-185		4947.6366	
	20204.219	1	1				.	.			.	.	.	.				+		4948.0803	
2	20202.898	1	1	32210.400-12007.503		1	.	.	2.5-	1.5					1.339-0.019	1358			318	4948.4038		
	20199.548	2	2				2.0-	2.0			1.08	1.65	.57					+		4949.2245		
2	20199.326	2	2	15657.156-35856.485		-3	.	.	2.5-	3.5	1.00	1.02	.02		1.000	1.025	25	-308	-305	4949.2789	SI	
1	20197.551	1	1	9724.351-29921.899		3	.	.	3.0-	2.0	.	.	.	.	0.442	1.070*	628	-267	-273	4949.7139	
2	20196.739	0	0	17532.937-37729.665		11	.	.	3.5-	2.5	.	.	.	.	1.238	1.050*	188	-335		4949.9129	
1	20194.291	2	2	13726.661-33920.944		8	.	.	3.0-	2.0	.	.	.	.	1.150	1.040*	110	-208	-206	4950.5129	
	20193.289	1	1				.	.			.	.	.	.						4950.7586	
	20191.605	1	1				.	.			.	.	.	.					98	4951.1715	
1	20188.604	0	0	10486.922-30675.497		29	.	.	1.0-	2.0	.	.	.	.	0.355	0.375	20	-188	-172	4951.9075	
	20180.037	0	0				.	.			.	.	.	.					-241	4954.0097	
2	20177.879	1	1	17121.640-37299.525		-6	.	.	5.5-	5.5	.	.	.	.	0.000	0.923	0			4954.5396	
1	20177.551	4	4	29356.804-9179.262		9	5.0-	5.0	5.0-	5.0	1.175	1.450	.275		1.190	1.454*	264	100	100	4954.6201		
1	20176.760	0	0	11840.715-32017.434		41	.	.	3.0-	4.0	.	.	.	.	0.811	1.020*	209	-252	-244	4954.8143	CQ
2	20173.573	5	5	13192.903-33366.475		1	2.5-	1.5	2.5-	1.5	.370	.115	.255		0.372	0.129	243	+	25	4955.5971		
1	20173.234	5	5	26317.729-6144.515		20	.	.	4.0-	3.0	.	.	.	.	1.180	1.473*	293	-	-67	4955.6804	SO
2	20165.562	5	5	31964.795-11799.241		8	6.5-	5.5	6.5-	5.5	1.185	1.375	.190		1.189	1.373	184			4957.5658		
	20165.089	0	0				.	.			.	.	.	.						4957.6821	
1	20162.980	0	0	10486.922-30649.882		20	1.0-	0.0	1.0-	0.0	.35	.000			0.355	0.000	0		-223	4958.2007		
	20162.702	4	4				.	.			1.02	.	.15					69		4958.2690	f SO2JDG	
1	20162.216	2	2	6313.856-26476.068		14	.	.	4.0-	4.0	.	.	.	.	0.487	1.605	1118	-391	-393	4958.3885	
2	20158.823	4	4	13192.903-33351.730		-4	2.5-	2.5	2.5-	2.5	.38	.82	.440		0.372	0.800*	428	-102	-103	4959.2231		
1	20156.971	2	2	24456.635-4299.659		-5	.	.	3.0-	2.0	.	.	.	.	1.000	1.482*	482		-2	4959.6788	
	20156.430	2	2				.	.			.	.	.	.					146	4959.8119	
1	20155.285	5	5	34497.235-14341.947		-3	3.0-	2.0	3.0-	2.0	1.07	0.87	.20		1.070	0.852*	218	137	129	4960.0936		
	20152.341	1	1								+		4960.8183	
	20150.699	0	0				.	.			.	.	.	.						4961.2225	
	20149.599	0	0				.	.			.	.	.	.						4961.4934	
2	20149.358	0	0	35637.895-15488.530		-7	.	.	3.5-	3.5	.	.	.	.	1.158	1.057	101			4961.5527	
1	20147.928	0	0	33925.820-13677.903		11	.	.	2.0-	1.0	.	.	.	.	1.104	1.442	338		-50	4961.9048	
1	20146.203	1	1	12177.963-32324.169		-3	1.0-	0.0	1.0-	0.0	.52	.000			0.525	0.000	0	-169	-176	4962.3297		
1	20143.774	2	2	11840.715-31984.470		19	3.0-	3.0	3.0-	3.0	.	.	.280		0.811	1.090	279	-87	-95	4962.9281		
1	20142.558	1	1	14912.011-35054.565		4	.	.	4.0-	3.0	.	.	.	.	0.496	0.998	502		-38	4963.2277	
2	20142.200	2	2	17295.905-37439.105		0	4.5-	3.5	4.5-	3.5	.45	.87	.42		0.494	0.926	432	+	58*	4963.3159		
	20141.837	0	0				.	.			.	.	.	.						4963.4054	
1	20140.305	1	1	18046.108-38186.420		-7	.	.	4.0-	5.0	.	.	.	.	0.694	0.952	258	+	21	4963.7829	
1	20136.781	0	0	30375.227-10238.473		27	.	.	6.0-	6.0	.	.	.	.	1.320	1.431*	111		-103	4964.6516	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES		
	20136.398	1																		
1	20135.643	6	6313.856-26449.501		8	4.0-	3.0	4.0-	3.0	.47	.91	.44	0.487	0.940*	453	-265	-270	4964.7460		
	20133.648	0																4964.9322	PB	
	20133.313	1	37456.630-17323.291		-26	.	.	5.0-	4.0	.	.	.	1.085	1.250*	165	+		4965.4242		
1	20129.385	2	11840.715-31970.100		0	3.0-	4.0	3.0-	4.0	.81	1.08	.27	0.811	1.100*	289	-192	-199	4965.5068		
1	20127.462	1	12351.522-32478.986		-2	.	.	6.0-	6.0	.985	.985	.	0.995	1.110	115	-261	-301	4966.4758	DJO	
	20125.452	3																4966.9503		
	20125.027	0																4967.4464		
	20120.517	0																4967.5364		
2	20113.809	0	35607.320-15488.530		19	.	.	3.5-	3.5	.	.	.	1.150	1.057	93			4968.6647		
1	20117.243	7	6313.256-26431.101		13	4.0-	3.0	4.0-	3.0	.52	.86	.34	0.487	0.807	320	-250	-254	4969.0866		
1	20115.057	7	29295.313- 9179.262		6	4.0-	5.0	4.0-	5.0	1.27	1.45	.18	1.270	1.454*	184		2	4969.4721	PB	
2	20113.701	2	29821.685- 9707.980		-4	5.5-	6.5	5.5-	6.5	.	.	.48	1.005	1.485	480		68	4969.7664		
1	20112.572	1	16888.909-37001.490		-9	6.0-	6.0	6.0-	6.0	1.098	1.035	.063	1.098	1.035	63	-240	-235	4970.3485		
1	20106.860	0	16520.962-36627.825		-3	.	.	5.0-	4.0	.	.	.	0.736	0.980	244	+	33	4970.6275	DJO	
	20105.429	0																4972.0396		
	20105.111	0																4972.3935		
	20103.552	0																4972.4721		
1	20102.283	2	12322.613-32424.890		6	2.0-	1.0	2.0-	1.0	1.02	1.76	.74	1.036	1.770*	734	-263	-263	4972.8578		
1	20099.739	1	16155.109-36254.860		-12	.	.	5.0-	5.0	.	.	.	0.948	1.030	82		-185	4973.1717		
2	20098.750	1	43348.445-23249.745		50	.	.	5.5-	4.5	.	.	.	1.115	1.475	360			4973.8011		
	20098.173	1																4974.0459		
2	20096.708	2	29804.680- 9707.980		8	6.5-	6.5	6.5-	6.5	.	.	.44	0.910	1.485*	575		65*	4974.1887		
1	20095.735	2	16532.104-36627.825		14	3.0-	4.0	3.0-	4.0	.30	.97	.67	0.300	0.980	680	+	29	4974.5513		
1	20094.834	0	15074.958-35169.790		2	.	.	7.0-	6.0	.	.	.	1.097	1.120*	23		-248	4974.7922		
1	20094.293	0	18046.108-38140.400		1	.	.	4.0-	3.0	.	.	.	1.097	1.120*	426			4975.0152		
	20092.604	1																4975.1492		
2	20090.655	1	35579.170-15488.530		15	.	.	2.5-	3.5	.	.	.	1.190	1.057*	133	-207		4975.5674		
	20090.266	0																313	4976.0501	
	20085.015	0																313*	4976.1464	
1	20083.332	3	12159.465-32242.810		-13	.	.	4.0-	5.0	.	.	.	0.844	1.215	371	-305	-309	4977.4474		
1	20081.180	5	12351.522-32432.630		22	6.0-	7.0	6.0-	7.0	.98	1.13	.15	0.995	1.140	145	-168	-173	4977.8645		
2	20080.081	1	24976.585-45056.650		16	.	.	3.5-	2.5	.	.	.	0.960	1.030	70			4978.3980		
	20079.669	1																4978.6705		
2	20076.863	5	23312.615- 3235.770		18	1.5-	0.5	1.5-	0.5	.70	.30	.40	0.680	0.299*	381	-263		4978.7726		
2	20075.828	3	30802.205-10726.322		5	.	.	4.5-	4.5	.	.	.	1.160	1.391*	231	118	125	4979.4685		
	20074.813	2															-50		4979.7103	
2	20071.882	6	25573.915- 5502.060		27	1.5-	1.5	1.5-	1.5	1.62	1.16	.46	1.627	1.169	458	48	-46	4979.9770		
1	20070.184	2	14292.176-34362.360		0	.	.	5.0-	5.0	.	.	.	0.970	1.120*	150	-158	-158	4980.7042	IS*	
	20068.575	1															183		4981.1256	
	20066.622	2															070		4981.5249	
	20065.983	1																	4981.9949	
2	20064.528	6	30790.830-10726.322		20	5.5-	4.5	5.5-	4.5	1.175	1.390	.215	1.175	1.391	216	105	102	4982.1684		
2	20062.039	2	13192.903-33254.995		-3	.	.	2.5-	3.5	.	.	.	0.372	0.975	603	-332	-323	4982.5297		
2	20060.870	0	41352.185-21291.350		35	.	.	4.5-	4.5	.	.	.	1.225	1.590	365			4983.1355		
	20060.521	0																	4983.4383	
2	20060.057	0	36346.625-16285.582		14	.	.	0.5-	0.5	.	.	.	2.240	0.122*	2362		342*	4983.5250		
2	20056.750	7	20056.725- 0.000		25	0.5-	0.5	0.5-	0.5	.04	3.14	3.10	0.047	3.150	3103	145	138	4983.6402		
1	20055.573	0	34397.513-14341.947		7	.	.	3.0-	2.0	.	.	.	1.155	0.852	303	210	192*	4984.4620		
1	20054.478	4	29233.723- 9179.262		17	4.0-	5.0	4.0-	5.0	.	.	.195	1.260	1.454*	194	105	89	4984.7545		
1	20052.910	2	12351.522-32404.416		16	.	.	6.0-	5.0	.	.	.	0.995	1.055	60	-170	-164	4985.0267		
	20052.433	1																	4985.4165	
	20050.426	1																	4985.5351	
2	20047.828	6	28686.100- 8638.233		21	5.5-	5.5	5.5-	5.5	.	.	.23	1.290	1.514*	224	+	71	4986.0341		
1	20047.154	8	6313.866-26360.997		23	4.0-	5.0	4.0-	5.0	.485	.795	.310	0.487	0.796	309	-235	-239	4986.6653		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1											G2	G1	DG	G2	G1	DG	IS	IS
	20046.344	1																		
2	20044.031	3	20044.005-	0.000	26	1.5-	0.5	1.5-	0.5	.830	3.165	2335	0.820	3.150	2330	140	141	4987.0494		
1	20037.133	9	6313.866-26350.982	17	4.0-	4.0	4.0-	4.0	.485	.800	.315	0.487	0.796	309	-139	-139	4987.6249			
	20036.572	4																4989.3420		
1	20034.894	0	14853.317-34888.198	13	.	.	4.0-	5.0	.	.	.	0.786	1.070	284		-120	4989.4817			
	20034.066	0																4989.8996		
	20026.861	0														099		4990.1058		
	20026.600	1																4991.9011		
1	20025.667	2	8768.139-28793.800	6	.	.	2.0-	3.0	.	.	.	0.362	1.083	721	-292	-288	4991.9662			
2	20023.998	1	22038.950- 2014.966	14	.	.	0.5-	1.5	.	.	.	0.344	1.881	1537		-97	4992.1987			
1	20023.998	1	30262.453-10238.473	18	.	.	6.0-	6.0	.	.	.	1.284	1.431	147		-70	4992.6149	C2		
	20022.714	0																4992.6149	C2	
2	20022.026	3	40344.355-20322.349	20	.	.	5.5-	6.5	.	.	.	1.165	1.314	149	197	198*	4992.9350			
1	20020.859	3	36297.181-16276.332	10	2.0-	2.0	2.0-	2.0	1.01	1.88	.87	1.010	1.880*	870	170	196	4993.1066			
1	20014.234	3	29193.490- 9179.262	6	6.0-	5.0	6.0-	5.0	1.24	1.42	.18	1.240	1.454*	214		-19	4993.3976			
1	20010.241	1	37333.515-17323.291	17	5.0-	4.0	5.0-	4.0	1.07	1.25	.18	1.065	1.250*	185	168	168	4995.0505			
1	20005.035	4	26149.538- 6144.515	12	4.0-	3.0	4.0-	3.0	1.37	1.48	.11	1.360	1.473*	113		-48	4996.0473			
	20004.011	3																4997.3475		
	20003.903	2																4997.6033		
	20002.797	0																4997.6303		
	20000.767	0																4997.9066		
2	20000.471	0	14295.565-34296.050	-14	.	.	3.5-	4.5	.	.	.	0.790	0.768	22		-252	4998.4139			
2	19998.946	0	31798.195-11799.241	-8	.	.	4.5-	5.5	.	.	.	1.290	1.373*	83		88	4998.4879			
1	19998.199	0	13726.661-33724.837	23	.	.	3.0-	3.0	.	.	.	1.150	1.160	10		-245	4998.8690			
	19996.827	1																4999.0557		
1	19995.965	1	35741.610-15745.648	3	.	.	3.0-	3.0	.	.	.	0.965	1.145	180			4999.3987			
1	19995.965	1	16532.104-36528.070	-1	.	.	3.0-	3.0	.	.	.	0.300	0.985	685			4999.6143	C2		
	19995.550	2																4999.6143	C2	
2	19994.736	3	33721.040-13726.318	14	.	.	1.5-	2.5	.	.	.	1.228	0.784	444	324	338	4999.7180			
	19994.386	1																4999.9216		
2	19993.741	2	12992.644-32986.390	-5	.	.	2.5-	2.5	.	.	.	0.643	1.040*	397	-353	-337	5000.0091			
2	19991.478	3	35479.995-15488.530	13	.	.	3.5-	3.5	.	.	.	1.335	1.057	278	131		5000.1704			
	19988.661	0																5000.7364		
2	19983.101	2	27266.960- 7278.862	3	3.5-	4.5	3.5-	4.5	1.20	1.57	.37	1.155	1.545	390	059	97	5001.4412			
2	19983.385	5	13509.910-33793.295	0	4.5-	4.5	4.5-	4.5	.640	.795	.155	0.657	0.800	143	-319	-315	5001.5813			
1	19981.360	1	27755.977- 7774.653	36	.	.	3.0-	4.0	.	.	.	1.370	1.463	93	-083	-95	5002.7617			
	19981.095	0																5003.2687		
	19980.171	0																5003.3350		
	19978.554	1																5003.5664		
	19977.605	1																5003.9714		
2	19977.030	4	21991.980- 2014.966	16	2.5-	1.5	2.5-	1.5	1.35	1.88	.53	1.344	1.881	537	138	139	5004.2091			
1	19976.446	7	6313.866-26290.302	10	4.0-	5.0	4.0-	5.0	.485	1.125	.640	0.487	1.125	638	-358	-365	5004.3531			
1	19976.208	4	14912.011-34888.198	21	.	.	4.0-	5.0	.	.	.555	0.496	1.070	574		-23	5004.4994			
2	19975.412	0	40297.730-20322.349	31	.	.	5.5-	6.5	.	.	.	1.070	1.314	244			5004.5591			
2	19973.928	0	25293.605-45267.550	-17	.	.	3.5-	4.5	.	.	.	0.970	1.045*	75			5004.7585			
2	19973.472	0C	20063.650-40037.110	12*	.	.	4.5-	5.5	.	.	.	1.049	0.834	165		-2	5005.1303			
1	19972.725	1	22176.323- 2203.606	8	.	.	1.0-	1.0	.	.	.	1.210	1.495*	285		-34	5005.2446	HAZY		
1	19972.306	0	8768.139-28740.433	12	.	.	2.0-	3.0	.	.	.	0.362	0.970	608		-264	5005.4318			
	19971.916	0																5005.5368		
2	19968.756	1	16362.000-36330.720	36	.	.	4.5-	4.5	.	.	.	1.050	1.160*	110		-348	5005.6346			
	19968.579	0																5006.4267		
2	19967.968	1	27466.315- 7498.354	17	.	.	1.5-	2.5	.	.	.	1.793	1.321	472		170	5006.4711			
2	19963.286	2	20073.840-40037.110	16*	.	.	5.5-	5.5	.	.	.	0.790	0.884*	94	241	241	5006.6243			
1	19961.447	5	26105.952- 6144.515	10	2.0-	3.0	2.0-	3.0	1.145	1.470	.324	1.165	1.473	308		72	5007.7985			
1	19960.755	0	15249.635-35210.360	30	.	.	2.0-	2.0	.	.	.	0.715	1.180*	465		-230	5008.2599			
																		5008.4335		

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	19960.425	0	29732.960	9772.532	-3	.	.	1.0- 0.0	.	.	.	1.289	0.000	0	+	-40	5008.5163		
1	19959.058	1	19359.027	0.000	31	1.0- 0.0	1.0- 0.0	.	.74	.000	.	0.760	0.000*	0	-115	-123	5008.8593		
2	19955.400	3	29197.755	9242.356	1	2.5- 3.5	2.5- 3.5	.	1.00	1.37	.37	0.989	1.369	380	+	52	5009.7775		
1	19953.900	3	36250.220	16276.332	12	2.0- 2.0	2.0- 2.0	.	1.20	1.88	.68	1.200	1.830*	680	219	219	5010.1541		
1	19952.028	0	16595.109	36547.135	2	.	.	3.0- 4.0	.	.	.	0.999	1.080	81	.	.	5010.6242		
	19951.825	0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5010.6752	
1	19243.947	4	37521.550	17572.608	5	3.0- 2.0	3.0- 2.0	.	1.28	.52	.76	1.315	0.555	760	+	.	5011.3981		
1	19248.310	1	16383.909	36837.190	29*	.	.	6.0- 5.0	.	.	.	1.098	0.965	133	-	.	5011.5581		
1	19245.070	2	12351.522	32299.581	11	.	.	6.0- 5.0	.	.	.	0.995	0.000*	0	-253	-259	5011.6184		
	19245.402	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5012.2888	
2	19914.812	0	11504.095	31448.910	-3	.	.	3.5- 2.5	.	.	.	0.859	0.800	59	.	-638	5012.4371		
1	19944.227	2	12159.465	32103.687	5	.	.	4.0- 4.0	.	.	.	0.844	1.040	196	-175	-192	5012.5841		
1	19943.728	0	13517.647	33461.419	16	.	.	2.0- 3.0	.	.	.	0.892	0.950*	58	.	-291	5012.6944		
2	19942.724	3	41862.090	21919.400	34	.	.	6.5- 7.5	.	.	.	1.145	1.345	200	364	364*	5012.9619		
2	19941.334	1	37104.860	17163.470	-6	.	.	4.5- 4.5	.	.	.	1.171	1.200	29	385	377	5013.2987		
1	19939.346	4	29118.602	9179.262	6	.	.	4.0- 5.0	.	.	.	1.510	1.454*	56	-	-32	5013.8112	DJ1	
2	19939.079	2	29647.060	9707.980	-1	.	.	6.5- 6.5	.	.	.	0.980	1.485*	505	+	20*	5013.8783		
1	19935.175	0	38473.945	18538.782	12	.	.	3.0- 2.0	.	.	.	1.020	1.600*	580	119	.	5014.8602		
2	19934.949	1	23170.720	3235.770	-1	0.5- 0.5	0.5- 0.5	.	1.03	.30	.73	1.082	0.299*	783	.	133	5014.9171		
	19934.664	0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5014.9888	
1	19932.571	0	19776.904	39709.460	15*	.	.	6.0- 5.0	.	.	.	1.012	1.070	58	.	-246	5015.5154		
1	19932.385	0	16888.909	36821.290	4	.	.	6.0- 5.0	.	.	.	1.098	1.162	64	.	-293	5015.5622		
1	19931.165	4	27705.804	7774.653	14	5.0- 4.0	5.0- 4.0	.	1.155	1.460	.305	1.160	1.463*	303	+	20	5015.8692		
1	19923.315	0	14737.788	34661.105	-2	.	.	3.0- 4.0	.	.	.	0.815	1.100	285	-146	-150	5017.8455		
	19921.910	0	237	.	5018.1994	
	19919.950	1B	5018.6932	
2	19919.847	1	30646.175	10726.322	-6	.	.	3.5- 4.5	.	.	.	1.272	1.391	119	+	30	5018.7191		
	19917.430	1	-379	.	5019.3281	
	19917.162	1	5019.3957	
	19913.623	2	5020.2877	
1	19913.379	2	39692.853	19779.507	33	.	.	3.0- 4.0	.	.	.	1.025	0.000*	0	.	39*	5020.3492		
	19911.852	0H	237	.	5020.7342	HAZY
	19911.223	0H	5020.8929	HAZY
2	19909.495	0	31916.975	12007.503	23	.	.	1.5- 1.5	.	.	.	1.363	0.019	1382	.	330*	5021.3286		
2	19907.995	0	40965.950	21057.925	-30	.	.	3.5- 2.5	.	.	.	1.105	1.590	485	.	.	5021.7070		
2	19907.148	1H	21048.190	40955.385	-47	.	.	2.5- 3.5	.	.	.	1.030	0.850*	180	.	-137	5021.9206	HAZY	
1	19903.570	3	9386.801	29290.355	16	.	.	5.0- 6.0	.	.	.	0.801	0.920	119	-196	-196	5022.8234		
2	19903.018	3	31702.260	11799.241	-1	.	.	6.5- 5.5	.	.	.315	1.050	1.373*	323	.	27	5022.9627	DJ1	
2	19901.603	8	25403.645	5502.060	18	2.5- 1.5	2.5- 1.5	.	1.02	1.16	.14	1.029	1.169	140	+	63	5023.3199		
1	19900.653	5	9724.351	29625.003	1	3.0- 2.0	3.0- 2.0	.	.45	.92	.47	0.442	0.910*	468	-188	-190	5023.5597		
1	19898.838	1	34240.784	14341.947	1	3.0- 2.0	3.0- 2.0	.	.	.	.22	1.067	0.852	215	155	157	5024.0179	
2	19896.153	2	25614.115	5717.976	14	.	.	3.5- 3.5	.	.	.	1.480	1.596*	116	.	122 135	5024.6959	DJ0	
	19894.000	1	171	.	5025.2397	
1	19893.448	1	36669.985	16776.530	-7	.	.	1.0- 1.0	.	.	.	1.010	0.000*	0	.	.	5025.3791		
1	19892.876	1	14912.011	34804.860	27	.	.	4.0- 4.0	.	.	.	0.496	0.941	445	-107	-125	5025.5236		
1	19891.741	3	6313.866	26205.589	18	4.0- 3.0	4.0- 3.0	.	.	.	.213	0.487	0.701	214	-188	-191	5025.8104	
2	19890.989	2	16352.000	36252.985	4	.	.	4.5- 3.5	1.12	.	.	1.050	1.004*	46	-112	-118	5026.0004	f	
1	19889.002	4	24188.639	4299.659	22	1.0- 2.0	1.0- 2.0	.	.670	1.480	.810	0.667	1.482	815	-	-69	5026.5025		
1	19886.024	1	16532.104	36418.125	3	.	.	3.0- 4.0	.	.	.	0.300	1.075	775	+	5	5027.2553		
	19885.274	0	5027.4449	
	19884.716	0	-161	.	5027.5860	
1	19882.024	0C	14853.317	34735.314	27	.	.	4.0- 3.0	.	.	.	0.786	0.899	113	-190	-185	5028.2667	HAZY	
1	19879.002	4	14292.176	34171.155	23	5.0- 5.0	5.0- 5.0	.	.960	1.225	.265	0.970	1.230	260	.	-77	5029.0311		
1	19877.856	1	13726.661	33604.497	20	.	.	3.0- 3.0	.	.	.	1.150	1.210	60	-176	-186	5029.3210		
1	19873.988	0	37639.270	17765.281	-1	.	.	2.0- 3.0	.	.	.	1.020	1.680*	660	.	125	5030.2999		

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	19871.122	1				2.5-	2.5			.73	1.09	.36						5031.0254	
1	19869.061	3	27643.693-	7774.653	21	4.0-	4.0	4.0-	4.0			.17	1.310	1.463*	153	-078	-90	5031.5473	
	19866.318	1														162		5032.2420	
1	19865.877	1	16304.260-	36170.110	27*			4.0-	4.0				1.285	0.942*	343		-214	5032.3537	
2	19864.812	4	13192.903-	33357.710	5	2.5-	3.5	2.5-	3.5	.380	.855	.475	0.372	0.857	485	-126	-125	5032.6235	
1	19864.511	2	26009.000-	6144.515	26			3.0-	3.0				0.870	1.473*	603		-46	5032.6998	
	19858.841	0														152		5034.1367	
1	19855.332	0	14692.549-	34548.900	-19			2.0-	2.0				0.292	0.850*	558		-164	5034.7728	
1	19855.720	0	37428.345-	17572.608	-17			2.0-	2.0				1.330	0.555*	775			5034.9280	
1	19853.616	1	13517.647-	33371.251	12			2.0-	3.0				0.892	1.113	221	-193	-197	5035.4616	
2	19852.382	1	15641.100-	35493.485	-3			3.5-	3.5				1.040	0.931*	109	-244	-262	5035.7746	DJO
2	19848.747	0	37012.210-	17163.470	7			4.5-	4.5				1.164	1.200	36	358	368	5036.6968	
1	19847.931	1	14692.549-	34540.469	11			2.0-	3.0				0.292	0.888	596	-279	-265	5036.9039	
1	19844.280	2	13726.661-	33570.935	6			3.0-	4.0				1.150	1.130*	20		-173	5037.8306	
1	19843.903	1	16520.962-	36364.850	15			5.0-	4.0				0.736	1.080*	344		-1	5037.9263	
2	19843.742	4	35332.255-	15488.530	17			2.5-	3.5				1.263	1.057	206	221	234	5037.9672	
2	19843.274	4	28431.495-	8638.233	12	4.5-	5.5	4.5-	5.5	1.07	1.51	.44	1.070	1.514*	444		15	5038.0860	
2	19840.134	2	27338.500-	7498.364	-2	1.5-	2.5	1.5-	2.5	.870	1.315	.445	0.876	1.321	445	+	61	5038.8834	
2	19838.782	0	25556.740-	5717.976	18			4.5-	3.5				0.976	1.596	620			5039.2268	
2	19836.330	0	15657.156-	35493.485	1			2.5-	3.5				1.000	0.931	69		-250	5039.8497	
1	19834.259	2	9724.351-	29558.591	19	3.0-	2.0	3.0-	2.0	.45	1.04	.59	0.442	1.030	588	-381	-383	5040.3760	
1	19831.288	4	10486.922-	30318.195	15	1.0-	2.0	1.0-	2.0	.35	.94	.59	0.355	0.940	585	-209	-212	5041.1311	
1	19830.379	6	9724.351-	29554.716	14	3.0-	3.0	3.0-	3.0	.445	.825	.380	0.442	0.831	389	-170	-182	5041.3622	
1	19823.321	2	14912.011-	34735.314	18			4.0-	3.0				0.496	0.899	403	-081	-88	5043.1571	
	19821.016	0																5043.7436	
	19820.684	0																5043.8281	
	19820.376	0																5043.9065	
1	19817.717	5	14853.317-	34670.995	39			4.0-	5.0				0.786	1.010*	224		-139	5044.5833	
1	19817.524	7	9386.801-	29204.308	17	5.0-	5.0	5.0-	5.0	.800	.895	.095	0.801	0.896	95	-213	-216	5044.6324	
2	19815.372	4	29523.355-	9707.980	-3	5.5-	6.5	5.5-	6.5	1.165	1.485	.32	1.165	1.485	320	+	31	5045.1803	SI
1	19814.519	0	14692.549-	34507.044	24			2.0-	1.0				0.292	1.020*	728		-250	5045.3974	
2	19813.634	4	21828.590-	2014.966	10	2.5-	1.5	2.5-	1.5	.99	1.88	.89	0.990	1.881*	891	331	325	5045.6228	
1	19812.417	1	33340.653-	13528.246	10			2.0-	1.0				0.690	0.590*	1280	151	151	5045.9327	
1	19811.762	0	12322.613-	32134.354	21			2.0-	3.0				1.036	0.000*	0	-208	-208	5046.0996	
1	19810.640	1	12159.465-	31970.100	5			4.0-	4.0				0.844	1.100*	256	-208	-198	5046.3854	
2	19807.849	6	27306.210-	7498.364	3	2.5-	2.5	2.5-	2.5	1.055	1.315	.260	1.040	1.321*	281	126	129	5047.0964	
	19807.415	0																5047.2070	
1	19807.130	0	36583.653-	16776.530	7			1.0-	1.0				1.135	0.000*	0		81	5047.2796	
2	19806.788	0	17242.750-	37049.535	3			2.5-	2.5				1.200	0.730*	470		10	5047.3668	
	19806.023	3																5047.5618	
2	19304.130	2	18152.580-	37956.685	25			0.5-	1.5				-0.510	0.904*	1414		-27	5048.0442	
1	19803.767	2	27578.418-	7774.653	2			5.0-	4.0				1.120	1.463*	343	119	122	5048.1368	
2	19801.051	0	39976.890-	20175.895	56			3.5-	3.5				1.170	1.515	345		280*	5048.8292	
	19300.469	0																5048.9776	
1	19798.829	1	29571.327-	9772.532	34	1.0-	0.0	1.0-	0.0	1.13	0.0		1.132	0.000	0	171	-99	5049.3958	ISQ
	19798.059	1														147		5049.5922	
1	19797.801	1	16155.109-	35952.890	20			5.0-	4.0				0.948	1.100*	152	-249		5049.6580	
2	19796.841	3	31596.070-	11799.241	12	6.5-	5.5	6.5-	5.5	1.000	1.375	.375	1.000	1.373	373	+	43*	5049.9029	
2	19793.472	2	13192.903-	32986.390	-15			2.5-	2.5				0.372	1.040*	668	-340	-341	5050.7624	
1	19791.523	6	24091.173-	4299.659	9	3.0-	2.0	3.0-	2.0	1.245	1.480	.235	1.245	1.482	237	-101	-107	5051.2598	
	19788.239	0																5052.0981	
	19787.975	0																5052.1655	
	19785.721	0																5052.7411	
1	19785.226	0	14763.705-	34548.900	31			1.0-	2.0				-0.066	0.850*	916	-156	-164	5052.8675	
2	19784.083	0	29026.425-	9242.356	14			2.5-	3.5				1.150	1.369	219		-100	5053.1594	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	19780.714	1	27059.565-		7278.862	11	.	.	4.5-	4.5	.	.		1.030	1.545*	515	-	-53	5054.0201	
	19730.159	1					.	.			.26	.	SMAL						5054.1619	f SO
	19778.883	0					.	.			.	.							5054.4880	
2	19777.268	0	35265.810-		15428.530	-12	.	.	3.5-	3.5	.	.		0.980	1.057*	77	385	385*	5054.9007	
	19774.274	0					.	.			.	.							5055.6661	
1	19773.453	0	15424.387-		35197.829	11	.	.	3.0-	3.0	.	.		1.106	1.080	26	-221	-224	5055.8760	
1	19772.595	1	28951.847-		9179.262	10	.	.	5.0-	5.0	.	.		1.290	1.454*	164	-	-67	5056.0954	
2	19768.594	5	27266.960-		7498.364	-2	3.5-	2.5	3.5-	2.5	1.155	1.315	.160	1.155	1.321	166	115	113	5057.1187	
1	19764.489	0	16155.109-		35919.595	3	.	.	5.0-	5.0	.	.		0.948	1.120*	172	-076	-85	5058.1691	
	19763.521	3					.	.			.	.							5058.4168	
	19763.132	0					.	.			.	.							5058.5164	
	19762.970	0					.	.			.	.							5058.5578	
	19762.368	1					.	.			.	.							5058.7119	
1	19761.594	7	27536.236-		7774.653	11	3.0-	4.0	3.0-	4.0	1.355	1.460	.105	1.355	1.463	108	0	-3	5058.9101	IS*
	19759.440	2					.	.			.	.							5059.4616	
2	19759.312	2	41621.445-		21862.135	2	.	.	2.5-	2.5	.	.		1.065	1.320*	255	-256		5059.4943	
1	19756.267	0	37521.550-		17765.281	-2	.	.	3.0-	3.0	.	.		1.315	1.680*	365			5060.2742	
2	19754.535	0	42254.735-		22500.225	25	.	.	5.5-	5.5	.	.		1.180	1.555	375	313	313*	5060.7178	
1	19753.920	0	19265.603-		39619.530	-7*	.	.	4.0-	4.0	.	.		1.100	1.115	15	-428		5060.8754	
	19751.233	0					.	.			.	.							5061.5639	
	19750.886	0					.	.			.	.							5061.6528	
	19748.206	0					.	.			.	.							5062.3397	
	19747.509	0					.	.			.	.							5062.5184	
	19746.819	0					.	.			.	.							5062.6953	
2	19736.770	5	16362.000-		36098.770	0	.	.	4.5-	4.5	1.05	.		1.050	1.029*	21	-	-68	5065.2730	f
1	19734.762	0	13726.661-		33461.419	4	.	.	3.0-	3.0	.	.		1.150	0.950*	200	-305	-304	5065.7884	
1	19733.131	0	34075.080-		14341.947	-2	.	.	3.0-	2.0	.	.		0.975	0.852	123	158	158	5066.2071	
	19731.035	0					.	.			.	.							5066.7453	
1	19729.247	3	10486.922-		30216.163	6	1.0-	2.0	1.0-	2.0	.35	1.14	.79	0.355	1.143	788	-193	-205	5067.2045	
1	19726.184	5	25870.685-		6144.515	14	2.0-	3.0	2.0-	3.0	1.160	1.470	.310	1.170	1.473	303		-63	5067.9913	
1	19724.327	3	11747.245-		31471.542	30	0.0-	1.0	0.0-	1.0	.000	2.18		0.000	2.188	0	-089	-107	5068.4685	
1	19721.062	2	16233.909-		36609.983	-12	.	.	6.0-	7.0	.	.		1.098	1.195	97	-226	-226	5069.3076	
	19712.999	0					.	.			.	.							5071.3811	
2	19709.404	1	11504.095-		31213.510	-11	.	.	3.5-	3.5	.	.		0.859	1.045	186	-474	-474	5072.3061	
2	19706.638	0	15641.100-		35347.740	-2	.	.	3.5-	3.5	.	.		1.040	1.195*	155	-186	-178	5073.0181	
1	19705.134	0	11747.245-		31452.362	17	.	.	0.0-	1.0	.	.		0.000	0.852	0	-052	-78	5073.4053	
	19704.020	0					.	.			.	.							5073.6921	
	19703.636	0					.	.			.	.							5073.7910	
2	19701.868	6	23671.715-		3969.846	-1	3.5-	2.5	3.5-	2.5	1.38	1.66	.28	1.380	1.670	290	-239		5074.2463	
2	19701.111	0	39876.970-		20175.895	36	.	.	4.5-	3.5	.	.		1.115	1.515	400	130	123	5074.4413	
1	19696.744	0	16595.109-		36291.840	13	.	.	3.0-	3.0	.	.		0.999	0.980	19		-218	5075.5664	
	19695.578	2					.	.			.	.							5075.8668	
1	19694.582	0	35970.903-		16276.332	11	.	.	1.0-	2.0	.	.		1.000	1.880*	880		94*	5076.1235	
1	19692.742	3	35969.064-		16276.332	10	2.0-	2.0	2.0-	2.0	.765	1.880	1.11	0.765	1.880*	1115	+	50*	5076.5978	
1	19691.688	0	14737.788-		34429.460	16	.	.	3.0-	2.0	.	.		0.815	0.930*	115	-215	-224	5076.8696	
2	19688.689	3B	41608.075-		21919.400	14	.	.	6.5-	7.5	.	.		1.095	1.345	250	322	324*	5077.6429	
1	19688.576	3	12322.613-		32011.173	16	.	.	2.0-	3.0	.	.		1.036	1.140*	104	-217	-185	5077.6720	
	19688.038	2					.	.			.	.							5077.8108	
2	19685.701	1	25403.645-		5717.976	32	.	.	2.5-	3.5	.	.		1.029	1.596	567	+	43	5078.4136	
2	19684.576	5	28322.800-		8638.233	9	6.5-	5.5	6.5-	5.5	1.443	1.514	.071	1.443	1.514	71	148	137	5078.7039	SO JQ
1	19683.519	6	25228.024-		6144.515	10	4.0-	3.0	4.0-	3.0	1.30	1.46	.160	1.310	1.473*	163	-116	-113	5078.9766	
2	19675.462	1	36233.925-		17163.470	7	.	.	3.5-	4.5	.	.		1.225	1.200	25	075	75*	5081.0564	
1	19675.281	0	16155.109-		35830.380	10	.	.	5.0-	4.0	.	.		0.948	0.965	17	-232	-232	5081.1032	
2	19674.082	0	38435.630-		18761.580	32	.	.	5.5-	5.5	.	.		1.150	1.296*	146		359*	5081.4128	
	19673.490	0					.	.			.	.							5081.5657	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	19672.	036	2	15074.958	-	34746.981	13	.	.	7.0-	8.0	.	.	.	1.097	0.000*	0	-	-69	5081.9413		
2	19663.	990	2	27162.335	-	7498.364	19	1.5-	2.5	1.5-	2.5	1.025	1.315	.290	1.046	1.321	275	-	-6	5084.0208		
2	19663.	603	2	33389.920	-	13726.318	1	.	.	1.5-	2.5	.	.	.	0.943	0.784	159	259	255	5084.1208		
2	19662.	396	2	39984.710	-	20322.349	35	.	.	5.5-	6.5	.	.	.	1.085	1.314	229	367	368*	5084.4329		
2	19659.	025	0	16593.963	-	36252.985	3	.	.	2.5-	3.5	.	.	.	0.983	1.004	21		-114	5085.3048		
2	19658.	552	0	42908.300	-	23249.745	-3	.	.	5.5-	4.5	.	.	.	1.105	1.475	370			5085.4271		
	19658.	248	0											5085.5058	
	19657.	834	0											5085.6129	
2	19655.	447	6	21670.405	-	2014.966	8	1.5-	1.5	1.5-	1.5	2.315	1.880	.435	2.328	1.881	447	124	135	5086.2305		
2	19651.	796	1	28894.140	-	9242.356	12	.	.	3.5-	3.5	.	.	.	1.009	1.369	360	+	15	5087.1754		
	19647.	738	1											5088.2262	
	19647.	552	1											5088.2743	
	19646.	394	2											5088.5742	
1	19646.	041	3	33174.265	-	13528.246	22	2.0-	1.0	2.0-	1.0	.855	0.59	1.44	0.864	0.590*	1454	158	176	5088.6657		
	19643.	771	1											5089.2537	
2	19543.	082	1	31442.330	-	11799.241	-7	.	.	5.5-	5.5	.	.	.	1.170	1.373*	203			5089.4322		
1	19640.	858	7	27415.500	-	7774.653	11	.	.	5.0-	4.0	.	.	.	1.370	1.463*	93	-109	-109	5090.0085		
2	19640.	497	6	25358.470	-	5717.976	3	4.5-	3.5	4.5-	3.5	1.440	1.593	.153	1.443	1.596	153	145	150	5090.1021		
	19638.	022	1					SML							5090.7436	
	19636.	265	0												5091.1991	
	19634.	348	0												5091.6962	
	19629.	308	0												5093.0036	
2	19628.	730	0	33619.660	-	13990.952	22	.	.	0.5-	1.5	.	.	.	1.470	1.728	258	+	43	5093.1535		
	19626.	769	0H												5093.6624	
	19626.	034	0												5093.8532	
	19625.	093	0												5094.0974	
1	19622.	695	5	9386.801	-	29009.483	13	5.0-	4.0	5.0-	4.0	.800	.695	.103	0.801	0.695	106	-170	-175	5094.7200		
2	19612.	826	0	30339.150	-	10726.322	-2	.	.	4.5-	4.5	.	.	.	1.154	1.391	237	156	133	5097.2836		
	19611.	371	1												5097.6618	
1	19611.	112	2	11840.715	-	31451.814	13	.	.	3.0-	4.0	.	.	.	0.811	1.080	269	-140	-139	5097.7291		
	19605.	922	0												5099.0786	
	19603.	711	0												5099.6537	
	19601.	626	1												5100.1961	
1	19599.	102	2	33941.055	-	14341.947	-6	.	.	3.0-	2.0	.	.	.	1.118	0.852	266	194	189	5100.8530		
	19597.	984	1												5101.1440	
1	19596.	094	0	23895.741	-	4299.659	12	.	.	2.0-	2.0	.	.	.	-0.100	1.482*	1582	-	-58	5101.6360		
2	19594.	944	1	29783.410	-	10188.463	-3	0.5-	0.5	0.5-	0.5	2.60	2.40	.20	2.590	2.402*	188		7*	5101.9354		
1	19592.	675	1	8768.139	-	28360.802	12	2.0-	3.0	2.0-	3.0	.36	.86	.50	0.362	0.887	525	-107	-123	5102.5262		
1	19587.	833	0	12351.522	-	31939.345	10	.	.	6.0-	6.0	.	.	.	0.995	1.200*	205	-347	-339	5103.7876		
1	19586.	613	1	12322.613	-	31909.212	14	.	.	2.0-	1.0	.	.	.	1.036	0.888	148	-	-71	5104.1055		
	19585.	411	0												5104.4187	
2	19584.	834	0	14295.565	-	33380.390	9	.	.	3.5-	3.5	.	.	.	0.790	1.000*	210		-285*	5104.5691		
1	19583.	910	0	18602.505	-	38186.420	-5	.	.	6.0-	5.0	.	.	.	0.910	0.952	42	+	20	5104.8099		
1	19579.	420	5	29817.890	-	10233.473	3	5.0-	6.0	5.0-	6.0	1.11	1.43	.320	1.110	1.431*	321	-	-29*	5105.9806		
2	19575.	649	1	25293.605	-	5717.976	20	3.5-	3.5	3.5-	3.5	.	.	.62	0.970	1.596*	626	+	37	5106.9642		
1	19575.	015	0	16595.109	-	36170.110	14*	.	.	3.0-	4.0	.	.	.	0.999	0.942*	57	-168	-171	5107.1296		
1	19573.	119	4	12159.465	-	31732.582	2	4.0-	5.0	4.0-	5.0	.84	1.05	.21	0.844	1.049	205	-227	-225	5107.6243		
1	19569.	066	1	15424.387	-	34993.452	1	.	.	3.0-	4.0	.	.	.	1.106	1.213	107		-193	5108.6822		
2	19568.	820	5	23538.650	-	3969.846	16	3.5-	2.5	3.5-	2.5	1.46	1.66	.20	1.470	1.670*	200	152	144	5108.7464		
2	19567.	594	2	28309.965	-	9242.356	-15	.	.	2.5-	3.5	.	.	.	1.230	1.369*	139	+	23	5109.0665		
	19566.	950	0												5109.2347	
	19565.	266	1												5109.6744	
2	19561.	651	0H	29269.625	-	9707.980	6	.	.	5.5-	6.5	.	.	.	1.110	1.485	375	092	92	5110.6187		
	19560.	007	0												5111.0483	
	19559.	770	0												5111.1102	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS			TERM			OBS		TERM		OBS		TERM		WAVELENGTH	NOTES	
							J2	J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS						
2	19559.439	0	25293.605-44853.015		29	.	.	3.5- 2.5	.	.	.	0.970	0.920*	50							5111.1967		
	19559.068	0				.	.		.	.	.											5111.2937	
2	19556.540	1	39732.360-20175.895		75	.	.	3.5- 3.5	.	.	.	1.275	1.515	240	225	235						5111.9544	
1	19553.362	3	35299.015-15745.648		-5	3.0-	3.0	3.0- 3.0	1.03	1.16	.130	1.035	1.145	110	089	87						5112.7852	
1	19542.341	8	33070.573-13528.246		14	2.0-	1.0	2.0- 1.0	.655	-0.590	1.24	0.673	-0.590*	1263	+	40						5115.6686	
2	19539.171	0	12992.644-32531.815		0	.	.	2.5- 2.5	.	.	.	0.643	1.010*	367	-297	-282						5116.4986	
2	19533.518	0	41457.915-21919.400		3	.	.	6.5- 7.5	.	.	.	1.100	1.345*	245								5116.6696	
2	19537.906	1	21359.050-40896.955		1	.	.	2.5- 1.5	.	.	.	1.254	0.800*	454								5116.8299	
1	19536.475	0	11840.715-31377.193		-3	.	.	3.0- 4.0	.	.	.	0.811	0.973	162	-185	-196						5117.2047	
	19530.745	0				.	.		.	.	.				355							5118.7060	
1	19529.581	4	16520.962-36050.540		3	5.0-	6.0	5.0- 6.0	.750	.840	.090	0.736	0.830*	94	+	89						5119.0111	
1	19529.482	3	10486.922-30016.377		27	1.0-	2.0	1.0- 2.0	.35	1.14	.79	0.355	1.140	785	-313	-311						5119.0371	
1	19520.663	0	36297.181-16776.530		12	.	.	2.0- 1.0	.	.	.	1.010	0.000*	0		197						5121.3497	
2	19520.253	2	28158.490- 8638.233		-4	5.5-	5.5	5.5- 5.5	.	.	.	1.140	1.514*	374	081	102						5121.4573	
	19519.850	0				.	.		.	.	.											5121.5631	
1	19519.363	3	9386.801-28906.150		14	5.0-	5.0	5.0- 5.0	.800	1.105	.305	0.801	1.105	304	-224	-224						5121.6908	
2	19516.876	1	25013.940- 5502.060		-4	.	.	2.5- 1.5	.	.	.	1.385	1.169	216	350	338						5122.3435	
2	19516.628	0	17532.937-37049.535		30	.	.	3.5- 2.5	.	.	.	1.238	0.730	508		-8						5122.4086	
	19515.969	0				.	.		.	.	.											5122.5816	
	19508.505	1				.	.		.	.	.					-234						5124.5415	
	19505.830	0				.	.		.	.	.											5125.2311	
	19503.270	0				.	.		.	.	.											5125.9170	
	19502.203	0				.	.		.	.	.											5126.1975	
1	19501.013	2	16304.260-35805.270		3	.	.	4.0- 5.0	.	.	.	1.285	1.075	210		-149						5126.5103	
1	19500.645	5	33028.868-13528.246		23	2.0-	1.0	2.0- 1.0	.97	-0.62	1.59	0.987	-0.590*	1577	222	222						5126.6070	
	19497.962	0				.	.		.	.	.											5127.3125	
1	19485.681	0	15249.635-34735.314		2	.	.	2.0- 3.0	.	.	.	0.715	0.899	184	-268	-260						5130.5441	
2	19485.224	0	41404.605-21919.400		19	.	.	6.5- 7.5	.	.	.	1.080	1.345	265								5130.6644	
	19484.655	0				.	.		.	.	.											5130.8142	
	19483.899	0				.	.		.	.	.											5131.0133	
1	19480.963	0	16888.909-36369.870		2	.	.	6.0- 5.0	.	.	.	1.098	1.069	29	-271	-268						5131.7866	
2	19477.951	0	31485.455-12007.503		-1	.	.	1.5- 1.5	.	.	.	1.300	-0.019	1319	390	383						5132.5802	
2	19476.579	6	26755.425- 7278.862		16	4.5-	4.5	4.5- 4.5	1.195	1.545	.350	1.200	1.545*	345	113	128						5132.9417	
1	19472.982	2	25617.477- 6144.515		20	.	.	2.0- 3.0	.	.	.	1.360	1.473*	113	-091	-94						5133.8899	
	19467.447	0				.	.		.	.	.				328							5135.3496	
1	19466.482	2B	23766.136- 4299.659		5	.	.	1.0- 2.0	.	.	.	2.162	1.482	680		-160						5135.6042	
1	19466.369	2B	14292.176-33758.523		22	.	.	5.0- 5.0	.	.	.	0.970	0.830	140	-237	-240						5135.6340	DJO
1	19465.929	1	15074.958-34540.890		7*	.	.	7.0- 8.0	.	.	.	1.097	1.270*	173		-242						5135.7501	
2	19463.307	0	33189.610-13726.318		15	.	.	2.5- 2.5	.	.	.	1.121	0.784	337	254	248						5136.4419	
	19462.458	0				.	.		.	.	.				-276							5136.6660	
1	19456.901	7	32985.135-13528.246		12	.	.	2.0- 1.0	.78	-0.56	1.34	0.757	-0.590*	1347	168	167						5138.1331	
	19454.073	OC				.	.		.	.	.											5138.8800	
1	19453.695	1	36230.220-16776.530		5	.	.	2.0- 1.0	.	.	.	1.200	0.000*	0	225	220						5138.9799	
1	19453.400	0	13726.661-33180.043		18	.	.	3.0- 2.0	.	.	.	1.150	1.790*	640		-216						5139.0578	
2	19450.444	OP	12992.644-32443.065		23	.	.	2.5- 1.5	.	.	.	0.643	0.730	87	-188	-162						5139.8388	VHAZY
1	19447.750	2	9386.801-28834.535		16	.	.	5.0- 5.0	.	.	.	0.801	0.978	177	-149	-157						5140.5508	
	19446.778	0				.	.		.	.	.											5140.8078	
	19444.744	0				.	.		.	.	.											5141.3455	
1	19441.813	7	27216.458- 7774.653		8	5.0-	4.0	5.0- 4.0	1.16	1.44	.28	1.180	1.463*	283	112	113						5142.1206	
	19439.642	0				.	.		.	.	.				377							5142.6949	
	19430.998	0				.	.		.	.	.				-237							5144.9827	
1	19425.504	1	15074.958-34500.445		17	.	.	7.0- 6.0	.	.	.	1.097	1.030	67		-247						5146.4378	
2	19424.937	4	43339.890-23914.960		7	7.5-	8.5	7.5- 8.5	1.213	1.387	.174	1.213	1.385	172	236							5146.5881	SI
1	19421.762	3	27196.404- 7774.653		11	3.0-	4.0	3.0- 4.0	1.28	1.46	.18	1.282	1.463	181	+	41						5147.4294	
1	19421.014	3	23720.664- 4299.659		9	3.0-	2.0	3.0- 2.0	.76	1.44	.68	0.790	1.482*	692	-	-50						5147.6277	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	19415.834	7	28595.088	- 9179.262	8	6.0-	5.0	6.0-	5.0	1.16	1.42	.26	1.200	1.454*	254	-093	-98	5149.0010	
1	19414.714	0	9724.351	-29139.061	4	.	.	3.0-	2.0	.	.	.	0.442	0.000*	0		-362	5149.2981	
2	19414.260	2	34902.775	-15488.530	15	.	.	3.5-	3.5	.	.	.	1.155	1.057	98	455	477	5149.4185	
	19410.781	0				.	.	.	.	.	.	.						5150.3414	
	19409.192	0				.	.	.	.	.	.	.						5150.7631	
	19407.760	0				.	.	.	.	.	.	.						5151.1431	
2	19406.957	3	34895.470	-15488.530	17	.	.	3.5-	3.5	.	.	.	1.165	1.057	108	518	503	5151.3563	
	19403.412	1				.	.	.	.	.	.	.					-158	5152.2974	
1	19402.962	1	20306.482	-39709.460	-16*	.	.	4.0-	5.0	.	.	.	1.123	1.070	53	-220	-227	5152.4169	
1	19400.837	0	14692.549	-34093.375	11	.	.	2.0-	1.0	.	.	.	0.292	1.310*	1018	-225	-234	5152.9813	
2	19400.368	0	12048.548	-31448.910	6	.	.	1.5-	2.5	.	.	.	-0.054	0.800	854		-294	5153.1059	
	19399.609	1				.	.	.	.	.	.	.					-269	5153.3075	
1	19398.461	3	14853.317	-34251.764	14	4.0-	4.0	4.0-	4.0	.79	1.01	.22	0.786	1.005	219	-141	-156	5153.6125	
2	19397.078	5	19397.055	- 0.000	23	0.5-	0.5	0.5-	0.5	3.34	3.16	.18	3.328	3.150	178	132	135	5153.9799	
	19392.038	0				.	.	.	.	.	.	.						5155.3195	
	19391.871	0				.	.	.	.	.	.	.						5155.3639	
	19391.298	0				.	.	.	.	.	.	.						5155.5162	
1	19390.320	0	14737.788	-34128.094	14	.	.	3.0-	4.0	.	.	.	0.815	0.000*	0	-230	-231	5155.7762	
2	19385.219	0	30111.540	-10726.322	1	.	.	5.5-	4.5	.	.	.	1.100	1.391*	291		94*	5157.1329	
1	19381.067	3	12351.522	-31732.582	7	6.0-	5.0	6.0-	5.0	.97	1.05	.08	0.995	1.049	54	-232	-231	5158.2378	
	19380.718	0				.	.	.	.	.	.	.						5158.3306	
	19379.762	0				.	.	.	.	.	.	.						5158.5851	
1	19378.708	2	29617.177	-10238.473	4	7.0-	6.0	7.0-	6.0	1.38	1.43	.05	1.380	1.431*	51	-098	-112	5158.8657	
2	19377.642	0	15641.100	-35018.725	17	.	.	3.5-	3.5	.	.	.	1.040	0.911*	129		-153	5159.1495	
2	19377.471	1	36540.920	-17163.470	21	3.5-	4.5	3.5-	4.5	1.175	1.195	.020	1.200	1.200*	0	272	272*	5159.1950	
1	19376.375	0	12159.465	-31535.835	5	.	.	4.0-	5.0	.	.	.	0.844	1.020	176	-300	-297	5159.4868	
	19375.403	0				.	.	.	.	.	.	.						5159.7457	
2	19374.133	4	31173.370	-11799.241	4	6.5-	5.5	6.5-	5.5	1.17	1.37	.20	1.160	1.373*	213	077	78*	5160.0839	
2	19372.303	0	40663.645	-21291.350	8	.	.	5.5-	4.5	.	.	.	1.145	1.590	445			5160.5714	
1	19369.979	0	9386.801	-28756.769	11	.	.	5.0-	5.0	.	.	.	0.801	1.165	364	-259	-276	5161.1905	
1	19369.389	0	18046.108	-37415.495	2	.	.	4.0-	5.0	.	.	.	0.694	0.980	286		-26	5161.3477	
	19368.072	0				.	.	.	.	.	.	.					201	5161.6987	
1	19367.782	0	8768.139	-28135.924	-3	2.0-	2.0	2.0-	2.0	.36	1.11	.75	0.362	1.101	739		-357	5161.7760	
1	19367.526	2	10486.922	-29854.442	6	1.0-	1.0	1.0-	1.0	.35	1.18	.83	0.355	1.180*	825	-241	-244	5161.8442	
2	19366.152	3	29074.145	- 9707.980	-13	5.5-	6.5	5.5-	6.5	.95	1.49	.54	0.940	1.485*	545	-068	-61	5162.2105	
2	19364.590	5	26643.435	- 7278.862	17	5.5-	4.5	5.5-	4.5	1.435	1.545	.110	1.420	1.545*	125	133	137	5162.6269	
	19360.992	0				.	.	.	.	.	.	.						5163.5863	
2	19360.255	0	39187.220	-19827.020	55	.	.	2.5-	1.5	.	.	.	1.170	1.733*	563			5163.7829	
1	19359.021	0	33036.920	-13677.903	4	.	.	0.0-	1.0	.	.	.	0.000	1.442	0			5164.1120	
1	19357.936	1	11840.715	-31198.642	9	.	.	3.0-	3.0	.	.	.	0.811	1.070	259		-120	5164.4015	
1	19357.726	0	17554.704	-36912.410	20	.	.	8.0-	7.0	.	.	.	1.170	0.000*	0		-203	5164.4575	
2	19356.845	0	16499.640	-35856.485	0	.	.	3.5-	3.5	.	.	.	0.773	1.025	252		-265	5164.6925	
1	19356.449	2	16834.379	-35190.820	8	.	.	5.0-	5.0	.	.	.	0.961	1.030	69			5164.7982	
1	19350.142	4	8768.139	-23118.262	19	2.0-	3.0	2.0-	3.0	.38	1.27	.89	0.362	1.250*	888		-25	5166.4816	
2	19347.751	0	40539.100	-21291.350	1	.	.	4.5-	4.5	.	.	.	1.310	1.590	280			5167.1201	
1	19346.331	3	9356.801	-28733.159	23	5.0-	4.0	5.0-	4.0	.80	1.05	.25	0.801	1.035	234		-106	5167.4860	
2	19345.259	1	42595.005	-23249.745	-1	.	.	4.5-	4.5	.	.	.	1.115	1.475	360			5167.7857	
2	19344.109	2	21359.050	- 2014.966	25	2.5-	1.5	2.5-	1.5	1.25	1.88	.63	1.254	1.831	627	167	176	5168.0930	
2	19342.787	1	23312.615	- 3969.846	18	.	.	1.5-	2.5	.	.	.	0.680	1.670*	990		99	5168.4462	
1	19341.505	1	11840.715	-31182.179	41	.	.	3.0-	4.0	.	.	.	0.811	1.210*	399	-309	-290	5168.7888	
1	19339.782	1	14912.011	-34251.764	29	.	.	4.0-	4.0	.	.	.	0.496	1.005	509		-59	5169.2493	
2	19338.946	0	13192.903	-32531.815	34	.	.	2.5-	2.5	.	.	.	0.372	1.010*	638		-286	5169.4727	
	19338.419	0				.	.	.	.	.	.	.						5169.6136	
2	19337.743	4	43252.700	-23914.960	3	7.5-	8.5	7.5-	8.5	1.190	1.385	.195	1.190	1.385	195	248		5169.7943	
	19335.330	0				.	.	.	.	.	.	.						5170.4395	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES					
	19333.854	2																							
	19333.625	0																							
1	19329.367	3	16520.962	-	35850.314	15	5.0-	6.0	5.0-	6.0	.75	1.05	.30	0.736	1.040*	304		42							
	19326.681	0																							
	19325.040	0M																							
1	19322.343	0	27096.974-		7774.653	22	.	.	4.0-	4.0	.	.	.	1.180	1.463*	283	+	23							
	19320.103	0																							
2	19314.751	2	36060.445-		16745.720	26	1.5-	2.5	1.5-	2.5	1.520	1.665	.145	1.520	1.671*	151	-201	307	307						
1	19312.152	2	38168.603-		18856.461	10	5.0-	5.0	5.0-	5.0	1.095	1.325	.230	1.080	1.325*	245	065	65							
1	19311.545	2	21515.136-		2203.606	15	1.0-	1.0	1.0-	1.0	1.17	1.49	.32	1.180	1.495*	315	087	110							
1	19307.254	0	32985.135-		13677.903	22	.	.	2.0-	1.0	.	.	.	0.757	1.442	685		-78							
1	19306.987	1	13726.661-		33033.638	10	.	.	3.0-	3.0	.	.	.	1.150	0.910	240	-260	-271							
	19306.903	1																							
2	19305.723	1	22541.470-		3235.770	23	.	.	1.5-	0.5	.	.	.	0.420	0.299*	121		133							
2	19305.292	2	14295.565-		33600.850	7	.	.	3.5-	2.5	.	.	.	0.790	1.263	473	-113	-104							
2	19304.855	3	30031.180-		10726.322	-3	.	.	3.5-	4.5	.	.	.	1.250	1.391	141	+	67							
1	19303.437	6	28482.680-		9179.262	19	.	.	6.0-	5.0	.	.	.	1.180	1.454*	274	-030	-19				IS*			
2	19302.600	5	23272.420-		3969.846	26	2.5-	2.5	2.5-	2.5	.935	1.665	.730	0.951	1.670	719	+	5							
	19302.237	3																							
1	19301.922	0	16888.909-		36190.820	11	.	.	6.0-	5.0	.	.	.	1.098	1.030	68									
1	19301.753	2	39623.901-		20322.165	17	.	.	6.0-	6.0	.	.	.	1.140	1.360*	220		89							
2	19300.967	3	25018.940-		5717.976	3	.	.	2.5-	3.5	.	.	.	1.385	1.596	211	311	318							
	19300.165	3					4.5-	5.5					.23				090						JQ		
	19299.585	0																							
	19298.246	0																							
1	19296.474	1	19872.154-		39168.610	18	.	.	9.0-	9.0	1.16	1.16	.00	1.199	1.190*	9	-266	-266					GQ		
1	19293.883	3	27068.524-		7774.653	12	.	.	3.0-	4.0	.	.	.	0.960	1.463	503	083	77							
	19292.366	0																							
1	19291.865	6	6313.866-		25605.707	24	4.0-	4.0	4.0-	4.0	.47	1.14	.67	0.487	1.160	673	-067	-179							
2	19291.476	0	37957.445-		18666.006	37	.	.	2.5-	2.5	.	.	.	1.260	1.365*	105									
1	19285.158	8	9724.351-		29009.483	26	3.0-	4.0	3.0-	4.0	.48	.73	.25	0.442	0.695	253	-169	-171							
2	19282.059	0	13192.903-		32474.965	-3	.	.	2.5-	1.5	.	.	.	0.372	1.150*	778		27*							
	19281.899	0																							
1	19280.338	0	36603.601-		17323.291	28	.	.	4.0-	4.0	.	.	.	1.134	1.250*	116		211							
1	19278.797	2	11840.715-		31119.494	18	.	.	3.0-	2.0	.81	.80	.01	0.811	0.814	3	-222	-232							
1	19278.575	0	35883.360-		16604.786	1	.	.	5.0-	6.0	.	.	.	1.164	0.950*	214		-60							
1	19277.127	6	12351.522-		31628.619	30	6.0-	6.0	6.0-	6.0	.980	1.110	.130	0.995	1.110	115	-158	-154							
1	19274.803	0	14853.317-		34128.094	26	.	.	4.0-	4.0	.	.	.	0.786	0.000*	0		-157							
1	19274.414	0	12177.963-		31452.362	15	.	.	1.0-	1.0	.	.	.	0.525	0.852	327	-065	-81							
	19270.565	0																							
1	19270.213	0	21227.793-		40497.975	31	.	.	4.0-	5.0	.	.	.	1.346	1.060*	286		-158							
2	19268.246	2H	26766.650-		7498.364	-40	.	.	2.5-	2.5	.	.	.	1.058	1.321	263		75							
1	19266.008	0	17911.977-		37177.970	15	.	.	5.0-	5.0	.	.	.	1.145	1.125	20		-231							
1	19262.652	0	15074.958-		34337.597	13	.	.	7.0-	7.0	.	.	.	1.097	1.340*	243		-345							
2	19259.251	1	35545.800-		16286.582	33	.	.	0.5-	0.5	.	.	.	0.961	0.122	1083	119	111							
2	19258.641	2	24976.585-		5717.976	32	.	.	3.5-	3.5	.	.	.	0.960	1.596	636		35							
	19257.096	0																							
1	19254.102	0	14853.317-		34107.378	41	.	.	4.0-	3.0	.	.	.	0.786	1.160*	374		-155							
1	19253.796	1	12159.465-		31413.230	31	.	.	4.0-	3.0	.	.	.	0.844	0.742	102	-125	-131							
1	19252.743	0	15424.387-		34677.111	24	.	.	3.0-	4.0	.	.	.	1.106	1.080	26		-233							
	19252.551	0																							
2	19251.690	0	38013.250-		18761.520	20	.	.	5.5-	5.5	.	.	.	1.145	1.296	151									
1	19250.724	5	23550.352-		4299.659	31	3.0-	2.0	3.0-	2.0	1.10	1.50	.40	1.090	1.482*	392	-	-55							
2	19250.183	2	13192.903-		32443.065	21	.	.	2.5-	1.5	.	.	.	0.372	0.730	358		-166							
1	19248.642	7	9724.351-		28972.971	22	3.0-	2.0	3.0-	2.0	.445	.805	.360	0.442	0.794	352	-200	-201							BQ

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	19248.476	3	31255.945-12007.503			34	1.5-	1.5	1.5-	1.5	.92	-0.02	.94	0.921	-0.019	940		297	5193.7701		
2	19248.158	3	43163.110-23914.960			8	.	.	7.5-	8.5	.	.	.	1.180	1.385	205	+		5193.8559		
2	19247.819	2	13209.910-33057.710			19	.	.	4.5-	3.5	.	.	.	0.657	0.857	200	-099	-97	5193.9474		
1	19243.866	1	12159.465-31403.302			29	.	.	4.0-	5.0	.	.	.	0.844	1.205	361	-296	-298	5195.0144		
1	19238.538	1	15074.958-34313.475			21	.	.	7.0-	6.0	.	.	.	1.097	1.030*	67	-155	-159	5196.4531		
	19236.695	1					.	.	.	.	.	.	.	.	.	.	.	.	5196.9510	
2	19236.234	1	28478.585- 9242.356			5	.	.	3.5-	3.5	.	.	.	1.175	1.369	194		27*	5197.0755		
1	19234.292	2	16532.104-35766.380			16	.	.	3.0-	4.0	.	.	.	0.300	1.055	755		62	5197.6002		
1	19233.112	0	33575.046-14341.947			13	.	.	3.0-	2.0	.	.	.	1.056	0.852	204		229	5197.9191		
	19230.476	0					.	.	.	.	.	.	.	.	.	.	.	.	5198.6316	
	19229.473	0					.	.	.	.	.	.	.	.	.	.	.	.	5198.9028	
1	19228.398	0	14692.549-33920.944			3	.	.	2.0-	2.0	.	.	.	0.292	1.040*	748	-206	-205	5199.1935		
2	19223.701	0	31231.210-12007.503			-6	.	.	0.5-	1.5	.	.	.	0.860	-0.019*	879	312	315*	5200.4638		
1	19221.276	3	32749.507-13528.246			15	2.0-	1.0	2.0-	1.0	1.16	-0.61	1.77	1.166	-0.590*	1756	198	199	5201.1199		
	19218.530	0					.	.	.	.	.	.	.	.	.	.	.	.	5201.8631	
1	19217.745	5	12159.465-31377.193			17	4.0-	4.0	4.0-	4.0	.84	.97	.13	0.844	0.973	129	-195	-195	5202.0756		
1	19217.104	1	18602.505-37819.580			29*	.	.	6.0-	7.0	.	.	.	0.910	1.110*	200		97	5202.2491		
1	19216.739	0	14912.011-34128.739			11	.	.	4.0-	3.0	.	.	.	0.496	1.106	610		-85	5202.3479		
1	19216.171	3	16834.379-36050.540			10	.	.	5.0-	6.0	.	.	.	0.961	0.830*	131	-088	-103	5202.5017		
2	19209.975	1	43124.930-23914.960			5	.	.	7.5-	8.5	.	.	.	1.105	1.385	280	294		5204.1797		
1	19208.762	2	8768.139-27976.881			20	.	.	2.0-	3.0	.	.	.	0.362	1.080	718	-133	-139	5204.5084		
1	19206.513	4	28385.761- 9179.262			14	6.0-	5.0	6.0-	5.0	1.025	1.450	.425	1.025	1.454	429	+	36	5205.1178	DJ1	
2	19205.939	4	28913.915- 9707.980			4	.	.	5.5-	6.5	.	.	.188	1.300	1.485*	185	107	121	5205.2734	DJ1	
2	19205.404	0	29393.835-10128.463			32	.	.	0.5-	0.5	.	.	.	-0.516	2.402	2918		-99	5205.4184		
1	19202.764	3	8768.139-27970.881			22	2.0-	2.0	2.0-	2.0	.36	.19	.168	0.362	0.194	168	-211	-212	5206.1340		
1	19201.519	3	11840.715-31042.204			30	.	.	3.0-	3.0	.	.	.	0.811	1.010	199		-85	5206.4716	DJ0	
1	19201.068	1	19959.027-39160.120			-25*	.	.	1.0-	1.0	.	.	.	0.760	1.230*	470			5206.5939		
2	19199.827	1	26478.685- 7278.862			4	.	.	3.5-	4.5	.	.	.	1.045	1.545	500		179	5206.9304		
2	19198.863	3	24700.905- 5502.060			18	0.5-	1.5	0.5-	1.5	2.02	1.18	.84	2.025	1.169	856		81	5207.1919		
	19197.650	1H					-177		5207.5209	DJ0
	19194.412	0							5208.3994	
2	19192.549	1	24823.940-44016.500			-11	.	.	5.5-	4.5	.	.	.	0.000	1.050*	0			5208.9049	C2	
1	19192.549	1	35969.064-16776.530			15	.	.	2.0-	1.0	.	.	.	0.765	0.000*	0	+	51*	5208.9049	C2	
2	19189.780	3	31197.285-12007.503			-2	0.5-	1.5	0.5-	1.5	.77	-0.01	.78	0.776	-0.019	795		293*	5209.6566	2 LNS	
2	19189.780	7	27828.005- 8638.233			8	4.5-	5.5	4.5-	5.5	1.43	1.52	.09	1.410	1.514*	104		076	5209.6566	2 LNS	
	19187.929	1					-185		5210.1591	
1	19187.147	0	16155.109-35342.260			-4	.	.	5.0-	4.0	.	.	.	0.948	1.110	162		-185	5210.3715		
2	19186.331	2	33619.660-14433.351			22	0.5-	1.5	0.5-	1.5	1.470	1.925	.455	1.470	1.925	455	307	326	5210.5931		
1	19184.385	4	25328.907- 6144.515			-7	.	.	3.0-	3.0	.	.	.	1.340	1.473	133	-126	-130	5211.1216		
2	19179.491	1	34668.015-15488.530			6	.	.	2.5-	3.5	.	.	.	1.175	1.057	118	353	353*	5212.4514		
	19177.123	1					1.50	1.50			5213.0950	
	19176.625	0							5213.2304	
	19174.599	0							5213.7812	
2	19171.599	3	26669.945- 7498.364			18	1.5-	2.5	1.5-	2.5	1.34	1.315	.025	1.350	1.321	29	092	107	5214.5971	SO	
2	19169.289	3	10436.770-29606.060			-1	4.5-	4.5	4.5-	4.5	.715	.780	.063	0.724	0.790	66	-445	-452	5215.2255	DJ0	
	19168.751	0							5215.3719	
1	19167.943	1	16155.109-35323.031			21	.	.	5.0-	6.0	.	.	.	0.948	1.090	142	-221	-221	5215.5917		
2	19166.745	0	19277.180-38443.925			0	.	.	3.5-	4.5	.	.	.	0.847	1.020	173		60	5215.9177		
2	19162.665	0	34651.175-15488.530			20	.	.	3.5-	3.5	1.05	1.06	.01	1.047	1.057	10	398	398	5217.0283		
	19161.821	0					3.5-	4.5	.	.	.72	.78	.06	.	.	.				5217.2581	JQ 2LNS
2	19161.821	0	29828.135-10726.322			8	.	.	3.5-	4.5	.	.	.	1.140	1.391*	251		166*	5217.2581	2LNS	
1	19161.646	0	16228.909-36050.540			15	.	.	6.0-	6.0	.	.	.	1.098	0.830*	268		-128	5217.3057		
1	19160.119	3	36483.410-17323.291			0	4.0-	4.0	4.0-	4.0	1.10	1.25	.15	1.100	1.250*	150	125	125	5217.7215		
2	19157.048	4	35902.735-16745.720			33	1.5-	2.5	1.5-	2.5	1.615	1.665	.050	1.605	1.671	66	326	326	5218.5580		
2	19155.083	4	14295.565-33450.655			-7	3.5-	2.5	3.5-	2.5	.80	.94	.14	0.790	0.941	151	-119	-119	5219.0933		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1											G2	G1	DG	G2	G1	DG	IS	IS
	19153.145	1																	5219.6214		
	19152.741	0																	5219.7315		
	19151.849	0																	5219.9746		
1	19151.403	1	13517.647-32669.040		10				2.0- 3.0					0.892	1.000*	108	-190	-176	5220.0962		
1	19146.716	2	21350.311- 2203.605		11			2.0- 1.0	2.0- 1.0		.35	1.50	115	0.350	1.495*	1145	085	99	5221.3741		
2	19144.761	3	14221.716-33366.475		2			0.5- 1.5	0.5- 1.5		-0.13	.13	.26	-0.108	0.129	237			5221.9073		
1	19138.094	6	10486.922-29625.003		13			1.0- 2.0	1.0- 2.0		.345	.905	.560	0.355	0.910*	555			5223.7264		
	19137.603	0																	5224.0234		
	19135.762	1						4.5- 3.5			.78	1.34	.56						5224.0900		
	19135.143	0																	5224.2590		
1	19131.832	0	18046.103-37177.970		20				4.0- 5.0					0.694	1.125	431		1	5225.4225		
	19129.774	2											1.35						5225.9983	DJ02LNS2	
1	19129.774	2	12322.613-31452.352		25			2.0- 1.0	2.0- 1.0		1.030	.845	.185	1.036	0.852	184	-092	-85	5225.9983	DJ1 2LNS	
2	19122.531	3	26401.370- 7278.862		23			4.5- 4.5	4.5- 4.5		1.22	1.54	.32	1.220	1.545*	325	132	132	5227.9778		
	19120.932	0																	5228.4150		
	19120.579	0																	5228.5115		
1	19120.069	0	26894.711- 7774.653		11				3.0- 4.0					1.465	1.463	2		-24	5228.6510		
	19119.374	0																	5228.8411		
1	19113.342	7	29356.804-10238.473		11			5.0- 6.0	5.0- 6.0		1.21	1.45	.24	1.190	1.431*	241	99	99	5229.1233		
1	19117.016	5	23416.666- 4299.659		9			2.0- 2.0	2.0- 2.0		1.31	1.49	.18	1.320	1.482*	162		21	5229.4860		
1	19116.095	0	20709.458-39825.550		3				3.0- 4.0					1.240	1.030	210			5229.7380		
	19114.912	0																	5230.0617		
2	19113.407	3	24615.450- 5502.060		17			1.5- 1.5	1.5- 1.5		.99	1.16	.17	1.011	1.169	158	132	139	5230.4735		
1	19110.748	4	26885.383- 7774.653		13			5.0- 4.0	5.0- 4.0		1.055	1.465	.410	1.055	1.463	408	-079	-84	5231.2012		
1	19110.169	1	9386.801-28496.950		20				5.0- 4.0					0.801	0.810	9	-208	-199	5231.3597		
	19109.834	1																	5231.4514		
1	19108.914	0	17081.874-36190.820		-32				4.0- 5.0					1.217	1.030	187			5231.7033		
1	19108.082	1	12177.963-31286.029		16			1.0- 2.0	1.0- 2.0		.525	1.280	.755	0.525	1.280	755	-079	-93	5231.9311		
1	19107.195	2	35383.505-16276.332		22			3.0- 2.0	3.0- 2.0				.846	1.032	1.880*	848	154	158	5232.1740		
	19106.991	0																	5232.2299		
	19105.149	0																	5232.7343		
	19104.809	0																	5232.8274		
	19104.371	1																	5232.9474		
1	19103.800	4	21307.390- 2203.606		16			1.0- 1.0	1.0- 1.0		2.36	1.49	.87	2.360	1.495*	865		-63	5233.1038		
2	19101.822	0	20952.550-40054.350		22				1.5- 0.5					0.350	0.390	40		-121*	5233.6457		
	19101.273	1									.34	.34							-491	5233.7962	
1	19095.915	0	14737.788-33833.699		4				3.0- 2.0					0.815	0.930	115		-270	5235.2647		
2	19095.380	1H	29821.685-10726.322		17				5.5- 4.5					1.005	1.391	386		92	5235.4114	C2	
1	19095.380	1H	18147.975-37243.390		-35				3.0- 3.0					1.049	1.300*	251			5235.4114	C2	
2	19094.469	5	32820.775-13726.318		12			2.5- 2.5	2.5- 2.5		1.31	.78	.53	1.315	0.784	531	235	231	5235.6612		
1	19093.855	0	18602.505-37696.345		15				6.0- 6.0					0.910	1.066	156		70	5235.8295		
	19093.149	1																	359	5236.0231	
1	19091.517	4	36414.798-17323.291		10			4.0- 4.0	4.0- 4.0		1.10	1.25	.15	1.100	1.250*	150	092	99	5236.4707	PB	
1	19090.630	2	12322.613-31413.230		13				2.0- 3.0					1.036	0.742	294	-138	-134	5236.7140		
1	19083.484	1H	13046.108-37129.590		2				4.0- 5.0					0.694	1.010	316		37	5238.6750	HAZY C2	
1	19083.484	1H	34829.137-15745.648		-5				3.0- 3.0					1.125	1.145	20		114	5238.6750	HAZY C2	
	19083.248	1H																	-239	5238.7398	HAZY
1	19076.555	1	13726.661-32803.199		17				3.0- 3.0					1.150	0.825	325	-164	-168	5240.5778		
	19076.439	1																		5240.6097	
1	19075.369	0	16304.260-35379.603		26				4.0- 3.0					1.285	1.165	120	-264	-244	5240.9036		
1	19071.691	0H	10486.922-29558.591		22				1.0- 2.0					0.355	1.030	675		-373	5241.9144	HAZY	
2	19070.072	0	25070.615-45140.625		2				3.5- 2.5					1.119	0.850	269	249		5242.3594		
1	19069.508	1	26844.163- 7774.653		-2				4.0- 4.0					1.020	1.463	443		53	5242.5144		
1	19064.699	0	14025.007-33089.092		14				4.0- 5.0					0.975	1.069	94		-289	5244.0019		
	19062.763	1																		5244.3694	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
		19051.648	1																		
		19050.116	0																		
1		19058.848	0	14292.176-33351.007		17	.	.	5.0-	6.0					0.970	1.240*	270		-38		
		19057.979	0																		
1		19057.578	0	15449.472-34507.044		6	.	.	0.0-	1.0					0.000	1.020*	0		74		
1		19056.187	3	20457.704-39513.870		21*	.	.	0.0-	1.0					0.000	0.965	0		29		
		19056.187	3				5.0-	5.0				1.112	1.112	1180				-228			ZLNS
1		19052.996	1	15074.958-34127.955		-1	.	.	7.0-	8.0					1.097	1.185	88		-135		JQZLNS2J
2		19052.745	3	16499.640-35552.385		0	3.5-	3.5	3.5-	3.5				.118	0.773	0.903	130	-250	-237		
		19049.396	1									.89	.89								
1		19048.921	1	36372.210-17323.291		2*	4.0-	4.0	4.0-	4.0				.175	1.082	1.250*	168		209		
		19048.579	0																		
1		19047.728	1	25192.231- 6144.515		12	4.0-	3.0	4.0-	3.0		1.768	1.473	.295	1.768	1.473	295	-199	-199		
1		19045.721	0	19426.512-38472.240		-7*	.	.	3.0-	3.0					1.435	1.050*	385				
		19045.211	1				5.0-	5.0						.235				-206			
		19045.126	0																		
		19044.451	0																		
		19042.830	0																		
2		19039.243	3	14561.607-33600.850		0	1.5-	2.5	1.5-	2.5		1.147	1.270	.123	1.149	1.263	114	-208	-203		
		19035.770	0H																		
2		19033.244	4	21048.190- 2014.966		20	2.5-	1.5	2.5-	1.5		1.03	1.88	.85	1.030	1.881*	851	-064	134	142	HAZY
		19030.345	3				5.0-	5.0						.34				097			JQ
1		19029.370	0	15249.635-34279.010		-5	.	.	2.0-	1.0					0.715	1.710*	995		-331		
1		19028.894	3	14292.176-33321.067		3	5.0-	5.0	5.0-	5.0				.22	0.970	1.200*	230	-189	-188		
1		19026.954	6	34772.583-15745.648		19	.	.	3.0-	3.0		0.980	1.145	.165	0.990	1.145*	155	083	127		
1		19026.156	1	22181.368-41207.555		-31	.	.	3.0-	2.0					0.780	0.925*	145				
1		19025.563	0	18602.505-37628.055		13	.	.	6.0-	7.0					0.910	1.140*	230		56		
		19025.287	0																		
2		19024.170	0	41221.810-22197.670		30	.	.	4.5-	3.5					1.180	1.530	350				
1		19022.721	2	12159.465-31182.179		7	.	.	4.0-	4.0					0.844	1.210*	366	-289	-289		
1		19016.848	0	21031.258-40048.080		26*	.	.	2.0-	3.0					1.455	1.005	450				
1		19015.954	1	16834.379-35850.314		19	.	.	5.0-	6.0					0.961	1.040*	79		-150		
1		19015.569	4	23315.209- 4299.659		19	2.0-	2.0	2.0-	2.0					1.335	1.482	147		-42		
		19013.570	1																		
		19012.917	0																		
		19012.544	2																		
1		19011.108	2H	21737.407-40748.540		-25*	.	.	3.0-	3.0					1.026	1.020	6		+		
2		19010.229	3	17242.750-36252.985		-6	.	.	2.5-	3.5					1.200	1.004*	196	-107	-121		
1		19008.825	7	9724.351-28733.159		17	3.0-	4.0	3.0-	4.0		.43	1.03	.60	0.442	1.035	593	-104	-102		
		19006.013	0																		
2		19002.954	1	30802.205-11799.241		-10	.	.	4.5-	5.5					1.160	1.373*	213		-51		
2		18999.967	0	28481.495-47481.485		-23	.	.	4.5-	3.5					1.070	1.000*	70				
1		18997.249	0	18578.669-37575.920		-2*	.	.	1.0-	2.0					1.932	1.220*	712		-32		
		18996.824	0																		
		18995.661	0																		
		18994.347	1																		
2		18993.844	4	16499.640-35493.485		-1	3.5-	3.5	3.5-	3.5		.802	.960	.158	0.773	0.931	158	-213	-210		
2		18992.529	3	31060.010-12007.503		22	1.5-	1.5	1.5-	1.5		1.66	-0.04	1.70	1.669	-0.019	1688	377	371		
1		18990.809	4	32519.048-13528.246		7	2.0-	1.0	2.0-	1.0		.87	-0.60	1.47	0.880	-0.590*	1470	113	124		
		18987.376	0																		
1		18987.060	3	14737.788-33724.837		11	.	.	3.0-	3.0					0.815	1.160	345	-241	-243		
		18985.699	1																		
2		18985.386	1	41183.055-22197.670		1	.	.	3.5-	3.5					1.100	1.530	430				
2		18984.346	2	29710.665-10726.322		3	.	.	3.5-	4.5					1.100	1.391*	291		-58		
2		18983.459	1	28225.815- 9242.356		0	.	.	3.5-	3.5					1.200	1.369*	169		6		

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	18980.308	3	26478.635	7498.364	-13	3.5	2.5	3.5	2.5	1.025	1.315	.290	1.045	1.321	276	200	195	5267.1525		
1	18979.906	2	6313.866	25293.751	21	.	.	4.0	3.0	.	.	.	0.487	0.965	478	-375	-375	5267.2641		
2	18978.120	5	25586.100	9707.980	0	5.5	6.5	5.5	6.5	1.29	1.49	.20	1.290	1.485*	195	074	76	5267.7598		
1	18977.682	4	28155.938	9179.262	6	.	.	6.0	5.0	.	.	.	1.335	1.454	119	.	-86	5267.8813		
2	18977.397	4	19466.530	38443.925	2	4.5	4.5	4.5	4.5	1.150	1.020	.130	1.151	1.020	131	.	0	5267.9605		
2	18975.002	1B	37640.995	18666.006	13	.	.	2.5	2.5	1.36	1.36	.00	1.350	1.365*	15	.	.	5268.6254	C2	
1	18975.002	1B	19359.958	38034.960	0	.	.	5.0	6.0	.	.	.	1.375	1.140	235	.	-263	5268.6254	C2	
1	18974.896	1B	8768.139	27743.009	26	.	.	2.0	2.0	.	.	.	0.362	0.568	206	.	-29	5268.6548		
	18974.615	0	5268.7328	
	18973.231	0	5269.1172	
	18971.779	0	5269.5204	
1	18970.561	9	29209.020	10238.473	14	.	.	7.0	6.0	1.36	1.40	.04	1.390	1.431*	41	-109	-108	5269.8588		
1	18966.465	3	28738.938	9772.532	9	1.0	0.0	1.0	0.0	1.90	.000	.	1.892	0.000	0	.	-64	5270.9969		
1	18963.440	1	12322.613	31286.029	24	2.0	2.0	2.0	2.0	1.035	1.275	.24	1.036	1.280	244	.	-97	5271.8377		
1	18963.141	2	16595.109	35558.235	15	.	.	3.0	4.0	.	.	.	0.999	0.990	9	-184	-185	5271.9208		
1	18961.406	1	16888.909	35850.314	1	.	.	6.0	6.0	.	.	.	1.098	1.040*	58	-176	-175	5272.4032		
1	18960.669	4	8768.139	27728.796	12	2.0	3.0	2.0	3.0	.36	1.05	.69	0.362	1.060	698	-108	-124	5272.6082		
2	18959.421	5	14295.565	33254.995	-9	3.5	3.5	3.5	3.5	.81	.98	.17	0.790	0.975	185	-319	-319	5272.9552		
2	18958.792	2	37720.350	18761.580	22	.	.	4.5	5.5	.	.	.	1.145	1.296	151	334	342	5273.1302		
1	18955.559	1	26730.201	7774.653	11	.	.	3.0	4.0	.	.	.	0.950	1.463	513	.	-24	5274.0295		
1	18955.351	0	17031.874	36037.220	5	.	.	4.0	5.0	.	.	.	1.217	1.155	62	.	.	5274.0874		
1	18955.023	0	29193.490	10238.473	6	.	.	6.0	6.0	.	.	.	1.240	1.431*	191	.	-20	5274.1787		
	18954.636	0	5274.2864	
1	18951.394	2	16304.260	35255.665	-11	.	.	4.0	4.0	.	.	.	1.285	1.080*	205	-225	-264	5275.1836		
1	18948.851	2	16304.260	35253.102	9	.	.	4.0	5.0	.	.	.	1.285	1.110*	175	-291	-284	5275.8966		
1	18947.304	3	34692.946	15745.648	6	.	.	3.0	3.0	.	.	.	1.191	1.145	46	166	165	5276.3274		
	18945.404	0	5276.8565	HAZY
2	18944.524	5	32670.835	13726.318	7	2.5	2.5	2.5	2.5	1.360	.780	.580	1.361	0.784	577	255	256	5277.1017		
1	18942.990	0	15406.760	34349.740	10	.	.	1.0	1.0	.	.	.	0.890	0.810*	80	-186	-185	5277.5290		
1	18942.389	3	13726.661	32669.040	10	.	.	3.0	3.0	.	.	.	1.150	1.000*	150	-199	-189	5277.6964		
1	18941.533	1	12177.963	31119.494	7	.	.	1.0	2.0	.	.	.	0.525	0.814	289	.	-230	5277.9336		
1	18939.822	3	9386.801	28326.610	13	5.0	4.0	5.0	4.0	.	.	.	0.801	1.260*	459	-333	-326	5278.4118		
1	18935.878	5	11840.715	30779.585	8	.	.	3.0	3.0	.	.	.	0.811	0.860	49	-198	-188	5278.6749		
2	18937.580	0	20952.550	2014.966	-4	.	.	1.5	1.5	.	.	.	0.350	1.881	1531	.	119	5279.0367		
2	18936.609	0	26215.440	7278.862	31	.	.	5.5	4.5	.	.	.	1.121	1.545	424	.	336	5279.3074		
	18935.602	0H	5279.5881	
1	18934.149	4	26708.790	7774.653	12	3.0	4.0	3.0	4.0	.870	1.475	.605	0.855	1.463	608	.	-61	5279.9933		
2	18930.880	0C	19632.555	38563.445	-10	.	.	1.5	2.5	.	.	.	1.010	1.085*	75	.	.	5280.9050		
1	18927.288	4	12159.465	31086.744	9	.	.	4.0	5.0	.	.	SML	0.844	0.795	49	.	-33	5281.9073	DJ1	
2	18927.190	2	20063.650	38990.840	0	.	.	4.5	4.5	1.05	1.09	.04	1.049	1.105	56	.	-157	5281.9346	DJ0	
	18926.728	1	5282.0635	
2	18923.461	0	40214.805	21291.350	6	.	.	4.5	4.5	.	.	.	1.320	1.590	270	281	281*	5282.9755		
1	18920.743	1	18602.505	37523.250	-2	.	.	6.0	6.0	.	.	.	0.910	1.055	145	+	47	5283.7344		
	18920.239	1	5283.8612	
	18919.612	0	5284.0502	
1	18917.961	1	28690.482	9772.532	11	.	.	1.0	0.0	.	.	.	1.195	0.000	0	.	1	5284.5114		
2	18916.745	0	25064.960	43981.710	-5	.	.	1.5	2.5	.	.	.	0.580	1.090	510	.	.	5284.8511		
	18914.965	0	5285.3484	
2	18914.826	0	37580.805	18666.006	27	.	.	2.5	2.5	.	.	.	1.215	1.365	150	.	235*	5285.3873		
	18913.478	0	5285.7640	
	18911.962	0	5286.1877	
2	18911.605	0	27982.155	46893.745	15	.	.	2.5	1.5	.	.	.	0.520	0.670*	150	.	.	5286.2875		
1	18910.379	5	34656.014	15745.648	13	.	.	3.0	3.0	1.12	1.15	.03	1.110	1.145	35	168	170	5286.6302		
1	18908.581	3	9386.801	28295.380	2	5.0	4.0	5.0	4.0	.	.	.	0.801	1.155	354	-177	-183	5287.1329		
2	18906.991	3	26405.340	7498.364	15	3.5	2.5	3.5	2.5	.	.	.475	0.852	1.321	469	+	32	5287.5776		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	18903.917	4	37665.440-18761.580		57	57	4.5-	5.5	4.5-	5.5	1.11	1.28	.17	1.105	1.296	191	249	249*	5288.4374	
1	18900.184	5	25044.687- 6144.515		12	12	4.0-	3.0	4.0-	3.0	1.19	1.45	.26	1.210	1.473*	263	142	138	5289.4819	IS*
	18895.485	2																	5290.7973	
1	18893.592	1	16304.260-35197.829		23	23	.	.	4.0-	3.0	.	.	.	1.285	1.080	205	-226	-235	5291.3275	
1	18890.781	1	14292.176-33182.933		24	24	.	.	5.0-	6.0	.	.	.	0.970	1.050	80	-160	-166	5292.1148	
2	18839.052	5	14561.607-33450.655		4	4	1.5-	2.5	1.5-	2.5	1.14	.93	.21	1.149	0.941	208	-214	-218	5292.5992	
1	18836.598	0	16202.112-35088.705		5	5	0.0-	1.0	0.0-	1.0	.	1.36	.	0.000	1.380	0	.	.	5293.2869	f
2	18835.319	0	24387.360- 5502.060		19	19	1.5-	1.5	1.5-	1.5	.950	1.175	.225	0.955	1.169	214	.	288	5293.6454	
1	18876.046	0	12322.613-31198.642		17	17	.	.	2.0-	3.0	.	.	.	1.036	1.070	34	.	-122	5296.2460	
1	18873.675	0	11840.715-30714.385		5	5	.	.	3.0-	4.0	.	.	.	0.811	1.150	339	.	-100	5296.9113	
	18873.001	2															.	+	5297.1005	
1	18871.385	2	14692.549-33563.924		10	10	.	.	2.0-	1.0	.	.	.	0.292	0.430*	138	-276	-285	5297.5541	
1	18870.406	3	29108.865-10238.473		14	14	.	.	5.0-	6.0	.	.	.	1.210	1.431*	221	.	-10	5297.8290	
	18870.083	0																	5297.9196	
2	18868.542	2	35614.250-16745.720		12	12	1.5-	2.5	1.5-	2.5	1.525	1.665	.140	1.560	1.671	111	225	228	5298.3523	
1	18866.730	0	14737.788-33604.497		21	21	.	.	3.0-	3.0	.	.	.	0.815	1.210	395	-184	-184	5298.8612	
2	18854.070	5	24366.120- 5502.060		10	10	0.5-	1.5	0.5-	1.5	2.40	1.18	1.22	2.420	1.169*	1251	-115	-120	5299.6084	
2	18861.337	1	18720.075-37581.395		17	17	3.5-	3.5	3.5-	3.5	1.07	.76	.305	1.060	0.748	312	.	-55	5300.3763	
1	18857.429	4	28036.676- 9179.262		15	15	6.0-	5.0	6.0-	5.0	1.225	1.460	.235	1.216	1.454	238	0	-3	5301.4748	
	18856.096	0																	5301.8496	
	18855.616	0															.	+	5301.9845	
1	18855.113	0	18897.584-37752.690		7	7	.	.	5.0-	6.0	.	.	.	1.280	1.110*	170	.	-222	5302.1260	
1	18851.470	0	16834.379-35685.835		14	14	.	.	5.0-	5.0	.	.	.	0.961	1.104	143	.	-103	5303.1506	
1	18851.239	0	12322.613-31173.814		38	38	.	.	2.0-	1.0	.	.	.	1.036	0.450*	586	.	-186	5303.2156	
2	18848.113	2	16499.640-35347.740		13	13	3.5-	3.5	3.5-	3.5	.	.	.	0.773	1.195	422	-130	-126	5304.0952	
1	18346.993	7	6313.866-25160.827		32	32	4.0-	3.0	4.0-	3.0	.	.	.	0.487	0.800	313	-020	-15	5304.4104	IS*
	18845.954	0																	5304.7028	
2	18845.754	0	24976.585-43822.335		4	4	.	.	3.5-	2.5	.	.	.	0.960	0.950*	10	.	-43*	5304.7591	
1	18844.057	5	28023.294- 9179.262		25	25	4.0-	5.0	4.0-	5.0	1.24	1.46	.22	1.240	1.454*	214	15	10	5305.2368	IS*
	18842.509	0																	5305.6727	
	18842.329	0																	5305.7234	
1	18342.143	0	17500.977-36343.140	-20*			.	.	1.0-	0.0	.	.	.	2.258	0.800	0	.	-100	5305.7757	
2	18841.162	0	35586.850-16745.720		32	32	.	.	1.5-	2.5	.	.	.	1.160	1.671*	511	.	228	5306.0520	C2
1	18841.162	0	32519.048-13677.903		17	17	.	.	2.0-	1.0	.	.	.	0.880	1.442	562	.	-121	5306.0520	C2
1	18839.319	0	18963.921-37803.250	-10			.	.	4.0-	3.0	.	.	.	1.251	1.081	170	.	-244	5306.5711	C2
1	18839.319	0	33181.270-14341.947	-4*			.	.	1.0-	2.0	.	.	.	1.490	0.852*	638	.	.	5306.5711	C2
	18838.532	0																	5306.7787	
1	18837.234	7	9724.351-28561.548		37	37	3.0-	2.0	3.0-	2.0	.45	.78	.33	0.442	0.784	342	-168	-166	5307.1584	
2	18835.814	1	24337.845- 5502.060		29	29	.	.	2.5-	1.5	.	.	.	0.900	1.169	269	.	121	5307.5585	
	18835.390	0																	5307.6780	
	18834.832	0																	5307.8353	
1	18832.338	3H	33174.265-14341.947		20	20	.	.	2.0-	2.0	.86	.86	.	0.864	0.852	12	176	176	5308.5382	HAZY
1	18831.783	6	26606.405- 7774.653		31	31	5.0-	4.0	5.0-	4.0	1.11	1.45	.34	1.130	1.463*	333	.	-21	5308.6947	
1	18829.553	0	15449.472-34279.010		15	15	.	.	0.0-	1.0	.	.	.	0.000	1.710*	0	.	+	5309.3234	
	18828.443	1															.	-141	5309.6364	
1	18827.671	4	21031.258- 2203.606		19	19	2.0-	3.0	2.0-	1.0	1.455	1.495	.040	1.455	1.495	40	-109	-126	5309.8541	SO
1	18825.991	7	24970.474- 6144.515		32	32	4.0-	3.0	4.0-	3.0	1.460	1.475	.015	1.460	1.473*	13	.	-42	5310.3280	
1	18824.395	0	18591.122-37415.495		22	22	.	.	4.0-	5.0	.	.	.	0.965	0.980	15	-249	-240	5310.7782	
2	18322.395	0	26320.735- 7498.364		24	24	.	.	2.5-	2.5	.	.	.	1.050	1.321	271	.	34	5311.3425	
1	18820.820	0	24331.050-43201.845		25	25	.	.	5.0-	5.0	.	.	.	1.450	1.090*	360	.	.	5311.7870	C2
1	18820.820	0	17615.482-36436.294		8	8	.	.	2.0-	3.0	.	.	.	1.450	1.095	355	.	-136	5311.7870	C2
1	18820.314	0	21227.793-40048.080		27*	27*	.	.	4.0-	3.0	.	.	.	1.346	1.005	341	.	.	5311.9298	
	18813.873	0															.	+	5313.7484	
1	18811.640	0C	20425.711-39237.380		-29	-29	.	.	1.0-	2.0	.	.	.	1.340	1.210*	130	.	.	5314.3791	
	18811.207	0																	5314.5015	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
	18810.035	0																				
1	18809.280	0		15074.958-33884.230		8	.	.	.	7.0-	7.0	.	.	.	1.097	1.105	8		-327	5314.8326		
	18308.386	0																			5315.0459	
	18304.691	3		17554.704-36359.337		8	8.0-	8.0	8.0-	8.0	1.170	1.185	.015	1.170	1.185*	15	-214	-214	5315.2986		DJO	
2	18303.197	6		22038.950- 3235.770		17	.	.	.	0.5-	0.5	.32	.30	.02	0.344	0.299	45	-067	-78	5316.3430		
1	18802.190	0		8768.139-27570.322		7	.	.	.	2.0-	3.0	.	.	.	0.362	1.265	903	-345	-344	5316.7654		
2	18301.912	0		26916.090-45718.025		-23	.	.	.	2.5-	3.5	.	.	.	1.040	1.065*	25			5317.0502		
1	18801.243	5		23100.887- 4299.659		15	.	.	.	3.0-	2.0	1.520	1.485	.035	1.520	1.482	38	-150	-155	5317.1288		
1	18792.981	1		12177.963-30970.926		18	.	.	.	1.0-	1.0	.	.	.	0.525	0.295	230	-173	-169	5317.3180		
2	18791.769	2		26070.615- 7278.862		16	3.5-	4.5	3.5-	4.5	1.125	1.545	.420	1.119	1.545	426	+	53	5319.6557			
	18790.130	2																		5319.9988		
	18789.705	7																		5320.4628		
1	18789.705	7		39618.160-20828.475		20	3.0-	4.0	3.0-	4.0	.27	.35	.07	0.270	0.352*	82	+	50	5320.5832	HAZYIS*		
2	18787.438	5		30794.930-12007.503		11	1.5-	1.5	1.5-	1.5	1.12	.03	1.09	1.084	0.019	1103	301	300	5320.5832	2LNSHAZY		
	18785.443	1W																		5321.2252		
1	18784.856	6		14025.007-32809.844		19	4.0-	4.0	4.0-	4.0	.97	.89	.08	0.975	0.900	75	-216	-220	5321.7903			
	18784.757	0																		5321.9566		
2	18784.325	0		28026.690- 9242.356		-9	.	.	.	2.5-	3.5	.	.	.	1.320	1.369*	49		141	5321.9847		
	18783.536	0																		5322.1071		
1	18782.279	1		34527.915-15745.648		12	.	.	.	2.0-	3.0	.	.	.	1.310	1.145	165		122*	5322.3306		
1	18782.148	1		10486.922-29269.059		11	.	.	.	1.0-	1.0	.	.	.	0.355	1.110*	755	-190	-187	5322.6868		
1	18779.220	1		14853.317-33632.520		17	.	.	.	4.0-	5.0	.	.	.	0.786	1.305	519	-090	-92	5322.7239		
1	18778.804	1		14763.705-33542.506		3	.	.	.	1.0-	2.0	.	.	.	-0.066	1.123	1189		-242	5323.5539		
1	18772.615	5		9724.351-28496.950		16	3.0-	4.0	3.0-	4.0	.470	.825	.355	0.442	0.810	368	-191	-195	5323.6718			
2	18769.232	1		20063.650-38832.875		7	.	.	.	4.5-	4.5	.	.	.	1.049	0.995	54		-158	5325.4269		
1	18758.867	0		14692.549-33461.419		-3	.	.	.	2.0-	3.0	.	.	.	0.292	0.950*	658		-303	5326.3868		
	18767.087	0																		5326.4904		
1	18765.976	0W		16304.260-35070.230		6	.	.	.	4.0-	5.0	.	.	.	1.285	0.869	416		-145	5326.9956		
1	18764.640	0		17911.977-36676.620		-3	.	.	.	5.0-	4.0	.	.	.	1.145	1.150*	5		-357	5327.3110		
	18753.179	0C																		5327.6903		
2	18762.146	7		14295.565-33057.710		1	3.5-	3.5	3.5-	3.5	.81	.87	.057	0.790	0.857	67	-113	-121	5328.1051			
1	18760.235	1		14737.788-33498.071		12	.	.	.	3.0-	3.0	.	.	.	0.815	0.770	45	-177	-187	5328.3985		
1	18759.472	1		37615.923-18856.461		10	.	.	.	5.0-	5.0	.	.	.	1.095	1.325	230	140	147	5328.9242		
1	18755.818	1		13726.661-32482.465		14	.	.	.	3.0-	4.0	.	.	.	1.150	1.330*	180		-346	5329.1580		
1	18755.279	1		16833.909-35644.180		8	.	.	.	6.0-	7.0	.	.	.	1.098	1.070*	28	-169	-169	5330.1962		
1	18751.598	3		34497.235-15745.648		11	3.0-	3.0	3.0-	3.0	1.070	1.155	.085	1.070	1.145*	75	118	126	5330.3494			
1	18750.289	0		16304.260-35054.565		-16	.	.	.	4.0-	3.0	.	.	.	1.285	0.998	287		-214	5331.3958		
	18750.000	0																		5331.7680		
1	18749.723	1		34495.354-15745.648		17	.	.	.	2.0-	3.0	.	.	.	1.180	1.145*	35		142	5331.8502		
	18743.878	1																		5331.9290		
	18743.192	0																		5333.5917		
1	18741.618	5		26516.261- 7774.653		10	5.0-	4.0	5.0-	4.0	1.20	1.45	.25	1.200	1.463*	263	+	51	5333.7869			
	18740.725	1																		5334.2348		
2	18739.799	0		27982.155- 9242.356		0	.	.	.	2.5-	3.5	.	.	.	0.520	1.369*	849	-265		5334.4890		
1	18737.782	4		23037.432- 4299.659		9	1.0-	2.0	1.0-	2.0	.88	1.49	.61	0.870	1.482	612	162	173	5334.7526			
	18737.356	0																		5335.3269		
1	18736.156	2		36059.430-17323.291		17	.	.	.	4.0-	4.0	.	.	.	1.090	1.250*	160	225	225	5335.4482		
1	18735.240	0		12351.522-31086.744		18	.	.	.	6.0-	5.0	.	.	.	0.995	0.795	200		-39	5335.7899		
	18733.386	1																		5336.0508		
2	18730.997	2		29457.315-10726.322		4	.	.	.	4.5-	4.5	.	.	.17	1.230	1.391	161	+	44*	5336.5789	DJ1 SI	
1	18730.271	3		27909.524- 9179.262		9	.	.	.	4.0-	5.0	.	.	.	1.270	1.454*	184	-	-51	5337.2595		
1	18728.638	7		33070.573-14341.947		12	2.0-	2.0	2.0-	2.0	.675	.850	.175	0.673	0.852	179	30	40	5337.4664	IS*		
	18725.832	1																		5337.9318		
	18725.360	1W																		5338.7317		
1	18724.587	0		36297.181-17572.608		14	.	.	.	2.0-	2.0	.	.	.	1.010	0.555*	455	+	165	5338.8662		
																				5339.0866		

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	18720.526	0		14912.011-33632.520	17	.	.	.	4.0-	5.0	.	.	.	0.496	1.305	809		5	5340.2449		
2	18720.049	1H		17532.937-36252.985	1	.	.	.	3.5-	3.5	.	.	.	1.238	1.004	234		-139	5340.3809	HAZY	
1	18719.602	1		12322.613-31042.204	11	.	.	.	2.0-	3.0	.	.	.	1.036	1.010	26		-096	5340.5085		
2	18719.041	0		18720.075-37439.105	11	.	.	.	3.5-	3.5	.	.	.	1.060	0.926	134		-226	5340.6685		
1	18718.136	0		36433.410-17765.281	7	.	.	.	4.0-	3.0	.	.	.	1.100	1.680*	580		129	5340.9267		
	18717.634	0																	5341.0700		
2	18714.896	8		24432.860- 5717.976	12	3.5-	3.5	3.5-	3.5	3.5	1.13	1.61	.48	1.110	1.596*	486	079	97	5341.8514		
1	18714.699	4		16233.909-35603.532	26	6.0-	6.0	6.0-	6.0	6.0	1.10	1.07	.03	1.098	1.070*	28	-186	-181	5341.9076		
1	18713.389	4		28951.847-10238.473	15	5.0-	6.0	5.0-	6.0	6.0	1.33	1.47	.14	1.290	1.431*	141		-68	5342.2816		
	18711.243	0																208		5342.8943	
2	18704.646	4		24205.690- 5502.060	16	1.5-	1.5	1.5-	1.5	1.5	.87	1.19	.32	0.863	1.169	306		-20	5344.7787		
2	18703.291	3		26201.645- 7498.364	10	2.5-	2.5	2.5-	2.5	2.5	1.04	1.31	.27	1.036	1.321	285	143	150	5345.1659		
2	18698.851	2		28887.310-10188.463	4	0.5-	0.5	0.5-	0.5	0.5	.17	2.40	2.23	0.162	2.402	2240		19	5346.4351		
1	18695.539	0		10436.922-29182.445	16	.	.	.	1.0-	1.0	.	.	.	0.355	0.000*	0		-176	5347.3823		
	18695.233	0																		5347.4698	
	18692.827	0H																		5348.1581	HAZY
2	18690.822	1		14295.565-32986.390	-3	.	.	.	3.5-	2.5	.	.	.	0.790	1.040*	250	-342	-337	5348.7318		
	18690.388	0																		5348.8560	
	18689.814	0H																		5349.0203	
1	18686.946	4		33028.868-14341.947	25	2.0-	2.0	2.0-	2.0	2.0	.99	.86	.13	0.987	0.852	135	222	222	5349.8413		
2	18686.406	0		35432.095-16745.720	31	.	.	.	1.5-	2.5	.	.	.	1.190	1.671	481			5349.9959		
2	18685.556	0		39976.890-21291.350	16	.	.	.	3.5-	4.5	.	.	.	1.170	1.590	420	271	271*	5350.2392		
1	18684.995	1		14912.011-33596.975	31	.	.	.	4.0-	5.0	.	.	.	0.496	1.315	819		-44	5350.3999		
2	18684.742	1		12992.644-31677.390	-4	.	.	.	2.5-	2.5	.	.	.	0.643	0.675	32		-119	5350.4723		
2	18684.115	4		22653.965- 3969.846	-4	2.5-	2.5	2.5-	2.5	2.5	.	.	.305	1.360	1.670*	310	165	172	5350.6519	C2 2LNS	
2	18684.115	4		25952.945- 7278.862	32	.	.	.	4.5-	4.5	.	.	.495	1.065	1.545	480	165	167	5350.6519	C2 2LNS	
2	18682.213	3		22652.035- 3969.846	24	3.5-	2.5	3.5-	2.5	2.5	1.22	1.67	.45	1.185	1.670	485		148	5351.1966		
1	18680.212	0		24824.706- 6144.515	21	.	.	.	4.0-	3.0	.	.	.	1.145	1.473	328		103	5351.7698		
1	18676.740	3H		14292.176-32968.906	10	.	.	.	5.0-	4.0	.	.	.	0.970	1.115	145	-200	-200	5352.7647		
2	18674.880	0		38997.205-20322.349	24	.	.	.	5.5-	6.5	.	.	.	1.073	1.314	241		491	5353.2979		
2	18674.466	1		39732.350-21057.925	31	3.5-	2.5	3.5-	2.5	2.5	1.28	1.58	.30	1.275	1.590	315	240	244	5353.4166	54, 125Q	
1	18673.511	5		28446.024- 9772.532	19	1.0-	0.0	1.0-	0.0	0.0	.75	.000		0.745	0.000	0	-077	-99	5353.6903		
2	18671.845	0		32398.160-13726.318	3	.	.	.	2.5-	2.5	.	.	.	1.308	0.784	524		493*	5354.1680		
1	18671.316	2		15249.635-33920.944	7	2.0-	2.0	2.0-	2.0	2.0	.73	1.05	.32	0.715	1.040*	325	-204	-205	5354.3197		
	18666.368	0																		5355.7390	
1	18660.566	0		16595.109-35255.665	10	.	.	.	3.0-	4.0	.	.	.	0.999	1.080*	81		-221	5357.4043		
	18660.414	0																		5357.4479	
1	18658.946	2		14912.011-33570.935	22	.	.	.	4.0-	4.0	.	.	.	0.496	1.130*	634		0	5357.8694		
2	18656.298	2		18656.277- 0.000	21	.	.	.	1.5-	0.5	.	.	.	0.000	3.150*	0		165	5358.6299		
1	18655.488	1		12159.465-30814.939	14	.	.	.	4.0-	5.0	.	.	.	0.844	1.111	267	-222	-225	5358.8626		
1	18652.529	5		28890.990-10238.473	12	7.0-	6.0	7.0-	6.0	6.0	1.26	1.43	.17	1.272	1.431	159	-020	-9	5359.7127	IS*	
1	18649.530	0		36414.798-17765.281	13	.	.	.	4.0-	3.0	.	.	.	1.100	1.680*	580		103	5360.5746		
	18647.892	2																		5361.0455	
	18646.345	1																		5361.4903	
1	18644.762	1		14853.317-33498.071	8	.	.	.	4.0-	3.0	.	.	.	0.786	0.770	16		-113	5361.9455		
	18644.428	1																		5362.0415	
	18644.260	1																		5362.0899	
1	18644.034	1B		14025.007-32669.040	1	.	.	.	4.0-	3.0	.	.	.	0.975	1.000*	25		-188	5362.1549		
	18643.949	1B																		5362.1793	
1	18643.203	5		32985.135-14341.947	20	2.0-	2.0	2.0-	2.0	2.0	.765	.850	.086	0.757	0.852	95	167	167	5362.3924		
	18641.545	0																		5362.8708	
1	18637.268	8		6313.866-24951.118	16	4.0-	3.0	4.0-	3.0	3.0	.49	.84	.35	0.487	0.840	353	-028	-28	5364.1015	IS*	
1	18636.771	0		17500.977-36137.730	18	.	.	.	1.0-	2.0	.	.	.	2.258	1.525	733		-158	5364.2446		
	18636.276	1																		5364.3871	
1	18634.539	2		12322.613-30957.140	12	.	.	.	2.0-	2.0	.	.	.	1.036	0.980	56	-237	-225	5364.8871		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	18633.733	0	28259.990-46893.745			-22	.	.	1.5-	1.5	.	.	.	1.263	0.670*	593			5365.1192	
1	18630.662	0	32308.557-13677.903			8	.	.	2.0-	1.0	.	.	.	1.327	1.442	115		-94	5366.0035	
1	18630.155	0H	28858.619-10238.473			9	.	.	5.0-	6.0	.	.	.	1.085	1.431	346		-5	5366.1496	
	18628.994	0					.	.			.	.	.						5366.4840	
2	18623.962	3	24341.940- 5717.976			-2	4.5-	3.5	4.5-	3.5	1.280	1.552	.272	1.310	1.596	286	159	151	5367.9340	
1	18620.121	2	12159.465-30779.585			1	.	.	4.0-	3.0	.	.	.	0.844	0.860	16	-184	-187	5369.0413	
2	18619.493	1	33052.825-14433.351			19	0.5-	1.5	0.5-	1.5	.	.	.	1.242	1.925	683		306*	5369.2224	
1	18618.386	3	11840.715-30459.091			10	3.0-	2.0	3.0-	2.0	.	.	.	0.811	1.255	444	-303	-302	5369.5416	
	18617.348	0					.	.			.	.	.						5369.8410	
1	18616.718	0	13517.647-32134.354			11	.	.	2.0-	3.0	.	.	.	0.892	0.000*	0	-207	-196	5370.0227	
1	18615.335	4	6313.866-24929.184			17	4.0-	4.0	4.0-	4.0	.485	1.080	.595	0.487	1.080	593	-137	-145	5370.4217	
2	18615.054	2	14295.565-32910.615			4	.	.	3.5-	3.5	.	.	.	0.790	0.845	55		-170	5370.5028	
2	18613.727	1	17242.750-35856.485			-8	.	.	2.5-	3.5	.	.	.	1.200	1.025*	175	-311	-308	5370.8856	
2	18612.373	1	37373.930-18761.580			23	.	.	4.5-	5.5	.	.	.	1.175	1.296	121			5371.2764	
1	18612.105	1	14025.007-32637.106			6	.	.	4.0-	3.0	.	.	.	0.975	0.820*	155		-178	5371.3537	
2	18611.399	1	30410.665-11799.241			-25	.	.	4.5-	5.5	.	.	.	1.126	1.373	247		397*	5371.5575	
1	18611.285	1	14853.317-33464.592			10	.	.	4.0-	4.0	.	.	.	0.786	0.000*	0	-181	-175	5371.5904	
1	18609.816	0	18602.505-37212.310			11	.	.	6.0-	5.0	.	.	.	0.910	0.990	80		-23	5372.0144	
1	18607.828	2	6313.866-24921.671			23	.	.	4.0-	5.0	.	.	.53	0.487	1.034	547	-087	-98	5372.5883	
1	18606.611	0	19865.603-38472.240			-26*	.	.	4.0-	3.0	.	.	.	1.100	1.050*	50			5372.9397	
1	18605.427	2	16155.109-34760.532			4	.	.	5.0-	6.0	.	.	.	0.948	1.140*	192	-171	-172	5373.2817	
1	18603.976	0	17081.874-35685.835			15	.	.	4.0-	5.0	.	.	.	1.217	1.104	113		-120	5373.7008	
1	18602.273	5	9724.351-28326.610			14	3.0-	4.0	3.0-	4.0	.45	1.26	.81	0.442	1.260*	818	-315	-322	5374.1927	
1	18601.781	7	27781.032- 9179.262			11	6.0-	5.0	6.0-	5.0	1.22	1.43	.21	1.250	1.454*	204	-050	-48	5374.3349	IS*
1	18600.352	3	26374.994- 7774.653			11	.	.	4.0-	4.0	.	.	.	0.000	1.463	0		-31	5374.7477	
1	18600.173	2	37456.630-12855.461			4	.	.	5.0-	5.0	.	.	.	1.085	1.325	240			5374.7995	C2
2	18600.173	2	34028.695-15488.530			8	.	.	2.5-	3.5	.	.	.	1.340	1.057	283		260*	5374.7995	C2
	18597.979	2					.	.			.	.	.						5375.4335	
1	18597.591	5	24742.092- 6144.515			14	4.0-	3.0	4.0-	3.0	.98	1.47	.49	0.980	1.473*	493	0	0	5375.5457	IS*
	18595.241	0					.	.			.	.	.						5376.2250	
1	18594.301	0	18046.108-36640.400			9	.	.	4.0-	3.0	.	.	.	0.694	1.035	341	+	19	5376.4968	
	18593.384	0					.	.			.	.	.						5376.7620	
2	18593.004	0	38915.335-20322.349			18	.	.	5.5-	6.5	.	.	.	1.120	1.314*	194			5376.8719	
1	18590.130	2	19558.257-38148.375			12	2.0-	3.0	2.0-	3.0	-0.19	.67	.86	-0.145	0.690	835	+		5377.7031	
	18588.991	0					.	.			.	.	.						5378.0327	
2	18587.714	2	27830.060- 9242.356			10	.	.	2.5-	3.5	.	.	.	1.216	1.369	153	+	27	5378.4021	
2	18586.555	1	35332.255-16745.720			20	.	.	2.5-	2.5	.	.	.	1.263	1.671	408	228	232	5378.7375	
1	18586.050	2	14912.011-33498.071			-10	.	.	4.0-	3.0	.	.	.	0.496	0.770	274		-16	5378.8837	
2	18585.655	5	27828.005- 9242.356			6	.	.	4.5-	3.5	1.415	1.365	.050	1.410	1.369*	41	107	90	5378.9980	
1	18583.406	2	19236.116-37819.580			22*	.	.	7.0-	7.0	.	.	.	1.155	1.110*	45	-130	-143	5379.6258	
2	18583.270	1	30590.765-12907.503			8	.	.	2.5-	1.5	.	.	.	0.900	-0.019	919		400*	5379.6883	C2
1	18583.270	1	19074.292-37657.560			2	.	.	2.0-	3.0	.	.	.	1.532	1.132	400			5379.6883	C2
2	18582.231	0H	39873.620-21291.350			-39	.	.	3.5-	4.5	.	.	.	1.160	1.590*	430			5379.9891	HAZY
1	18581.729	1	12046.108-36627.825			12	.	.	4.0-	4.0	.	.	.	0.694	0.980	286		50	5380.1345	
1	18578.760	0	14912.011-33490.744			27	4.0-	5.0	4.0-	5.0	.49	1.08	.59	0.496	1.084	588		-68	5380.9943	
1	18578.697	9	18578.669- 0.000			28	1.0-	0.0	1.0-	0.0	1.93	.000		1.932	0.000	0	-063	-63	5381.0125	IS*
2	18578.392	1	23538.650-42117.035			7	.	.	3.5-	2.5	.	.	.	1.470	0.835*	635		-60*	5381.1009	
	18577.590	1					.	.			.	.	.						5381.3332	
1	18577.003	6	14292.176-32869.165			14	5.0-	5.0	5.0-	5.0	.976	.924	.052	0.970	0.916	54	-253	-248	5381.5032	
2	18574.784	3	35614.250-17039.487			21	1.5-	1.5	1.5-	1.5	1.55	1.36	.20	1.550	1.354	206	234	228	5382.1461	
2	18572.268	3	26070.615- 7498.364			17	3.5-	2.5	3.5-	2.5	1.114	1.316	.202	1.119	1.321	202	075	69	5382.8752	
1	18571.042	4	9724.351-28295.320			13	3.0-	4.0	3.0-	4.0	.42	1.14	.72	0.442	1.155	713	-172	-179	5383.2306	
	18568.096	0					.	.			.	.	.						5384.0847	
	18567.612	0					.	.			.	.	.						5384.2251	
	18567.120	0					.	.			.	.	.						5384.3677	

C	HAVENTUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	18565.923	1	20769.512-	2203.606	17	.	.	2.0-	1.0	.	.	.	1.070	1.495*	425	082	-98	5384.7149	IS-082Q	
1	18565.334	6	14853.317-	33418.637	14	4.0-	5.0	4.0-	5.0	.81	.88	.07	0.786	0.872	86	-192	-192	5384.8857		
1	18551.353	2	10486.922-	29048.255	20	1.0-	1.0	1.0-	1.0	.35	.89	.54	0.355	0.900	545	-250	-253	5386.0407		
	18556.543	1				128			5387.4368	
2	18556.143	1	27798.480-	9242.356	19	.	.	3.5-	3.5	.	.	.	1.060	1.369*	309		79	5387.5529		
2	18554.496	2	30562.000-	12007.503	-1	0.5-	1.5	0.5-	1.5	2.69	-0.01	2.70	2.689	-0.019	2708	360	366	5388.0312		
1	18554.385	2	11840.715-	30395.062	38	.	.	3.0-	4.0	.	.	.	0.811	0.920	109		-189	5388.0634		
	18554.142	2							5388.1340	
	18552.477	1					-239		5388.6175	
2	18549.649	1	25403.645-	43953.290	4	.	.	2.5-	1.5	.	.	.	1.029	1.510	481	113		5389.4391		
1	18548.828	1	13517.647-	32066.452	23	.	.	2.0-	2.0	.89	.89	.	0.892	0.910*	18	-245	-246	5389.6776		
2	18543.325	3	29269.625-	10726.322	22	.	.	5.5-	4.5	.	.	.	1.110	1.391	281	125	116	5391.2771		
1	18543.097	5	26317.729-	7774.653	21	4.0-	4.0	4.0-	4.0	1.18	1.46	.28	1.180	1.463*	283	-051	-70	5391.3434		
	18541.446	1							5391.8235	
1	18537.445	5	22837.092-	4299.659	12	3.0-	2.0	3.0-	2.0	1.11	1.49	.38	1.110	1.482*	372	149	157	5392.9872		
	18536.608	0							5393.2307	
1	18534.670	0	32212.561-	13677.903	12	.	.	2.0-	1.0	.	.	.	1.400	1.442*	42		-48	5393.7947		
1	18531.890	0	36297.181-	17765.281	-10	.	.	2.0-	3.0	.	.	.	1.010	1.680*	670		190	5394.6038		
	18528.224	2					-268		5395.6712	
1	18527.091	6	26301.732-	7774.653	12	5.0-	4.0	5.0-	4.0	1.08	1.48	.40	1.060	1.463*	403	-016	-13	5396.0012	IS*	
1	18526.557	1	27705.804-	9179.262	15	.	.	5.0-	5.0	.	.	.31	1.160	1.454*	294	+	17	5396.1567		
2	18525.426	2	34013.940-	15488.530	16	.	.	3.5-	3.5	.	.	.	1.121	1.057	64	356	351	5396.4861		
	18523.534	0							5397.0373	
1	18522.468	0	16532.104-	35054.565	7	.	.	3.0-	3.0	.	.	.	0.300	0.998	698		0	5397.3480		
1	18522.014	0	16155.109-	34677.111	12	.	.	5.0-	4.0	.	.	.	0.948	1.080	132		-240	5397.4803		
2	18520.073	1	35265.810-	16745.720	-17	.	.	3.5-	2.5	.	.	.	0.980	1.671*	691		383*	5398.0459		
2	18519.086	3	16499.640-	35018.725	1	3.5-	3.5	3.5-	3.5	.77	.90	.13	0.773	0.911	138	-105	-101	5398.3336		
1	18515.910	1	16155.109-	34670.995	24	5.0-	5.0	5.0-	5.0	.945	1.010	.065	0.948	1.010*	62	-206	-214	5399.2596		
1	18514.190	2	15406.760-	33920.944	6	1.0-	2.0	1.0-	2.0	.88	1.04	.16	0.890	1.040*	150	-119	-134	5399.7612		
1	18506.641	6	14912.011-	33418.637	15	4.0-	5.0	4.0-	5.0	.49	.86	.37	0.496	0.872	376	-083	-95	5401.9639	IS*	
1	18500.489	3	24644.996-	6144.515	8	3.0-	3.0	3.0-	3.0	1.21	1.44	.23	1.195	1.473	278	070	80	5403.7602		
1	18497.545	1	12177.963-	30675.497	11	.	.	1.0-	2.0	.	.	.	0.525	0.375	150	-179	-184	5404.6202		
1	18496.264	2	34772.583-	16276.332	13	3.0-	2.0	3.0-	2.0	.99	1.88	.89	0.990	1.880*	890	160	133	5404.9946		
1	18495.128	1	34240.784-	15745.648	-8	.	.	3.0-	3.0	.	.	.	1.067	1.145	78	157	154	5405.3265		
2	18493.246	0	30292.495-	11799.241	-8	.	.	6.5-	5.5	.	.	.	1.123	1.373	250	+	34	5405.8766		
1	18492.858	1	15856.888-	34349.740	6	1.0-	1.0	1.0-	1.0	1.10	.81	.29	1.103	0.810*	293	-194	-197	5405.9901		
	18492.191	0							5406.1851	
	18491.892	0							5406.2725	
	18488.544	1					342		5407.2515	
	18487.502	1					+		5407.5562	
1	18487.165	1	13726.661-	32213.814	12	.	.	3.0-	2.0	.	.	.	1.150	0.725	425	-106	-68	5407.6548		
1	18486.063	1	10486.922-	28972.971	14	.	.	1.0-	2.0	.	.	.	0.355	0.794	439	-185	-191	5407.9772		
2	18484.488	5	13192.903-	31677.390	1	2.5-	3.5	2.5-	2.5	.380	.675	.295	0.372	0.675	303	-122	-123	5408.4380		
1	18484.027	5	26258.661-	7774.653	19	3.0-	4.0	3.0-	4.0	.970	1.470	.500	0.965	1.463	498	+	8	5408.5729		
	18482.148	3							5409.1227	
1	18481.966	1	18046.108-	36528.070	4	.	.	4.0-	3.0	.	.	.	0.694	0.985	291			5409.1760		
	18478.987	0							5410.0480	
1	18477.494	5	11840.715-	30318.195	14	3.0-	2.0	3.0-	2.0	.78	.90	.12	0.811	0.940	129	-224	-226	5410.4852		
1	18477.069	0	37333.515-	18856.461	15	.	.	5.0-	5.0	.	.	.	1.065	1.325	260		165	5410.6096		
	18476.808	0							5410.6861	
1	18473.748	1	11840.715-	30314.443	20	.	.	3.0-	3.0	.	.	.	0.811	1.140*	329	-295	-298	5411.5823		
	18472.161	1							5412.0472	
1	18471.933	3	12177.963-	30649.882	14	1.0-	0.0	1.0-	0.0	.53	.000	.	0.525	0.000	0	-230	-235	5412.1140		
	18468.813	1							5413.0283	
1	18468.274	2	15424.387-	33892.650	11	.	.	3.0-	3.0	.	.	.	1.106	1.060	46	-214	-215	5413.1863		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	18467.736	1																			
1	18466.840	2	13517.647	-	31934.470	17	.	.	2.0-	3.0	.	.	.	0.892	1.090	198	-114	-85	5413.3440		
1	18464.447	7	27643.693	-	9179.262	16	4.0-	5.0	4.0-	5.0	1.31	1.46	.15	1.310	1.454*	144	-089	-93	5413.6067		
1	18463.691	0	16734.151	-	35197.829	13	.	.	2.0-	3.0	.	.	.	0.928	1.080	152	-094	-216	5414.3083		
	18463.211	1																			
	18462.078	0																087		5414.6707	
1	18461.365	2	16532.104	-	34993.452	17	.	.	3.0-	4.0	.	.	.	0.300	1.213	913		10	5415.0030		
	18460.638	1																		5415.2122	
1	18458.249	0H	35063.037	-	16604.786	-2	.	.	6.0-	6.0	.	.	.	1.188	0.950*	238		-71	5415.4254		
1	18457.904	2	17911.977	-	36359.870	11	.	.	5.0-	5.0	.	.	.	1.145	1.069	76	-270	-266	5416.1263		
1	18456.984	3	12322.613	-	30779.585	12	2.0-	3.0	2.0-	3.0	1.037	.863	.174	1.036	0.860	176	-187	-190	5416.2276		
2	18456.267	0	12992.644	-	31448.910	1	.	.	2.5-	2.5	.	.	.	0.643	0.800	157		-288	5416.4976		
	18454.041	2																		5416.7080	
	18453.877	2																		5417.3614	f SO2JDG
1	18451.591	1	20306.482	-	38758.100	-27	.	.	4.0-	5.0	.	.	.	1.123	1.530	407		-277	5417.4095		
2	18451.319	1	41701.060	-	23249.745	4	.	.	5.5-	4.5	.	.	.	1.085	1.475	390			5418.0807		
1	18451.319	1	16734.151	-	35185.490	-20	.	.	2.0-	1.0	.	.	.	0.928	0.905	23		-205	5418.1606	C2	
1	18451.126	7	20654.712	-	2203.606	20	1.0-	1.0	1.0-	1.0	.21	1.49	1.28	0.200	1.495	1295		-073	5418.1606	C2	
2	18450.511	4	28158.490	-	9707.930	1	5.5-	6.5	5.5-	6.5	.	.	.349	1.140	1.485*	345		107	5418.2172		
1	18446.674	2	34723.000	-	16276.332	6	2.0-	2.0	2.0-	2.0	1.28	1.88	.60	1.280	1.880*	600	185	185*	5418.3978		
1	18445.641	1	9326.801	-	27832.430	12	.	.	5.0-	4.0	.	.	.	0.801	0.920	119		-88	5419.5249		
2	18443.859	1	35607.320	-	17163.470	9	.	.	3.5-	4.5	.	.	.	1.150	1.200	50			5419.8284		
2	18442.856	0	35128.565	-	16745.720	11	.	.	3.5-	2.5	.	.	.	1.154	1.671	517		315*	5420.3521		
1	18442.270	1	14737.788	-	33180.043	15	.	.	3.0-	2.0	.	.	.	0.815	1.790*	975		-214	5420.6469		
2	18441.028	2	39732.360	-	21291.350	18	.	.	3.5-	4.5	.	.	.	1.275	1.590	315	241	226	5420.8191		
1	18439.835	6	6313.866	-	24753.684	17	4.0-	4.0	4.0-	4.0	.47	.96	.49	0.487	0.975	488	-167	-172	5421.1842		
	18439.170	0																		5421.5349	
	18438.018	0																		5421.7305	
	18435.957	2	16394.260	-	34741.198	19	.	.	4.0-	5.0	.	.	.	1.285	1.070	215		-202	5422.0692		
1	18436.557	3	14853.317	-	33289.869	15	.	.	4.0-	5.0	.	.	.	0.786	1.095	309		-59	5422.3812		
	18435.103	0																		5422.4960	
	18435.698	0																		5422.6324	
2	18434.649	7	21670.405	-	3235.770	14	1.5-	0.5	1.5-	0.5	2.32	.29	2.03	2.328	0.299	2029	145	154	5422.7516		
	18434.149	1																		5423.0601	
	18433.722	1																		5423.2072	
	18430.602	3																		5423.3329	
2	18424.782	2H	14561.607	-	32926.390	-1	1.5-	2.5	1.5-	2.5	1.17	1.06	.11	1.149	1.040*	109		-322	5424.2509		
1	18418.330	7	9386.801	-	27805.163	18	5.0-	5.0	5.0-	5.0	.800	1.035	.235	0.801	1.024	223	-435	-436	5425.9644	HAZY	
	18416.946	3																		5427.8504	
1	18416.744	1	35740.015	-	17323.291	20	.	.	4.0-	4.0	1.435	.	.07	1.105	1.250*	145	183	205	5428.2730	SI 2JDG	
	18415.101	0																		5428.3326	
	18414.224	0																		5428.8169	
	18413.071	0																		5429.0754	
2	18409.326	0	41659.050	-	23249.745	21	.	.	4.5-	4.5	.	.	.	1.120	1.475	355			5429.4154		
1	18409.060	1	14912.011	-	33321.067	4	.	.	4.0-	5.0	.	.	.	0.496	1.200*	704		-18	5430.5199		
1	18407.586	2	32749.507	-	14341.947	26	2.0-	2.0	2.0-	2.0	1.16	.87	.29	1.166	0.852	314	200	199	5430.5984		
1	18405.507	4	22705.158	-	4299.659	8	1.0-	2.0	1.0-	2.0	-0.036	1.47	1.51	-0.020	1.482*	1502		-6	5431.0333		
	18405.324	4																		5431.6467	
	18403.363	0																		5431.7007	FDJ02JDG
	18402.910	0																		5432.2795	
2	18402.484	0	22372.325	-	3969.846	5	.	.	2.5-	2.5	.	.	.	1.330	1.670*	340		261*	5432.4132		
2	18402.048	0	30102.315	-	48504.345	18	.	.	2.5-	2.5	.	.	.	1.158	0.790*	368			5432.5390		
1	18399.147	1	27578.418	-	9179.262	-9	.	.	5.0-	5.0	.	.	.	1.120	1.454*	334	119	119	5432.6677		
1	18393.927	2	9724.351	-	28118.262	16	.	.	3.0-	3.0	.	.	.	0.442	1.250*	808		-25	5433.5243		
	18393.264	2																		5435.0663	
																				5435.2622	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	18391.937	4	19236.116-37628.055		-2	7.0-	7.0	7.0-	7.0	1.155	1.125	.030	1.155	1.140*	15	-181	-184	5435.6544	
1	18390.196	2	18046.103-36436.294		10	.	.	4.0-	3.0	.	.	.	0.694	1.095	401	+	31	5436.1690	
	18388.448	2C				.	.	.	.	.	.	.	.	.	.	.	.	5436.6857	
1	18387.501	0H	19865.603-38253.110		-6	.	.	4.0-	4.0	.	.	.	1.100	0.920*	180		-212	5436.9657	
1	18386.653	3	32728.535-14341.947		15	.	.	3.0-	2.0	.	.	.	0.947	0.852	95	159	160	5437.2165	
1	18384.731	5	12159.465-30544.187		9	4.0-	3.0	4.0-	3.0	.84	.97	.13	0.844	0.946	102	-156	-155	5437.7849	
2	18380.270	1	20063.650-38443.925		-5	.	.	4.5-	4.5	.	.	.	1.049	1.020	29	+	33	5439.1047	
	18379.400	1C				.	.	.	.	.	.	.	.	.	.	.	-237	5439.3622	2LNS
1	18379.400	1C	14025.007-32404.416		-9	.	.	4.0-	5.0	.	.	.	0.975	1.055	80		-161	5439.3622	2LNS
1	18377.867	5	14912.011-33239.869		9	4.0-	5.0	4.0-	5.0	.475	1.075	.600	0.496	1.095	599	+	38	5439.8159	
	18377.526	0				.	.	.	.	.	.	.	.	.	.	.	.	5439.9169	
	18377.256	0				.	.	.	.	.	.	.	.	.	.	.	.	5439.9938	
1	18377.040	0	13726.661-32103.687		14	.	.	3.0-	4.0	.	.	.	1.150	1.040	110		-196	5440.0607	
1	18375.464	3	11840.715-30216.163		16	3.0-	2.0	3.0-	2.0	.805	1.137	.332	0.811	1.143	332	-230	-219	5440.5273	
1	18374.899	1	26149.538-7774.653		14	.	.	4.0-	4.0	.	.	.	1.360	1.463*	103		-51	5440.6946	
1	18373.767	1B	14737.788-33111.557		-2	.	.	3.0-	2.0	.	.	.	0.815	1.315	500		-190	5441.0298	
2	18373.706	1B	40873.960-22500.225		-29	.	.	5.5-	5.5	.	.	.	1.080	1.555	475			5441.0479	
1	18372.855	0	16304.260-34677.111		4	.	.	4.0-	4.0	.	.	.	1.285	1.080	205		-244	5441.2999	
1	18372.245	0	22671.890-4299.659		14	.	.	1.0-	2.0	.	.	.	0.599	1.482	883		102	5441.4805	
1	18372.020	1	18046.108-36418.125		3	.	.	4.0-	4.0	.	.	.	0.694	1.075	381		26	5441.5472	
2	18370.103	0	20073.840-33443.925		18	.	.	5.5-	4.5	.	.	.	0.790	1.020*	230		276	5442.1150	
1	18369.713	0	11840.715-30210.416		12	.	.	3.0-	4.0	.	.	.	0.811	1.160*	349		-251	5442.2306	
	18367.141	3				.	.	.	.	1.01	1.01	.	.	.	.	.	.	5442.9927	2LNS
1	18367.141	3	22666.777-4299.659		23	3.0-	2.0	3.0-	2.0	.977	1.482	.505	0.977	1.482	505	135	140	5442.9927	2LNS
	18365.640	0				.	.	.	.	.	.	.	.	.	.	.	.	5443.4375	
	18364.971	0				.	.	.	.	.	.	.	.	.	.	.	.	5443.6358	
1	18364.153	3	16155.109-34519.250		12	5.0-	5.0	5.0-	5.0	.948	1.17	.22	0.948	1.170*	222	-167	-165	5443.8783	
	18363.256	1				.	.	.	.	.	.	.	.	.	.	.	.	5444.1442	
2	18362.470	2	35525.910-17163.470		30	.	.	4.5-	4.5	1.175	1.195	.020	1.176	1.200	24	362	346*	5444.3773	
	18360.099	0				.	.	.	.	.	.	.	.	.	.	.	.	5445.0804	
1	18359.602	2	14853.317-33212.897		22	.	.	4.0-	4.0	.	.	.	0.786	1.110*	324	-092	-94	5445.2278	
	18359.046	0				.	.	.	.	.	.	.	.	.	.	.	.	5445.3927	
1	18356.632	7	28595.028-10239.473		17	6.0-	6.0	6.0-	6.0	1.19	1.42	.23	1.200	1.431*	231	-096	-99	5446.1088	
1	18355.518	0	19059.958-37415.495		-19	.	.	5.0-	5.0	.	.	.	1.375	0.980	395		-262	5446.4393	
1	18354.835	1	15249.635-33604.497		23	.	.	2.0-	3.0	.	.	.	0.715	1.210	495	-181	-185	5446.6271	
1	18352.937	6	14292.176-32645.106		7	5.0-	5.0	5.0-	5.0	.	.	.165	0.970	1.135	165	-222	-250	5447.2053	
2	18351.843	3	15098.815-33450.655		3	1.5-	2.5	1.5-	2.5	1.085	.944	.141	1.079	0.941	138	-366	-366	5447.5300	
2	18347.823	5	29074.145-10726.322		0	5.5-	4.5	5.5-	4.5	.94	1.39	.45	0.940	1.391*	451	-034	-37	5448.7235	
1	18347.501	0	34093.140-15745.648		9	.	.	3.0-	3.0	.	.	.	1.053	1.145	92		181	5448.8192	
	18347.258	1				.	.	.	.	.	.	.	.	.	.	.	.	5448.8913	
	18346.739	1H				.	.	.	.	.	.	.	.	.	.	.	.	5449.0455	HAZY
1	18345.352	2	16155.109-34500.445		26	.	.	5.0-	6.0	.	.	.	0.948	1.030	82		-240	5449.4545	
1	18345.090	5	6313.866-24653.931		25	4.0-	4.0	4.0-	4.0	.49	1.08	.59	0.487	1.080	593	-071	-61	5449.5353	
2	18343.303	3	37104.860-18761.530		23	4.5-	5.5	4.5-	5.5	1.205	1.295	.090	1.171	1.296	125	368	377	5450.0662	
1	18341.105	3	14692.549-33033.638		16	2.0-	3.0	2.0-	3.0	.28	.89	.61	0.292	0.910	618	-264	-270	5450.7193	
	18340.433	0				.	.	.	.	.	.	.	.	.	.	.	.	5450.9191	
1	18339.819	0	13726.661-32066.452		28	.	.	3.0-	2.0	.	.	.	1.150	0.910*	240		-259	5451.1015	
	18339.428	0				.	.	.	.	.	.	.	.	.	.	.	.	5451.2178	
2	18336.317	1	38163.310-19827.020		27	.	.	1.5-	1.5	.	.	.	1.220	1.733	513			5452.1426	
2	18335.269	5	25614.115-7278.862		16	3.5-	4.5	3.5-	4.5	1.48	1.54	.06	1.480	1.545*	65	137	141	5452.4543	
1	18332.207	3	34935.994-16604.786		-1	6.0-	6.0	6.0-	6.0	1.23	.94	.292	1.230	0.950*	280	-049	-40	5453.3650	
1	18329.447	2	34075.080-15745.648		15	.	.	3.0-	3.0	.	.	.	0.975	1.145	170	129	155	5454.1862	
	18327.041	0				.	.	.	.	.	.	.	.	.	.	.	.	5454.9022	
	13326.547	3				.	.	.	.	.	.	1.53	.	.	.	.	-299	5455.0493	DJO 2JDG
1	18324.375	0	16155.109-34479.473		11	.	.	5.0-	4.0	.	.	.	0.948	0.944	4	-209	-203	5455.6958	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
1	18323.772	1	18046.108-36369.870			10	.	.	4.0-	5.0	.	.	.	0.694	1.069	375	-	-34	5455.8754	
	18323.472	0					.	.			.	.	.						5455.9647	
	18322.846	0					.	.			.	.	.						5456.1511	
2	18320.289	1	39611.620-21291.350			19	.	.	3.5-	4.5	.	.	.	1.190	1.590*	400	325	325*	5456.9127	
1	18319.959	2	11840.715-30160.664			10	.	.	3.0-	4.0	.	.	.	0.811	1.030	219	-183	-181	5457.0110	
2	18316.522	1	35479.995-17163.470			-3	.	.	3.5-	4.5	.	.	.	1.335	1.200	135	436		5458.0349	
2	18315.479	2	32041.795-13726.318			2	1.5-	2.5	1.5-	2.5	.98	.79	.19	0.981	0.784	197	178	172	5458.3458	
1	18312.129	6	24455.635-6144.515			9	3.0-	3.0	3.0-	3.0	1.000	1.475	.475	1.000	1.473*	473		-4	5459.3443	
	18311.696	0					.	.			.	.	.						5459.4734	
1	18310.335	0	21603.247-39913.605			-23	.	.	2.0-	3.0	.	.	.	0.060	1.075*	1015			5459.8792	
	18310.094	0					.	.			.	.	.						5459.9511	
	18308.941	0					.	.			.	.	.						5460.2949	
	18308.270	0					.	.			.	.	.						5460.4950	
	18305.993	2					.	.			.	.	.					-097	5461.1743	
2	18305.217	0	39847.645-21542.435			7	.	.	1.5-	2.5	.	.	.	0.940	1.279	339			5461.4058	
2	18304.226	2	19277.180-37581.395			11	3.5-	3.5	3.5-	3.5	.84	.74	.10	0.847	0.748	99		-22	5461.7015	
1	18301.960	2	12159.465-30461.399			26	.	.	4.0-	5.0	.	.	.	0.844	0.990	146	-186	-196	5462.3777	
2	18301.761	2	20689.110-38990.840			31	3.5-	4.5	3.5-	4.5	1.275	1.110	.165	1.270	1.105*	165		-216	5462.4371	
1	18300.900	1	14912.011-33212.897			14	.	.	4.0-	4.0	.	.	.	0.496	1.110*	614		3	5462.6941	
2	18299.822	1	27542.165-9242.356			13	2.5-	3.5	2.5-	3.5	.	.	.430	0.934	1.369	435		146*	5463.0159	
1	18297.661	0	37154.100-18856.461			22	.	.	5.0-	5.0	.	.	.	1.120	1.325	205		183	5463.6611	
2	18297.203	0	35460.660-17163.470			13	.	.	3.5-	4.5	.	.	.	1.145	1.200	55		473	5463.7978	
2	18296.280	0C	33784.830-15488.530			-20	.	.	4.5-	3.5	.	.	.	1.070	1.057	13			5464.0735	
1	18295.864	0	14737.788-33033.638			14	.	.	3.0-	3.0	.	.	.	0.815	0.910	95		-269	5464.1977	
1	18295.669	0	23763.470-42059.140			-1	.	.	4.0-	4.0	.	.	.	0.970	1.060*	90			5464.2560	
1	18293.254	3	11840.715-30133.953			16	.	.	3.0-	3.0	.	.	.	0.811	1.200*	389	-272	-269	5464.9773	
	18289.665	1					2.0-	1.0			1.18	2.21	1.03					-107	5466.0497	
	18288.875	2					.	.			.	.	.					-192	5466.2859	DJO
1	18287.691	1C	17081.874-35369.610			-45	4.0-	5.0	4.0-	5.0	1.21	1.11	.10	1.217	1.120*	97		-181	5466.6398	HAZY
1	18287.155	0	19236.116-37523.250			21	.	.	7.0-	6.0	.	.	.	1.155	1.055	100		-193	5466.8000	
1	18285.045	3	14292.176-32577.204			17	.	.	5.0-	4.0	.95	.95		0.970	0.980*	10	-276	-278	5467.4308	
1	18283.926	0H	16520.962-34304.860			28	.	.	5.0-	4.0	.	.	.	0.736	0.941	205		-83	5467.7655	HAZY
1	18280.645	3	14292.176-32572.811			10	.	.	5.0-	5.0	.	.	.	0.970	1.010*	40	-262	-256	5468.7468	
	18279.747	0H					.	.			.	.	.						5469.0155	HAZY
	18278.882	0					.	.			.	.	.						5469.2743	
2	18277.835	4	25556.740-7278.862			7	4.5-	4.5	4.5-	4.5	.980	1.545	.565	0.976	1.545	569			5469.5726	
2	18276.747	1	20291.680-2014.966			33	.	.	1.5-	1.5	.	.	.	1.377	1.881	504	166	149	5469.9132	
1	18275.148	6	28513.607-10238.473			14	5.0-	6.0	5.0-	6.0	1.170	1.445	.275	1.157	1.431	274	000	-2	5470.3918	
	18273.640	0					.	.			.	.	.						5470.8432	
1	18272.793	0	16532.104-34804.860			37	.	.	3.0-	4.0	.	.	.	0.300	0.941	641		-87	5471.0968	
	18271.808	1					.	.			.	.	.						5471.3918	
1	18269.586	1	8768.139-27037.718			7	.	.	2.0-	2.0	.	.	.	0.362	1.300*	938	-343	-337	5472.0572	
	18268.229	1					.	.			.	.	.						5472.4637	
	18263.516	0H					.	.			.	.	.						5473.8759	
	18263.198	0H					.	.			.	.	.						5473.9712	
	18261.595	1					.	.			.	.	.					-129	5474.4517	
1	18257.827	4	13726.661-31984.470			18	.	.	3.0-	3.0	.	.	.	1.150	1.090	60	-095	-98	5475.5815	
1	18256.858	2	14853.317-33110.165			10	.	.	4.0-	4.0	.	.	.	0.786	1.220*	434	-183	-182	5475.8722	
2	18256.003	6	13192.903-31448.910			-4	2.5-	2.5	2.5-	2.5	.378	.805	.427	0.372	0.800	428	-291	-292	5476.1286	
2	18255.513	0	17296.905-35552.385			33	.	.	4.5-	3.5	.	.	.	0.494	0.903	409		31	5476.2756	
1	18254.115	7	20457.704-2203.606			17	0.0-	1.0	0.0-	1.0	.000	1.49		0.000	1.495	0	-102	-103	5476.6950	PB
	18253.338	0					.	.			.	.	.						5476.9282	
2	18252.923	0	15098.815-33351.730			8	.	.	1.5-	2.5	.	.	.	1.079	0.800*	279		-346	5477.0527	
2	18250.656	3	37012.210-18761.580			26	4.5-	5.5	4.5-	5.5	1.16	1.27	.11	1.164	1.296	132	378	368	5477.7330	
1	18246.551	3	9724.351-27970.881			21	3.0-	2.0	3.0-	2.0	.	.	.	0.442	0.194	248	-210	-212	5478.9654	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	18246.113	1	18591.122-36837.190	45*	.	.	.	.	.	4.0-	5.0	.	.	.	0.965	0.965	0	.	.	5479.0969	
1	18245.778	1	18046.108-36291.840	46	.	.	.	.	.	4.0-	3.0	.	.	.	0.694	0.980	286	-	-26	5479.1975	
1	18244.837	0	31922.720-13677.903	20	.	.	.	.	.	1.0-	1.0	.	.	.	1.278	1.442	164	+	2*	5479.4801	
1	18244.220	6	28482.680-10238.473	13	6.0-	6.0	6.0-	6.0	1.18	6.0-	6.0	1.43	.	.25	1.180	1.431*	251	-020	-20	5479.6654	IS*	
1	18243.453	2	16155.109-34398.550	12	.	.	.	.	.	5.0-	4.0	.	.	.	0.948	0.870*	78	-218	-220	5479.8958	C2
1	18243.453	2	13726.661-31970.100	14	.	.	.	.	.	3.0-	4.0	.	.	.	1.150	1.100*	50	-218	-202	5479.8958	C2
1	18241.668	0H	20043.465-30285.120	13	.	.	.	.	.	5.0-	5.0	.	.	.	0.925	1.145	220	.	.	5480.4320	
2	18240.393	0	39531.705-21291.350	28	.	.	.	.	.	3.5-	4.5	.	.	.	1.060	1.590	530	279	279*	5480.8181	
1	18240.010	2	18672.411-36912.410	11	.	.	.	.	.	6.0-	7.0	.	.	.	1.190	0.000*	0	.	-193	5480.9302	
1	18239.582	2	16520.962-34760.532	12	.	.	.	.	.	5.0-	6.0	.	.	.	0.736	1.140*	404	062	42	5481.0588	
2	18239.292	0	15641.100-33880.390	2	.	.	.	.	.	3.5-	3.5	.	.	.	1.040	1.000*	40	.	-300*	5481.1460	
1	18239.032	0	21227.793-39466.835	-10	.	.	.	.	.	4.0-	5.0	.	.	.	1.346	1.065	281	.	-114	5481.2241	
1	18237.656	4	12159.465-30397.106	15	4.0-	5.0	4.0-	5.0	.	4.0-	5.0	.	.	.	0.844	1.005	161	-096	-111	5481.6377		
1	18236.252	8	27415.500- 9179.262	14	5.0-	5.0	5.0-	5.0	1.36	5.0-	5.0	1.45	.09	.	1.370	1.454*	84	-113	-112	5482.0597		
1	18235.620	5	12159.465-30395.062	23	.	.	.	.	.	4.0-	4.0	.84	.92	.085	0.844	0.920	76	-190	-188	5482.2497	
1	18234.365	6	26009.000- 7774.653	18	3.0-	4.0	3.0-	4.0	.85	3.0-	4.0	1.44	.59	.	0.870	1.463*	593	-040	-49	5482.6270	IS*	
1	18230.190	1C	18591.122-36821.290	22	.	.	.	.	.	4.0-	5.0	.	.	.	0.965	1.162	197	-255	-273	5483.8826	
1	18228.980	5	28467.436-10238.473	17	5.0-	6.0	5.0-	6.0	1.210	5.0-	6.0	1.435	.225	.	1.210	1.431*	221	-065	-73	5484.2466		
	18226.518	0			5484.9874	
	18225.801	0			5485.2032	
	18223.535	0			5485.8853	
2	18223.153	0	40142.525-21919.400	28	.	.	.	.	.	6.5-	7.5	.	.	.	1.165	1.345	180	.	.	5486.0003	
2	18222.818	1	35326.270-17163.470	18	.	.	.	.	.	4.5-	4.5	.	.	.	1.100	1.200	100	.	375	5486.1011	
1	18222.121	7	20425.711- 2203.606	16	1.0-	1.0	1.0-	1.0	1.325	1.0-	1.0	1.50	.18	.	1.340	1.495	155	-068	-71	5486.3110	PB	
1	18221.595	2	12322.613-30544.187	21	.	.	.	.	.	2.0-	3.0	.	.	.	1.036	0.946	90	-162	-158	5486.4694	
	18221.199	1			5486.5886	
1	18220.903	1	34497.235-16276.332	0	.	.	.	.	.	3.0-	2.0	.	.	.	1.070	1.880*	810	.	132	5486.6777	
1	18219.038	1	34495.354-16276.332	16	.	.	.	.	.	2.0-	2.0	.	.	.	1.180	1.880*	700	148	148	5487.2394	
1	18217.816	1	14025.007-32242.810	13	.	.	.	.	.	4.0-	5.0	.	.	.	0.975	1.215	240	-320	-312	5487.6075	
1	18213.285	1	12159.465-30373.329	21	.	.	.	.	.	4.0-	4.0	.	.	.	0.844	1.345	501	-309	-309	5488.7918	
1	18213.469	2	17554.704-35768.160	13	8.0-	8.0	8.0-	8.0	1.17	8.0-	8.0	1.12	.05	.	1.170	1.120*	50	-188	-188	5488.9172	DJO	
1	18212.654	1	35785.250-17572.608	12	.	.	.	.	.55	1.0-	2.0	.55	.55	.	0.530	0.555*	25	.	16*	5489.1628	
1	18212.398	0	12159.465-30371.819	44	.	.	.	.	.	4.0-	3.0	.	.	.	0.844	0.640	204	.	-286	5489.2400	
1	18210.812	7	9386.801-27597.590	23	5.0-	4.0	5.0-	4.0	.80	5.0-	4.0	.92	.12	.	0.801	0.930	129	-103	-103	5489.7181		
1	18209.628	0	20043.465-38253.110	-17	.	.	.	.	.	5.0-	4.0	.	.	.	0.925	0.920*	5	.	17	5490.0750	
	18209.094	0			5490.2360	
1	18208.713	0	18046.108-36254.860	-39	.	.	.	.	.	4.0-	5.0	.	.	.	0.694	1.030	336	.	46	5490.3509	
1	18206.471	0H	21307.390-39513.870	-9*	.	.	.	.	.	1.0-	1.0	.	.	.	2.360	0.965*	1395	.	-11	5491.0270	
	18204.273	0			5491.6900	
1	18203.051	0	24347.551- 6144.515	15	.	.	.	.	.	3.0-	3.0	.	.	.	1.300	1.473*	173	-	-35	5492.0587	
1	18198.574	0	15074.958-33273.528	4	.	.	.	.	.	7.0-	7.0	.	.	.	1.097	1.070*	27	.	-231	5493.4098	
1	18198.171	1	14912.011-33110.165	17	.	.	.	.	.	4.0-	4.0	.	.	.	0.496	1.220*	724	-	-85	5493.5314	
1	18196.620	2	31724.867-13528.246	-1	.	.	.	.	.	2.0-	1.0	.	.	.	1.016	-0.590*	1606	133	141	5493.9997	
1	18195.425	1	33941.055-15745.648	18	.	.	.	.	.	3.0-	3.0	1.115	1.145	.030	1.118	1.145	27	179	186	5494.3605	DJO
	18194.394	1			078	.	.	5494.6718	
1	18192.603	0	35969.064-17776.483	22	.	.	.	.	.	2.0-	2.0	.	.	.	0.765	0.565	200	.	-198*	5495.2128	
2	18190.688	1	31916.975-13726.318	31	1.5-	2.5	1.5-	2.5	1.36	1.5-	2.5	.78	.58	.	1.363	0.784	579	328	328*	5495.7913		
1	18190.319	0	14292.176-32482.465	30	.	.	.	.	.	5.0-	4.0	.	.	.	0.970	1.330*	360	.	-343	5495.9028	
2	18188.361	0	15178.115-33366.475	1	.	.	.	.	.	0.5-	1.5	.	.	.	-0.085	0.129	214	-238	-238	5496.4944	
1	18186.826	3	14292.176-32478.986	16	.	.	.	.	.	5.0-	6.0	.	.	.	0.970	1.110	140	.	-296	5496.9583	
	18185.870	3			4.0-	4.0	.	.	1.115	4.0-	4.0	1.265	.15	5497.2473	J3535Q
2	18185.769	1	30193.265-12007.503	7	.	.	.	.	.	1.5-	1.5	.	.	.	1.364	-0.019	1383	.	322	5497.2778	
	18184.500	2			-299	.	.	5497.6615	
1	18181.736	9	20385.328- 2203.606	14	2.0-	1.0	2.0-	1.0	1.91	2.0-	1.0	1.49	.42	.	1.911	1.495	416	-067	-68	5498.4972	IS*	
1	18180.324	1	14853.317-33033.638	3	.	.	.	.	.	4.0-	3.0	.	.	.	0.786	0.910	124	.	-195	5498.9243	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	18179.359	OH																	
1	18177.106	5	14912.011-33089.092	25		4.0-	5.0	4.0-	5.0	.490	1.065	.575	0.496	1.069	573	-117	-117	5499.2071	HAZY
1	18177.106	5	32519.048-14341.947	5		.	.	2.0-	2.0	.89	.87		0.830	0.852	28	128	124	5499.8978	2 LNS
1	18175.668	0	11840.715-30016.377	6		.	.	3.0-	2.0				0.811	1.140	329		-325	5500.3329	2 LNS
1	18175.212	0	16304.260-34479.473	-1		.	.	4.0-	4.0				1.285	0.944	341		-207	5500.4709	
	18172.927	2				3.5-	2.5			.756	1.070	.315						5501.1626	.44.75Q
	18171.652	0																5501.5486	
1	18171.248	0	17081.874-35253.102	20		.	.	4.0-	5.0				1.217	1.110*	107		-275	5501.6709	
2	18170.432	1	36931.980-18761.580	32		.	.	5.5-	5.5				1.214	1.296	82		505	5501.9179	
1	18170.202	1H	21263.339-39433.510	31		.	.	5.0-	4.0				0.610	0.925*	315		6	5501.9876	
	18168.059	0																5502.6366	
2	18167.836	1	288394.140-10726.322	18		.	.	3.5-	4.5				1.009	1.391	382	+	32	5502.7041	
	18166.942	2														054		5502.9749	
1	18164.835	0	14763.705-32928.540	0		.	.	1.0-	2.0				-0.066	1.060*1126			-214	5503.6132	
	18164.270	1														160		5503.7844	
	18162.122	3														-159		5504.4353	
2	18161.930	1	19277.180-37439.105	5		.	.	3.5-	3.5				0.847	0.926	79		-157*	5504.4935	
1	18161.173	1	19496.402-37657.560	15		.	.	3.0-	3.0				1.555	1.132	423			5504.7230	
	18160.688	0																5504.8700	
1	18158.356	1	16155.109-34313.475	-10		.	.	5.0-	6.0				0.948	1.030*	82		-152	5505.5770	
	18158.094	0																5505.6564	
1	18157.166	0	25044.687-43201.845	8		.	.	4.0-	5.0				1.210	1.090*	120			5505.9378	C2
1	18157.166	0	15406.760-33563.924	2		.	.	1.0-	1.0				0.890	0.430*	460	-213	-214	5505.9378	C2
1	18156.087	5	9386.801-27542.874	14		5.0-	5.0	5.0-	5.0	.80	1.27	.47	0.801	1.270*	469	-277	-276	5506.2650	
	18154.199	2				1.5-	1.5											5506.8377	JQ
	18153.588	1																5507.0230	
2	18152.597	5	18152.580- 0.000	17		0.5-	0.5	0.5-	0.5	-0.51	3.14	3.65	-0.510	3.150*3660		142	145	5507.3237	
1	18150.016	1	16520.962-34670.995	-17		.	.	5.0-	5.0				0.736	1.010*	274		0	5508.1068	
1	18149.692	1	15856.888-34006.573	7		.	.	1.0-	0.0				1.103	0.000	0		-286	5508.2052	
1	18148.663	5	14292.176-32440.827	12		5.0-	6.0	5.0-	6.0	.97	1.12	.15	0.970	1.120*	150	-236	-238	5508.5175	
1	18146.574	0	15424.387-33570.935	26		.	.	3.0-	4.0				1.106	1.130*	24	-171	-165	5509.1516	
2	18145.310	0C	36663.170-18517.872	12		.	.	1.5-	0.5				1.635	2.755	1120			5509.5354	
2	18143.793	1C	20689.110-38832.875	28		.	.	3.5-	4.5				1.270	0.995*	275	-220	-217	5509.9960	VHAZY
1	18141.427	9	25916.069- 7774.653	11		3.0-	4.0	3.0-	4.0	1.35	1.46	.11	1.350	1.463*	113	-107	-107	5510.7146	
2	18140.770	2	33629.300-15488.530	0		.	.	2.5-	3.5				1.242	1.057	185	+	226	5510.9142	
1	18136.491	2	12322.613-30459.091	13		.	.	2.0-	2.0				1.036	1.255	219	-312	-304	5512.2145	
1	18135.761	0	15406.760-33542.506	15		.	.	1.0-	2.0				0.890	1.123	233		-171	5512.4363	
1	18135.336	3	11840.715-29976.039	12		.	.	3.0-	4.0				0.811	1.070	259	-169	-169	5512.5655	
	18133.004	0																5513.2745	
2	18130.693	0	15235.771-33366.475	-11		.	.	0.5-	1.5				1.791	0.129	1662	+	18	5513.9772	
	18129.745	0																5514.2655	
2	18129.334	0	39187.220-21057.925	39		.	.	2.5-	2.5				1.170	1.590*	420			5514.3906	
1	18128.955	0	31657.182-13528.246	19		.	.	2.0-	1.0				0.000-0.590*	0		232		5514.5058	
2	18124.764	2	32558.100-14433.351	15		0.5-	1.5	0.5-	1.5	1.31	1.90	.59	1.370	1.925*	555	355	344	5515.7810	
1	18124.017	1	18046.108-36170.110	15*		.	.	4.0-	4.0				0.694	0.942*	248	+	21	5516.0083	
	18122.520	0																5516.4640	
1	18122.034	6	27301.288- 9179.262	8		4.0-	5.0	4.0-	5.0	1.00	1.47	.47	0.985	1.454	469	-015	-6	5516.6119	IS*
1	18117.346	6	22416.990- 4299.659	15		2.0-	2.0	2.0-	2.0	1.685	1.490	.195	1.675	1.482	193	-051	-59	5518.0394	
2	18115.759	4	25614.115- 7498.364	8		3.5-	2.5	3.5-	2.5	1.46	1.30	.16	1.480	1.321*	159	158	157	5518.5228	
1	18115.436	0	27887.955- 9772.532	13		1.0-	0.0	1.0-	0.0	.86	.000		0.870	0.000*	0	+	19	5518.6212	
2	18113.298	1	38435.630-20322.349	17		.	.	5.5-	6.5				1.150	1.314*	164	361	362*	5519.2726	
1	18112.895	0	20540.110-33652.990	15		.	.	3.0-	4.0				0.830	1.090*	260			5519.3954	
1	18110.668	4	14692.549-32803.199	18		2.0-	3.0	2.0-	3.0	.290	.825	.535	0.292	0.825	533	-161	-167	5520.0741	
1	18109.884	3	12351.522-30461.399	7		.	.	6.0-	5.0	.98	.98		0.995	0.990	5	-200	-202	5520.3131	
1	18108.093	1	9724.351-27832.430	14		3.0-	4.0	3.0-	4.0				0.442	0.920	478	-083	-84	5520.8591	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	18107.208	2	11747.245-29854.442	11		0.0-	1.0	0.0-	1.0	.000	1.18		0.000	1.180*	0	-255	-253	5521.1289		
1	18106.858	1	10186.922-28593.749	31		.	.	1.0-	1.0	.	.		0.355	1.713	1358		-361	5521.2356		
2	18106.185	1	20121.145- 2014.966	6		.	.	2.5-	1.5	.	.	1.18	0.710	1.881*	1171	137	154	5521.4409		
2	18102.356	OH	35265.810-17163.470	16		.	.	3.5-	4.5	.	.		0.980	1.200*	220		385*	5522.6088		
2	18101.903	OH	11504.095-29606.060	-62		.	.	3.5-	4.5	.	.		0.859	0.790	69		-794	5522.7470	HAZY	
2	18098.919	3	34844.620-16745.720	19		1.5-	2.5	1.5-	2.5	1.53	1.67	.14	1.528	1.671	143	250	255	5523.6575		
1	18096.661	2	16155.109-34251.764	6		.	.	5.0-	4.0	.	.		0.948	1.005	57	-228	-231	5524.3467		
2	18094.784	3	30102.315-12007.503	-28		.	.	2.5-	1.5	.	.		1.158	0.019	1177		359	5524.9198		
2	18093.366	1	19863.335-37956.685	16		.	.	2.5-	1.5	.	.		0.921	0.904	17	-	-30	5525.3528		
	18092.853	0				.	.	.	.	.	.		.	.	.	.	.	5525.5095	
1	18085.599	4	16888.909-34974.486	22		6.0-	7.0	6.0-	7.0	1.100	1.135	.035	1.098	1.135	37	-146	-151	5527.7257	SI	
	18085.064	OH				.	.	.	.	.	.		.	.	.	.	.	5527.8892	
2	18084.077	2	36845.610-18761.580	47		.	.	4.5-	5.5	.	.		1.180	1.296	116	520	520*	5528.1910		
	18082.653	0				.	.	.	.	.	.		.	.	.	.	.	5528.6263	
1	18082.028	0	16595.109-34677.111	26		.	.	3.0-	4.0	.	.		0.999	1.080	81		-201	5528.8174		
2	18079.624	4	25353.470- 7278.862	16		4.5-	4.5	4.5-	4.5	1.45	1.57	.12	1.443	1.545	102	155	156	5529.5526		
2	18075.585	4	25573.915- 7498.364	34		1.5-	2.5	1.5-	2.5	1.62	1.32	.30	1.627	1.321	306	-	-44	5530.7882		
1	18074.832	1	19265.603-37940.455	-20		.	.	4.0-	3.0	.	.		1.100	1.170*	70		-237	5531.0186		
1	18074.605	1	10486.922-28561.548	-21		.	.	1.0-	2.0	.	.		0.355	0.784	429	-157	-156	5531.0880		
1	18072.097	6	14737.788-32809.844	41		3.0-	4.0	3.0-	4.0	0.815	0.900	.085	0.815	0.900	85	-219	-219	5531.8556		
	18071.839	1				.	.	.	.	.	.		.	.	.	.	.	5531.9346	
	18068.516	1				.	.	.	.	1.11	1.11		.	.	.	.	-242	5532.9520	
2	18064.480	2	28252.945-10188.463	-2		0.5-	0.5	0.5-	0.5	.92	2.40	1.48	0.920	2.402	1482	-	-11	5534.1882		
1	18064.058	1	15856.888-33920.944	2		.	.	1.0-	2.0	.	.		1.103	1.040*	63	-131	-146	5534.3175		
2	18063.840	1	27306.210- 9242.356	-14		2.5-	3.5	2.5-	3.5	1.06	1.36	.30	1.040	1.369*	329		118	5534.3843		
	18061.031	0				.	.	.	.	.	.		.	.	.	.	.	5535.2450	
2	18060.243	0	19466.530-37526.775	-2		.	.	4.5-	4.5	.	.		1.151	0.591	560		129	5535.4866		
	18060.119	0				.	.	.	.	.	.		.	.	.	.	.	5535.5246	
1	18056.910	0	14912.011-32968.906	15		.	.	4.0-	4.0	.	.		0.496	1.115	619	-	-30	5536.5083		
	18055.574	0				.	.	.	.	.	.		.	.	.	.	.	5536.9180	
	18055.242	0				.	.	.	.	.	.		.	.	.	.	.	5537.0198	
1	18053.399	9	25828.024- 7774.653	28		4.0-	4.0	4.0-	4.0	1.31	1.46	.15	1.310	1.463*	153	-119	-116	5537.5851		
1	18051.459	7	6313.866-24365.295	30		4.0-	3.0	4.0-	3.0	.495	1.483	.988	0.487	1.475	988	-386	-387	5538.1802		
	18048.616	2				-141		5539.0526	
	18048.113	1				.	.	.	.	.	.		.	.	.	.	.	5539.2070	
2	18047.859	1	28774.175-10726.322	6		.	.	3.5-	4.5	.	.		1.140	1.391*	251		95	5539.2849		
2	18046.950	0	35210.405-17163.470	15		.	.	4.5-	4.5	.	.		0.977	1.200	223			5539.5639		
	18045.939	1				.	.	.	.	.	.		.	.	.	.	.	5539.8743	
1	18045.594	3	12351.522-30397.106	10		.	.	6.0-	5.0	.	.		0.995	1.005	10	-117	-117	5539.9802		
1	18045.253	1	11840.715-29885.947	21		.	.	3.0-	3.0	.	.		0.811	1.330*	519		-374	5540.0849		
	18043.571	0				.	.	.	.	.	.		.	.	.	.	.	5540.6013	
	18042.249	OH				.	.	.	.	.	.		.	.	.	.	.	5541.0073	
	18037.515	2				.	.	.	.	.	.		.	.	.	.	.	5542.4616	
1	18037.218	2B	27216.458- 9179.262	22		.	.	5.0-	5.0	.	.		1.180	1.454*	274		110	5542.5528		
1	18036.809	4	19236.116-37272.921	4		7.0-	8.0	7.0-	8.0	1.155	1.170	.015	1.155	1.175	20		-180	5542.6785		
1	18035.880	1	21703.960-39739.870	-30*		.	.	5.0-	6.0	.	.		1.120	1.140	20	-250	-250	5542.9640		
1	18029.457	1	21307.390-39336.870	-23		.	.	1.0-	1.0	.	.		2.360	1.025*	1335		-2	5544.9387		
	18028.832	2				-530		5545.1309	
1	18027.260	2	34632.045-16604.786	1		.	.	6.0-	6.0	.	.		1.081	0.950*	131	-		5545.6145		
1	18026.671	1	12177.963-30204.635	-1		.	.	1.0-	1.0	.	.		0.525	0.590*	65	-205	-204	5545.7957		
1	18026.196	0	19496.402-37522.600	-2		.	.	3.0-	3.0	.	.		1.555	1.260*	295			5545.9418		
1	18025.732	2	14692.549-32718.268	13		2.0-	1.0	2.0-	1.0	.29	.60	.31	0.292	0.600*	308	-207	-207	5546.0846		
2	18024.592	1	27266.960- 9242.356	-12		.	.	3.5-	3.5	.	.		1.155	1.369	214		102	5546.4354		
	18023.177	1				.	.	.	.	.	.		.	.	.	.	.	5546.8708	
2	18022.152	5	21991.980- 3969.846	18		2.5-	2.5	2.5-	2.5	1.36	1.68	.32	1.344	1.670	326	129	132	5547.1863		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG		G2			G1	DG	IS	IS
2	18020.935	3	23738.900-		5717.976	11	2.5-	3.5	2.5-	3.5	.680	1.593	.912	0.679	1.596	917	-	-36	5547.5609		
2	18020.592	0	13192.903-		31213.510	-15	.	.	2.5-	3.5	.	.	.	0.372	1.045	673	-	-128	5547.6665		
2	18019.447	0	17532.937-		35552.385	-1	.	.	3.5-	3.5	.	.	.	1.238	0.903	335	-	-298	5548.0190		
1	18018.667	3	9724.351-		27743.009	9	3.0-	2.0	3.0-	2.0	.45	.57	.12	0.442	0.568	126	-	-29	5548.2592		
1	18017.688	2	14737.788-		32755.472	4	.	.	3.0-	4.0	.	.	.	0.815	1.005	190	-315	-315	5548.5607		
	18017.108	0					5548.7393	
1	18015.861	5	14853.317-		32869.165	13	4.0-	5.0	4.0-	5.0	.77	.89	.12	0.786	0.916	130	-177	-175	5549.1233		
1	18014.239	9	24158.741-		6144.515	13	2.0-	3.0	2.0-	3.0	1.24	1.47	.23	1.240	1.473*	233	-121	-116	5549.6230		
1	18012.814	0	14292.176-		32304.979	11	.	.	5.0-	4.0	.	.	.	0.970	0.990*	20	.	-298	5550.0620		
	18010.764	1					1.4845	5550.6938	FDJ02J06
1	18007.981	6	22307.633-		4299.659	7	3.0-	2.0	3.0-	2.0	1.435	1.480	.045	1.434	1.482	48	+	74	76	5551.5516	
1	18007.434	0	14292.176-		32299.581	29	.	.	5.0-	5.0	.	.	.	0.970	0.000*	0	.	-254	5551.7202		
	18006.977	0					5551.8611	
	18006.462	0					5552.0199	
	18006.132	0					5552.1217	
2	18005.430	3	29804.680-		11799.241	-9	6.5-	5.5	6.5-	5.5	.	.	.32	0.910	1.373*	463	087	88*	5552.3381		
2	18005.206	0	26643.435-		8638.233	4	.	.	5.5-	5.5	.	.	.	1.420	1.514*	94	.	130	5552.4072		
1	18004.740	0	21263.339-		39268.050	29	.	.	5.0-	4.0	.	.	.	0.610	1.140*	530	-	.	5552.5509		
1	18004.461	3	9724.351-		27728.796	16	.	.	3.0-	3.0	.	.	.	0.442	1.060	618	-127	-124	5552.6370		
1	18003.127	6	28241.585-		10238.473	15	5.0-	6.0	5.0-	6.0	1.190	1.440	.250	1.180	1.431	251	0	-6	5553.0484		
1	18002.131	1	15249.635-		33251.780	-14	.	.	2.0-	2.0	.	.	.	0.715	1.465	750	-212	-216	5553.3556		
1	18001.203	2	12159.465-		30160.664	4	.	.	4.0-	4.0	.	.	.	0.844	1.030	186	-182	-180	5553.6419		
	17998.902	1					5554.3519	
1	17996.476	3	27175.729-		9179.262	9	.	.	4.0-	5.0	.	.	.433	1.021	1.454	433	-	-15	5555.1007		
1	17996.176	0	27768.715-		9772.532	-7	1.0-	0.0	1.0-	0.0	.72	.000	.	0.722	0.000	0	+	2	5555.1933		
	17994.864	0					5555.5983	
	17992.106	0					5556.4499	239Q
1	17991.841	3	12322.613-		30314.443	11	2.0-	3.0	2.0-	3.0	1.03	1.14	.11	1.036	1.140*	104	-295	-300	5556.5318		
1	17986.169	2	14025.007-		32011.173	3	.	.	4.0-	3.0	.	.	.	0.975	1.140*	165	-183	-185	5558.2841		
	17985.925	1					5558.3595	
2	17985.555	0	39847.645-		21862.135	55	.	.	1.5-	2.5	.	.	.	0.940	1.320*	380	.	.	5558.4707		
2	17983.038	7	27691.000-		9707.980	18	6.5-	6.5	6.5-	6.5	1.15	1.47	.32	1.160	1.485*	325	128	135	5559.2518		
1	17979.290	2	31657.182-		13677.903	11	.	.	2.0-	1.0	.	.	.	0.000	1.442*	0	-	-13	5560.4107		
1	17973.963	9	6313.866-		24287.814	15	4.0-	3.0	4.0-	3.0	.49	.60	.11	0.487	0.585	98	-169	-170	5562.0587	PB	
1	17970.986	2	13726.661-		31697.633	14	.	.	3.0-	4.0	.	.	.	1.150	1.187	37	-127	-125	5562.9801		
2	17970.235	1	14561.607-		32531.815	27	.	.	1.5-	2.5	.	.	.	1.149	1.010*	139	-385	-381	5563.2126		
2	17968.540	2	33457.050-		15488.530	20	.	.	3.5-	3.5	.	.	.	1.002	1.057	55	228	227	5563.7374		
2	17963.720	4	12992.644-		30956.365	-1	.	.	2.5-	2.5	.640	.655	.015	0.643	0.646	3	-125	-123	5565.2302		
1	17961.482	1	19281.917-		37243.390	9	.	.	2.0-	3.0	.	.	.	1.822	1.300*	522	-198	.	5565.9237		
2	17959.792	5	28686.100-		10726.322	14	5.5-	4.5	5.5-	4.5	1.27	1.38	.11	1.290	1.391*	101	099	100	5566.4474		
1	17958.520	1	16520.962-		34479.473	9	.	.	5.0-	4.0	.	.	.	0.736	0.944	208	.	11	5566.8417		
1	17957.168	5	14912.011-		32869.165	14	4.0-	5.0	4.0-	5.0	.49	.92	.43	0.496	0.916	420	-054	-78	5567.2608		
	17956.786	1H					5567.3793	HAZY
1	17954.574	1	14763.705-		32718.268	11	.	.	1.0-	1.0	.	.	.	-0.066	0.600*	666	-	-207	5568.0652		
1	17954.223	1	32296.170-		14341.947	0*	.	.	1.0-	2.0	.	.	.	0.935	0.852	83	.	170	5568.1740		
2	17953.748	2	23671.715-		5717.976	9	.	.	3.5-	3.5	.	.	.	1.380	1.596	216	128	130	5568.3214		
2	17952.249	2	33440.770-		15488.530	9	.	.	2.5-	3.5	1.02	1.07	.05	1.016	1.057	41	343	343*	5568.7863		
1	17946.686	9	24091.173-		6144.515	28	3.0-	3.0	3.0-	3.0	1.26	1.49	.23	1.245	1.473	228	-108	-109	5570.5125		
1	17942.754	3	25717.328-		7774.653	19	5.0-	4.0	5.0-	4.0	.98	1.47	.49	0.970	1.463*	493	-	-60	5571.7333		
	17935.219	1					5573.7633	
1	17934.338	1	34710.860-		16776.530	8	.	.	2.0-	1.0	.	.	.	1.170	0.000*	0	-	.	5574.3479		
2	17934.065	1	16362.000-		34296.050	15	.	.	4.5-	4.5	.	.	.	1.050	0.768*	282	-271	-255	5574.4328		
1	17931.333	3	19872.154-		37803.470	17	.	.	9.0-	9.0	.	.	.	1.199	1.220*	21	-199	-203	5575.2821		
1	17924.881	6	9386.801-		27311.658	24	5.0-	5.0	5.0-	5.0	.78	1.02	.24	0.801	1.035	234	-080	-82	5577.2889		
1	17923.657	5	12159.465-		30083.102	20	.	.	4.0-	5.0	.	.	.	0.844	1.150*	306	-209	-211	5577.6698		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	17922.280	0	34668.015	-	16745.720	-15	.	.	2.5-	2.5	.	.	.	1.175	1.671	496		351*	5578.0983	
1	17921.968	0	18602.595	-	36524.475	-2	.	.	6.0-	6.0	.	.	.	0.910	1.050*	140		-42	5578.1955	
1	17918.719	2	14292.176	-	32210.835	10	.	.	5.0-	4.0	.	.	.	0.970	0.995	25		-99	5579.2069	
1	17918.479	5	28156.938	-	10238.473	14	.	.	6.0-	6.0	1.335	1.431	.096	1.335	1.431	96	-079	-87	5579.2816	DJO
1	17917.727	5	27096.974	-	9179.262	15	.	.	4.0-	5.0	.	.	.	1.180	1.454*	274	+	20	5579.5158	
2	17916.048	0	38238.390	-	20322.349	7	.	.	5.5-	6.5	.	.	.	1.095	1.314	219			5580.0387	
	17915.444	0																	5580.2268	
	17914.652	0																	5580.4735	
2	17913.374	0	14561.607	-	32474.965	16	.	.	1.5-	1.5	.	.	.	1.149	1.150*	1		-68*	5580.8716	
1	17912.449	5	12159.465	-	30071.850	24	4.0-	5.0	4.0-	5.0	.84	1.29	.45	0.844	1.290*	446	-303	-301	5581.1598	
1	17911.585	0	17081.874	-	34993.452	8	.	.	4.0-	4.0	.	.	.	1.217	1.213	4		-195	5581.4287	
	17909.254	0																	5582.1555	
	17907.670	0																	5582.6493	
2	17907.076	1	34193.640	-	16286.532	18	.	.	1.5-	0.5	.	.	.	0.970	0.122*	1092			5582.8345	
2	17905.469	1	34651.175	-	16745.720	14	.	.	3.5-	2.5	.	.	.	1.047	1.671	624		396	5583.3355	
2	17905.302	1	25403.645	-	7498.354	21	.	.	2.5-	2.5	.	.	.	1.029	1.321	292	+	65	5583.3876	
1	17902.166	0	14853.317	-	32755.472	11	.	.	4.0-	4.0	.	.	.	0.786	1.005	219		-241	5584.3657	
1	17898.158	2	11747.245	-	29645.433	-30	.	.	0.0-	1.0	.	.	.	0.000	0.705	0		-294	5585.6162	
1	17897.864	3	14912.011	-	32809.844	31	4.0-	4.0	4.0-	4.0	.493	.900	.405	0.496	0.900	404	-	-48	5585.7080	
1	17897.648	3	15406.760	-	33304.400	8	1.0-	0.0	1.0-	0.0	.90	.00		0.890	0.000	0	-245	-245	5585.7754	
1	17893.555	3	12322.613	-	30216.163	15	.	.	2.0-	2.0	.	.	.	1.036	1.143	107		-208	5587.0500	
2	17892.785	1	31619.095	-	13726.318	8	.	.	1.5-	2.5	.	.	.	1.613	0.784	829		246*	5587.2935	
1	17891.639	0	23281.721	-	41173.380	-20*	.	.	5.0-	4.0	.	.	.	1.235	1.150	85			5587.6514	
1	17889.324	2	25662.969	-	7774.653	8	.	.	5.0-	4.0	.	.	.	1.330	1.463*	133	135	138	5588.6869	
	17885.568	3					3.5-	2.5			1.29	1.45	.16				+		5589.5481	
1	17885.105	1H	17081.874	-	34966.946	33	.	.	4.0-	4.0	.	.	.	1.217	1.025	192		-293	5589.6928	
1	17883.445	0H	31411.690	-	13528.246	1	.	.	2.0-	1.0	.	.	.	1.289	0.590*	1879	208	208	5590.2117	
1	17882.383	9	22182.030	-	4299.659	12	2.0-	2.0	2.0-	2.0	1.28	1.48	.20	1.295	1.482	187	-127	-126	5590.5436	PB
1	17882.034	4	12322.613	-	30204.635	12	.	.	2.0-	1.0	.	.	.	1.036	0.590*	446	-206	-208	5590.6528	
1	17876.677	9	22176.323	-	4299.659	13	1.0-	2.0	1.0-	2.0	1.20	1.48	.28	1.210	1.482*	272	-	-36	5592.3281	PB
1	17875.589	6	27054.840	-	9179.252	11	4.0-	5.0	4.0-	5.0	1.23	1.46	.23	1.225	1.454	229	-070	-69	5592.6685	
1	17873.258	7	9724.351	-	27597.590	19	3.0-	4.0	3.0-	4.0	.44	.92	.48	0.442	0.930	488	-099	-99	5593.3979	
2	17871.633	0	34911.115	-	17039.487	5	.	.	1.5-	1.5	.	.	.	1.300	1.354	54			5593.9065	C2
1	17871.633	0	16288.909	-	34760.532	10	.	.	6.0-	6.0	.	.	.	1.098	1.140*	42		-175	5593.9065	C2
	17867.525	0																	5595.1926	
1	17866.727	2	21600.100	-	39466.835	-8	.	.	6.0-	5.0	.	.	.	1.390	1.065	325		-229	5595.4425	C2
1	17866.727	2	22181.368	-	40048.080	15*	.	.	3.0-	3.0	.	.	.	0.780	1.005*	225			5595.4425	C2
1	17866.457	0	16532.104	-	34398.550	11	.	.	3.0-	4.0	.	.	.	0.300	0.870*	570		-10	5595.5271	
	17865.334	0																	5595.8788	
	17864.962	0																	5595.9953	
2	17864.607	0	35028.065	-	17163.470	12	.	.	4.5-	4.5	.	.	.	1.144	1.200	56		464	5596.1065	
	17862.456	1															+		5596.7804	
	17861.769	1H																	5596.9957	HAZY
2	17858.748	3	21828.590	-	3969.846	4	2.5-	2.5	2.5-	2.5	.99	1.67	.68	0.990	1.670*	680	324	318	5597.9425	
1	17857.438	0	18346.917	-	35204.345	10	.	.	2.0-	3.0	.	.	.	1.518	1.200	318		-82	5598.3531	
	17853.567	0																	5599.5670	
1	17852.298	0	16888.909	-	34741.198	9	.	.	6.0-	5.0	.	.	.	1.098	1.070	28	-199	-213	5599.9650	
2	17851.583	1	36613.145	-	18761.580	18	.	.	4.5-	5.5	.	.	.	1.010	1.296*	286			5600.1893	
	17850.378	1															+		5600.5674	
2	17848.378	2	19863.335	-	2014.966	9	.	.	2.5-	1.5	.	.	.	0.921	1.881	960		145	5601.1949	
2	17847.818	3	29647.060	-	11799.241	-1	6.5-	5.5	6.5-	5.5	.98	1.37	.39	0.980	1.373*	393	+	43*	5601.3707	
1	17845.983	0	9724.351	-	27570.322	12	.	.	3.0-	3.0	.	.	.	0.442	1.265	823	-377	-344	5601.9467	
1	17845.010	-0	15406.760	-	33251.780	-10	.	.	1.0-	2.0	.	.	.	0.890	1.465	575		-145	5602.2521	
	17842.700	2					3.5-	2.5			1.315	1.045	.27				076		5602.9774	4535 Q
1	17838.753	0	33584.384	-	15745.648	17	.	.	3.0-	3.0	.	.	.	1.058	1.145	87		242	5604.2171	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	17838.429	0	17081.874-34920.315	-12					4.0-	3.0				1.217	0.930	287		-245	5604.3189	
	17836.711	0																-212	5604.8587	
1	17834.367	1	16595.109-34429.460	16					3.0-	2.0				0.999	0.930*	69		-195 -186	5605.5954	
	17832.830	3									.737							-174	5606.0785	F SO2LNS
	17832.831	3							3.0-	2.0								-174	5606.0782	DJ1 2LNS
2	17831.991	0	36593.540-18761.580	31					5.5-	5.5				1.145	1.296	151		221*	5606.3423	
1	17829.408	0	33575.046-15745.648	10					3.0-	3.0				1.056	1.145	89		226	5607.1545	
2	17828.785	2	36346.625-18517.872	32					0.5-	0.5				2.240	2.755*	515	344	344*	5607.3505	
	17826.370	0																	5608.1101	
	17825.857	0																	5608.2715	
	17824.564	2H										.96	2.16					-108	5608.6783	SI2LNS2J
1	17824.564	2	17081.874-34906.470	-32					4.0-	5.0				1.217	0.925	292		-175	5608.6783	2LNS
	17822.198	1										1.015							5609.4229	SI
2	17822.198	1	15778.634-33600.850	-18					1.5-	2.5				1.133	1.263	130		-106	5609.4229	2LNS
2	17820.684	0	23538.650-5717.976	10					3.5-	3.5				1.470	1.596*	126		151	5609.8995	
2	17817.211	3	27059.565-9242.356	2					4.5-	3.5	1.030	1.365	.335	1.030	1.369*	339		-48	5610.9930	
1	17816.589	2	12159.465-29976.039	15					4.0-	4.0				0.844	1.070	226		-170 -168	5611.1889	
	17815.807	0																	5611.4352	
2	17814.802	0	17532.937-35347.740	-1					3.5-	3.5				1.238	1.195	43		+ -187	5611.7518	
2	17814.026	0	37640.995-19827.020	51					2.5-	1.5				1.350	1.733*	383			5611.9962	
1	17812.336	0	19496.402-37308.707	31					3.0-	4.0				1.555	1.040	515		-231	5612.5287	
1	17811.525	2	14292.176-32103.687	14					5.0-	4.0				0.970	1.040	70		-193	5612.7842	
1	17811.357	2	12322.613-30133.953	17					2.0-	3.0				1.036	1.200*	164		-259 -271	5612.8372	
	17811.096	0																	5612.9194	
2	17810.563	0	23312.615-5502.060	8					1.5-	1.5				0.680	1.169*	489		126	5613.0874	
	17809.871	1																	5613.3055	
	17807.093	1																	5614.1796	
1	17805.331	2	16734.151-34540.469	13					2.0-	3.0	.93	.89	.04	0.928	0.888	40		-249 -250	5614.4215	
1	17804.919	0	18147.975-35952.890	4					3.0-	4.0				1.049	1.100*	51			5614.8667	
1	17803.422	1H	16595.109-34398.550	-19					3.0-	4.0				0.999	0.870*	129		-181	5615.3389	
1	17798.208	4	28036.676-10238.473	5					6.0-	6.0	1.225	1.440	.216	1.216	1.431	215		+ -4	5616.9839	
2	17795.253	4	25293.605-7498.364	12					3.5-	2.5	.95	1.30	.35	0.970	1.321*	351		+ 59	5617.9166	
2	17793.496	1	15657.156-33450.655	-3					2.5-	2.5				1.000	0.941	59		-122	5618.4714	
1	17792.522	4	16520.962-34313.475	9					5.0-	6.0			.29	0.736	1.030*	294		+ 62	5618.7789	
1	17791.804	0	14853.317-32645.106	15					4.0-	5.0				0.786	1.135	349		-196 -177	5619.0057	
2	17791.259	0	34077.830-16286.582	11					1.5-	0.5				1.650	0.122	1772		209*	5619.1778	
1	17790.708	2	27563.217-9772.532	23					1.0-	0.0	.74	.000		0.745	0.000	0		-084 -92	5619.3519	
2	17790.228	1	39081.580-21291.350	-2					4.5-	4.5				1.207	1.590	383		219	5619.5035	
	17789.753	0																	5619.6535	
1	17788.517	1	15424.387-33212.897	7					3.0-	4.0	1.100	1.095	.005	1.106	1.110*	4		-164 -162	5620.0440	
	17784.713	0																	5621.2461	
1	17783.801	0	14353.317-32637.106	12					4.0-	3.0				0.786	0.820*	34		-103	5621.5344	
1	17783.182	1	28021.637-10238.473	18					5.0-	6.0				1.400	1.431*	31		-061 -72	5621.7300	
1	17782.403	1	15074.958-32857.357	4					7.0-	6.0				1.097	1.101	4		-212 -212	5621.9763	
1	17782.086	0	16828.509-34570.995	0					6.0-	5.0				1.098	1.010*	88		-217	5622.0765	
1	17780.031	0	18147.975-35928.010	-4					3.0-	4.0				1.049	0.960	89		-188	5622.7263	
	17779.540	1																	5622.8816	
1	17778.747	1	18591.122-36369.870	-1					4.0-	5.0				0.965	1.069	104		-248 -248	5623.1324	
2	17777.052	1	32210.400-14433.351	3					2.5-	1.5				1.339	1.925	586	301	296	5623.6686	
2	17776.281	1	34522.010-16745.720	-9					2.5-	2.5				1.035	1.671	586			5623.9125	
2	17775.920	2	29783.410-12007.503	13					0.5-	1.5	2.59	-0.01	2.60	2.590	0.019*	2609	312	315*	5624.0267	
	17775.135	0																	5624.2751	
	17772.526	1																	5625.1007	
	17772.411	1																	5625.1371	
2	17770.376	5	23272.420-5502.060	16					2.5-	1.5	.94	1.17	.23	0.951	1.169	218	20	32	5625.7813	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	17768.717	1	14295.565	-	32064.280	2	.	.	3.5-	3.5	.	.	.	0.790	1.090*	300		-205	5626.3066	
1	17768.406	1	15449.472	-	33217.880	-2	.	.	0.0-	1.0	.	.	.	0.000	0.520*	0			5626.4051	
	17767.555	1					.	.			.	.	.						5626.6714	
1	17767.378	2	18602.505	-	36369.870	13	.	.	6.0-	5.0	.	.	.	0.910	1.069	159		-35	5626.7306	
1	17765.361	0	19236.116	-	37001.490	-13	.	.	7.0-	6.0	.	.	.	1.155	1.035	120		-242	5627.3694	
	17764.517	1					.	.			.	.	.						5627.6368	
1	17764.139	1	17615.482	-	35379.603	18	.	.	2.0-	3.0	.	.	.	1.450	1.165	285		-176	5627.7565	
2	17763.462	6	13192.903	-	30956.365	0	2.5-	2.5	2.5-	2.5	.38	.65	.27	0.372	0.646	274	-125	-127	5627.9710	
1	17761.769	8	12351.522	-	30113.280	11	6.0-	6.0	6.0-	6.0	.96	1.04	.080	0.995	1.050	55	-123	-122	5628.5075	
2	17759.132	3	31485.455	-	13726.318	-5	1.5-	2.5	1.5-	2.5	1.27	.76	.51	1.300	0.784	516	376	381	5629.3432	
1	17757.033	0	14912.011	-	32659.040	4	.	.	4.0-	3.0	.	.	.	0.496	1.000*	504		-16	5630.0087	
1	17755.456	9	19959.027	-	2203.606	35	1.0-	1.0	1.0-	1.0	.76	1.50	.74	0.760	1.495*	735	-126	-126	5630.5087	
2	17754.849	2	20589.110	-	38443.925	34	.	.	3.5-	4.5	.	.	.	1.270	1.020*	250		-26	5630.7012	
2	17753.842	2	37590.805	-	19827.020	57	.	.	2.5-	1.5	.	.	.	1.215	1.733	518	308	308*	5631.0206	
2	17752.261	3	23478.585	-	10726.322	-2	.	.	3.5-	4.5	.	.	.	1.175	1.391	216	+	44*	5631.5221	
1	17751.247	2	23895.741	-	6144.515	21	.	.	2.0-	3.0	.	.	.	-0.100	1.473*	1573		-60	5631.8438	
	17745.975	3					.	.			.	1.365	.13				+		5633.5169	SO 2JG6
	17744.855	1					.	.			.						+	326	5633.8725	
1	17744.639	0	14737.788	-	32482.465	12	.	.	3.0-	4.0	.	.	.	0.815	1.330*	515	-341	-344	5633.9252	
1	17743.913	0	12177.963	-	29921.899	-23	.	.	1.0-	2.0	.	.	.	0.525	1.070*	545		-275	5634.1716	
	17742.681	0					.	.			.	.	.				+		5634.5628	
1	17742.044	1H	37521.550	-	19779.507	1	.	.	3.0-	4.0	.	.	.	1.315	0.000*	0			5634.7651	
2	17739.310	5	34902.775	-	17163.470	5	.	.	3.5-	4.5	1.16	1.21	.05	1.155	1.200	45	480	477	5635.6336	
1	17736.946	1	27975.402	-	10238.473	17	.	.	7.0-	6.0	.	.	.	1.017	1.431	414		-51	5636.3847	
	17735.673	0					.	.			.	.	.						5636.7893	
	17735.026	0					.	.			.	.	.						5636.9949	
	17734.766	0					.	.			.	.	.						5637.0775	
2	17733.726	4	17733.709	-	0.000	17	0.5-	0.5	0.5-	0.5	-0.51	3.15	3.66	-0.510	3.150*	3660	181	184	5637.4081	6Q
1	17733.092	2	14912.011	-	32645.106	-3	.	.	4.0-	5.0	.	.	.	0.496	1.135	639		-80	5637.6097	
2	17732.008	4	34895.470	-	17163.470	8	.	.	3.5-	4.5	1.165	1.195	.030	1.165	1.200	35	505	503	5637.9543	
1	17731.590	5	12351.522	-	30083.102	10	6.0-	5.0	6.0-	5.0	1.00	1.16	.16	0.995	1.150*	155	-218	-217	5638.0872	
1	17725.267	3	14292.176	-	32017.434	9	.	.	5.0-	4.0	.96	1.00		0.970	1.020*	50	-245	-244	5640.0985	
2	17724.105	2	29523.355	-	11799.241	-9	.	.	5.5-	5.5	.	.	.	1.165	1.373	208	+	54	5640.4683	
1	17723.916	2	14853.317	-	32577.204	29	.	.	4.0-	4.0	.	.	.	0.786	0.980*	194	-207	-205	5640.5284	
	17722.667	1					.	.			.	.	.				152		5640.9259	
1	17720.605	4	14692.549	-	32413.146	8	2.0-	3.0	2.0-	3.0	.30	.99	.69	0.292	0.995	703	-311	-311	5641.5823	
1	17720.384	2	22307.633	-	40028.005	12	.	.	3.0-	2.0	.	.	.	1.434	0.980*	454			5641.6527	C2
1	17720.384	2	12351.522	-	30071.890	16	.	.	6.0-	5.0	.	.	.	0.995	1.290*	295		-307	5641.6527	C2
1	17719.923	0	36372.210	-	13652.287	0*	.	.	4.0-	3.0	.	.	.	1.082	0.822	260		-50	5641.7995	
1	17719.504	3	14853.317	-	32572.811	10	.	.	4.0-	5.0	.	.	.	0.786	1.010*	224	-191	-183	5641.9329	
	17719.173	1					.	.			.	.	.						5642.0383	
1	17718.838	0	34495.354	-	16776.530	14	.	.	2.0-	1.0	.	.	.	1.180	0.000*	0		149	5642.1449	
1	17714.008	1	11840.715	-	29554.716	7	.	.	3.0-	3.0	.81	.83	.02	0.811	0.831	20	-182	-186	5643.6834	
	17711.056	1					.	.			.	.	.						5644.6240	
	17710.328	1					.	.			.	.	.						5644.8561	
2	17708.935	3	23426.895	-	5717.976	16	.	.	2.5-	3.5	1.335	1.590		1.340	1.596	256	125	76	5645.3001	
2	17708.426	0	37535.410	-	19827.020	36*	.	.	2.5-	1.5	.	.	.	1.140	1.733	593			5645.4624	
1	17707.561	2H	14025.007	-	31732.582	-14	.	.	4.0-	5.0	.	.	.	0.975	1.049	74	-220	-228	5645.7382	
2	17705.760	0	30104.835	-	47810.565	30	.	.	3.5-	3.5	.	.	.	1.159	1.160	1			5646.3124	
	17705.324	1					.	.			.	.	.						5646.4515	
	17704.171	1					.	.			.	.	.						5646.8192	
1	17701.535	0	17911.977	-	35613.490	22	.	.	5.0-	5.0	.	.	.	1.145	1.090*	55		-259	5647.6601	
2	17701.093	2	33189.610	-	15488.530	13	2.5-	3.5	2.5-	3.5	1.12	1.07	.05	1.121	1.057	64	245	248	5647.8011	
2	17700.576	4	21670.405	-	3959.846	17	1.5-	2.5	1.5-	2.5	2.32	1.67	.65	2.328	1.670	658	124	128	5647.9661	
1	17698.470	2	33974.800	-	16276.332	2	2.0-	2.0	2.0-	2.0	1.11	1.88	.77	1.110	1.880*	770	160	140	5648.6382	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM	TERM	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
		17698.111	0																		5648.7528	
1		17697.800	1C	22429.984-40127.800	-16*			4.0- 4.0							1.279	1.020	259			5648.8520	HAZY	
1		17696.667	0	32038.610-14341.947	4*			3.0- 2.0							1.165	0.852	313	177		5649.2137		
		17694.000	1																	5650.0652		
1		17693.330	1	20769.512-38462.875	-33			2.0- 1.0							1.070	0.765*	305	+	57	5650.2791		
		17692.804	1																	5650.4471		
2		17690.859	4	27879.305-10188.463	17		0.5- 0.5	0.5- 0.5	.81	2.42	1.61				0.802	2.402	1600	+	41	5651.0684		
		17689.833	0																	5651.3961		
1		17686.757	0	16595.109-34281.845	21			3.0- 2.0							0.999	0.850*	149		-206	5652.3790		
1		17685.790	2	15424.387-33110.165	12		3.0- 4.0	3.0- 4.0	1.105	1.220	.115				1.106	1.220*	114	-252	-250	5652.6881		
2		17682.949	0	23272.420-40955.385	-16			2.5- 3.5							0.951	0.850	101	+	-7	5653.5963		
1		17681.375	3	8768.139-26449.501	13			2.0- 3.0							0.362	0.940*	578	-261	-271	5654.0995		
1		17681.012	2	13517.647-31198.642	17			2.0- 3.0							0.892	1.070	178		-110	5654.2156		
		17680.753	0																	5654.2985		
1		17678.918	2	15249.635-32928.540	13		2.0- 2.0	2.0- 2.0	.72	1.06	.34				0.715	1.060*	345	-220	-214	5654.8854		
1		17678.317	1	34283.083-16604.786	20			5.0- 6.0							1.110	0.950*	160	-	-44	5655.0776		
1		17676.477	1	12177.963-29854.442	-2		1.0- 1.0	1.0- 1.0	.50	1.16	.66				0.525	1.180*	655		-256	5655.6663		
1		17676.312	1	19236.116-36912.410	18			7.0- 7.0							1.155	0.000*	0		-202	5655.7191		
2		17673.749	2	26915.090- 9242.356	15		2.5- 3.5	2.5- 3.5	1.08	1.41	.33				1.040	1.369*	329	077	73	5656.5392		
1		17672.811	1	11747.245-29420.042	14		0.0- 1.0	0.0- 1.0	.000	1.096	1096				0.000	1.095	0	-294	-291	5656.8395		
2		17672.017	2	15778.634-33450.655	-4		1.5- 2.5	1.5- 2.5	1.15	.94	.20				1.133	0.941	192	-121	-121	5657.0936		
		17669.974	2															-160		5657.7477		
2		17668.662	2	23170.720- 5502.060	2			0.5- 1.5							1.082	1.169*	87	131	134	5658.1678		
		17667.762	1															-227		5658.4561		
		17666.578	0																	5658.8353		
1		17665.084	0	16834.379-34500.445	18			5.0- 6.0							0.961	1.030	69	-231	-218	5658.9935		
1		17665.194	0	14912.011-32577.204	1			4.0- 4.0							0.496	0.980*	484		-108	5659.2786		
1		17664.900	4	26844.163- 9179.262	-1		4.0- 5.0	4.0- 5.0	1.015	1.450	.435				1.020	1.454	434	+	50	5659.3728		
1		17663.740	1	18591.122-36254.860	2			4.0- 5.0							0.965	1.030	65	-166	-168	5659.7445		
1		17662.972	6	8768.139-26431.101	10		2.0- 3.0	2.0- 3.0	.36	.81	.45				0.362	0.807	445	-256	-255	5659.9906		
1		17661.191	1	14763.705-32424.890	6			1.0- 1.0							-0.066	1.770*	1836		-263	5660.5614	PB	
1		17660.808	3	14912.011-32572.811	8			4.0- 5.0							0.496	1.010*	514	-087	-86	5660.6841		
		17658.839	3						.96	.96								232		5661.3153		
1		17656.176	2	13517.647-31173.814	9		2.0- 1.0	2.0- 1.0	.89	.45	.44				0.892	0.450*	442	-171	-174	5662.1692		
		17654.589	1															-142		5662.6782		
1		17653.431	0	17081.874-34735.314	-9			4.0- 3.0							1.217	0.899	318		-255	5663.0496		
1		17652.603	6	6313.866-23966.450	19		4.0- 3.0	4.0- 3.0	.485	.760	.275				0.487	0.760	273	-153	-159	5663.3153		
1		17650.552	0	13726.661-31377.193	20			3.0- 4.0							1.150	0.973	177	-195	-199	5663.9733		
1		17649.008	2	10486.922-28135.924	6		1.0- 2.0	1.0- 2.0	.35	1.10	.75				0.355	1.101	746	-346	-347	5664.4689		
		17646.633	1															-119		5665.2312		
		17646.011	0																	5665.4309		
1		17645.299	1	33390.950-15745.648	-3*			3.0- 3.0							1.050	1.145	95	157	174	5665.6595		
		17644.002	1																	5666.0760		
2		17643.026	0	36309.025-18666.006	7			2.5- 2.5							1.095	1.365	270			5666.3895		
1		17639.323	8	8768.139-26407.449	13		2.0- 2.0	2.0- 2.0	.36	.97	.61				0.362	0.972	610	-200	-201	5667.5790		
		17635.713	1																	5668.7392		
2		17635.057	1	33123.580-15488.530	7			2.5- 3.5							1.285	1.057	228	420	420*	5668.9500		
		17634.313	2															-214		5669.1892		
		17632.896	1															+		5669.6448		
1		17630.595	6	27869.060-10238.473	8		7.0- 6.0	7.0- 6.0	1.28	1.46	.18				1.250	1.431*	181	-050	-58	5670.3848		
1		17630.078	0	20709.458-38339.550	-14*			3.0- 4.0							1.240	1.070*	170	+	36	5670.5510		
		17629.524	0																	5670.7292		
		17629.207	1																	5670.8312		
		17628.542	1																	5671.0451		
1		17623.634	0	31151.870-13528.246	10			2.0- 1.0							1.632-0.590*	222			97	5672.6245		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1		G2	G1	DG	G2	G1	DG	IS		
	17622.984	0																	5672.8337	
2	17620.547	0	37942.885-20322.349		11				6.5- 6.5					1.097	1.314	217			5673.6183	
1	17618.966	5	23763.470- 6144.515		11		4.0-	3.0	4.0- 3.0		.98	1.49	.51	0.970	1.473*	503	40	42	5674.1274	IS*
	17618.246	0																	5674.3593	
2	17617.598	3	19632.555- 2014.966		9		1.5-	1.5	1.5- 1.5		1.01	1.88	.87	1.010	1.881*	871	144	141*	5674.5680	
1	17616.599	0	15249.635-32856.230		4				2.0- 1.0					0.715	0.320*	395		-283	5674.8898	
	17615.547	0																	5675.2287	
	17614.841	0																	5675.4562	
	17613.853	2H															368		5675.7745	BQ
	17613.439	0H																	5675.9079	239BQ
1	17611.566	1	16828.909-34500.445		30				6.0- 6.0					1.098	1.030	68	-244	-243	5676.5116	
	17610.311	1															160		5676.9161	
1	17609.253	0	15424.387-33033.638		7				3.0- 3.0					1.106	0.910	196		-263	5677.2556	
1	17608.266	0	20540.110-38148.375		1				3.0- 3.0					0.830	0.690*	140		+	5677.5754	
	17607.662	0																	5677.7702	
	17607.417	0																	5677.8492	
1	17607.140	0	16520.962-34128.094		8				5.0- 4.0					0.736	0.000*	0	-	-18	5677.9385	
	17606.512	1H																	5678.1411	
	17604.270	1																	5678.8642	
	17603.936	0																	5678.9719	
1	17603.433	3	16155.109-33758.523		19		5.0-	5.0	5.0- 5.0		.94	.82	.120	0.948	0.830	118	-241	-242	5679.1342	
1	17602.961	0	36230.220-18627.281		22				2.0- 1.0					1.200	0.000*	0		230	5679.2865	
	17601.833	0																	5679.6343	
1	17599.302	3	12322.613-29921.899		16				2.0- 2.0		1.035	1.065	.030	1.036	1.070*	34	-277	-279	5680.4673	
1	17596.618	3	35494.450-17897.917		85				4.0- 3.0				.71	1.098	0.450	648	-101	-247	5681.3337	2 LNS
1	17596.618	3	16532.104-34128.739		-17				3.0- 3.0				.71	0.300	1.106	806	-101	-47	5681.3337	2LNS
1	17595.385	0B	20306.482-37901.880		-13				4.0- 4.0					1.123	1.166	43		-198	5681.7318	
1	17595.254	0B	17081.874-34677.111		17				4.0- 4.0					1.217	1.080	137		-235	5681.7741	
2	17594.418	1B	34757.860-17163.470		28				3.5- 4.5					1.202	1.200	2		351	5682.0441	239B
1	17594.339	2	31272.205-13677.903		37		2.0-	1.0	2.0- 1.0		1.18	1.45	.27	1.173	1.442	269	-070	-83	5682.0696	PB
	17593.544	0																	5682.3264	
	17591.570	0																	5682.9640	
2	17591.316	0	34630.775-17039.487		28				1.5- 1.5					1.198	1.354	156		393*	5683.0461	
1	17590.879	0	23735.353- 6144.515		41				2.0- 3.0					0.935	1.473*	538		-59	5683.1873	
1	17590.378	0	31118.615-13528.246		9				2.0- 1.0					0.865-0.590*	1455				5683.3491	
1	17588.417	1	16304.260-33892.650		27				4.0- 3.0					1.285	1.060	225	-238	-226	5683.9828	
	17586.741	0																	5684.5245	
1	17586.154	0	14763.705-32349.853		16				1.0- 2.0					-0.066	0.000*	0		-278	5684.7110	
	17585.606	2															-250		5684.8914	
	17584.669	0																	5685.1943	
1	17584.060	0	34889.189-17305.142		13				3.0- 2.0					0.990	0.000*	0		-99	5685.3912	
1	17582.432	1H	18672.411-36254.860		-17				6.0- 5.0					1.190	1.030*	160		-186	5685.9176	
1	17578.547	0	17045.776-34624.299		24				1.0- 2.0					1.474	1.150*	324		-6	5687.1743	
	17577.963	0																	5687.3632	
2	17577.226	4	26215.440- 8638.233		19		5.5-	5.5	5.5- 5.5		1.12	1.52	.40	1.121	1.514	393	330	329	5687.6017	
1	17576.173	4	23720.664- 6144.515		24		3.0-	3.0	3.0- 3.0		.79	1.47	.68	0.790	1.473*	683		-52	5687.9424	
	17573.111	1																	5688.9335	
	17572.899	1																	5689.0022	
2	17563.099	0	40068.320-22500.225		4				6.5- 5.5					1.135	1.555	420			5690.5565	
1	17567.203	1	14737.788-32304.979		12				3.0- 4.0					0.815	0.990*	175		-299	5690.8468	
2	17566.963	3	20073.840-37640.775		28		5.5-	5.5	5.5- 5.5		.80	.70	.095	0.790	0.700*	90	572	572	5690.9245	
2	17566.619	0	25064.960- 7498.364		23				1.5- 2.5					0.580	1.321	741		-75	5691.0360	
	17566.383	0																	5691.1124	2392LNSQ
	17566.135	0																	5691.1928	
1	17563.358	3	12322.613-29285.947		24		2.0-	3.0	2.0- 3.0		1.02	1.32	.30	1.036	1.330*	294	-372	-376	5692.0927	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	17560.478	2	14763.705-32324.169	14	14	1.0-	0.0	1.0-	0.0	-0.065	.000		-0.066	0.000	0	-172	-180	5693.0262	
2	17559.413	1	39101.810-21542.435	38	38	.	.	1.5-	2.5	.	.		0.980	1.279*	299		254*	5693.3715	
2	17558.059	0	31284.370-13726.318	7	7	.	.	3.5-	2.5	.	.		1.114	0.784	330		293	5693.8105	
	17556.824	5				5.0-	6.0			1.09	1.22	.132						5694.2111	SIF1.859
2	17555.995	1	39475.380-21919.400	15	15	.	.	6.5-	7.5	.	.		1.110	1.345	235		390*	5694.4799	
	17555.402	0																5694.6723	
1	17554.268	6	25328.907- 7774.653	14	14	3.0-	4.0	3.0-	4.0	1.35	1.46	.11	1.340	1.463	123	-134	-133	5695.0402	
1	17553.587	0	15249.635-32803.199	23	23	.	.	2.0-	3.0	.	.		0.715	0.825	110	-154	-167	5695.2611	
	17552.848	0																5695.5009	
	17552.041	1H																5695.7628	
1	17551.703	0	21812.682-39364.330	55	55	.	.	4.0-	5.0	.	.		1.040	1.130	90		-28	5695.8725	
1	17551.111	1	14853.317-32404.416	12	12	.	.	4.0-	5.0	.	.		0.786	1.055	269	-080	-86	5696.0646	
	17548.466	0																5696.9231	
2	17545.094	2	24823.940- 7278.862	16	16	5.5-	4.5	5.5-	4.5	1.320	1.545	.225	0.000	1.545*	0	154	158	5698.0180	
1	17542.574	5	27781.032-10238.473	15	15	6.0-	6.0	6.0-	6.0	.	.	.17	1.250	1.431*	181		-49	5698.8366	
	17541.278	2																5699.2576	
2	17538.987	2	36300.540-18761.580	27	27	.	.	4.5-	5.5	.	.		1.142	1.296	154	301	301	5700.0021	
1	17538.655	0	21263.339-38801.970	24*	24*	.	.	5.0-	4.0	.	.		0.610	1.090*	480		6	5700.1100	
	17537.467	0																5700.4961	
1	17534.027	4	31211.905-13677.903	25	25	1.0-	1.0	1.0-	1.0	1.235	1.440	.205	1.235	1.442	207	-092	-105	5701.6145	
1	17532.982	0	16595.109-34128.094	-3	-3	.	.	3.0-	4.0	.	.		0.999	0.000*	0		-193	5701.9543	
	17532.133	0																5702.2305	
	17531.742	0																5702.3576	
2	17529.638	7	31255.945-13726.318	11	11	1.5-	2.5	1.5-	2.5	.93	.78	.15	0.921	0.784	137	-205	299	5703.0421	
1	17528.327	2	14292.176-31820.494	9	9	5.0-	4.0	5.0-	4.0	.97	1.25	.28	0.970	1.240	270	-309	-308	5703.4686	
1	17528.045	0C	14853.317-32381.372	-10	-10	.	.	4.0-	5.0	.	.		0.786	1.190	404		-228	5703.5604	HAZY
1	17524.562	1	13517.647-31042.204	5	5	.	.	2.0-	3.0	.	.		0.892	1.010	118		-75	5704.6940	
2	17524.295	2	26766.650- 9242.356	1	1	2.5-	3.5	2.5-	3.5	1.03	1.35	.327	1.058	1.369	311		64	5704.7809	
1	17522.530	0	35299.015-17776.483	-2	-2	.	.	3.0-	2.0	.	.		1.035	0.565	470		-155	5705.3555	
	17522.414	1				1.0-	2.0			.	.	.74				199		5705.3933	
1	17521.252	1	14692.549-32213.814	-13	-13	.	.	2.0-	2.0	.	.		0.292	0.725	433		-67	5705.7717	
1	17521.076	2	16520.962-34042.040	-2	-2	.	.	5.0-	4.0	.	.		0.736	0.806	70	+	62	5705.8290	
1	17520.545	2	18397.534-36418.125	4	4	.	.	5.0-	4.0	.	.		1.280	1.075	205		-210	5706.0019	
1	17518.284	2	31046.528-13528.246	2	2	2.0-	1.0	2.0-	1.0	1.48	-0.59	2.07	1.480	-0.590*	2070	147	149	5706.7384	
1	17516.819	4	26696.083- 9179.262	-2	-2	5.0-	5.0	5.0-	5.0	1.315	1.455	.140	1.315	1.454	139	-092	-99	5707.2157	
	17515.672	3																5707.5894	
2	17513.073	4	26755.425- 9242.356	4	4	4.5-	3.5	4.5-	3.5	1.185	1.365	.180	1.200	1.369*	169	147	133	5708.4364	
1	17512.267	0	16595.109-34107.378	-2	-2	.	.	3.0-	3.0	.	.		0.999	1.160*	161	-194	-191	5708.6992	
	17511.554	2																5708.9316	
1	17510.832	4	14025.007-31535.835	4	4	.	.	4.0-	5.0	.	.		0.975	1.020	45	-286	-300	5709.1670	
1	17509.939	4	16532.104-34042.040	3	3	.	.	3.0-	4.0	.	.		0.300	0.806	506	+	58	5709.4582	
1	17509.442	7	11840.715-29350.139	18	18	3.0-	3.0	3.0-	3.0	.81	.91	.10	0.811	0.910	99	-191	-192	5709.6202	
	17508.827	0																5709.8208	
	17507.050	0																5710.4003	
1	17504.140	0	15424.387-32928.540	-13	-13	.	.	3.0-	2.0	.	.		1.106	1.060*	46		-207	5711.3497	
	17503.946	0																5711.4130	
1	17502.172	0	19281.917-36784.100	-11	-11	.	.	2.0-	3.0	.	.		1.822	1.115	707		-218	5711.9919	
1	17501.699	0	20697.436-38199.170	-35	-35	.	.	7.0-	6.0	.	.		1.250	1.068	182		-256	5712.1463	
	17501.472	0																5712.2204	
1	17500.976	9	17500.977- 0.000	-1	-1	1.0-	0.0	1.0-	0.0	2.26	.000		2.258	0.000	0	60	58	5712.3822	IS*
2	17498.437	3	20063.650-37562.100	-13	-13	.	.	4.5-	5.5	.	.		1.049	0.950	99		-328*	5713.2111	
	17496.162	1																5713.9540	
2	17494.495	1	31435.455-13990.952	-8	-8	.	.	1.5-	1.5	.	.		1.300	1.728	428	+	78	5714.4985	
1	17492.415	1	14912.011-32404.416	10	10	.	.	4.0-	5.0	.	.		0.496	1.055	559	+	11	5715.1780	
1	17489.746	0	22219.737-39709.460	23*	23*	.	.	4.0-	5.0	.	.		0.750	1.070	320		-1	5716.0501	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	17488.272	2	20073.840-37562.100	12		.	.	5.5-	5.5	.	.	.	0.790	0.950*	160		-85*	5716.5319		
2	17487.705	4	34651.175-17163.470	0		3.5-	4.5	3.5-	4.5	1.03	1.19	.16	1.047	1.200	153	407	398	5716.7173		
1	17485.819	0	38473.945-20938.110	-16		.	.	3.0-	4.0	.	.	.	1.020	1.374*	354		156	5717.3339		
1	17484.891	3	26654.150- 9179.262	3		6.0-	5.0	6.0-	5.0	1.12	1.44	.32	1.135	1.454	319		-13	5717.6373		
1	17483.976	2	10456.922-27970.881	17		.	.	1.0-	2.0	.	.	.	0.355	0.194	161	-207	-202	5717.9366		
2	17483.643	0	31916.975-14433.351	19		.	.	1.5-	1.5	.	.	.	1.363	1.925	562		308*	5718.0455		
	17482.171	1				5718.5269	
	17481.710	0				5718.6777	
2	17478.231	1	24976.585- 7498.364	10		.	.	3.5-	2.5	.	.	.	0.960	1.321	361	+	57	5719.8160		
1	17473.977	1	31151.870-13677.903	10		.	.	2.0-	1.0	.	.	.	1.632	1.442	190	-161	-148	5721.2085		
1	17473.457	1	16888.909-34362.360	6		.	.	6.0-	5.0	.	.	.	1.098	1.120*	22	-153	-163	5721.3788		
	17473.078	2				5721.5029	
	17472.683	1				5721.6322	
1	17471.985	2	13726.661-31198.642	4		.	.	3.0-	3.0	.	.	.	1.150	1.070	80	-119	-123	5721.8608		
	17469.929	0				5722.5342	
1	17469.369	0	14912.011-32381.372	8		.	.	4.0-	5.0	.	.	.	0.496	1.190	694		-131	5722.7177		
	17469.190	2				5722.7763	
1	17467.604	0	30995.841-13528.245	9		.	.	2.0-	1.0	.	.	.	1.470	0.590*	2060		136	5723.2959		
1	17467.331	0	27705.804-10238.473	0		.	.	5.0-	6.0	.	.	.	1.160	1.431*	271	+	16	5723.3854		
1	17462.059	0B	19074.292-36536.380	-29		.	.	2.0-	3.0	.	.	.	1.532	0.950*	582		43	5725.1133		
	17461.936	0B				5725.1537	
2	17461.597	0	29026.425-46488.000	22		.	.	2.5-	2.5	.	.	.	1.150	1.000*	150			5725.2648		
2	17461.330	0	32154.455-14693.090	-35		.	.	0.5-	0.5	.	.	.	1.970	0.840*	1130			5725.3524		
2	17460.578	0	30223.215-47683.770	23		.	.	2.5-	3.5	.	.	.	1.025	1.090*	65			5725.5989		
	17460.388	0				5725.6612	
2	17459.266	4	26097.505- 8638.233	-6		5.5-	5.5	5.5-	5.5	1.10	1.52	.42	1.100	1.514*	414	327	321	5726.0292		
	17458.981	0				5726.1227	
1	17458.615	0	17081.874-34540.469	20		.	.	4.0-	3.0	.	.	.	1.217	0.888	329		-260	5726.2427		
	17458.138	0				5726.3992	
	17457.991	0				5726.4474	
1	17455.665	6	27228.191- 9772.532	6		1.0-	0.0	1.0-	0.0	1.75	0.00		1.767	0.000	0	-091	-101	5727.2105		
1	17455.536	5	13726.661-31182.179	18		3.0-	4.0	3.0-	4.0	1.15	1.21	.06	1.150	1.210*	60	-297	-293	5727.2528		
	17454.361	2				5727.6383	
1	17454.232	0	16304.260-33758.523	-31		.	.	4.0-	5.0	.	.	.	1.285	0.830	455		-246	5727.6807		
	17451.299	1				5728.6433	
	17449.333	0				5729.2888	
1	17448.036	4	18602.505-36050.540	1		6.0-	6.0	6.0-	6.0	.93	.85	.08	0.910	0.830*	80	103	105	5729.7147	IS*	
1	17447.513	0	15356.888-33304.400	1		.	.	1.0-	0.0	.	.	.	1.103	0.000	0		-257	5729.8864		
1	17447.055	5	12177.963-29625.003	15		1.0-	2.0	1.0-	2.0	.53	.91	.38	0.525	0.910*	385	-191	-192	5730.0368		
	17443.823	0				5731.0985	
2	17443.500	0	29804.680-47243.155	25		.	.	6.5-	5.5	.	.	.	0.910	1.030*	120			5731.2046		
	17443.328	0				5731.2611	
	17442.818	0				5731.4287	
1	17441.870	1	16155.109-33596.975	4		.	.	5.0-	5.0	.	.	.	0.948	1.315	367	-224	-216	5731.7402		
2	17441.466	0	36203.035-18761.580	11		.	.	4.5-	5.5	.	.	.	0.983	1.296	313			5731.8730		
	17441.280	0				5731.9341	
1	17440.717	1	31118.615-13677.903	5		2.0-	1.0	2.0-	1.0	.865	1.445	.580	0.865	1.442	577			5732.1192		
1	17439.092	0	17615.482-35054.565	9		.	.	2.0-	3.0	.	.	.	1.450	0.998	452		-146	5732.6533		
1	17437.460	9	8765.139-26205.589	10		2.0-	3.0	2.0-	3.0	.352	.678	.326	0.362	0.701	339	-191	-192	5733.1898		
1	17435.213	1	11747.245-29182.445	13		.	.	0.0-	1.0	.	.	.	0.000	0.000*	0	-180	-185	5733.9287		
2	17434.859	0	38492.760-21057.925	24		.	.	3.5-	2.5	.	.	.	1.095	1.590	495			5734.0451		
2	17432.171	3	28158.490-10726.322	3		5.5-	4.5	5.5-	4.5	1.14	1.39	.25	1.140	1.391*	251	129	131	5734.9293		
2	17431.304	0	16362.000-33793.295	9		.	.	4.5-	4.5	.	.	.	1.050	0.800*	250		-342	5735.2146		
	17430.708	1				5735.4107	
1	17428.976	0	17554.704-34983.667	13		.	.	8.0-	7.0	.	.	.	1.170	1.060*	110		-74	5735.9806		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	17428.224	2H															078		5736.2281	HAZY	
1	17427.151	1	26606.405-	9179.262	8	.	.	5.0-	5.0	.	.	.	.	1.130	1.454*	324	-	-24	5736.5813	
1	17422.107	1	16734.151-	34156.245	13	.	.	2.0-	1.0	.	.	.	.	0.928	1.305	377	-316	-312	5738.2422	
	17421.280	0																	5738.5146		
	17419.789	0																	5739.0057		
1	17419.418	0	15249.635-	32669.040	13	.	.	2.0-	3.0	.	.	.	.	0.715	1.000*	285	-184	-188	5739.1280	
1	17419.179	0	14853.317-	32272.487	9	.	.	4.0-	3.0	.	.	.	.	0.786	0.000*	0		-225	5739.2067	
	17418.898	0																	5739.2993		
1	17417.608	0	25192.231-	7774.653	30	.	.	4.0-	4.0	.	.	.	.	1.768	1.463	305		-202	5739.7244	
2	17416.615	3	15641.100-	33057.710	5	3.5-	3.5	3.5-	3.5	1.07	.90	.17		1.040	0.857*	183	-127	-136	5740.0516	PB	
	17412.136	0																	5741.5282		
1	17411.062	4	17911.977-	35323.031	8	5.0-	6.0	5.0-	6.0	1.145	1.080	.065		1.145	1.090	55	-220	-222	5741.8824		
	17409.203	0																	5742.4955		
1	17405.853	3	23550.352-	6144.515	16	3.0-	3.0	3.0-	3.0	1.08	1.46	.38		1.090	1.473*	383	-045	-57	5743.6007		
2	17404.954	0	37580.805-	20175.895	41	.	.	2.5-	3.5	.	.	.	.	1.215	1.515	300		301*	5743.8984	
1	17404.044	0	15074.958-	32478.986	16	.	.	7.0-	6.0	.	.	.	.	1.097	1.110	13		-305	5744.1977	
	17401.770	0																	5744.9484		
1	17401.116	0	35299.015-	17897.917	18	.	.	3.0-	3.0	.	.	.	.	1.035	0.450	585		-355	5745.1643	
	17400.755	0																	5745.2835		
2	17400.554	0	15657.156-	33057.710	0	.	.	2.5-	3.5	.	.	.	.	1.000	0.857	143		-124	5745.3498	
1	17400.363	0	20540.110-	37940.455	18	.	.	3.0-	3.0	.	.	.	.	0.830	1.170*	340		-7	5745.4129	
1	17395.260	7	12159.465-	29554.716	9	.	.	4.0-	3.0	.84	.83	.01		0.844	0.831	13	-181	-185	5747.0984		
1	17394.884	2H	15856.883-	33251.780	-8	.	.	1.0-	2.0	.	.	.	.	1.103	1.465	362		-157	5747.2226	HAZY
1	17392.845	3	13726.661-	31119.494	12	3.0-	2.0	3.0-	2.0	1.150	.800	.350		1.150	0.814	336	-220	-235	5747.8964		
1	17392.607	4H	22710.370-	40102.977	0*	10.0-	10.0	10.0-	10.0	1.26	1.31	.05		1.260	1.310*	50	-232	-232	5747.9750		
1	17391.178	7	19594.767-	2203.606	17	.	.	0.0-	1.0	.000	1.50			0.000	1.495	0	-118	-119	5748.4473		
1	17389.503	2	14853.317-	32242.810	10	.	.	4.0-	5.0	.	.	.	.	0.786	1.215	429	-233	-237	5749.0010	
2	17389.223	2	21359.050-	3969.846	19	.	.	2.5-	2.5	.	.	.43		1.254	1.670	416	174	169	5749.0936		
1	17388.482	2	11840.715-	29229.190	7	.	.	3.0-	4.0	.	.	.	.	0.811	1.480*	669	-405	-404	5749.3386	
1	17388.159	2	22182.030-	39570.175	14	.	.	2.0-	2.0	.	.	.	.	1.295	1.150*	145		56*	5749.4454	
1	17387.804	1	34692.946-	17305.142	0	.	.	3.0-	2.0	.	.	.	.	1.191	0.000*	0		-78	5749.5628	
1	17387.605	0	14912.011-	32299.581	35	.	.	4.0-	5.0	.	.	.	.	0.496	0.000*	0		-84	5749.6286	
1	17387.489	1B	15249.635-	32637.106	18	.	.	2.0-	3.0	.	.	.	.	0.715	0.820*	105		-178	5749.6670	
2	17386.356	8	29393.835-	12007.503	24	0.5-	1.5	0.5-	1.5	-0.51	-0.02	.48		-0.516	-0.019	497	212	209	5750.0416		
2	17382.103	4	19397.055-	2014.966	14	0.5-	1.5	0.5-	1.5	3.34	1.88	1.46		3.328	1.881	1447	135	132	5751.4486		
2	17380.445	3	24659.305-	7278.862	2	4.5-	4.5	4.5-	4.5	1.14	1.54	.40		1.140	1.545*	405	062	63*	5751.9972		
1	17378.835	2	15424.387-	32803.199	23	.	.	3.0-	3.0	.	.	.	.	1.106	0.825	281	-160	-160	5752.5301	
1	17378.120	0	18672.411-	36050.540	-9	.	.	6.0-	6.0	.	.	.	.	1.190	0.830*	360		-126	5752.7668	
	17375.894	0																	5753.5038		
1	17374.069	0	23550.352-	40924.450	-29	.	.	3.0-	3.0	.	.	.	.	1.090	1.185*	95		48	5754.1081	
1	17372.046	0	20043.465-	37415.495	16	.	.	5.0-	5.0	.	.	.	.	0.925	0.980	55		-20	5754.7782	
	17371.261	1																	5755.0383		
1	17370.897	0	20769.512-	38140.400	9	.	.	2.0-	3.0	.	.	.	.	1.070	1.120*	50			5755.1589	
	17370.521	1																	5755.2834		
	17369.877	1																	5755.4968		
1	17368.624	2	31046.528-	13677.903	-1	.	.	2.0-	1.0	1.48	1.45	.03		1.480	1.442*	38	-081	-96	5755.9120		
1	17365.884	3	15074.958-	32440.827	15	7.0-	6.0	7.0-	6.0	1.090	1.115	.025		1.097	1.120*	23	-250	-247	5756.8202		
1	17360.553	0C	16532.104-	33892.650	7	.	.	3.0-	3.0	.	.	.	.	0.300	1.060	760		-12	5758.5880	HAZY
2	17359.540	0	37681.895-	20322.349	-6	.	.	6.5-	6.5	.	.	.	.	1.090	1.314	224		383	5758.9241	
1	17359.238	0	16734.151-	34093.375	14	.	.	2.0-	1.0	.	.	.	.	0.928	1.310*	382		-219	5759.0242	
	17358.538	0																	5759.2399		
1	17357.735	7	15074.958-	32432.680	13	.	.	7.0-	7.0	1.09	1.13	.04		1.097	1.140	43	-173	-177	5759.5229		
1	17354.333	3	6313.866-	23668.184	15	4.0-	4.0	4.0-	4.0	.49	.93	.44		0.487	0.940*	453	-098	-106	5760.6520	PB	
1	17352.201	3	14025.007-	31377.193	15	.	.	4.0-	4.0	.98	.98			0.975	0.973	2		-196	-198	5761.3598	
1	17346.722	0	19865.603-	37212.310	15	.	.	4.0-	5.0	1.100	0.990	110		-242	-245	5763.1795	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	17345.830	1	34650.965	-	17305.142	7	.	.	2.0-	2.0	.	.	.	1.250	0.000*	0	-084	-84*	5763.4759	
	17341.907	0																	5764.7797	
2	17341.752	1	24840.100	-	7498.364	16	1.5-	2.5	1.5-	2.5	.	.	.30	1.025	1.321*	296	316	320	5764.8312	
	17340.548	2																	5765.2315	
1	17339.942	5	27578.418	-	10238.473	-3	5.0-	6.0	5.0-	6.0	1.13	1.44	.31	1.120	1.431*	311	117	118	5765.4330	
	17339.299	3																	5765.6468	
1	17337.001	2	26516.261	-	9179.262	2	5.0-	5.0	5.0-	5.0	.	.	.25	1.200	1.454*	254	+	48	5766.4110	
1	17336.455	3	14292.176	-	31628.619	12	5.0-	6.0	5.0-	6.0	.	.	.14	0.970	1.110	140	-150	-149	5766.5926	
1	17335.650	0	16155.109	-	33490.744	15	.	.	5.0-	5.0	.	.	.	0.948	1.084	136	-235	-240	5766.8604	
2	17333.094	2	33619.660	-	16286.582	16	.	.	0.5-	0.5	1.44	-0.12	1.56	1.470	-0.122	1592	348	346	5767.7108	
1	17332.259	7	32820.775	-	15488.530	14	2.5-	3.5	2.5-	3.5	1.34	1.08	.26	1.315	1.057	258	225	231	5767.9887	IS*
2	17330.801	2	14912.011	-	32242.810	2	4.0-	5.0	4.0-	5.0	.50	1.20	.70	0.496	1.215	719	-126	-140	5768.4740	
2	17329.227	0	15657.156	-	32986.390	-7	.	.	2.5-	2.5	.	.	.	1.000	1.040*	40		-340	5768.9979	
1	17328.494	0	18591.122	-	35919.595	21	.	.	4.0-	5.0	.	.	.	0.965	1.120*	155		-68	5769.2419	
	17328.255	0															+		5769.3182	
1	17325.442	9	8768.139	-	26093.563	18	2.0-	1.0	2.0-	1.0	.365	-0.09	.46	0.362	-0.082	444	-153	-148	5770.2582	
1	17324.951	0	33070.573	-	15745.648	26	.	.	2.0-	3.0	.	.	.	0.673	1.145	472		37	5770.4218	
2	17324.736	0	25962.945	-	8539.233	24	.	.	4.5-	5.5	.	.	.	1.065	1.514	449		160	5770.4934	
1	17323.516	0	18046.108	-	35369.610	14	.	.	4.0-	5.0	.	.	.	0.694	1.120*	426		45	5770.8998	
1	17322.866	0W	22705.158	-	40028.005	19	.	.	1.0-	2.0	.	.	.	-0.020	0.980*	1000			5771.1163	CS
1	17322.866	0W	12322.613	-	29645.433	46	.	.	2.0-	1.0	.	.	.	1.036	0.705	331		-301	5771.1163	CS
	17321.009	0C																	5771.7350	
1	17318.636	2	14692.549	-	32011.173	12	.	.	2.0-	3.0	.	.	.	0.292	1.140*	848	-187	-185	5772.5259	
1	17317.954	2	30995.841	-	13677.903	16	.	.	2.0-	1.0	1.46	1.45	.01	1.470	1.442*	28	-105	-109	5772.7532	
	17316.903	1																	5773.1036	
1	17315.585	0	13726.661	-	31042.204	42	.	.	3.0-	3.0	.	.	.	1.150	1.010	140		-88	5773.5430	
1	17315.256	0	31657.182	-	14341.947	21	.	.	2.0-	2.0	.	.	.	0.000	0.852*	0		232	5773.6527	
1	17312.366	0	19865.603	-	37177.970	-1	.	.	4.0-	5.0	.	.	.	1.100	1.125	25		-222	5774.6165	
	17311.602	0																	5774.8714	
2	17310.881	0	27542.165	-	44853.015	31	.	.	2.5-	2.5	.	.	.	0.934	0.920*	14			5775.1119	
1	17308.480	1	25083.129	-	7774.653	4	.	.	5.0-	4.0	.	.	.	1.160	1.463*	303	179	178	5775.9130	
	17305.449	0																	5776.9247	
2	17305.238	0	22894.140	-	46199.395	-17	.	.	3.5-	3.5	.	.	.	1.009	0.955	54			5776.9951	
1	17304.501	3	8768.139	-	26072.627	13	2.0-	2.0	2.0-	2.0	.36	1.50	1.14	0.362	1.500*	1138	-353	-361	5777.2412	
1	17303.598	1	21603.247	-	4299.659	10	.	.	2.0-	2.0	.	.	.	0.060	1.482*	1422		35	5777.5427	
1	17302.403	3	12322.613	-	29625.003	13	2.0-	2.0	2.0-	2.0	1.030	.905	.125	1.036	0.910*	126	-189	-196	5777.9417	
	17302.036	4H									1.25						025		5778.0476	IS*
1	17301.024	5	11747.245	-	29048.255	14	0.0-	1.0	0.0-	1.0	.000	.900		0.000	0.900	0	-257	-262	5778.4022	
2	17300.437	0	22287.310	-	46187.750	-3	.	.	0.5-	1.5	.	.	.	0.162	0.740	578			5778.5983	
1	17300.239	0	16304.260	-	33604.497	2	.	.	4.0-	3.0	.	.	.	1.285	1.210	75		-189	5778.6644	
1	17299.947	0	25074.585	-	7774.653	15	.	.	4.0-	4.0	.	.	.	1.507	1.463	44	-156	-151	5778.7620	
	17299.762	0																	5778.8238	
1	17298.869	1	14912.011	-	32210.885	-5	.	.	4.0-	4.0	.	.	.	0.496	0.995	499		71	5779.1221	
	17298.518	0																	5779.2394	
1	17298.033	1	20521.579	-	37819.580	32*	.	.	6.0-	7.0	.	.	.	1.246	1.110*	136	-128	-134	5779.4014	
	17297.568	0																	5779.5568	
1	17296.959	0	22182.030	-	39479.000	-11	.	.	2.0-	3.0	.	.	.	1.295	0.970	325			5779.7602	
1	17296.160	0	18046.108	-	35342.260	8	.	.	4.0-	4.0	.	.	.	0.694	1.110	416		46	5780.0272	
	17295.706	0																	5780.1790	
2	17293.666	1	16499.640	-	33793.295	11	.	.	3.5-	4.5	.790	.795	.005	0.773	0.800	27		-302	5780.8608	
1	17292.722	2	16304.260	-	33596.975	7	.	.	4.0-	5.0	1.28	1.32	.04	1.285	1.315	30	-223	-220	5781.1764	
	17290.942	0																	5781.7715	
1	17290.020	0	25064.653	-	7774.653	20	.	.	3.0-	4.0	.	.	.	0.980	1.463	483	-111	-67	5782.0799	CQ
	17289.551	0																	5782.2367	
1	17288.247	0	13726.661	-	31014.877	31	.	.	3.0-	4.0	.	.	.	1.150	1.170	20		-137	5782.6728	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	17285.710	2																		5783.5216	
1	17220.425	1	17081.874-34362.360			-1			4.0-	5.0				1.217	1.120*	97		-155	5785.2703		
2	17230.246	2	17296.905-34577.135			16	4.5-	4.5	4.5-	4.5	.50	1.01	.51	0.494	1.010*	516		-5*	5785.3503		
2	17273.707	4	31000.010-13726.318			15	1.5-	2.5	1.5-	2.5	1.68	.79	.89	1.669	0.784	885	376	369	5787.5404		
1	17272.160	7	23416.666- 6144.515			9	2.0-	3.0	2.0-	3.0	1.33	1.48	.15	1.320	1.473*	153		19	5788.0588		
1	17270.047	2	25044.687- 7774.653			13	4.0-	4.0	4.0-	4.0			.26	1.210	1.463*	253	123	135	5788.7670		
1	17269.205	1	23413.710- 6144.515			10			4.0-	3.0				0.000	1.473*	0		78	5789.0492		
2	17268.229	1	34013.940-16745.720			9			3.5-	2.5				1.121	1.671	550		349	5789.3764		
2	17267.458	0	37589.795-20322.349			12			5.5-	6.5				1.120	1.314*	194			5789.6349		
1	17266.680	1	16304.260-33570.935			5			4.0-	4.0				1.285	1.130*	155	-174	-176	5789.8958		
1	17265.253	0	20043.465-37308.707			11			5.0-	4.0				0.925	1.040	115		9	5790.3743		
1	17264.644	1	26443.910- 9179.262			-4	6.0-	5.0	6.0-	5.0			.408	1.045	1.454	404	145	139	5790.5786		
2	17263.474	0	40513.220-23249.745			-1			3.5-	4.5				0.925	1.475	550			5790.9710		
	17263.286	0																		5791.0341	
	17261.764	0																		5791.5447	
	17261.530	1																		5791.6232	
1	17260.309	1	34565.410-17305.142			41			1.0-	2.0				0.980	0.000*	0			5792.0329	C2	
1	17260.309	1	35603.601-19343.298			6			4.0-	3.0				1.134	1.135	1		232	5792.0329	C2	
1	17257.984	1	21515.136-38773.125			-5			1.0-	2.0				1.180	1.038*	142		-154	5792.8132		
2	17257.275	1	39176.695-21919.400			-20			6.5-	7.5				1.180	1.345	165	332	334*	5793.0512		
	17255.466	0																		5793.6586	
	17254.928	0																		5793.8392	
1	17254.674	0	15856.888-33111.557			5			1.0-	2.0				1.103	1.315	212		-132	5793.9245		
1	17253.670	5	14025.007-31278.667			10			4.0-	5.0	.99	1.02	.03	0.975	1.010*	35	-115	-115	5794.2617		
2	17250.160	2	20073.840-37323.995			5	5.5-	5.5	5.5-	5.5	.790	.935	.145	0.790	0.935*	145	114	119	5795.4407		
1	17247.803	0	18602.505-35850.314			-1			6.0-	6.0				0.910	1.040*	130		58	5796.2310		
1	17246.229	0C	36583.653-19337.431			7			1.0-	1.0				1.135	2.410*	1275		74	5796.7617		
1	17244.644	0C	15424.387-32669.040			-9			3.0-	3.0				1.106	1.000*	106		-181	5797.2945		
1	17241.960	0	30770.199-13528.246			7			2.0-	1.0				1.216	-0.590*	1806		145	5798.1969		
2	17241.471	0	40491.205-23249.745			11			4.5-	4.5				1.155	1.475	320			5798.3614		
2	17239.725	0	39101.810-21862.135			50	1.5-	2.5	1.5-	2.5	.97	1.32	.35	0.980	1.320*	340	223	223*	5798.9486		
1	17239.491	0	32985.135-15745.648			4			2.0-	3.0				0.757	1.145	388		164	5799.0273		
	17239.133	0																		5799.1477	
	17239.046	0B																		5799.1770	
1	17238.590	0	16595.109-33833.699			0			3.0-	2.0				0.999	0.930	69	-233	-232	5799.3304		
1	17237.571	2	16520.962-33758.523			10			5.0-	5.0				0.736	0.830	94		-28	5799.6732		
1	17233.241	1	17045.776-34279.010			7			1.0-	1.0				1.474	1.710*	236		-56	5801.1305		
1	17232.302	1	14737.783-31970.100			-10			3.0-	4.0				0.815	1.100*	285		-200	5801.4466		
1	17232.107	3	12322.613-29554.716			4	2.0-	3.0	2.0-	3.0	1.03	.83	.20	1.036	0.831	205	-181	-188	5801.5122		
1	17231.512	0	33507.825-16276.332			19			2.0-	2.0				1.109	1.880*	771		185	5801.7126		
	17230.646	1																		5802.0042	
	17230.218	1																		5802.1483	
2	17225.685	4	20073.840-37299.525			0	5.5-	5.5	5.5-	5.5	.780	.915	.135	0.790	0.923*	133	120	121	5803.6752	PB	
	17224.957	0																		5803.9204	
	17224.560	1																		5804.0542	
2	17216.826	1	23538.650-40755.465			11			3.5-	2.5				1.470	0.800*	670			5806.6615	C2	
1	17216.826	1	18346.917-35563.728			15			2.0-	3.0				1.518	1.204	314		-301	5806.6615	C2	
2	17215.942	2	38507.290-21291.350			2	3.5-	4.5	3.5-	4.5	1.26	1.58	.32	1.270	1.590	320	284	284*	5806.9597		
1	17215.482	8	21515.136- 4299.659			5	1.0-	2.0	1.0-	2.0	1.16	1.47	.31	1.180	1.482*	302	112	108	5807.1148		
	17213.139	2					4.0-	5.0					.23							5807.9053	J3040Q
1	17211.297	3	8768.139-25979.424			12	2.0-	1.0	2.0-	1.0	.36	1.26	.90	0.362	1.260	898	-269	-270	5808.5269		
1	17210.791	0	22818.840-40029.640			-9			6.0-	5.0				1.335	1.230	105		-261	5808.6976		
	17204.463	1																		5810.8342	
	17193.983	2																		5814.3760	
1	17192.297	1	17554.704-34746.981			20			8.0-	8.0				1.170	0.000*	0	-072	-73	5814.9462		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	17189.565	1	34353.025-17163.470			10	.	.	3.5-	4.5	1.23	1.23		1.199	1.200	1	483	483	5815.8704	
	17187.442	1					.	.			.	.							5816.5888	
	17185.318	1					.	.			.	.							5816.9692	
2	17185.749	0	31619.095-14433.351			5	.	.	1.5-	1.5				1.613	1.925	312		226*	5817.1618	
2	17182.320	6	32670.835-15428.530			15	2.5-	3.5	2.5-	3.5	1.36	1.06	.30	1.361	1.057	304	257	256	5818.3227	
	17178.492	2					.	.			.	.							5819.6192	
1	17175.263	2	15249.635-32424.890			8	2.0-	1.0	2.0-	1.0	.72	1.77	1.05	0.715	1.770*	1055	-254	-263	5820.7134	
2	17173.152	0	32231.070-21057.925			7	.	.	3.5-	2.5				1.130	1.590*	460			5821.4289	
1	17170.708	2	23315.209-6144.515			14	2.0-	3.0	2.0-	3.0	1.340	1.475	.135	1.335	1.473	138	-	-44	5822.2575	
	17168.724	3					.	.			.	.							5822.9100	
1	17165.956	3	16155.109-33321.067			-2	5.0-	5.0	5.0-	5.0	.94	1.20	.26	0.948	1.200*	252	-190	-190	5823.8693	
	17162.556	0					.	.			.	.							5825.0230	
	17162.110	0					.	.			.	.							5825.1744	
2	17151.306	1	29026.425-46187.750			-19	.	.	2.5-	1.5	.95	.95		1.150	0.740	410			5825.4473	
2	17159.037	2	26401.370-9242.356			23	.	.	4.5-	3.5				1.220	1.369*	149		137	5826.2176	C2
1	17159.037	2	22239.053-40048.080			10*	.	.	4.0-	3.0				1.263	1.005	258			5826.2176	C2
1	17157.859	3	13517.647-30575.497			9	.	.	2.0-	2.0				0.892	0.375	517	-181	-176	5826.6176	
1	17157.186	0	14025.007-31182.179			14	.	.	4.0-	4.0				0.975	1.210*	235		-292	5826.8462	
	17156.664	1					.	.			.	.							5827.0235	
2	17154.013	0	24432.860-7278.862			20	.	.	3.5-	4.5				1.110	1.545*	435		103	5827.9223	
1	17152.831	0	15424.387-32577.204			14	.	.	3.0-	4.0				1.106	0.980*	126		-273	5828.3256	
1	17151.735	0	18046.108-35197.829			14	.	.	4.0-	3.0				0.694	1.080	386		0	5828.6980	
	17150.700	3					.	.			.	.					156		5829.0498	2LNS
	17150.700	3					.	.			.	.							5829.0498	2LNS
1	17150.465	7	10486.922-27637.377			10	1.0-	1.0	1.0-	1.0	.355	1.280	.925	0.355	1.280	925	-222	-222	5829.1297	
1	17149.145	2B	13726.661-30875.798			8	.	.	3.0-	4.0				1.150	1.080*	70	-261	-275	5829.5783	
	17149.063	0					.	.			.	.							5829.6062	
1	17145.525	2	14763.705-31909.212			18	1.0-	1.0	1.0-	1.0	-0.065	.880	.945	-0.066	0.888	954		-71	5830.8092	
2	17144.279	0	38435.630-21291.350			-1	.	.	5.5-	4.5				1.150	1.590*	440		342*	5831.2329	
1	17138.474	3	26317.729-9179.262			7	.	.	4.0-	5.0				1.180	1.454*	274	-073	-73	5833.2081	
	17134.530	0					.	.			.	.							5834.5508	
	17132.914	0					.	.			.	.							5835.1011	
	17132.287	1					.	.			.	.					111		5835.3146	
1	17131.167	3	14853.317-31934.470			14	.	.	4.0-	3.0				0.786	1.090	304		-22	5835.6961	
1	17130.353	8	23274.858-6144.515			10	4.0-	3.0	4.0-	3.0	1.60	1.47	.13	1.604	1.473	131	-077	-54	5835.9735	
1	17129.729	0	16595.109-33724.837			1	.	.	3.0-	3.0				0.999	1.160	161		-205	5836.1860	
1	17129.238	0	24903.894-7774.653			-3	.	.	3.0-	4.0				0.915	1.463	548		105	5836.3533	
2	17128.399	1	28158.490-45286.880			9	.	.	5.5-	5.5				1.140	1.000*	140	-193		5836.6392	
1	17124.989	0H	33729.775-16604.786			0	.	.	5.0-	6.0				1.125	0.950*	175		106	5837.8015	
1	17122.479	0	26301.732-9179.262			9	.	.	5.0-	5.0				1.060	1.454*	394		-16	5838.6572	
1	17122.147	0C	20697.436-37819.580			3*	.	.	7.0-	7.0				1.250	1.110*	140		-134	5838.7704	
2	17121.815	3	33267.535-16745.720			0	.	.	1.5-	2.5	1.65	1.65		1.670	1.671*	1	332	327	5838.8837	
1	17121.333	9	21420.983-4299.659			9	3.0-	2.0	3.0-	2.0	1.67	1.49	.18	1.663	1.482	181	-040	-18	5839.0480	IS*
	17117.851	0					.	.			.	.							5840.2358	
1	17117.610	0	30545.856-13528.246			0	.	.	2.0-	1.0				1.541	0.590*	2131		136	5840.3180	
2	17117.102	2	24615.450-7498.364			16	.	.	1.5-	2.5				1.011	1.321	310	129	141	5840.4913	
2	17114.659	0	28913.915-11799.241			-15	.	.	5.5-	5.5				1.300	1.373*	73	161	144	5841.3250	
	17114.447	3					5.5-	5.5					.157						5841.3974	J6060Q
1	17113.472	0	19496.402-36609.850			24	.	.	3.0-	2.0				1.555	1.025	530		-284	5841.7302	
1	17112.723	1	34839.189-17776.483			17	.	.	3.0-	2.0				0.990	0.565	425	-098	-98	5841.9859	
1	17111.133	2	14252.176-31403.302			7	.	.	5.0-	5.0				0.970	1.205	235	-288	-299	5842.5287	
1	17105.429	1H	14912.011-32017.434			6	.	.	4.0-	4.0				0.496	1.020*	524	-069	-74	5844.4770	HAZY
2	17102.414	3	35853.985-18761.580			9	4.5-	5.5	4.5-	5.5	1.21	1.30	.09	1.210	1.296*	86	271	271*	5845.5074	
2	17101.689	3	27828.005-10726.322			6	.	.	4.5-	4.5	1.40	1.39	.0	1.410	1.391*	19	108	107	5845.7552	
2	17096.399	3	35614.250-18517.872			21	1.5-	0.5	1.5-	0.5	1.56	2.78	1.22	1.560	2.755	1195	239	232	5847.5640	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	17095.963	7	27334.422-10238.473	14				7.0-	6.0	7.0-	6.0	1.21	1.40	.19	1.240	1.431*	191	-062	-62	5847.7131		
	17094.997	1																		5848.0436		
1	17091.116	4	12177.963-29269.059	20				1.0-	1.0	1.0-	1.0	.520	1.115	.595	0.525	1.110*	585	-192	-199	5849.3715	PB	
1	17089.287	3	9336.801-26476.068	20				5.0-	4.0	5.0-	4.0	.805	1.61	.80	0.801	1.605	804	-396	-398	5849.9976		
1	17085.035	3	14292.176-31377.193	18				.	.	5.0-	4.0	.975	.975	.	0.970	0.973	3	-195	-196	5851.4535		
2	17081.750	3	22799.695-5717.976	31				4.5-	3.5	4.5-	3.5	1.33	1.59	.26	1.330	1.596*	266	161	162	5852.5788		
1	17079.369	0	17554.704-34634.053	20				.	.	8.0-	8.0	.	.	.	1.170	0.000*	0	-168	-178	5853.3947		
	17078.808	2																		5853.5870		
1	17078.331	7	19281.917-2203.606	20				2.0-	1.0	2.0-	1.0	1.82	1.50	.32	1.822	1.495	327	162	161	5853.7505		
	17077.965	3																		5853.8759		
2	17074.733	1	33820.430-16745.720	23				1.5-	2.5	1.5-	2.5	.	.	.260	1.410	1.671	261	-220		5854.9840		
2	17073.364	3	17073.340-0.000	24				1.5-	0.5	1.5-	0.5	.	.	2.57	0.576	3.150	2574	171	169	5855.4535		
1	17072.452	0	14912.011-31984.470	-7				.	.	4.0-	3.0	.	.	.	0.496	1.090	594		75	5855.7663		
2	17072.179	2	27798.480-10726.322	21				.	.	3.5-	4.5	.	.	.	1.060	1.391*	331		96	5855.8599		
1	17071.785	4	10486.922-27559.688	20				1.0-	0.0	1.0-	0.0	.359	.000	.	0.355	0.000	0	-219	-224	5855.9947		
1	17071.513	1	36414.798-19343.298	13				.	.	4.0-	3.0	.	.	.	1.100	1.135*	35		120	5856.0884		
	17071.307	1																		5856.1590		
2	17070.351	0	35931.915-18761.580	26				.	.	4.5-	5.5	.	.	.	1.170	1.296*	126			5856.4836		
1	17069.747	0	31411.690-14341.947	4				.	.	2.0-	2.0	.	.	.	1.289	0.852	437		208	5856.6942		
2	17068.629	7	30794.930-13726.318	17				1.5-	2.5	1.5-	2.5	1.09	.78	.31	1.084	0.784	300	298	298	5857.0778		
1	17067.121	2H	16532.104-33599.280	-55				3.0-	2.0	3.0-	2.0	.313	1.64	1.33	0.300	1.606	1306		-80	5857.5954	HAZY	
	17065.070	0																		5858.2994		
1	17063.457	2H	19074.292-36137.730	19				.	.	2.0-	2.0	1.55	1.55	.	1.532	1.525	7		-85	5858.8532		
2	17062.413	1	32395.835-50058.235	13				.	.	4.5-	3.5	.	.	.	1.164	1.000*	164			5859.2117		
1	17061.751	2	14025.007-31086.744	14				.	.	4.0-	5.0	.	.	.	0.975	0.795	180		-36	5859.4390		
1	17058.085	1	15424.387-32432.465	7				3.0-	4.0	3.0-	4.0	1.100	1.325	.225	1.106	1.330*	224	-338	-338	5860.6983		
2	17055.943	0	20291.680-3235.770	33				.	.	1.5-	0.5	.	.	.	1.377	0.299	1078		168	5861.4343		
1	17050.057	5	24824.706-7774.653	4				4.0-	4.0	4.0-	4.0	1.13	1.45	.32	1.145	1.463	318	107	100	5863.4578		
2	17049.229	0	34088.695-17039.487	21				.	.	2.5-	1.5	.	.	.	1.340	1.354	14		258*	5863.7426		
1	17047.603	0	17045.776-34093.375	4				.	.	1.0-	1.0	.	.	.	1.474	1.310*	164		41	5864.3019		
1	17047.108	0	14763.705-31810.821	-8				.	.	1.0-	2.0	.	.	.	-0.066	0.865	931		-127	5864.4721		
1	17045.796	9	17045.776-0.000	20				1.0-	0.0	1.0-	0.0	1.460	.000	.	1.474	0.000	0	-078	-80	5864.9235		
	17045.432	4											1.06	.34					243		5865.0488	SO 2J06
1	17044.854	1	12159.465-29204.308	11				.	.	4.0-	5.0	.	.	.	0.844	0.896	52		-215	5865.2477		
	17044.423	1																		5865.3960		
2	17041.645	0	29523.355-46565.005	-5				.	.	5.5-	4.5	.	.	.	1.165	1.040*	125			5866.3521		
2	17039.383	0	22541.470-5502.060	-27				.	.	1.5-	1.5	.	.	.	0.420	1.169*	749		134	5867.1309		
2	17038.951	1	30765.285-13726.318	-16				3.5-	2.5	3.5-	2.5	.	.	.395	1.190	0.784*	406		284	5867.2796		
2	17038.353	0	34077.830-17039.487	10				.	.	1.5-	1.5	.	.	.	1.650	1.354	296		207*	5867.4856		
	17037.764	2																		-76	5867.6884	
2	17032.719	2	29040.245-12007.503	-23				1.5-	1.5	1.5-	1.5	1.445	-0.025	1470	1.447	-0.019	1466	340	324	5869.4264		
	17032.142	2																			5869.6253	
	17031.705	1																			5869.7759	
1	17028.910	0	36372.210-19343.298	-2*				.	.	4.0-	3.0	.	.	.	1.082	1.135	53		230	5870.7393		
1	17027.833	4	16155.109-33182.933	9				5.0-	6.0	5.0-	6.0	.950	1.045	.094	0.948	1.050	102	-166	-168	5871.1106	IS*	
	17025.899	0																			5871.7775	
1	17017.203	2	14025.007-31042.204	6				.	.	4.0-	3.0	.	.	.	0.975	1.010	35		-077	-87	5874.7781	
1	17016.815	4	16304.260-33321.067	8				4.0-	5.0	4.0-	5.0	1.28	1.20	.08	1.285	1.200*	85	-193	-194	5874.9121		
1	17015.766	0	16202.112-33217.880	-2				.	.	0.0-	1.0	.	.	.	0.000	0.520*	0			5875.2742		
	17014.653	0																			5875.6586	
	17013.673	0																			5875.9970	
	17012.293	1																			5876.4737	
2	17011.161	3	33756.860-16745.720	21				3.5-	2.5	3.5-	2.5	1.29	1.70	.41	1.272	1.671	399	258	253	5876.8647		
1	17010.425	0	16532.104-33542.506	23				.	.	3.0-	2.0	.	.	.	0.300	1.123	823		-32	5877.1190		
1	17009.955	0	19281.917-36291.840	32				.	.	2.0-	3.0	.	.	.	1.822	0.980	842		-226	5877.2814		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G5	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	17009.276	0																	5877.5160	
2	17009.097	0	31000.010	-	13990.952	39	.	.	1.5-	1.5	.	.	.	1.669	1.728	59		66	5877.5779	
	17006.725	0																	5878.3976	
1	17004.509	1	12177.963	-	29182.445	27	.	.	1.0-	1.0	.	.	.	0.525	0.000*	0		-188	5879.1637	
1	17004.300	2	33609.070	-	16504.786	16	.	.	5.0-	6.0	.	.	.	1.057	0.950*	107		-47	5879.2360	
1	17003.528	0	22429.984	-	39433.510	2	.	.	4.0-	4.0	.	.	.	1.279	0.925	354		-45	5879.5029	
	17002.615	0																	5879.8186	
	17002.200	0																	5879.9621	
2	17001.134	4	30727.440	-	13726.318	12	1.5-	2.5	1.5-	2.5	1.22	.78	.44	1.208	0.784	424	336	339	5880.3308	
1	16999.832	7	19203.415	-	2203.606	23	2.0-	1.0	2.0-	1.0	1.02	1.50	.48	1.021	1.495	474	153	155	5880.7812	
2	16999.164	6	17296.905	-	34296.050	19	4.5-	4.5	4.5-	4.5	.50	.77	.27	0.494	0.768	274	064	53	5881.0123	
1	16996.119	0	34772.583	-	17776.483	19	.	.	3.0-	2.0	.	.	.	0.990	0.565*	425		-115	5882.0659	
1	16995.331	2	16883.909	-	33834.230	10	.	.	6.0-	7.0	1.100	1.105	.005	1.098	1.105	7	-322	-323	5882.3387	
	16993.789	0																	5882.8724	
1	16990.688	0	16734.151	-	33724.837	2	.	.	2.0-	3.0	.	.	.	0.928	1.160	232	-232	-229	5883.9461	
1	16989.885	2	14025.007	-	31014.877	15	4.0-	4.0	4.0-	4.0	.	.	.198	0.975	1.170	195	-136	-136	5884.2242	
1	16987.736	3	13726.561	-	30714.385	12	.	.	3.0-	4.0	1.15	1.15	.	1.150	1.150	0		-103	5884.9686	
2	16987.553	2	31516.780	-	48504.345	-12	.	.	2.5-	2.5	.	.	.	1.215	0.790*	425			5885.0320	
1	16986.496	3	14292.176	-	31278.667	5	5.0-	5.0	5.0-	5.0	.	.	.041	0.970	1.010*	40	-117	-113	5885.3982	
1	16986.183	4	17554.704	-	34540.880	7*	8.0-	8.0	8.0-	8.0	1.17	1.27	.099	1.170	1.270*	100	-245	-246	5885.5067	G1.08Q
1	16985.849	1	24091.173	-	41077.010	12	.	.	3.0-	3.0	.	.	.	1.245	1.100	145		3	5885.6224	
1	16985.619	1	16304.260	-	33289.869	10	.	.	4.0-	5.0	.	.	.	1.285	1.095	190		-138	5885.7021	
1	16982.950	2	32728.585	-	15745.648	13	3.0-	3.0	3.0-	3.0	.	.	.205	0.947	1.145	198	157	157	5886.6271	
1	16977.998	4	27216.453	-	10238.473	13	5.0-	6.0	5.0-	6.0	1.17	1.42	.25	1.180	1.431*	251	107	109	5888.3441	IS*
1	16975.829	1	16595.109	-	33570.935	3	.	.	3.0-	4.0	.	.	.	0.999	1.130*	131		-133	5889.0964	
2	16975.339	3	33721.040	-	16745.720	19	1.5-	2.5	1.5-	2.5	1.25	1.68	.43	1.228	1.671	443	339	336	5889.2664	
1	16974.214	6	9386.801	-	26360.997	18	.	.	5.0-	5.0	.80	.80	.	0.801	0.796	5	-243	-244	5889.6567	
1	16970.297	2	26149.538	-	9179.262	21	4.0-	5.0	4.0-	5.0	1.37	1.46	.09	1.360	1.454*	94		-54	5891.0162	
1	16969.802	3C	16520.962	-	33490.744	20	5.0-	5.0	5.0-	5.0	.73	1.07	.34	0.736	1.084	348		-26	5891.1880	2LNSQ
1	16969.802	3C	19558.257	-	36528.070	-11	.	.	2.0-	3.0	.	.	.	-0.145	0.985	1130			5891.1880	2LNSQ
	16968.913	2											.63						5891.4967	DJ1 2JD6
1	16967.424	0	24742.092	-	7774.653	-15	.	.	4.0-	4.0	.	.	.	0.980	1.463*	483		-3	5892.0137	
1	16965.983	2	16532.104	-	33498.071	16	.	.	3.0-	3.0	.	.	.	0.300	0.770	470		22	5892.5141	
2	16964.200	4	17296.905	-	34261.065	40	4.5-	4.5	4.5-	4.5	.	.	.44	0.494	0.920	426		154	5893.1335	2 LNS
1	16964.200	9	9386.801	-	26350.922	19	.	.	5.0-	4.0	.800	.795	.005	0.801	0.796	5	-136	-144	5893.1335	2 LNS
	16962.937	0																	5893.5722	
2	16961.391	0	31542.950	-	48504.345	-4	.	.	1.5-	2.5	.	.	.	1.026	0.790*	236	-282		5894.1094	
1	16959.845	0	14737.788	-	31697.633	0	.	.	3.0-	4.0	.	.	.	0.815	1.187	372		-123	5894.6467	
2	16959.301	3	26201.645	-	9242.356	12	2.5-	3.5	2.5-	3.5	1.05	1.38	.33	1.036	1.369	333	140	139	5894.8358	
1	16958.027	0	20043.465	-	37001.490	2	.	.	5.0-	6.0	.	.	.	0.925	1.035	110		5	5895.2787	
2	16956.966	0	27059.565	-	44016.500	31	.	.	4.5-	4.5	.	.	.	1.030	1.050*	20	232		5895.6475	
	16956.692	0																	5895.7428	
1	16956.389	1	23100.887	-	6144.515	17	.	.	3.0-	3.0	.	.	.	1.520	1.473	47	-151	-157	5895.8482	
1	16955.322	1	34527.915	-	17572.608	15	.	.	2.0-	2.0	.	.	.	1.310	0.555	755	094	94*	5896.2192	
	16952.458	0																	5897.2153	
2	16951.014	0	16499.640	-	33450.655	-1	.	.	3.5-	2.5	.	.	.	0.773	0.941	168		-82	5897.7177	
	16950.764	0																	5897.8047	
2	16950.317	0	38492.760	-	21542.435	-8	.	.	3.5-	2.5	.	.	.	1.095	1.279	184			5897.9602	
	16949.746	3											.67				263		5898.1589	HSI 2JD6
2	16948.269	0	35614.250	-	18666.006	25	1.5-	2.5	1.5-	2.5	1.54	1.35	.19	1.560	1.365	195	146	156	5898.6729	
1	16945.467	2	12322.613	-	29269.059	21	2.0-	1.0	2.0-	1.0	1.03	1.10	.07	1.036	1.110*	74	-201	-203	5899.3002	PB
1	16945.237	3	10486.922	-	27432.195	14	1.0-	1.0	1.0-	1.0	.35	1.12	.77	0.355	1.130*	775	-333	-338	5899.7110	
	16944.778	1																	5899.8882	
	16942.272	2							3.5-	4.5	.	.	.25				140		5900.7609	JQ SO Q
1	16941.451	3	13517.647	-	30459.091	7	2.0-	2.0	2.0-	2.0	.	.	.368	0.892	1.255	363		-292	5901.0468	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES	
1	16941.128	4	13726.661	-	30567.769	20	3.0-	4.0	3.0-	4.0	1.15	1.26	.11	1.150	1.265	115	-279	-281	5901.1593		
1	16938.854	5	12351.522	-	29290.355	21	6.0-	6.0	6.0-	6.0	.980	.915	.064	0.995	0.920	75	-199	-201	5901.9516		
	16936.717	2					4.5-	5.5					.186				212		5902.6963	JQ	
2	16935.473	3	26643.435	-	9707.980	18			5.5-	6.5				1.420	1.485*	65	125	135	5903.1298		
2	16934.513	4	24432.860	-	7498.364	17	3.5-	2.5	3.5-	2.5	1.115	1.320	.204	1.110	1.321*	211	126	119	5903.4645		
2	16934.088	2	22652.035	-	5717.976	29			3.5-	3.5				1.185	1.596	411		155	5903.6127		
2	16933.715	3	28941.215	-	12007.503	3	2.5-	1.5	2.5-	1.5			.990	0.968	0.019	987		233	5903.7427		
1	15931.292	2	9724.351	-	26655.622	21			3.0-	3.0				0.442	1.015	573	-176	-178	5904.5876		
	16930.632	0																	5904.8177		
	16930.522	0																	5904.8561		
1	18930.307	0	31272.205	-	14341.947	49			2.0-	2.0				1.173	0.852	321		162	5904.9311		
	16929.926	0																	5905.0640		
	16929.554	0																	5905.1937		
	16929.010	0																	5905.3835		
	16927.972	1																	5905.7456		
1	16925.493	1	15424.387	-	32349.853	27			3.0-	2.0				1.106	0.000*	0	-331		5906.6106		
1	13924.635	0	34497.235	-	17572.608	8			3.0-	2.0				1.070	0.555*	515	-273	-271	5906.9101		
	13922.695	2																	5907.5872		
2	16920.881	0	21048.190	-	37969.065	6			2.5-	2.5				1.030	0.832*	198	-208	-281	5908.2206		
	16919.234	0																	5908.7782		
	16919.019	0																	5908.8708		
2	16918.538	0	25556.740	-	8638.233	31			4.5-	5.5				0.976	1.514	538			5909.0388		
2	16917.957	1	14295.565	-	31213.510	12	3.5-	3.5	3.5-	3.5	.81	1.07	.26	0.790	1.045	255	-121	-124	5909.2417		
1	16916.737	0	20697.436	-	37614.165	10			7.0-	6.0				1.250	1.190	60		-199	5909.6672		
	16915.326	0																	5909.8115		
1	16915.032	3	14025.007	-	30940.068	21	4.0-	5.0	4.0-	5.0	.980	1.085	.105	0.975	1.080	105	-078	-90	5910.2461		
2	16909.648	3	32398.160	-	15488.530	18	2.5-	3.5	2.5-	3.5	1.31	1.08	.23	1.308	1.057	251	493	493*	5912.1454		
1	16908.650	0	16304.260	-	33212.897	13			4.0-	4.0				1.285	1.110*	175	-181	-173	5912.4943		
1	16908.511	0	14912.011	-	31820.494	28			4.0-	4.0				0.496	1.240	744		-138	5912.5430		
1	16907.707	2	18997.584	-	35805.270	21	5.0-	5.0	5.0-	5.0	1.255	1.05	.205	1.280	1.075	205	-148	-150	5912.8241		
1	16903.520	4	9386.801	-	26290.302	19	5.0-	5.0	5.0-	5.0	.81	1.13	.32	0.801	1.125	324	-365	-370	5914.2887		
1	16901.904	1	15074.958	-	31976.844	18			7.0-	7.0	1.09	1.09		1.097	1.095	2	-172	-173	5914.8542		
1	16897.695	2	16520.962	-	33418.637	20	5.0-	5.0	5.0-	5.0	.75	.88	.134	0.736	0.872	136		-53	5916.3275		
	16893.589	2									1.28	1.28							5917.7655		
1	16892.460	8	11840.715	-	28733.159	16	3.0-	4.0	3.0-	4.0	.814	1.035	.221	0.811	1.035	224	-107	-106	5918.1610		
2	16889.012	3	24387.360	-	7498.364	16	1.5-	2.5	1.5-	2.5	.93	1.30	.37	0.955	1.321	366	285	290	5919.3693		
2	16887.310	0	14561.607	-	31448.910	7			1.5-	2.5				1.149	0.800	349		-387	5919.9659		
2	16886.868	2	28686.100	-	11799.241	9	5.5-	5.5	5.5-	5.5	1.27	1.37	.100	1.290	1.373*	83	104	99	5920.1208		
	16885.903	0																	5920.4591		
	16881.482	0																	5922.0096		
	16880.834	0																	5922.2194		
2	16879.813	5	28887.310	-	12007.503	6	0.5-	1.5	0.5-	1.5	.16	-0.022	.18	0.162	0.019	181	326	327	5922.5952		
1	16879.265	1	14853.317	-	31732.582	0	4.0-	5.0	4.0-	5.0			.274	0.786	1.049	263	-128	-153	5922.7875		
	16878.331	0																	5923.1152		
	16875.622	3									.98		1.20					-250		5924.0660	fdJ02JD6
1	16875.158	1	17045.776	-	33920.944	-10			1.0-	2.0				1.474	1.040*	434	059	70	5924.2289		
	16873.933	1																	5924.6573		
	16872.482	0																	5925.1685		
	16871.774	0																	5925.4172		
1	16870.699	6	19074.292	-	2203.606	13			2.0-	1.0	1.530	1.495	.035	1.532	1.495	37		-18	5925.7948		
1	16870.346	6	24344.996	-	7774.653	3	3.0-	4.0	3.0-	4.0	1.23	1.48	.25	1.195	1.463	268	68	77	5925.9187	IS*	
1	16869.620	0	16883.909	-	33758.523	6			6.0-	5.0				1.098	0.830	268		-245	5926.1738		
1	16868.801	0	18297.584	-	35766.380	5			5.0-	4.0				1.280	1.055	225		-153	5926.4615		
	16868.461	0																	5926.5810		
1	16865.147	0	16734.151	-	33599.280	18			2.0-	2.0				0.928	1.606	678		-275	5927.7455		

C	HAVE	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	16864.	398	3	15074.958-31939.345	11		7.0-	6.0	7.0-	6.0	1.09	1.19	.10	1.097	1.200*	103	-350	-343	5928.0088		
1	16862.	564	1	16334.379-33696.921	22		.	.	5.0-	6.0	.	.	.	0.961	1.100*	139		-47	5928.6536		
1	16859.	846	0	12322.613-29132.445	14		.	.	2.0-	1.0	.	.	.	1.036	0.000*	0		-192	5929.6093		
1	16859.	651	0	19059.958-35919.595	14		.	.	5.0-	5.0	.	.	.	1.375	1.120*	255		-90	5929.6779		
	16858.	301	0							5930.1528	
1	16854.	568	1	20769.512-37624.090	-10		.	.	2.0-	3.0	.	.	.	1.070	1.150*	80		73	5931.4662		
1	16854.	324	2	6313.866-23168.176	14		4.0-	5.0	4.0-	5.0	.	.	.620	0.487	1.115	628	-177	-175	5931.5521		
1	16853.	796	0	34751.714-17897.917	-1		.	.	4.0-	3.0	.	.	.	1.146	0.450	696		-307	5931.7379		
1	16852.	800	4	12351.522-29204.308	14		6.0-	5.0	6.0-	5.0	.98	.89	.10	0.995	0.896	99	-227	-221	5932.0885		
2	16850.	434	5	34013.940-17163.470	14		3.5-	4.5	3.5-	4.5	1.17	1.25	.08	1.121	1.200	79	352	351	5932.9038		
1	16849.	272	0	37521.550-20672.283	5		.	.	3.0-	2.0	.	.	.	1.315	1.430*	115			5933.3306		
1	16848.	771	0	17500.977-34349.740	8		.	.	1.0-	1.0	.	.	.	2.258	0.810*	1448		-119	5933.5070		
1	16846.	511	3	11747.245-28593.749	7		.	.	0.0-	1.0	0.000	1.705	.	0.000	1.713	0	-372	-370	5934.3030		
2	16844.	379	1	32332.915-15488.530	-6		.	.	4.5-	3.5	.	.	.	1.100	1.057*	43		216	5935.0541		
	16842.	961	0							5935.5538	
1	16842.	176	0	35494.450-18652.287	13		.	.	4.0-	3.0	.	.	.	1.098	0.822	276		-68	5935.8305		
2	16841.	383	1	31274.745-14433.351	-11		2.5-	1.5	2.5-	1.5	1.200	1.925	.725	1.200	1.925*	725	323	323*	5936.1099		
2	16839.	940	2	22341.990-5502.060	10		.	.	0.5-	1.5	.	.	.	1.370	1.169	201		104	5936.6186		
	16838.	944	3				050			5936.9698	
1	16838.	637	7	24613.274-7774.653	16		5.0-	4.0	5.0-	4.0	1.158	1.463	.305	1.160	1.463	303		-24	5937.0780		
1	16838.	400	6	22982.904-6144.515	11		2.0-	3.0	2.0-	3.0	1.24	1.46	.22	1.257	1.473	216	139	119	5937.1616		
	16837.	249	0							5937.5674	
	16837.	096	0							5937.6214	
2	16836.	336	0	37012.210-20175.895	21		.	.	4.5-	3.5	.	.	.	1.164	1.515	351		360	5937.8894	C2	
1	16836.	336	0	23895.741-40732.070	7		.	.	2.0-	2.0	.	.	.	-0.100	1.040*	1140			5937.8894	C2	
2	16836.	201	0	36663.170-19827.020	51		.	.	1.5-	1.5	.	.	.	1.635	1.733	98			5937.9370		
1	16835.	398	0	20984.195-37819.580	13*		.	.	6.0-	7.0	.	.	.	1.319	1.110*	209		-138	5938.2203		
2	16834.	900	1	29197.755-46032.640	15		.	.	2.5-	1.5	.	.	.	0.989	0.000*	0			5938.3959		
2	16828.	265	0	26070.615-9242.356	6		.	.	3.5-	3.5	.	.	.	1.119	1.369	250		58	5940.7373		
2	16822.	596	1	31255.945-14433.351	2		1.5-	1.5	1.5-	1.5	.922	1.925	1003	0.921	1.925	1004		275	5942.7393		
	16822.	019	0							5942.9431	
2	16820.	968	0	20056.725-3235.770	13		.	.	0.5-	0.5	.	.	.	0.047	0.299	252		154	5943.3145		
2	16818.	659	1	38109.990-21291.350	19		3.5-	4.5	3.5-	4.5	.	.	.490	1.105	1.590	485	340	340*	5944.1304		
1	16815.	576	8	6313.866-23129.429	13		4.0-	5.0	4.0-	5.0	.486	1.168	.682	0.487	1.168	681	-355	-358	5945.2202		
1	16806.	405	1H	20769.512-37575.920	-3*		.	.	2.0-	2.0	.	.	.	1.070	1.220*	150		0	5948.4645		
	16805.	359	3							5948.8347	SO
	16804.	487	0H							5949.1434	VHAZY
	16800.	503	0							5950.5542	
1	16800.	105	0	16520.962-33321.067	0		.	.	5.0-	5.0	.	.	.	0.736	1.200*	464		24	5950.6952		
	16798.	632	3				4.0-	3.0			1.295	1.546	.251							5951.2170	SO HAZY
2	16797.	850	0	31231.210-14433.351	-9		.	.	0.5-	1.5	.	.	.	0.860	1.925*	1065		293*	5951.4940		
1	16795.	376	7	25974.634-9179.262	4		6.0-	5.0	6.0-	5.0	1.37	1.46	.085	1.370	1.454*	84	-016	-11	5952.3707	IS*	
1	16795.	015	4	15249.635-32044.652	-2		.	.	2.0-	1.0	.	.	.	0.715	0.800	85		-172	5952.4986	2LNS	
1	16795.	015	4	12177.963-28972.971	7		1.0-	2.0	1.0-	2.0	.55	.80	.25	0.525	0.794	269	-203	-203	5952.4986	2LNS	
2	16794.	895	3	28302.375-12007.503	23		0.5-	1.5	0.5-	1.5	.81	-0.02	.83	0.800	-0.019	819		625	5952.5412		
1	16794.	575	0	14292.176-31086.744	7		.	.	5.0-	5.0	.	.	.	0.970	0.795	175		-34	5952.6546		
1	16794.	257	0	33070.573-16276.332	16		.	.	2.0-	2.0	.	.	.	0.673	1.880*	1207		43	5952.7673		
1	16789.	953	2	14025.007-30814.939	21		.	.	4.0-	5.0	.	.	.	0.975	1.111	136	-224	-228	5954.2933		
	16789.	022	1H							5954.6234	HAZY
1	16788.	000	0	34093.140-17305.142	2		.	.	3.0-	2.0	.	.	.	1.053	0.000*	0		-62	5954.9859		
	16787.	392	0							5955.2016	
1	16786.	485	0H	15424.337-32210.885	-13		.	.	3.0-	4.0	.	.	.	1.106	0.995	111		-94	5955.5234		
1	16784.	846	2	16304.250-33089.092	14		.	.	4.0-	5.0	.	.	.	1.285	1.069	216	-282	-293	5956.1049		
1	16784.	723	2	30462.625-13677.903	1		.	.	1.0-	1.0	.	.	.	1.250	1.442	192		50	5956.1486		
	16783.	823	0							5956.4680	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	16783.200	1																			
1	16782.903	2	17554.704	-	34337.597	10	.	.	8.0-	7.0	.	.	.	1.170	1.340*	170	-383	-349	5956.6891		
	16781.415	1																	5956.7945		
	16780.430	1																	5957.3227		
	16774.044	1H															293		5957.6546		
1	16771.468	0	33047.830	-	16276.332	-30	.	.	1.0-	2.0	.	.	.	1.207	1.880*	673	258	255	5959.9405	HAZY	
1	16768.916	3	16520.962	-	33289.869	9	5.0-	5.0	5.0-	5.0	.	.	.358	0.736	1.095	359	051	80	5960.8560		
2	16766.935	0	36942.795	-	20175.895	35	.	.	2.5-	3.5	.	.	.	1.040	1.515	475			5961.7631		
2	16766.256	1	33052.825	-	16286.582	13	0.5-	0.5	0.5-	0.5	1.242	-0.122	1364	1.242	-0.122	1364	326	326*	5962.4675		
	16765.172	0																	5962.7090		
2	16764.361	4	35525.910	-	18761.580	31	4.5-	5.5	4.5-	5.5	1.18	1.28	.10	1.176	1.296	120	349	346*	5963.0945		
2	16763.115	0	17532.937	-	34296.050	2	.	.	3.5-	4.5	.	.	.	1.238	0.768	470			5963.3830		
1	16762.637	0	34527.915	-	17765.281	3	.	.	2.0-	3.0	.	.	.	1.310	1.680*	370		122*	5963.8263		
1	16762.208	0	19265.603	-	36627.825	-14	.	.	4.0-	4.0	.	.	.	1.100	0.980	120		-173	5963.9963		
1	16761.549	0	15249.635	-	32011.173	11	.	.	2.0-	3.0	.	.	.	0.715	1.140*	425		-185	5964.1490		
1	16759.031	0	17911.977	-	34670.995	13	.	.	5.0-	5.0	.	.	.	1.145	1.010*	135		-215	5964.3835		
1	16758.772	0	18046.108	-	34804.860	20	.	.	4.0-	4.0	.	.	.	0.694	0.941	247		-66	5965.2796		
1	16758.378	0	22509.712	-	39268.050	40	.	.	5.0-	4.0	.	.	.	1.287	1.140*	147			5965.3718		
	16758.126	0																	5965.5120		
	16756.840	0																	5965.6017		
2	16755.340	0	16499.640	-	33254.995	-15	.	.	3.5-	3.5	.	.	.	0.773	0.975	202		-282	5966.0596		
1	16754.591	0	14025.007	-	30779.585	13	.	.	4.0-	3.0	.	.	.	0.975	0.860	115		-192	5966.5937		
1	16754.161	0	36061.589	-	19307.447	19	.	.	5.0-	4.0	.	.	.	1.167	0.000*	0		-35	5966.8604		
1	16751.730	2	9724.351	-	26476.068	13	3.0-	4.0	3.0-	4.0	.455	1.610	1155	0.442	1.605	1163		-391	5967.0136		
1	16747.431	1	36090.717	-	19343.298	12	.	.	4.0-	3.0	.	.	.	1.227	1.135	92		290	5967.8795		
1	16746.691	2	12159.465	-	28906.150	6	.	.	4.0-	5.0	.	.	.	0.844	1.105	261		-226	5969.4114		
1	16745.327	1	19059.953	-	35305.270	15	.	.	5.0-	5.0	.	.	.	1.375	1.075	300		-150	5969.6752		
1	16744.543	6	22889.053	-	6144.515	5	4.0-	3.0	4.0-	3.0	1.26	1.47	.21	1.263	1.473	210	132	141	5970.1615		
1	16736.578	1B	20877.600	-	37614.165	13	.	.	7.0-	6.0	.	.	.	1.060	1.190*	130		26	5970.4410		
1	16736.578	1B	16834.379	-	33570.935	22	.	.	5.0-	4.0	.	.	.	0.961	1.130*	169		-150	5973.2824	C2	
2	16736.457	1B	13192.903	-	29929.355	5	.	.	2.5-	2.5	.	.	.	0.372	1.280*	908		-210	5973.2824	C2	
1	16734.845	3	15249.635	-	31984.470	10	2.0-	3.0	2.0-	3.0	.74	1.12	.38	0.715	1.090	375		-085	5973.3256		
1	16734.263	0	17615.482	-	34349.740	5	.	.	2.0-	1.0	.	.	.	1.450	0.810*	640		-192	5973.9010		
1	16733.092	1	22837.092	-	39570.175	9	.	.	3.0-	2.0	.	.	.	1.110	1.150*	40		-195	5974.1087		
1	16731.606	4	21031.258	-	4299.659	7	.	.	2.0-	2.0	1.45	1.48	.03	1.455	1.482	27		-119	5974.5268		
1	16730.775	2	22176.323	-	38907.115	-17	.	.	1.0-	2.0	.	.	.	1.210	1.135*	75			5975.0575		
	16730.565	0																	5975.3542		
1	16729.386	1	16304.260	-	33033.638	8	.	.	4.0-	3.0	.	.	.	1.285	0.910	375		-271	5975.4292		
2	16727.162	0	39976.890	-	23249.745	17	.	.	3.5-	4.5	.	.	.	1.170	1.475	305		286*	5975.8504		
1	16725.647	3	12322.613	-	29048.255	5	.	.	2.0-	1.0	.	.	.	1.036	0.900	136		-269	5976.6449		
1	16725.161	6	9724.351	-	26449.501	11	3.0-	3.0	3.0-	3.0	.45	.95	.50	0.442	0.940*	498		-271	5977.1863		
1	16724.678	0	23100.837	-	39825.550	15	.	.	3.0-	4.0	.	.	.	1.520	1.030	490		99	5977.3599	PB	
2	16721.882	5	32210.400	-	15483.530	12	2.5-	3.5	2.5-	3.5	1.33	1.07	.26	1.339	1.057	282	315	316	5977.5326		
1	16720.841	8	11840.715	-	28561.548	8	.	.	3.0-	2.0	.805	.785	.020	0.811	0.784	27		-171	5978.5321		
2	16720.582	4	25962.945	-	9242.356	-7	.	.	4.5-	3.5	.	.	.	1.065	1.369	304		172	5978.9043		
	16720.325	2																	5978.9969		
2	16719.249	5	20689.110	-	3969.846	-15	3.5-	2.5	3.5-	2.5	1.27	1.68	.41	1.270	1.670*	400	155	152	5979.0888		
	16718.957	1																	5979.4736		
2	16718.071	2	36545.045	-	19827.020	46	.	.	2.5-	1.5	.	.	.	1.330	1.733	403	378	378	5979.5780		
	16717.344	1																	5979.8949		
	16716.156	1																	5980.1550		
	16714.823	0																	5980.5800		
1	16714.062	3	16155.109	-	32859.165	6	.	.	5.0-	5.0	.	.	.	0.948	0.916	32		-250	5981.0569		
	16713.584	2																	5981.3293		
2	16713.443	3	33876.910	-	17163.470	3	.	.	3.5-	4.5	.	.	.	1.043	1.200	157		465*	5981.5003		
																			5981.5508		

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	G6	G2	G1	G6	IS	IS			
		16712.930	0																	5981.7165		
1		16712.678	0	21227.793	-	37940.455	16	.	.	4.0-	3.0	.	.	.	1.346	1.170*	176		-140	5981.8246		
		16711.230	3																	5982.3429	2 LINES	
1		16711.230	3	19426.512	-	36137.730	12	.	.	3.0-	2.0	.	.	.	1.435	1.525	90	-185	-185	5982.3429	2 LINES	
1		16708.423	9	6313.866	-	23022.274	15	4.0-	5.0	4.0-	5.0	.484	.814	.330	0.487	0.817	330	-214	-217	5983.3479		
1		16706.760	7	9724.351	-	26431.101	10	.	.	3.0-	3.0	.40	.81	.	0.442	0.807	365	-254	-255	5983.9435	PB	
1		16706.008	0	18597.584	-	35603.582	10	.	.	5.0-	6.0	.	.	.	1.280	1.070*	210		-183	5984.2129		
1		16704.576	0H	31046.528	-	14341.947	-5	.	.	2.0-	2.0	.	.	.	1.480	0.852*	628		149	5984.7259		
		16704.416	1																	5984.7832		
1		16702.278	2H	16155.109	-	32857.357	30	.	.	5.0-	6.0	.	.	.	0.948	1.101	153		-205	5985.5493		
1		16699.942	0	32445.590	-	15745.648	0	.	.	4.0-	3.0	.	.	.	1.125	1.145	20	258	258	5986.3866		
1		16698.532	1	13517.647	-	30216.163	16	.	.	2.0-	2.0	.	.	.	0.892	1.143	251	-208	-209	5986.8921		
2		16697.942	0	30381.705	-	47079.610	37	.	.	3.5-	2.5	.	.	.	1.109	0.960*	149			5987.1036		
2		16695.794	3	8198.666	-	24894.460	0	2.5-	3.5	2.5-	3.5	.415	.740	.325	0.414	0.740	326	-493	-495	5987.8739		
1		16688.678	1H	14763.705	-	31452.362	21	.	.	1.0-	1.0	.	.	.	-0.066	0.852	918	-084	-85	5990.4271		
1		16686.995	3	13517.647	-	30204.635	7	2.0-	1.0	2.0-	1.0	.890	.590	.300	0.892	0.590*	302	-196	-196	5991.0313		
2		16685.608	3	39185.820	-	22500.225	13	5.5-	5.5	5.5-	5.5	1.315	1.555	.240	1.313	1.555	242	257	256*	5991.5293		
1		16683.111	4	9724.351	-	26467.449	13	.	.	3.0-	2.0	.	.	.	0.442	0.972	530		-201	5992.4261		
1		16682.518	5	14853.317	-	31535.835	0	4.0-	5.0	4.0-	5.0	.	.	.225	0.786	1.020	234		-225	5992.6391	SI	
1		16681.987	6	24456.635	-	7774.653	5	3.0-	4.0	3.0-	4.0	1.02	1.49	.47	1.000	1.463*	463	-020	-7	5992.8299	IS*	
1		16681.640	2	18672.411	-	35354.050	1	.	.	6.0-	7.0	.	.	.	1.190	0.000*	0	-155	-149	5992.9545		
		16680.554	2																	5993.3447		
		16677.125	1																	5994.5770		
1		16675.081	8	12159.465	-	28834.535	11	4.0-	5.0	4.0-	5.0	.842	.976	.134	0.844	0.978	134	-157	-156	5995.3118		
		16674.273	0																	5995.6023		
1		16674.014	0	18046.108	-	34720.110	12	.	.	4.0-	4.0	.	.	.	0.694	1.030	336	-254	-259	5995.6955		
		16672.442	1																	5996.2608		
		16671.042	1																	160	5996.7644	
1		16668.414	4	13726.661	-	30395.062	13	3.0-	4.0	3.0-	4.0	1.15	.92	.23	1.150	0.920	230	-191	-192	5997.7098	DJ1	
1		16668.183	2	34240.784	-	17572.608	7	.	.	3.0-	2.0	.	.	.	1.067	0.555	512		126	5997.7930	C2	
2		16668.183	2	26405.340	-	43073.510	13	.	.	3.5-	4.5	.	.	.	0.852	0.950*	98		-16*	5997.7930	C2	
1		16664.655	2	16304.260	-	32968.906	9	.	.	4.0-	4.0	.	.	.	1.285	1.115	170		-206	5999.0627		
1		16663.144	9	24437.792	-	7774.653	5	4.0-	4.0	4.0-	4.0	1.50	1.46	.045	1.500	1.463*	37	107	109	5999.6067		
2		16662.334	1	31095.675	-	14433.351	10	.	.	2.5-	1.5	.	.	.	1.170	1.925*	755		339	5999.8984		
		16662.198	2																	5999.9474		
1		16660.657	9	25839.917	-	9179.262	2	6.0-	5.0	6.0-	5.0	1.250	1.455	.205	1.250	1.454	204	053	59	6000.5023		
1		16659.590	2	15249.635	-	31909.212	13	.	.	2.0-	1.0	.	.	.	0.715	0.888	173		-71	6000.8866		
		16658.717	0																	6001.2011		
1		16656.249	5	11840.715	-	28496.950	14	.	.	3.0-	4.0	.81	.81	.	0.811	0.810	1	-200	-199	6002.0903		
2		16655.380	3	30381.705	-	13726.318	-7	3.5-	2.5	3.5-	2.5	1.110	.780	.330	1.109	0.784	325	228	255	6002.4035		
2		16654.770	1	36977.120	-	20322.349	-1	.	.	5.5-	6.5	.	.	.	1.125	1.314	189		284*	6002.6233		
2		16652.051	0	39152.255	-	22500.225	21	.	.	4.5-	5.5	.	.	.	1.187	1.555	368			6003.6035		
1		16651.929	0	19236.116	-	35888.025	20	.	.	7.0-	7.0	.	.	.	1.155	1.050*	105		-74	6003.6475		
1		16651.628	0	20306.482	-	36958.090	20*	.	.	4.0-	5.0	.	.	.	1.123	1.000	123		-257	6003.7560		
1		16650.368	6	12322.613	-	28972.971	10	2.0-	2.0	2.0-	2.0	1.04	.81	.23	1.036	0.794	242	-214	-207	6004.2103		
1		16646.674	2	13726.661	-	30373.329	6	.	.	3.0-	4.0	.	.	.	1.150	1.345	195	-320	-313	6005.5427		
2		16644.201	5	33389.920	-	16745.720	1	1.5-	2.5	1.5-	2.5	.927	1.658	.730	0.943	1.671	728	251	253	6006.4350		
1		16642.777	3	14025.007	-	30667.769	15	.	.	4.0-	4.0	.	.	.	0.975	1.265	290	-284	-280	6006.9490		
1		16642.075	1	15424.387	-	32066.452	10	.	.	3.0-	2.0	.	.	.	1.106	0.910*	196		-251	6007.2023		
2		16641.344	7	18656.277	-	2014.966	33	.	.	1.5-	1.5	.	.	.	0.000	1.881*	0	147	162	6007.4662	2LNS PB	
1		16641.344	4	19496.402	-	36137.730	16	.	.	3.0-	2.0	.	.	.	1.555	1.525	30		-298	6007.4662	2LNS	
		16641.085	1																	6007.5597		
1		16639.415	4	14737.788	-	31377.193	10	3.0-	4.0	3.0-	4.0	.82	.98	.158	0.815	0.973	158	-198	-197	6008.1627		
1		16637.906	1	15406.760	-	32044.652	14	1.0-	1.0	1.0-	1.0	.890	.790	.100	0.890	0.800	90		-101	6008.7076		
		16635.005	1H																	6009.7555		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	16632.871	2	30974.813	-	14341.947	5	3.0-	2.0	3.0-	2.0	1.05	.85	.20	1.050	0.852*	198	301	295	6010.5265	
	16632.244	0																	6010.7531	
	16629.938	0																	6011.5866	
2	16627.089	1	39127.295	-	22500.225	19	.	.	5.5-	5.5	.	.	.	1.179	1.555	376		337*	6012.6167	
1	16626.645	9	9724.351	-	26350.982	14	3.0-	4.0	3.0-	4.0	.445	.797	.352	0.442	0.796	354	-139	-140	6012.7772	
2	16624.722	2	35386.270	-	18761.580	32	.	.	4.5-	5.5	.	.	.	1.100	1.296	196	376	375	6013.4728	
1	16623.491	0	20990.684	-	37614.165	10	.	.	5.0-	6.0	.	.	.	1.308	1.190	118		-186	6013.9181	
	16623.147	0																	6014.0425	
	16622.325	0																	6014.3399	
	16621.829	0																	6014.5194	
	16621.271	0																	6014.7213	
2	16620.808	0	36943.155	-	20322.349	2	.	.	6.5-	6.5	.	.	.	1.098	1.314	216		224*	6014.8889	
	16619.894	1															-160		6015.2197	
1	16617.796	3	16595.109	-	33212.897	8	3.0-	4.0	3.0-	4.0	1.00	1.11	.11	0.999	1.110*	111	-129	-130	6015.9791	
1	16616.316	2	13517.647	-	30133.953	10	2.0-	3.0	2.0-	3.0	.	.	.325	0.892	1.200*	308	-259	-259	6016.5149	
	16616.029	0																	6016.6189	
	16615.214	0																	6016.9140	
	16614.220	0																	6017.2740	
	16611.888	3					5.5-	4.5			1.405	1.115	.290				227		6018.1187	
2	16609.649	4	36931.980	-	20322.349	18	5.5-	6.5	5.5-	6.5	1.20	1.31	.11	1.214	1.314	100	507	508	6018.9299	
	16603.297	0																	6021.2327	
	16603.112	0																	6021.2997	
1	16502.601	0	18346.917	-	34949.520	-2	.	.	2.0-	2.0	.	.	.	1.518	1.085	433		-103	6021.4851	
1	16600.357	0	16155.109	-	32755.472	-6	.	.	5.0-	4.0	.	.	.	0.948	1.005	57		-316	6022.2991	
1	16598.499	0	14853.317	-	31451.814	2	.	.	4.0-	4.0	.	.	.	0.786	1.080	294		-66	6022.9732	
	16596.940	1																	6023.5389	
	16596.739	1																	6023.6119	
	16595.966	0																	6023.8925	
2	16593.390	1	33756.860	-	17163.470	0	.	.	3.5-	4.5	.	.	.	1.272	1.200	72	257	255	6024.8276	
1	16593.055	2	15424.387	-	32017.434	8	.	.	3.0-	4.0	.	.	.	1.106	1.020*	86	-236	-239	6024.9493	
	16592.567	0																	6025.1265	
1	16591.538	2	13726.661	-	30318.195	4	3.0-	2.0	3.0-	2.0	1.145	.930	.215	1.150	0.940	210	-228	-229	6025.5001	
1	16587.802	1	13726.661	-	30314.443	20	.	.	3.0-	3.0	.	.	.	1.150	1.140*	10	-304	-301	6026.8573	
1	16586.787	3	15424.387	-	32011.173	1	.	.	3.0-	3.0	1.10	1.14	.04	1.106	1.140*	34	-174	-178	6027.2261	
1	16585.132	6	12177.963	-	28763.085	10	1.0-	0.0	1.0-	0.0	.52	.000		0.525	0.000	0	-245	-245	6027.8275	
2	16580.184	1	33619.660	-	17039.487	11	.	.	0.5-	1.5	.	.	.	1.470	1.354	116	360	344	6029.6264	
	16578.507	2															322		6030.2363	
1	16575.443	7	22719.949	-	6144.515	9	4.0-	3.0	4.0-	3.0	1.065	1.475	.410	1.070	1.473	403	-047	-48	6031.3510	
1	16573.696	4	12159.465	-	28733.159	2	.	.	4.0-	4.0	.	.	.	0.844	1.035	191	-091	-105	6031.9868	
	16573.384	0																	6032.1004	
1	16572.894	7	26811.368	-	10238.473	-1	7.0-	6.0	7.0-	6.0	1.16	1.42	.26	1.180	1.431*	251	040	39	6032.2787	
1	16568.135	1	16520.952	-	33089.092	5	.	.	5.0-	5.0	.	.	.	0.736	1.069	333		-75	6034.0114	
2	16566.664	0	31000.010	-	14433.351	5	.	.	1.5-	1.5	.	.	.	1.669	1.925	256	333	349	6034.5472	
1	16564.912	0	16304.260	-	32869.165	7	.	.	4.0-	5.0	.	.	.	1.285	0.916	369	-262	-254	6035.1855	
	16562.110	0															333		6036.2065	
	16555.464	0															-142		6038.6297	
1	16554.629	2	12351.522	-	28906.150	1	.	.	6.0-	5.0	.	.	.	0.995	1.105	110		-229	6038.9343	
1	16553.677	7	15074.958	-	31628.619	16	.	.	7.0-	6.0	1.09	1.11	.017	1.097	1.110	13	-148	-158	6039.2816	
1	16553.513	4	17045.776	-	33599.280	9	1.0-	2.0	1.0-	2.0	1.475	1.605	.130	1.474	1.606	132		-15	6039.3414	
	16551.343	0															290		6040.1314	
1	16550.806	3	10486.922	-	27037.718	10	1.0-	2.0	1.0-	2.0	.35	1.30	.95	0.355	1.300*	945	-323	-327	6040.3292	
1	16544.675	1	21031.258	-	37575.920	13*	2.0-	2.0	2.0-	2.0	1.45	1.21	.24	1.455	1.220*	235		28	6042.5676	
	16541.516	2																	6043.7216	
1	16540.779	1	17615.482	-	34156.245	16	.	.	2.0-	1.0	.	.	.	1.450	1.305	145	-266	-263	6043.9909	
2	16540.638	1	27266.960	-	10726.322	0	.	.	3.5-	4.5	.	.	.	1.155	1.391	236		119	6044.0424	

C	HAVEI	NUMBER	I	T2	-	T1	O-C	OBS J2	CDS - J1	TERM J2	TERM - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
		16539.857	1																		6044.3278	
2		16536.884	2	22038.950	-	5502.060	-6	0.5-	1.5	0.5-	1.5	.36	1.18	.82	0.344	1.169	825	-057	-77	6045.4145		
2		16533.188	0	21048.190	-	37581.395	-17	.	.	2.5-	3.5	.	.	.	1.030	0.748*	282		-91	6046.7659		
1		16532.012	0	19236.116	-	35763.160	-32	.	.	7.0-	8.0	.	.	.	1.155	1.120*	35		-187	6047.1961		
		16529.707	0																		6048.0393	
1		16525.609	0	8768.139	-	25293.751	-3	.	.	2.0-	3.0	.	.	.	0.362	0.965	603	-230		6049.5391		
		16525.232	0																		6049.6771	
1		16523.876	2	14853.317	-	31377.193	0	.	.	4.0-	4.0	.	.	.	0.786	0.973	187		-123	6050.1736		
2		16523.562	6	28322.800	-	11799.241	3	6.5-	5.5	6.5-	5.5	1.443	1.373	.070	1.443	1.373	70	164	165	6050.2886		
		16523.247	1																		6050.4039	
1		16522.615	2	17081.874	-	33604.497	-8	.	.	4.0-	3.0	.	.	.	1.217	1.210	7		-180	6050.6353		
1		16522.265	2	22666.777	-	6144.515	3	.	.	3.0-	3.0	.	.	.	0.977	1.473	496	154	138	6050.7635		
1		16521.385	4	19872.154	-	36393.534	5	.	.	9.0-	10.0	1.20	1.15	.05	1.199	1.150*	49	-196	-196	6051.0858		
1		16517.649	0	32263.305	-	15745.648	-8	.	.	4.0-	3.0	.	.	.	1.158	1.145	13		158	6052.4545		
		16515.774	1																		6053.1416	
		16515.278	0																		6053.3234	
1		16515.031	2H	16595.109	-	33110.165	-25	.	.	3.0-	4.0	.	.	.	0.999	1.220*	221		-218	6053.4139		
		16512.424	3																		6054.3697	
		16512.079	3																		6054.4962	
		16511.742	0																		6054.6197	
		16511.431	2																		6054.7338	
		16511.171	1																		6054.8291	
		16510.970	0																		6054.9028	
1		16510.027	0	18578.669	-	35088.705	-9	.	.	1.0-	1.0	.	.	.	1.932	1.380	552			6055.2487		
1		16507.678	7	8768.139	-	25275.795	22	2.0-	1.0	2.0-	1.0	.36	.70	.34	0.362	0.706	344		-39	6056.1103	PB	
1		16506.455	0	20709.458	-	37215.900	13	.	.	3.0-	4.0	.	.	.	1.240	1.485	245		-26	6056.5590		
		16503.084	0																		6057.7962	
		16502.818	0																		6057.8938	
1		16502.458	0	15406.760	-	31909.212	6	.	.	1.0-	1.0	.	.	.	0.890	0.888	2		0	6058.0260		
1		16498.738	4	13517.647	-	30016.377	8	2.0-	2.0	2.0-	2.0	.90	1.14	.24	0.892	1.140	248	-315	-315	6059.3919		
		16497.785	0																		6059.7419	
1		16497.418	0	18672.411	-	35169.790	39	.	.	6.0-	6.0	.	.	.	1.190	1.120*	70		-242	6059.8767		
1		16496.729	0	17045.776	-	33542.506	-1	.	.	1.0-	2.0	.	.	.	1.474	1.123	351		33	6060.1298		
2		16496.412	6	17295.905	-	33793.295	22	4.5-	4.5	4.5-	4.5	.49	.80	.31	0.494	0.800	306		-34	6060.2463		
2		16494.695	0	29809.915	-	46304.535	25	.	.	3.5-	2.5	.	.	.	1.068	0.980*	88			6060.8771		
1		16494.471	0	39623.901	-	23129.429	-1	.	.	6.0-	5.0	.	.	.	1.140	1.168*	28		60	6060.9594		
1		16493.810	0	23100.887	-	39594.680	17*	.	.	3.0-	4.0	.	.	.	1.520	1.070	450		228	6061.2023		
		16493.619	0																		6061.2725	
1		16490.877	6	17554.704	-	34045.560	21	8.0-	7.0	8.0-	7.0	1.173	1.175	.002	1.170	1.170*	0	-169	-168	6062.2804		
1		16489.514	2	13726.661	-	30216.163	12	.	.	3.0-	2.0	1.15	1.15		1.150	1.143	7	-203	-222	6062.7815		
		16488.627	0																		6063.1076	
1		16487.237	2	19872.154	-	36359.387	4	.	.	9.0-	8.0	.	.	.	1.199	1.185	14	-209	-221	6063.6188		
1		16484.908	0	20306.482	-	36791.330	10	.	.	4.0-	5.0	.	.	.	1.123	1.025	98			6064.4755		
1		16483.723	5	25662.969	-	9179.262	16	5.0-	5.0	5.0-	5.0	1.33	1.45	.12	1.330	1.454*	124	134	135	6064.9115		
1		16483.032	6	12351.522	-	28334.535	19	.	.	6.0-	5.0	.980	.980		0.995	0.978	17	-156	-162	6065.1657		
1		16481.252	5	9724.351	-	26205.589	14	3.0-	3.0	3.0-	3.0	.44	.70	.26	0.442	0.701	259	-190	-192	6065.8208		
1		16472.075	4	14292.176	-	30764.244	7	.	.	5.0-	6.0	.975	.980	.005	0.970	0.975	5	-218	-228	6069.2002		
1		16471.198	0	12322.613	-	23793.800	11	.	.	2.0-	3.0	.	.	.	1.036	1.083	47	-296	-294	6069.5234		
1		16469.866	4	20769.512	-	4299.659	13	2.0-	2.0	2.0-	2.0	1.07	1.48	.41	1.070	1.482*	412	-092	-100	6070.0142		
		16465.011	2C																		6071.8041	
1		16457.652	6	25636.914	-	9179.262	10	6.0-	5.0	6.0-	5.0	1.332	1.451	.119	1.335	1.454	119	-047	-48	6074.5154		
1		16454.680	5	11840.715	-	28295.330	15	3.0-	4.0	3.0-	4.0	.81	1.16	.35	0.811	1.155	344	-180	-183	6075.6163		
1		16448.901	2H	22719.717	-	39168.610	8	.	.	9.0-	9.0	1.18	1.18		1.200	1.190*	10	-263	-264	6077.7509		
		16446.568	0																		6078.6130	
2		16443.894	2	33189.610	-	16745.720	4	2.5-	2.5	2.5-	2.5	1.12	1.67	.55	1.121	1.671	550	-072	246	6079.6015		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	16440.550	5	8768.139	-	25208.672	17	2.0	2.0	2.0	2.0	.365	.490	.125	0.362	0.490	128		-43	6080.8381	
1	16436.812	1	16532.104	-	32968.906	10	.	.	3.0	4.0	.	.	.	0.300	1.115	815		8	6082.2210	
1	16436.403	6	14025.007	-	30461.399	11	.	.	4.0	5.0	.98	.99	.	0.975	0.990	15	-199	-199	6082.3723	
	16419.221	0																	6083.7373	
2	16414.298	0	28421.805	-	12007.503	-4	.	.	2.5	1.5	.	.	.	0.878	0.019	897		262	6090.5635	
1	16409.813	7	20709.458	-	4299.659	14	3.0	2.0	3.0	2.0	1.241	1.483	.242	1.240	1.482	242	-060	-44	6092.2281	ISQ
1	16407.735	3	19074.292	-	35482.018	9	.	.	2.0	3.0	.	.	.	1.532	1.679	147	-096	-110	6092.9997	
1	16407.305	3	13726.661	-	30133.953	13	3.0	3.0	3.0	3.0	.	.	.04	1.150	1.200*	50	-279	-272	6093.1594	
1	16404.260	2	13517.647	-	29921.899	8	2.0	2.0	2.0	2.0	.89	1.07	.18	0.892	1.070*	178	-265	-267	6094.2904	
	16398.793	0																	6096.3221	
2	16396.775	0	19632.555	-	3235.770	-10	.	.	1.5	0.5	.	.	.	1.010	0.299*	711		160*	6097.0724	
1	16396.145	0H	15424.387	-	31820.494	38	.	.	3.0	4.0	.	.	.	1.106	1.240	134	-306	-303	6097.3067	
	16394.125	0															217		6098.0580	
1	16392.701	3	8768.139	-	25160.827	13	2.0	3.0	2.0	3.0	.36	.80	.44	0.362	0.800	438		-16	6098.5877	
1	16388.354	0	30066.252	-	13677.903	5	.	.	1.0	1.0	.	.	.	0.476	1.442	966		-127	6100.2054	
1	16387.498	7	9385.801	-	25774.288	11	5.0	6.0	5.0	6.0	.802	.916	.114	0.801	0.915	114	-186	-189	6100.5240	
2	16385.716	0	30102.315	-	46488.000	31	.	.	2.5	2.5	.	.	.	1.158	1.000*	158			6101.1875	
1	16384.626	0	16828.909	-	33273.528	7	.	.	6.0	7.0	.	.	.	1.098	1.070*	28		-227	6101.5934	
1	16383.589	0	12177.963	-	28561.548	4	.	.	1.0	2.0	.	.	.	0.525	0.784	259		-168	6101.9796	
1	16382.731	1	17081.874	-	33464.592	13	.	.	4.0	4.0	.	.	.	1.217	0.000*	0	-248	-245	6102.2992	
	16379.543	0															-537		6103.4869	
	16379.377	0																	6103.5487	
2	16377.314	1	17073.340	-	33450.655	-1	1.5	2.5	1.5	2.5	.576	.938	.362	0.576	0.941	365	-122	-122	6104.3176	
1	16374.716	6	24149.361	-	7774.653	8	5.0	4.0	5.0	4.0	1.268	1.469	.201	1.262	1.463	201		-3	6105.2861	
1	16373.807	3	22518.312	-	6144.515	10	2.0	3.0	2.0	3.0	1.348	1.473	.125	1.350	1.473	123		-53	6105.6251	
2	16371.773	1	25614.115	-	9242.356	14	.	.	3.5	3.5	.	.	.	1.480	1.369*	111	140	146	6106.3836	
1	16370.153	1	20306.482	-	36676.620	15	.	.	4.0	4.0	.	.	.	1.123	1.150*	27	-357	-343	6106.9879	
2	16369.196	0	36545.045	-	20175.895	46	.	.	2.5	3.5	.	.	.	1.330	1.515	185		371	6107.3449	
2	16368.901	0	33532.385	-	17163.470	-14	.	.	5.5	4.5	.	.	.	1.341	1.200	141		303	6107.4550	
	16365.628	0																	6108.6765	
2	16361.606	2	30794.930	-	14433.351	27	.	.	1.5	1.5	.	.	.	1.084	1.925	841	278	278	6110.1781	
	16361.417	0																	6110.2487	
2	16359.250	1	28158.490	-	11799.241	1	.	.	5.5	5.5	.	.	.	1.140	1.373*	233	130	130	6111.0581	
1	16357.640	5	8768.139	-	25125.763	16	.	.	2.0	1.0	.36	.31	.05	0.362	0.314	48		-30	6111.6596	
	16355.094	3					3.5	2.5			1.37	1.19	.18						6112.6110	2LNS
1	16355.094	3	20654.712	-	4299.659	41	1.0	2.0	1.0	2.0	.21	1.49	1.28	0.200	1.482	1282		-77	6112.6110	2LNS
1	16352.448	1	18046.108	-	34398.550	6	.	.	4.0	4.0	.	.	.	0.694	0.870*	176		11	6113.6001	
2	16350.438	0C	33389.920	-	17039.487	5	.	.	1.5	1.5	.	.	.	0.943	1.354	411	253	253	6114.3516	
1	16350.009	1	10486.922	-	26836.911	20	.	.	1.0	2.0	.	.	.	0.355	1.260*	905	-302	-297	6114.5121	
1	16348.227	1	16520.962	-	32869.165	24	.	.	5.0	5.0	.	.	.	0.736	0.916	180		-36	6115.1786	
2	16347.331	1	26535.775	-	10188.463	19	0.5	0.5	0.5	0.5	-0.08	2.40	2.48	-0.071	2.402	2473		41*	6115.5138	
1	16341.380	1	17045.776	-	33387.151	5	.	.	1.0	2.0	.	.	.	1.474	1.288	186		-18	6117.7408	
1	16340.853	2	16304.260	-	32645.106	17	.	.	4.0	5.0	.	.	.	1.285	1.135	150	-256	-256	6117.9344	
1	16337.510	7	12159.465	-	28496.950	25	.	.	4.0	4.0	.	.	.	0.844	0.810	34	-200	-198	6119.1900	
1	16336.880	9	26575.338	-	10238.473	15	7.0	6.0	7.0	6.0	1.17	1.43	.26	1.150	1.431*	281	62	59	6119.4260	
1	16336.413	1	16520.962	-	32857.357	18	.	.	5.0	6.0	.	.	.	0.736	1.101	365		9	6119.6009	
	16331.251	1																	6121.5352	
2	16326.540	2	21828.590	-	5502.060	10	2.5	1.5	2.5	1.5	.	.	.197	0.990	1.169*	179		345	6123.3016	
	16326.265	2																	6123.4048	
1	16321.875	2C	33627.017	-	17305.142	0	.	.	2.0	2.0	.	.	.	1.304	0.000*	0		-9	6125.0517	C2
2	16321.875	2C	20291.630	-	3969.846	41	1.5	2.5	1.5	2.5	.	.	.298	1.377	1.670	293	139	142	6125.0517	C2
1	16316.528	6	24091.173	-	7774.653	8	3.0	4.0	3.0	4.0	1.25	1.46	.21	1.245	1.463	218	-102	-112	6127.0590	
2	16314.382	1	29717.090	-	46031.465	7	.	.	2.5	2.5	.	.	.	1.014	0.800*	214			6127.8649	C2 HAZY
2	16314.382	1	25556.740	-	9242.356	-2	.	.	4.5	3.5	.	.	.	0.976	1.369	393			6127.8649	C2 HAZY
1	16314.139	6	17554.704	-	33368.834	9	8.0	9.0	8.0	9.0	1.170	1.165	.005	1.170	1.165*	5	-258	-253	6127.9562	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	16312.213	1																	6128.6797	
1	16311.974	0	33284.565-17572.608		17	.	.	1.0-	2.0	.	.	.	.	1.040	0.555*	485			6128.7695	
	16310.443	0																	6129.3448	
1	16305.314	0	19074.292-35379.603		3	.	.	2.0-	3.0	.	.	.	.	1.532	1.165	367		-30	6131.2729	
1	16304.421	1	14737.788-31042.204		5	.	.	3.0-	3.0	.	.	.	.	0.815	1.010	195		-86	6131.6087	
1	16304.160	1	15406.760-31710.912		8	.	.	1.0-	2.0	.	.	.	.	0.890	0.200	690		-474	6131.7069	
1	16303.971	2	18502.505-34906.470		6	6.0-	5.0	6.0-	5.0	.910	.915	.005	.	0.910	0.925	15		50	6131.7780	
2	16294.089	2	30727.440-14433.351		0	1.5-	1.5	1.5-	1.5	1.207	1.925	.718	.	1.208	1.925	717		319	6135.4968	
2	16293.592	4	33457.050-17163.470		12	3.5-	4.5	3.5-	4.5	.993	1.198	.205	.	1.002	1.200	198	225	227	6135.6839	
1	16289.731	0	13726.661-30016.377		15	.	.	3.0-	2.0	.	.	.	.	1.150	1.140	10		-328	6137.1382	
1	16289.440	0	14025.007-30314.443		4	.	.	4.0-	3.0	.	.	.	.	0.975	1.140*	165		-300	6137.2479	
1	16289.179	0	18963.921-35253.102		-2	.	.	4.0-	5.0	.	.	.	.	1.251	1.110*	141		-268	6137.3462	
1	16288.896	0	16520.962-32809.844		14	.	.	5.0-	4.0	.	.	.	.	0.736	0.900	164		-6	6137.4528	
1	16285.712	2	16155.109-32440.827		-6	.	.	5.0-	6.0	.	.	.	.	0.948	1.120*	172		-240	6138.6528	
1	16285.484	8	22429.984- 6144.515		15	4.0-	3.0	4.0-	3.0	1.280	1.474	.194	.	1.279	1.473	194		-39	6138.7387	
	16285.004	0																-248	6138.9196	
	16281.773	1																	6140.1379	
1	16278.623	0	19203.415-35482.018		20	.	.	2.0-	3.0	.	.	.	.	1.021	1.679	658		-283	6141.3260	
1	16277.788	5	26516.261-10238.473		0	5.0-	6.0	5.0-	6.0	1.20	1.43	.232	.	1.200	1.431*	231	40	47	6141.6411	IS*
1	16277.096	0	14737.788-31014.877		7	.	.	3.0-	4.0	.	.	.	.	0.815	1.170	355		-135	6141.9022	
2	16274.024	1	21991.980- 5717.976		20	.	.	2.5-	3.5	.	.	.	.	1.344	1.596	252	127	139	6143.0616	
	16273.661	1																	6143.1986	
2	16273.430	0	30031.180-46304.585		25	.	.	3.5-	2.5	.	.	.	.	1.250	0.980*	270			6143.2858	C2
2	16273.430	0	33019.160-16745.720		-10	.	.	3.5-	2.5	.	.	.	.	1.160	1.671	511		288	6143.2858	C2
1	16272.483	4	22416.990- 6144.515		13	2.0-	3.0	2.0-	3.0	1.68	1.48	.20	.	1.675	1.473	202	-061	-61	6143.6414	
	16271.786	0																	6143.9065	
2	16271.534	2	32558.100-16286.582		16	0.5-	0.5	0.5-	0.5	.	.	1.48	.	1.370	-0.122*	1492		364	6144.0016	
2	16271.215	0	36593.540-20322.349		24	.	.	5.5-	6.5	.	.	.	.	1.145	1.314	169		224*	6144.1221	
2	16266.515	2	35028.065-18761.580		30	4.5-	5.5	4.5-	5.5	1.144	1.285	.141	.	1.144	1.296	152	464	464	6145.8974	
2	16264.711	0	37807.135-21542.435		11	.	.	3.5-	2.5	.	.	.	.	1.090	1.279*	189		218*	6146.5791	
	16263.221	0																	6147.1422	
	16262.802	0																	6147.3006	
	16260.936	0																	6148.0060	
1	16259.979	0	22837.092-39097.075		-4	.	.	3.0-	3.0	.	.	.	.	1.110	1.345*	235			6148.3679	
1	16258.627	1	17045.776-33304.400		3	1.0-	0.0	1.0-	0.0	1.480	0.000		.	1.474	0.000	0		-41	6148.8791	
1	16254.723	1	16834.379-33089.092		10	.	.	5.0-	5.0	.	.	.	.	0.961	1.069	108		-274	6150.3560	
2	16252.528	3H	28259.990-12007.503		41	1.5-	1.5	1.5-	1.5	1.28	-0.01	1.29	.	1.263	-0.019	1282		459	6151.1866	HAZY
1	16249.389	4	13726.661-29976.039		11	3.0-	4.0	3.0-	4.0	1.150	1.065	.085	.	1.150	1.070	80		-176	6152.3749	
2	16248.806	0	32994.525-16745.720		1	.	.	1.5-	2.5	.	.	.	.	1.110	1.671	561			6152.5956	
1	16243.406	1C	22719.949-38968.370		-15	.	.	4.0-	5.0	.	.	.	.	1.070	1.065	5			6152.7471	C2
1	16248.406	1C	22509.712-38758.100		18	.	.	5.0-	5.0	.	.	.	.	1.287	1.530	243		-233	6152.7471	C2
	16247.793	3P								1.265	1.265								6152.9792	
1	16242.731	2	32519.048-16276.332		15	2.0-	2.0	2.0-	2.0	.88	1.88	1.00	.	0.880	1.880*	1000	127	127	6154.8968	
1	16240.472	6	20540.110- 4299.659		21	3.0-	2.0	3.0-	2.0	.83	1.48	.65	.	0.830	1.482*	652	-047	-48	6155.7529	IS*
1	16239.199	3	17081.874-33321.067		6	.	.	4.0-	5.0	1.21	1.20	.01	.	1.217	1.200*	17		-183	6156.2355	
1	16233.955	2	12322.613-29561.548		20	.	.	2.0-	2.0	.	.	.	.	1.036	0.784	252		-172	6156.3280	
1	16233.423	2	14353.317-31036.744		1	.	.	4.0-	5.0	.81	.81		.	0.786	0.795	9		39	6158.4241	
	16232.633	1H																	6158.7257	HAZY
2	16225.755	2	29952.065-13726.318		8	1.5-	2.5	1.5-	2.5	1.18	.79	.39	.	1.184	0.784	400	306	301	6161.3363	
	16223.350	0																	6162.2497	
	16223.018	2																-176	6162.3758	DJO
	16221.905	1																-366	6162.7986	
	16219.387	0																	6163.7554	
1	16218.928	4	9386.801-25605.707		22	5.0-	4.0	5.0-	4.0	.80	1.16	.36	.	0.801	1.160	359	-179	-184	6163.9298	
2	16218.442	0	32544.185-48762.625		2	.	.	3.5-	3.5	.	.	.	.	1.130	0.820*	310			6164.1146	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	16218.000	0	27798.430-44016.500	-20	.	.	3.5- 4.5	.	.	.	.	.	1.060	1.050*	10	.	.	6164.2825	
2	16217.654	1	33381.120-17163.470	4	.	.	5.5- 4.5	.	.	.	.	.	1.152	1.200	48	401	.	6164.4141	
	16212.548	0			.	.		.	.	.	.	.				284	.	6166.3555	
	13211.361	1			.	.		.	.	.	.	.					.	6166.8070	
	16207.657	0			.	.		.	.	.	.	.					.	6168.2164	
1	16205.655	OH	18046.103-34251.764	-1	.	.	4.0- 4.0	.	.	.	.	.	0.694	1.005	311	0	.	6168.9784	
1	16205.644	3	26443.910-10238.473	7	6.0-	6.0	6.0- 6.0	.	.	.	.386	.	1.045	1.431	336	134	138	6169.0587	
2	16203.282	2	34964.825-18761.580	37	.	.	4.5- 5.5	.	.	.	.	.	1.122	1.296	174	346	346	6169.8818	
1	16202.949	0	30544.891-14341.947	5	.	.	3.0- 2.0	.	.	.	.	.	0.958	0.852	106	.	159	6170.0086	
1	16202.001	1	31947.617-15745.648	32	.	.	3.0- 3.0	.	.	.	.	.	1.250	1.145	105	154	161	6170.3696	
2	16200.334	2	33363.790-17163.470	14	.	.	3.5- 4.5	.	.	.	.	.	1.078	1.200	122	306	306	6171.0046	
1	16200.118	2	19281.917-35432.018	17	.	.	2.0- 3.0	.	.	.	.	.	1.822	1.679	143	-290	-289	6171.0869	
	16195.612	0			.	.		.	.	.	.	.						6172.8038	
1	16193.456	0	14763.705-30957.140	21	.	.	1.0- 2.0	.	.	.	.	.	-0.066	0.980	1046		-225	6173.6257	
1	16192.715	5	25371.962- 9179.262	15	6.0-	5.0	6.0- 5.0	1.165	1.460	.295	.	.	1.165	1.454	289		-46	6173.9082	
	16190.783	OH			.	.		.	.	.	.	.						6174.6449	
1	16187.346	5	25959.849- 9772.532	29	1.0-	0.0	1.0- 0.0	1.03	.000	.	.	.	1.037	0.000	0	-040	-42	6175.9560	IS*
1	16186.636	7	12351.522-28538.138	20	6.0-	7.0	6.0- 7.0	.98	1.05	.07	.	.	0.995	1.060	65	-194	-191	6176.2269	
2	16185.706	2	24823.940- 8638.233	-1	.	.	5.5- 5.5	.	.	.	.	.	0.000	1.514*	0	.	151	6176.5817	
1	16185.426	4	14025.007-30210.416	17	4.0-	4.0	4.0- 4.0	.97	1.16	.19	.	.	0.975	1.160*	185	-253	-253	6176.6886	
1	16185.097	0	15074.953-31260.046	9	.	.	7.0- 6.0	.	.	.	.	.	1.097	1.210*	113		-388	6176.8141	
1	16174.749	4	14912.011-31086.744	16	4.0-	5.0	4.0- 5.0	.49	.79	.30	.	.	0.496	0.795	299	160	136	6180.7659	
2	16171.899	1H	39421.670-23249.745	-26	.	.	4.5- 4.5	.	.	.	.	.	1.100	1.475	375			6181.8551	
2	16168.876	0	33332.350-17163.470	-4	.	.	4.5- 4.5	.	.	.	.	.	1.072	1.200	128		294*	6183.0109	
2	16168.360	6	21670.405- 5502.060	15	1.5-	1.5	1.5- 1.5	2.34	1.18	1.16	.	.	2.328	1.169	1159	158	155	6183.2083	
	16168.081	0			.	.		.	.	.	.	.						6183.3150	
	16167.397	1			.	.		.	.	.	.	.						6183.5766	
1	16167.171	1	23100.887-39268.050	8	.	.	3.0- 4.0	.	.	.	.	.	1.520	1.140*	380			6183.6630	
	16166.696	1			.	.		.	.	.	.	.						6183.8447	
1	16165.866	6	15406.760-31572.610	16	1.0-	1.0	1.0- 1.0	.90	2.40	1.50	.	.	0.890	2.403	1513	-134	-143	6184.1622	
	16165.142	0			.	.		.	.	.	.	.						6184.4392	
1	16163.606	1	15249.635-31413.230	11	.	.	2.0- 3.0	.	.	.	.	.	0.715	0.742	27	-139	-134	6185.0269	
	16162.334	3			.	.		.	.	.	.	.						6185.5136	
1	16161.576	1	14853.317-31014.877	16	.	.	4.0- 4.0	.	.	.	.	.	0.786	1.170	384		-61	6185.8037	
2	16161.307	6	25403.645- 9242.356	18	2.5-	3.5	2.5- 3.5	1.030	1.372	.342	.	.	1.029	1.369	340		54	6185.9067	2LNS
2	16161.307	8	19397.055- 3235.770	22	0.5-	0.5	0.5- 0.5	3.34	.296	3.04	.	.	3.328	0.299	3029	150	151	6185.9067	2LNS
1	16158.045	0	22666.777-38324.820	2	.	.	3.0- 3.0	.	.	.	.	.	0.977	0.832	145		-146	6187.1555	C2
1	16153.045	0	18602.505-34760.532	18	.	.	6.0- 6.0	.	.	.	.	.	0.910	1.140*	230		58	6187.1555	C2
2	16157.430	0	30590.765-14433.351	16	.	.	2.5- 1.5	.	.	.	.	.	0.900	1.925	1025		378*	6187.3910	
2	16155.493	0	32607.135-48762.625	3	.	.	4.5- 3.5	.	.	.	.	.	1.047	0.820*	227			6188.1329	
1	16154.943	0	21420.983-37575.920	6*	.	.	3.0- 2.0	.	.	.	.	.	1.663	1.220*	443		-82	6188.3436	
2	16153.635	1	29879.945-13726.318	8	.	.	2.5- 2.5	.	.	.	.	.	1.026	0.784	242	391	382	6188.8447	
1	16152.579	0	21600.100-37752.690	-11	.	.	6.0- 6.0	.	.	.	.	.	1.390	1.110*	280		-227	6189.2493	
2	16151.313	3	20121.145- 3959.846	14	2.5-	2.5	2.5- 2.5	.71	1.67	.96	.	.	0.710	1.670*	960	149	147	6189.7344	
1	16150.134	1C	23763.470-39913.605	-1	.	.	4.0- 3.0	.	.	.	.	.	0.970	1.075*	105			6190.1863	2 LNS
2	16150.134	1C	33189.610-17039.487	11	.	.	2.5- 1.5	.	.	.	.	.	1.121	1.354	233	245	246	6190.1863	2LNS
1	16149.890	1C	16155.109-32304.979	20	.	.	5.0- 4.0	.	.	.	.	.	0.948	0.990*	42		-300	6190.2798	2LNS
	16149.890	1C			.	.		.	.	.	.	.						6190.2798	2LNS
1	16144.501	0	16155.109-32299.581	29	.	.	5.0- 5.0	.	.	.	.	.	0.948	0.000*	0		-256	6192.3461	
1	16143.324	9R	18346.917- 2203.606	13	.	.	2.0- 1.0	1.52	1.50	.02	.	.	1.518	1.495	23	077	79	6192.7976	
1	16143.198	7	15074.958-31218.105	51	7.0-	8.0	7.0- 8.0	1.097	1.046	.049	.	.	1.097	1.155	58	-204	-204	6192.8459	SIGMA*
1	16138.015	3	14737.728-30875.798	5	.	.	3.0- 4.0	.	.	.	.	.	0.815	1.080*	265		-273	6194.8349	
2	16137.623	0	18152.580- 2014.966	9	.	.	0.5- 1.5	.	.	.	.	.	-0.510	1.881*	2391		142	6194.9854	
1	16136.943	1	16532.104-32669.040	7	.	.	3.0- 3.0	.	.	.	.	.	0.300	1.000*	700		22	6195.2464	
1	16135.912	2	12159.465-28295.380	-3	.	.	4.0- 4.0	.	.	.	.	.	0.844	1.155	311		-182	6195.6423	

C	WAVENUMBER	I	T2	-	T1	O-C	OSS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	16135.664	3	14025.007-30160.664			7	. . .		4.0- 4.0					0.975	1.030	55	-200	-183	6195.7375	
1	16134.928	8	23909.585- 7774.653			-4	5.0- 4.0		5.0- 4.0		1.23	1.45	.22	1.242	1.463	221	063	67	6196.0201	
	16132.634	2																	6196.9012	
1	16132.097	0	16734.151-32866.230			18	. . .		2.0- 1.0					0.928	0.320*	608		-268	6197.1075	C2
1	16132.097	0	11840.715-27972.815			-3	. . .		3.0- 4.0					0.811	0.979	168		-81	6197.1075	C2
1	16130.206	0	14912.011-31042.204			13	. . .		4.0- 3.0					0.496	1.010	514		85	6197.8340	
	16129.781	1																	6197.9973	
1	16127.806	0	13517.647-29645.433			20	2.0- 1.0		2.0- 1.0				.180	0.892	0.705	187		-289	6198.7563	
1	16126.067	2	20425.711- 4299.659			15	. . .		1.0- 2.0					1.340	1.482	142	-060	-73	6199.4248	
1	16125.811	0	21263.339-37389.145			5	. . .		5.0- 6.0					0.610	1.085*	475		117	6199.5232	
1	16123.139	5	15449.472-31572.610			1	0.0- 1.0		0.0- 1.0		.000	2.41		0.000	2.403	0	092	110	6200.5506	HAZY
1	16121.159	1	16834.379-32955.538			0	. . .		5.0- 6.0					0.961	1.265	304	-300	-300	6201.3122	
2	16116.112	3	25358.470- 8242.356			-2	4.5- 3.5		4.5- 3.5		1.443	1.382	.061	1.443	1.369	74	178	161	6203.2542	
2	16115.370	1	36437.710-20322.349			9	. . .		5.5- 6.5					1.137	1.314	177		363	6203.5398	
	16114.091	0																	6204.0322	
2	16112.917	0	34630.775-18517.872			14	. . .		1.5- 0.5					1.198	2.755	1557		397*	6204.4843	
	16112.119	0																	6204.7916	
1	16111.130	0	19776.904-35888.025			9	. . .		6.0- 7.0					1.012	1.050*	38		-70	6205.1724	
	16110.116	0																	6205.5630	
1	16109.849	0	19059.958-35169.790			17	. . .		5.0- 6.0					1.375	1.120*	255		-246	6205.6659	
1	16108.947	2	14025.007-30133.953			1	4.0- 3.0		4.0- 3.0		.980	1.205	.225	0.975	1.200*	225		-271	6206.0133	
	16108.183	2											.15						6206.3077	SI DGG
1	16104.936	0	14292.176-30397.106			6	. . .		5.0- 5.0					0.970	1.005	35		-112	6207.5590	
	16104.267	1H																	6207.8169	
2	16103.152	2	28110.650-12007.503			5	1.5- 1.5		1.5- 1.5		.907-0.018	.925		0.899-0.019	918	356	347	6208.2467		
1	16100.071	1	33405.200-17305.142			13	. . .		2.0- 2.0					1.272	0.000*	0		-47	6209.4348	
1	16099.429	1	24091.173-40190.580			22	. . .		3.0- 2.0					1.245	0.920	325			6209.6824	C2
1	16099.429	1	34751.714-18652.287			2	. . .		4.0- 3.0					1.146	0.822	324		-128	6209.6824	C2
1	16098.299	3	17500.977-33599.280			-4	1.0- 2.0		1.0- 2.0		2.26	1.60	.66	2.258	1.606	652	-153	-153	6210.1183	
2	16096.999	1	20952.550-37049.535			14	. . .		1.5- 2.5					0.350	0.730	380		60	6210.6198	
2	16095.672	1	32841.375-16745.720			17	. . .		1.5- 2.5					1.234	1.671	437	204	211	6211.1318	
2	16091.861	1	34757.860-18666.006			7	. . .		3.5- 2.5					1.202	1.365	163		277	6212.6028	
	16089.487	0																	6213.5195	
1	16088.387	1	20521.579-36609.933			-17	. . .		6.0- 7.0					1.246	1.195	51	-213	-224	6213.9443	
1	16088.125	0	12672.411-34760.532			4	. . .		6.0- 6.0					1.190	1.140*	50		-173	6214.0455	C2
1	16083.125	0	33853.410-17765.281			-4	. . .		3.0- 3.0					1.021	1.680*	659		194	6214.0455	C2
2	16087.883	0	30104.835-46192.700			18	. . .		3.5- 3.5					1.159	0.950	209			6214.1390	
1	16087.708	0	16155.109-32242.810			7	. . .		5.0- 5.0					0.948	1.215	267		-312	6214.2066	C2
1	16087.708	0	20540.110-36627.825			-7	. . .		3.0- 4.0					0.830	0.980*	150		57	6214.2066	C2
1	16036.756	2	14853.317-30940.068			5	. . .		4.0- 5.0					0.786	1.080	294	-11	-15	6214.5743	
1	16035.672	7	20385.328- 4299.659			3	2.0- 2.0		2.0- 2.0		1.92	1.48	.44	1.911	1.482	429	-069	-70	6214.9931	IS*
2	16083.580	1	29809.915-13726.318			-17	. . .		3.5- 2.5					1.068	0.784	284		271*	6215.8015	C2
1	16083.580	1	34710.860-18627.281			1	. . .		2.0- 1.0					1.170	0.000*	0			6215.8015	C2
1	16082.967	0	18346.917-34429.910			-26	. . .		2.0- 3.0					1.518	0.910	608		-103	6216.0385	
2	16082.565	0H	37373.930-21291.350			-15	. . .		4.5- 4.5					1.175	1.590	415			6216.1938	
2	16080.026	0H	21359.050-37439.105			-29	. . .		2.5- 3.5					1.254	0.926	328		-260*	6217.1754	
1	16077.952	1H	36017.000-19939.052			4	. . .		4.0- 3.0					1.090	0.000*	0		200	6217.9774	
1	16076.921	1	33853.410-17776.483			-6	. . .		3.0- 2.0					1.021	0.565	456		-48	6218.3761	
1	16075.681	2	33380.841-17305.142			-18	. . .		1.0- 2.0					1.810	0.000*	0		-119*	6218.8558	
2	16075.062	3	32820.775-16745.720			7	2.5- 2.5		2.5- 2.5		1.314	1.673	.359	1.315	1.671	356	227	229	6219.0953	
1	16073.935	1	16595.109-32669.040			4	. . .		3.0- 3.0					0.999	1.000*	1		-149	6219.5313	
	16072.931	1																	6219.9198	
1	16072.193	1C	24012.505-40034.697			1	. . .		6.0- 6.0					1.248	1.510	262	-216	-214	6220.2054	
1	16059.754	1	20540.110-36609.850			14	. . .		3.0- 2.0					0.830	1.025*	195		-43	6221.1495	
1	16069.365	1	18897.534-34966.946			3	. . .		5.0- 4.0					1.280	1.025	255		-303	6221.3001	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	IS	IS			
1	16068.502	2	18602.505-34670.995			12	.	.	6.0-	5.0	.	.	.	0.910	1.010*	100		16	6221.6342		
1	16064.792	4	15406.760-31471.542			10	1.0-	1.0	1.0-	1.0	.89	2.20	1.31	0.890	2.188	1298		-43	6223.0711		
1	16053.264	1	26301.732-10233.473			5	.	.	5.0-	6.0	.	.	.	1.060	1.431*	371		-17	6223.6630		
1	16051.281	1	18046.108-34107.378			11	.	.	4.0-	3.0	.	.	.	0.694	1.160*	466		1	6224.4314		
1	16060.532	0	33825.820-17765.281			-7	.	.	2.0-	3.0	.	.	.	1.104	1.680*	576	192	192	6224.7217		
1	16058.573	1	34710.860-18652.287			0	.	.	2.0-	3.0	.	.	.	1.170	0.822	348			6225.4811		
1	16053.102	4	14025.007-30083.102			7	.	.	4.0-	5.0	.98	1.15	.17	0.975	1.150*	175	-213	-214	6225.6637		
1	16056.246	3C	16520.962-32577.204			4	.	.	5.0-	4.0	.	.	.	0.736	0.980*	244		-66	6226.3834		
1	16055.785	3	16155.109-32210.885			9	.	.	5.0-	4.0	.	.	.	0.948	0.995	47		-101	6226.5621		
1	16055.517	6	19426.512-35482.018			11	3.0-	3.0	3.0-	3.0	1.44	1.69	.25	1.435	1.679	244	-203	-210	6226.6661	HAZY	
1	16055.053	3	29732.950-13577.903			-2	.	.	1.0-	1.0	.	.	.	1.289	1.442	153		-55	6226.8452		
1	16052.337	2	15355.883-31909.212			13	1.0-	1.0	1.0-	1.0	1.10	.88	.22	1.103	0.888	215		-12	6227.8996		
1	16050.972	1	20385.328-36436.294			6	.	.	2.0-	3.0	.	.	.	1.911	1.095	816		60	6228.4292		
	16047.703	0											6229.6961	
1	16046.896	2	14025.007-30071.890			13	.	.	4.0-	5.0	.	.	.	0.975	1.290*	315	-304	-304	6230.0113		
1	16045.034	6	26283.495-10238.473			12	7.0-	6.0	7.0-	6.0	1.09	1.44	.35	1.080	1.431	351	-076	-72	6230.7343		
1	16041.803	3	14737.788-30779.585			6	.	.	3.0-	3.0	.82	.86	.04	0.815	0.860	45	-188	-189	6231.9892		
1	16041.542	3	17500.977-33542.506			13	.	.	1.0-	2.0	.	.	.	2.258	1.123	1135		-105	6232.0906		
2	16040.300	2	23538.650-7498.364			14	.	.	3.5-	2.5	.	.	.	1.470	1.321*	149	175	173	6232.5732		
1	16038.198	4	12322.613-28360.802			9	.	.	2.0-	3.0	.	.	.	1.036	0.887	149	-123	-129	6233.3900		
1	16037.524	7	22182.030-6144.515			9	2.0-	3.0	2.0-	3.0	1.26	1.46	.20	1.295	1.473	178	-125	-128	6233.6520	PB	
1	16037.085	2	13517.647-29554.716			16	.	.	2.0-	3.0	.	.	.	0.892	0.831	61		-176	6233.8227		
1	16036.385	2	15249.635-31286.029			-9	2.0-	2.0	2.0-	2.0	.715	1.283	.568	0.715	1.280	565	-087	-97	6234.0948		
1	16035.520	1	33340.653-17305.142			9	.	.	2.0-	2.0	.	.	.	0.690	0.000*	0	-101	-95	6234.4311		
1	16034.821	0	20877.600-36912.410			11	.	.	7.0-	7.0	.	.	.	1.060	0.000*	0		32	6234.7028		
2	16034.341	0	30727.440-14693.090			-9	.	.	1.5-	0.5	.	.	.	1.208	0.840	368		61*	6234.8895		
	16033.463	0											6235.2309	
1	16029.900	3	25209.162-9179.262			0	5.0-	5.0	5.0-	5.0	1.14	1.46	.32	1.140	1.454*	314	147	146	6236.6168		
	16029.344	0											6236.8332	
2	16029.111	0	26755.425-10726.322			8	.	.	4.5-	4.5	.	.	.	1.200	1.391*	191		150	6236.9238		
2	16028.765	3	27828.005-11799.241			1	.	.	4.5-	5.5	.	.	.	1.410	1.373*	37	100	106	6237.0585		
2	16028.271	0	31516.780-15488.530			21	.	.	2.5-	3.5	.	.	.	1.215	1.057	158			6237.2507		
1	16027.444	0	15424.387-31451.814			17	.	.	3.0-	4.0	.	.	.	1.106	1.080	26		-134	6237.5725		
2	16027.152	1	36203.035-20175.895			12	.	.	4.5-	3.5	.	.	.	0.983	1.515	532			6237.6862		
1	16026.844	0	25113.744-41140.580			8	.	.	6.0-	7.0	.	.	.	1.302	1.470	168		-65	6237.8060		
	16025.149	2											6238.4658	
2	16024.940	1	20073.840-36098.770			10	.	.	5.5-	4.5	.	.	.	0.790	1.029*	239		241	6238.5472		
2	16023.484	2	37942.885-21919.400			-1	.	.	6.5-	7.5	.	.	.	1.097	1.345	248			6239.1141		
1	16022.983	4	16834.379-32857.357			5	5.0-	6.0	5.0-	6.0	.965	1.105	.138	0.961	1.101	140		-183	6239.3092		
1	16022.493	3	14853.317-30875.798			12	.	.	4.0-	4.0	.	.	.	0.786	1.080*	294		-199	6239.5000		
1	16022.076	3	15449.472-31471.542			6	0.0-	1.0	0.0-	1.0	.000	2.20		0.000	2.188	0	202	210	6239.6624	HAZY	
1	16019.863	0	30361.813-14341.947			-3	.	.	2.0-	2.0	.	.	.	1.044	0.852	192		123	6240.5243		
1	16019.041	0	12159.465-28178.473			33	.	.	4.0-	3.0	.	.	.	0.844	0.000*	0		-380	6240.8445		
1	16018.298	4	17554.704-33572.999			3	8.0-	9.0	8.0-	9.0	1.17	1.16	.01	1.170	1.160*	10	-330	-330	6241.1340	SO	
1	16018.045	1	32294.378-16276.332			-1	.	.	2.0-	2.0	.	.	.	1.016	1.880*	854		170	6241.2326		
2	16010.664	2	35333.015-20322.349			-2	5.5-	6.5	5.5-	6.5	1.077	1.307	.230	1.137	1.314	177	288	289	6244.1099		
1	16007.228	1	17081.874-33089.092			10	.	.	4.0-	5.0	.	.	.	1.217	1.069	148	-284	-284	6245.4502		
	16005.583	0											6246.0921	
1	16002.885	2	15449.472-31452.362			-5	0.0-	1.0	0.0-	1.0	.000	.85		0.000	0.852	0	234	239	6247.1452		
	15999.874	0											6248.3208	
1	15995.932	2	13046.108-34042.040			0	4.0-	4.0	4.0-	4.0	.70	.81	.112	0.694	0.806	112	064	79	6249.8606		
	15991.881	1											6251.4438	
2	15990.765	2	29717.090-13726.318			-7	2.5-	2.5	2.5-	2.5	1.02	.78	.24	1.014	0.784	230			6251.8301		
1	15990.625	0	18397.584-34308.198			11	.	.	5.0-	5.0	.	.	.	1.280	1.070	210		-200	6251.9349		
1	15989.135	1	34527.915-18538.782			2	.	.	2.0-	2.0	.	.	.	1.310	1.600	290		85*	6252.5175		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	15988.817	4	23763.470-		7774.653	0	4.0-	4.0	4.0-	4.0	.98	1.48	.50	0.970	1.463*	493		39	6252.6418	
1	15988.112	3	21227.793-		37215.900	5	4.0-	4.0	4.0-	4.0	1.346	1.497	.151	1.346	1.485	139	-150	-155	6252.9176	DJO
1	15983.800	4	17615.482-		33599.280	2	2.0-	2.0	2.0-	2.0	1.46	1.62	.158	1.450	1.606	156	-227	-226	6254.6044	
1	15982.949	4	14692.549-		30675.497	1	2.0-	2.0	2.0-	2.0	.29	.38	.09	0.292	0.375	83	-185	-188	6254.9375	
1	15932.098	2	16595.109-		32577.204	3	. -	. -	3.0-	4.0	1.00	.99	.01	0.999	0.980*	19	-242	-241	6255.2705	
1	15979.224	2	31724.867-		15745.648	5	. -	. -	2.0-	3.0				1.016	1.145	129	139	138	6256.3956	
1	15977.882	5	18181.485-		2203.606	3	0.0-	1.0	0.0-	1.0	.000	1.50		0.000	1.495	0	177	181	6256.9211	
2	15974.637	3	27982.155-		12007.503	-15	2.5-	1.5	2.5-	1.5	.52	-0.015	.54	0.520	-0.019*	539	217	214	6258.1921	
	15971.100	0																	6259.5781	
	15969.583	0																	6260.1727	
1	15968.452	1	16888.909-		32857.357	4	. -	. -	6.0-	6.0	1.10	1.10		1.098	1.101	3	-205	-208	6260.6161	
	15966.524	1																	6261.3721	
1	15961.638	1	14853.317-		30814.939	16	. -	. -	4.0-	5.0				0.786	1.111	325		-153	6263.2887	
1	15958.799	1	12159.465-		28118.262	2	. -	. -	4.0-	3.0				0.844	1.250*	406		-28	6264.4030	
2	15958.090	1	17296.905-		33254.995	0	. -	. -	4.5-	3.5				0.494	0.975	481		-14	6264.6813	
1	15952.816	3	15424.387-		31377.193	10	. -	. -	3.0-	4.0				1.106	0.973	133	-193	-191	6266.7524	
1	15951.040	3	14025.007-		29976.039	8	4.0-	4.0	4.0-	4.0	.980	1.075	.095	0.975	1.070	95	-167	-171	6267.4502	
2	15948.850	2	37240.235-		21291.350	-35	3.5-	4.5	3.5-	4.5			.39	1.240	1.590	350	226	226*	6268.3108	J2535Q
1	15948.583	2	16155.109-		32103.687	5	. -	. -	5.0-	4.0				0.948	1.040	92	-182	-195	6268.4157	
	15947.943	2																	6268.6673	
	15947.584	0																	6268.8084	
1	15946.026	2	23720.664-		7774.653	15	3.0-	4.0	3.0-	4.0	.79	1.47	.68	0.790	1.463*	673		-55	6269.4209	
	15944.269	0																	6270.1118	
	15942.590	0																	6270.7721	
	15941.749	1																	6271.1029	
	15940.405	0																	6271.6317	
1	15939.655	0	19865.603-		35805.270	-12	. -	. -	4.0-	5.0				1.100	1.075	25		-137	6271.9268	
	15939.515	0																	6271.9818	
1	15938.547	0H	16304.260-		32242.810	-3	. -	. -	4.0-	5.0				1.285	1.215	70		-316	6272.3628	
1	15938.354	0	26664.150-		42602.510	-6*	. -	. -	6.0-	7.0				1.135	1.320	185			6272.4387	
1	15937.706	2	14737.728-		30675.497	-3	. -	. -	3.0-	2.0				0.815	0.375	440		-187	6272.6938	
1	15936.217	2	32212.561-		16276.332	-12	. -	. -	2.0-	2.0				1.400	1.880*	480		200	6273.2798	
	15935.705	1																	6273.4814	
1	15934.478	7	25113.744-		9179.262	-4	6.0-	5.0	6.0-	5.0	1.304	1.457	.153	1.302	1.454	152	-060	-40	6273.9645	
1	15932.095	1	18346.917-		34279.010	2	. -	. -	2.0-	1.0				1.518	1.710*	192	-217	-218	6274.9029	
2	15931.334	1	33094.805-		17163.470	-1	. -	. -	5.5-	4.5				1.050	1.200*	150		423	6275.2026	
2	15928.535	3	23426.895-		7498.364	4	2.5-	2.5	2.5-	2.5	1.335	1.318	.017	1.340	1.321	19	093	98	6276.3053	
1	15928.359	1	18578.669-		34507.044	-16	. -	. -	1.0-	1.0				1.932	1.020*	912		8	6276.3747	
	15928.027	2																	6276.5055	
1	15927.034	2	17615.482-		33542.506	10	. -	. -	2.0-	2.0				1.450	1.123	327	-172	-178	6276.8968	
1	15926.272	0	14853.317-		30779.585	4	. -	. -	4.0-	3.0				0.786	0.860	74		-115	6277.1972	
1	15924.178	1	15249.635-		31173.814	-1	2.0-	1.0	2.0-	1.0	.72	.45	.27	0.715	0.450*	265	-194	-186	6278.0226	
1	15920.531	7	10486.922-		26407.449	4	1.0-	2.0	1.0-	2.0	.350	.972	.622	0.355	0.972	617	-186	-191	6279.4608	
1	15918.242	0	14292.176-		30210.416	2	. -	. -	5.0-	4.0				0.970	1.160*	190		-251	6280.3637	
2	15917.738	1	22038.950-		37956.685	3	0.5-	1.5	0.5-	1.5	.315	.860	.545	0.344	0.904	560	188	212	6280.5626	
2	15917.119	5	26643.435-		10726.322	6	. -	. -	5.5-	4.5	1.42	1.39	.03	1.420	1.391*	29	160	159	6280.8068	
1	15915.922	0	19281.917-		35197.829	10	. -	. -	2.0-	3.0				1.822	1.080	742		-200	6281.2792	
1	15915.253	0	23705.495-		39620.765	-17	. -	. -	7.0-	6.0				1.277	0.965	312		-280	6281.5432	
	15912.985	2C					3.0-	2.0			1.01	.56	.45						6282.4385	2LNS
	15912.985	2C																	6282.4385	HAZY 2LN
	15908.598	2											.78						6284.1710	DJO 2JDG
	15907.478	1																	6284.6135	
1	15903.867	4	25083.129-		9179.262	0	5.0-	5.0	5.0-	5.0	1.15	1.45	.30	1.160	1.454*	294	174	175	6286.0404	
1	15903.245	1	21515.136-		37418.345	36	. -	. -	1.0-	2.0				1.180	0.932*	248		-135	6286.2863	
1	15902.930	1	14912.011-		30814.939	2	. -	. -	4.0-	5.0				0.496	1.111	615		-56	6286.4108	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	15902.302	2	11840.715-27743.009		8	3.0-	2.0	3.0-	2.0	.81	.57	.24	0.811	0.568	243	-	-33	6286.6590	
	15902.111	1														-170		6286.7346	
1	15900.639	1	34527.915-18627.281		5	. - .		2.0-	1.0				1.310	0.000*	0		139*	6287.3166	
1	15900.485	1	36288.610-20988.110		-15	. - .		4.0-	4.0				1.094	1.374	280	221	209*	6287.3774	
	15900.063	1																6287.5443	
1	15898.351	1	13726.661-29625.003		9	. - .		3.0-	2.0				1.150	0.910*	240		-197	6288.2214	
1	15897.953	3	18602.505-34500.445		13	. - .		6.0-	6.0				0.910	1.030	120		-10	6288.3788	
	15897.451	2														-242		6288.5774	
	15895.313	0																6289.4232	
2	15894.984	1	29521.300-13726.318		2	. - .		1.5-	2.5				1.045	0.784	261		363*	6289.5534	
2	15893.499	4	19263.335-3969.846		10	2.5-	2.5	2.5-	2.5	.93	1.67	.740	0.921	1.670	749	139	138	6290.1411	
	15892.230	3																6290.6434	
1	15892.049	3	20830.616-36722.663		2	. - .		8.0-	9.0	1.11	1.11		1.110	1.110*	0		-173	6290.7150	
2	15891.772	3	27691.000-11799.241		13	. - .		6.5-	5.5				1.160	1.373*	213		158	6290.8247	
1	15890.128	0	11747.245-27637.377		-4	. - .		0.0-	1.0				0.000	1.280	0		-231	6291.4755	
1	15888.269	6	25660.792-9772.532		9	1.0-	0.0	1.0-	0.0	1.14	.000		1.146	0.000	0	-030	-31	6292.2117	IS*
1	15887.733	1	21420.983-37308.707		9	. - .		3.0-	4.0				1.663	1.040	623		-20	6292.4239	
2	15887.553	1	45203.680-29316.115		-7	. - .		2.5-	2.5				1.150	1.140*	10			6292.4932	
	15887.140	1																6292.6588	
1	15886.179	3	17500.977-33387.151		5	1.0-	2.0	1.0-	2.0	2.27	1.29	.98	2.258	1.288	970	-157	-156	6293.0395	
2	15884.879	0M	36942.795-21057.925		9	. - .		2.5-	2.5				1.040	1.590	550			6293.5545	
1	15881.365	5	97243.554-25605.707		9	3.0-	4.0	3.0-	4.0	.456	1.167	.711	0.442	1.160	718	-177	-180	6294.9470	
	15876.642	0																6296.8197	
	15876.301	0																6296.9549	
2	15871.809	6	27879.305-12007.503		7	. - .		0.5-	1.5	.80	-0.01	.81	0.802-0.019		821	346	349	6298.7371	
	15870.932	1														251		6299.0852	
1	15870.585	1	8768.139-24638.713		11	. - .		2.0-	2.0				0.362	0.000*	0	-399	-403	6299.2229	
1	15869.868	1	15249.635-31119.494		9	. - .		2.0-	2.0				0.715	0.814	99	-232	-234	6299.5075	
1	15868.475	0	14292.176-30160.664		-13	. - .		5.0-	4.0				0.970	1.030	60	-226	-181	6300.0605	IS*
2	15867.872	0	32154.455-16286.582		-1	. - .		0.5-	0.5				1.970-0.122*2092					6300.2999	
1	15867.276	1	19776.904-35644.180		0	. - .		6.0-	7.0				1.012	1.070*	58	-164	-172	6300.5366	
1	15865.429	3	25044.687-9179.262		4	. - .		4.0-	5.0				1.210	1.454*	244	121	132	6301.2700	
1	15864.313	2	29542.214-13677.903		2	. - .		2.0-	1.0				1.298	1.442	144		-6	6301.7133	
1	15862.955	3P	18897.584-34760.532		7	. - .		5.0-	6.0				1.280	1.140*	140	-177	-177	6302.2528	
1	15861.657	1	15424.387-31286.029		15	. - .		3.0-	2.0				1.106	1.280	174	-103	-90	6302.7685	
1	15855.895	9	15856.828-0.000		7	1.0-	0.0	1.0-	0.0	1.11	.000		1.103	0.000	0	133	136	6304.6613	
2	15855.690	1	33019.160-17163.470		0	. - .		3.5-	4.5				1.160	1.200	40	290	290	6305.1405	
	15853.444	0																6306.0338	
	15853.153	0																6306.1495	
1	15851.633	2	14692.549-30544.187		-5	. - .		2.0-	3.0				0.292	0.946	654	-157	-158	6306.7542	
2	15850.564	0	36026.425-20175.895		34	. - .		2.5-	3.5				1.344	1.515	171			6307.1796	
1	15849.511	0	23720.664-39570.175		0	. - .		3.0-	2.0				0.790	1.150*	360		-20*	6307.5986	
1	15846.542	1	18046.108-33892.650		0	. - .		4.0-	3.0				0.694	1.060	366		9	6308.7804	C2
1	15846.542	1	17911.977-33758.523		-4	. - .		5.0-	5.0				1.145	0.830	315		-243	6308.7804	C2
	15845.403	1																6309.2339	
1	15844.876	1	21812.682-37657.560		-2	. - .		4.0-	3.0				1.040	1.132	92			6309.4437	
	15843.592	1																6309.9551	
1	15840.946	0	18963.921-34804.860		7	. - .		4.0-	4.0				1.251	0.941	310		-285	6311.0091	
2	15838.727	0	24659.305-40498.010		22	. - .		4.5-	4.5				1.140	0.860*	280		53*	6311.8932	
	15838.160	1														-173		6312.1192	
	15835.635	1														-046		6313.1257	
1	15832.496	5	13517.647-29350.139		4	. - .		2.0-	3.0	.89	.90	.01	0.892	0.910	18	-180	-182	6314.3774	
2	15830.254	0	29556.550-13726.318		22	. - .		1.5-	2.5				0.484	0.784	300		209	6315.2717	
	15829.608	0																6315.5294	
	15829.057	0																6315.7492	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
2	15828.	730	3	37748.140	-	21919.400	-10	6.5-	7.5	6.5-	7.5	1.19	1.39	.20	1.135	1.345	210	315	317*	6315.8797		
1	15828.	055	3	13726.661	-	29554.716	0	3.0-	3.0	3.0-	3.0	1.15	.83	.32	1.150	0.831	319	-187	-189	6316.1490		
	15826.	077	0																	6316.9385		
	15825.	401	0																	6317.2083		
2	15822.	551	1	27830.060	-	12007.503	-6	.	.	2.5-	1.5	.	.	.	1.216	-0.019	1235	320	323	6318.3462		
1	15821.	166	2	14292.176	-	30113.280	2	.	.	5.0-	6.0	.	.	.	0.970	1.050	80	-124	-117	6318.9233		
	15818.	423	2																	6319.9930		
2	15816.	691	0	34482.680	-	18666.006	17	.	.	2.5-	2.5	.	.	.	1.307	1.365	58			6320.6871		
	15816.	485	2																	6320.7694		
1	15814.	726	7	8768.139	-	24582.849	16	2.0-	2.0	2.0-	2.0	.365	.640	.275	0.362	0.640	278	-	-39	6321.4725		
1	15814.	465	0	14853.317	-	30667.769	13	.	.	4.0-	4.0				0.786	1.265	479	-199	-205	6321.5768		
2	15814.	256	4	23312.615	-	7498.364	5	1.5-	2.5	1.5-	2.5	.67	1.31	.64	0.680	1.321*	641	143	128	6321.6604		
1	15813.	347	6	12159.465	-	27972.815	-3	4.0-	4.0	4.0-	4.0	.84	.98	.14	0.844	0.979	135	-084	-80	6322.0237		
	15812.	677	0																	6322.2916		
	15812.	615	0																	6322.3164		
2	15812.	025	5	25520.005	-	9707.980	0	7.5-	6.5	7.5-	6.5	1.33	1.48	.15	1.330	1.485*	155	180	180*	6322.5523		
1	15810.	721	2	16834.379	-	32645.106	-6	.	.	5.0-	5.0				0.961	1.135	174		-230	6323.0738		
2	15309.	971	5	32555.705	-	16745.720	-14	1.5-	2.5	1.5-	2.5	1.27	1.66	.39	1.269	1.671	402	258	258*	6323.3737	PB	
1	15809.	307	3	18346.917	-	34156.245	-21	2.0-	1.0	2.0-	1.0	1.52	1.29	.23	1.518	1.305	213	-214	-214	6323.6393		
1	15806.	386	6	14737.788	-	30544.187	-13	3.0-	3.0	3.0-	3.0	.82	.97	.15	0.815	0.946	131	-156	-157	6324.8079		
1	15804.	182	5	23578.836	-	7774.653	-1	5.0-	4.0	5.0-	4.0	1.10	1.43	.33	1.120	1.463*	343		-13	6325.6900		
2	15801.	907	0	32841.375	-	17039.487	19	.	.	1.5-	1.5				1.234	1.354	120	219	211	6326.6007		
	15798.	463	0H																	6327.9799	2LNS	
1	15798.	463	0H	15406.760	-	31205.200	23	.	.	1.0-	2.0				0.890	1.090*	200		-96	6327.9799	2LNS	
2	15796.	126	3	13809.910	-	29606.060	-24	.	.	4.5-	4.5				0.657	0.790	133	-426	-420	6328.9161		
1	15795.	649	4	12322.613	-	28118.262	0	2.0-	3.0	2.0-	3.0	1.03	1.24	.21	1.036	1.250*	214		-31	6329.1072		
1	15794.	905	6H	21420.983	-	37215.900	-12	3.0-	4.0	3.0-	4.0	1.66	1.483	.180	1.663	1.485	178	-059	-52	6329.4053		
1	15792.	906	1	12177.963	-	27970.881	-12	.	.	1.0-	2.0				0.525	0.194	331	-213	-214	6330.2065		
	15792.	732	1																	6330.2762		
1	15792.	573	1	15249.635	-	31042.204	4	.	.	2.0-	3.0				0.715	1.010	295		-87	6330.3400		
2	15792.	470	0	29783.410	-	13990.952	12	.	.	0.5-	1.5				2.590	1.728*	862		10*	6330.3813		
	15792.	044	0																		6330.5520	
1	15791.	206	5	24970.474	-	9179.262	-6	.	.	4.0-	5.0	1.455	1.450	.005	1.460	1.454*	6	-060	-48	6330.8880		
1	15790.	927	3	14292.176	-	30083.102	1	.	.	5.0-	5.0				0.970	1.150*	180	-216	-212	6330.9998		
1	15789.	440	1	30131.388	-	14341.947	-1	.	.	3.0-	2.0				1.232	0.852	380			6331.5961		
1	15787.	669	2	25560.208	-	9772.532	-7	1.0-	0.0	1.0-	0.0	1.50	.000		1.500	0.000*	0	108	111	6332.3063		
2	15787.	254	1	35614.250	-	19827.020	24	.	.	1.5-	1.5				1.560	1.733	173		229	6332.4728		
1	15784.	231	3	16155.109	-	31939.345	-5	5.0-	6.0	5.0-	6.0	.930	1.180	.250	0.948	1.200*	252	-335	-336	6333.6856		
	15782.	100	3																	6334.5408		
2	15781.	273	3	32820.775	-	17039.487	-15	.	.	2.5-	1.5	1.315	1.36	.05	1.315	1.354	39	228	229	6334.8728		
1	15779.	699	2	14292.176	-	30071.890	-15	.	.	5.0-	5.0				0.970	1.290*	320		-302	6335.5047		
1	15779.	509	2	18897.584	-	34677.111	-18	.	.	5.0-	4.0				1.280	1.080	200		-245	6335.5810		
2	15778.	879	2	37640.995	-	21862.135	19	.	.	2.5-	2.5				1.350	1.320*	30			6335.8339		
	15777.	229	1																		6336.4965	
2	15776.	558	1	25018.940	-	9242.356	-26	.	.	2.5-	3.5				1.385	1.359	16	336	329	6336.7660		
2	15774.	049	3	23272.420	-	7498.364	-7	2.5-	2.5	2.5-	2.5				0.951	1.321	370		34	6337.7740		
	15773.	174	0																		6338.1256	
	15772.	868	0																		6338.2485	
	15771.	621	0																		6338.7497	
1	15771.	073	1	18578.669	-	34349.740	2	.	.	1.0-	1.0				1.932	0.810*1122			2	6338.9699	C2	
1	15771.	073	1	29299.312	-	13528.246	7	.	.	1.0-	1.0				1.307	-0.590*1897			157	6338.9699	C2	
	15769.	352	0																		6339.6617	
	15769.	025	1																		6339.7932	
1	15767.	028	1	15406.760	-	31173.814	-26	.	.	1.0-	1.0				0.890	0.450*	440	-105	-115	6340.5962		
1	15765.	668	7	20065.327	-	4299.659	0	3.0-	2.0	3.0-	2.0	.992	1.476	.484	0.998	1.482	484	188	191	6341.1431		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	IS	IS			
	15764.100	0																	6341.7739		
	15763.461	0																	6342.0310		
	15763.271	0																	6342.1074		
	15762.419	0																	6342.4502		
2	15760.786	2	17296.905	-	33057.710	-19	4.5-	3.5	4.5-	3.5			.365	0.494	0.857	363	182	184	6343.1074		
2	15759.885	4P	30193.265	-	14433.351	-29	1.5-	1.5	1.5-	1.5	1.37	1.93	.56	1.364	1.925	561	307	300	6343.4700		
1	15756.879	3	11840.715	-	27597.590	4	.	.	3.0-	4.0				0.811	0.930	119	-102	-103	6344.6802		
	15756.607	0																	6344.7897		
1	15756.171	0	16888.909	-	32645.106	-26	.	.	6.0-	5.0				1.098	1.135	37		-255	6344.9653		
1	15755.762	1	17615.482	-	33371.251	-7	.	.	2.0-	3.0				1.450	1.113	337	-149	-145	6345.1300		
1	15754.720	3	16595.109	-	32349.853	-24	.	.	3.0-	2.0				0.999	0.000*	0		-239	6345.5497		
1	15753.459	2	23004.649	-	38758.100	8	.	.	5.0-	5.0				1.196	1.530	334		-251	6346.0576		
2	15752.365	4	26478.685	-	10726.322	2	.	.	3.5-	4.5				1.045	1.391	346	190	201	6346.4983		
1	15751.407	1	13517.647	-	29269.059	-5	.	.	2.0-	1.0				0.892	1.110*	218	-190	-191	6346.8843		
	15750.378	1																-305	6347.2990		
	15749.101	1																	6347.8137		
1	15742.694	2	33047.830	-	17305.142	6	.	.	1.0-	2.0				1.207	0.000*	0	+	6	6350.3971		
1	15742.519	2	32519.048	-	16776.530	1	.	.	2.0-	1.0				0.880	0.000*	0		128	6350.4677		
	15741.674	1																		6350.8086	
2	15741.034	1	20511.945	-	36252.985	-6	.	.	4.5-	3.5				1.310	1.004	306		-122	6351.0668		
	15739.485	1																		6351.6919	
	15739.378	1																		6351.7351	
1	15738.428	3	16834.379	-	32572.811	-4	.	.	5.0-	5.0				0.961	1.010*	49	-234	-236	6352.1185		
	15737.649	0																		6352.4329	
1	15736.157	3	25974.634	-	10238.473	-4	.	.	6.0-	6.0				1.370	1.431*	61		-12	6353.0352		
2	15734.229	0	24976.585	-	9242.356	0	.	.	3.5-	3.5				0.960	1.369	409		46	6353.8137		
	15733.771	0																		6353.9986	
	15730.111	1																		6355.4770	
1	15729.605	2	11840.715	-	27570.322	-2	.	.	3.0-	3.0				0.811	1.265	454	-351	-348	6355.6815		
1	15727.959	0	17081.874	-	32809.844	-11	.	.	4.0-	4.0				1.217	0.900	317		-215	6356.3467		
2	15724.881	2	37016.265	-	21291.350	-34	.	.	5.5-	4.5				1.150	1.590	440			6357.5909		
1	15724.298	0	30066.252	-	14341.947	-7	.	.	1.0-	2.0				0.476	0.852	376		118	6357.8266		
1	15723.723	0	33028.868	-	17305.142	-3	.	.	2.0-	2.0				0.987	0.000*	0		-24	6358.0591		
	15722.502	1																		6358.5528	
	15722.218	1																	-056	6358.6677	
1	15721.849	1	16520.962	-	32242.810	1	.	.	5.0-	5.0				0.736	1.215	479		-98	6358.8169		
1	15721.282	2	15249.635	-	30970.926	-9	.	.	2.0-	1.0				0.715	0.295	420	-242	-173	6359.0463		
1	15719.841	3	19872.154	-	35591.995	0	.	.	9.0-	8.0				1.199	1.105	94	-218	-220	6359.6292		
	15719.234	2																		6359.8748	
1	15718.818	2	17554.704	-	33273.528	-6	.	.	8.0-	7.0				1.170	1.070*	100	-230	-235	6360.0431		
1	15716.899	4	17500.977	-	33217.880	-4	.	.	1.0-	1.0				2.258	0.520*	1738	196		6360.8197	BQ	
1	15715.713	6	15356.888	-	31572.610	-9	1.0-	1.0	1.0-	1.0	1.10	2.40	1.30	1.103	2.403	1300	-151	-155	6361.2997		
	15714.348	0																		6361.8523	
1	15712.416	2	18046.108	-	33759.523	1	.	.	4.0-	5.0				0.694	0.830	136		-11	6362.6345		
1	15710.961	2	18692.505	-	34313.475	-9	.	.	6.0-	6.0				0.910	1.030*	120	068	78	6363.2238		
1	15707.523	2	15249.635	-	30957.140	18	.	.	2.0-	2.0				0.715	0.980	265		-225	6364.6165		
1	15707.095	1	16202.112	-	31909.212	-5	.	.	0.0-	1.0				0.000	0.888	0	+	5	6364.7900		
1	15706.916	1	16304.260	-	32011.173	3	.	.	4.0-	3.0				1.285	1.140*	145		-189	6364.8625		
2	15706.472	0	37904.140	-	22197.670	2	.	.	3.5-	3.5				1.275	1.530	255		269*	6365.0424		
	15704.726	1																		6365.7501	
1	15703.633	6	24381.050	-	40084.697	-9	5.0-	6.0	5.0-	6.0	1.45	1.51	.06	1.450	1.510*	60		-19	6366.1911	HAZY	
1	15703.172	1	18578.669	-	34281.845	-4	.	.	1.0-	2.0				1.932	0.850*	1082	+	13	6366.3800		
	15702.644	1																		6366.5941	
	15701.390	1																		6367.1026	
1	15700.560	1	19059.958	-	34760.532	-14	.	.	5.0-	6.0				1.375	1.140*	235		-177	6367.4392		

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVE	NOTES	
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS	LENGTH		
1	15700.	334	3	15578.669-34279.010			-7	1.0-	1.0	1.0-	1.0	1.93	1.71	.22	1.932	1.710*	222	-073	-73	6367.5308		
2	15694.	664	3	27702.165-12007.503			2	1.5-	1.5	1.5-	1.5	1.14	-0.01	1.15	1.135	-0.019	1154	333	337	6369.8312		
1	15692.	628	0	19865.603-35558.235			-4	.	.	4.0-	4.0	.	.	.	1.100	0.990	110			6370.6577		
2	15691.	862	0	29753.225-45445.065			22	.	.	3.5-	4.5	.	.	.	1.103	1.000*	103			6370.9687		
	15690.	176	1					.	.	.	.	.	.	.						6371.6533	
1	15689.	922	2	16520.962-32210.885			-1	.	.	5.0-	4.0	.	.	.	0.736	0.995	259			6371.7564		
1	15689.	270	0	15074.958-30764.244			-16	.	.	7.0-	6.0	.	.	.	1.097	0.975	122			6372.0212		
2	15689.	026	0	19863.335-35552.385			-24	.	.	2.5-	3.5	.	.	.	0.921	0.903	18			6372.1203		
2	15683.	032	2	35863.985-20175.895			-8	.	.	4.5-	3.5	.	.	.	1.210	1.515*	305			6372.5038		
2	15687.	008	0	34353.025-18666.006			-11	.	.	3.5-	2.5	.	.	.	1.199	1.365	166			6372.9401		
	15684.	746	1C								252			6373.8591	
1	15683.	487	1	32988.621-17305.142			8	.	.	3.0-	2.0	.	.	.	1.173	0.000*	0			6374.3708		
	15681.	303	2H								064			6375.2586	
1	15679.	259	1	14692.549-30371.819			-11	.	.	2.0-	3.0	.	.	.	0.292	0.640	348			6376.0897		
	15679.	052	1											6376.1698	
1	15678.	737	2C	18046.108-33724.837			8	.	.	4.0-	3.0	.	.	.	0.694	1.160	466			6376.3020		
2	15675.	766	1	34193.640-18517.872			-2	.	.	1.5-	0.5	.	.	.	0.970	2.755*	1785			6377.5105		
1	15675.	404	3	32280.169-16504.786			21	.	.	5.0-	6.0	.	.	.	1.150	0.950*	200			6377.6578		
2	15675.	042	0	26401.370-10726.322			-6	.	.	4.5-	4.5	.	.	.	1.220	1.391*	171			6377.8051		
1	15672.	964	5	12159.465-27832.430			-1	4.0-	4.0	4.0-	4.0	.	.	.075	0.844	0.920	76			6378.6507		
1	15671.	291	1	31947.617-16276.332			6	.	.	3.0-	2.0	.	.	.	1.250	1.880*	630			6379.3316		
2	15670.	078	1	37212.525-21542.435			-12	.	.	2.5-	2.5	.	.	.	0.960	1.279*	319			6379.8255		
2	15668.	948	4	30102.315-14433.351			-16	.	.	2.5-	1.5	.	.	.	1.158	1.925	767	337	337	6380.2855		
1	15668.	162	5	21812.682-6144.515			-5	4.0-	3.0	4.0-	3.0	1.05	1.48	.43	1.040	1.473	433	012	14	6380.6056	IS*	
1	15665.	179	4	18572.411-34337.597			-7	6.0-	7.0	6.0-	7.0	1.20	1.35	.15	1.190	1.340*	150	-335	-339	6381.8206		
1	15663.	858	4	29341.761-13677.903			0	2.0-	1.0	2.0-	1.0	1.19	1.45	.26	1.184	1.442	258			6382.3589		
1	15661.	937	4	20697.436-36359.387			-14	7.0-	8.0	7.0-	8.0	1.25	1.19	.06	1.250	1.185	65			6383.1417		
1	15659.	363	3	22160.184-37819.580			-33*	.	.	8.0-	7.0	1.51	1.51		1.230	1.110*	120			6384.1909	CQ 2LNS	
1	15659.	363	3	19959.027-4259.659			-5	.	.	1.0-	2.0	.	.	.	0.760	1.482*	722			6384.1909	2LNS	
	15658.	379	0											6384.5921	
1	15657.	271	2	14737.788-30395.062			-3	.	.	3.0-	4.0	.	.	.	0.815	0.920	105			6385.0439		
2	15656.	009	0	35831.915-20175.895			-11	.	.	4.5-	3.5	.	.	.	1.170	1.515*	345			6385.5586		
1	15654.	272	4	12322.613-27976.881			4	.	.	2.0-	3.0	1.07	1.11	.04	1.036	1.080	44			6386.2672		
2	15653.	340	1	38903.090-23249.745			-5	.	.	4.5-	4.5	.	.	.	1.135	1.475	340			6386.6474		
1	15651.	736	1	39618.160-23966.450			26	.	.	3.0-	3.0	.	.	.	0.270	0.760*	490			6387.3019		
1	15648.	266	2	12322.613-27970.881			-2	.	.	2.0-	2.0	.	.	.	1.036	0.194	842			6388.7183		
1	15645.	694	3	12159.465-27205.163			-4	.	.	4.0-	5.0	.	.	.	0.844	1.024	180			6389.7686		
1	15645.	442	5	24824.706-9179.262			-2	4.0-	5.0	4.0-	5.0	1.150	1.460	.310	1.145	1.454	309			6389.8715		
1	15643.	286	4	22160.184-37803.470			0	.	.	8.0-	9.0	1.230	1.225	.005	1.230	1.220*	10			6390.7522	f1.19	
	15642.	326	0											6391.1444	
1	15641.	405	0	21737.407-37378.815			-3	.	.	3.0-	2.0	.	.	.	1.026	0.964	62			6391.5207		
	15639.	524	1											6392.2894	
2	15637.	991	1	24276.225-8638.233			-1	.	.	6.5-	5.5	.	.	.	1.430	1.514*	84			6392.9161		
1	15634.	027	4	14737.788-30371.819			-4	.	.	3.0-	3.0	.	.	.	0.815	0.640	175			6394.5370		
2	15625.	752	1B	30562.000-46187.750			2	.	.	0.5-	1.5	.	.	.	2.689	0.740	1949			6397.9234	C3	
1	15625.	752	1B	32930.874-17305.142			20	.	.	3.0-	2.0	.	.	.	1.216	0.000*	0			6397.9234	C3	
1	15625.	752	1B	20784.195-36609.983			-36	.	.	6.0-	7.0	.	.	.	1.319	1.195	124			6397.9234	C3	
1	15625.	664	2B	33390.950-17765.281			-5*	.	.	3.0-	3.0	.	.	.	1.050	1.680*	630			6397.9595	ISQ	
1	15624.	881	2	36297.181-20672.283			-17	.	.	2.0-	2.0	.	.	.	1.010	1.430*	420			6398.2801		
1	15624.	684	4	25397.206-9772.532			10	1.0-	0.0	1.0-	0.0	.78	.000		0.776	0.000	0			6398.3607		
1	15621.	405	1	13517.647-29139.061			-9	.	.	2.0-	2.0	.	.	.	0.892	0.000*	0			6399.7038	C2	
1	15621.	405	1	29299.312-13677.903			-4	.	.	1.0-	1.0	.	.	.	1.307	1.442	135			6399.7038	C2	
	15619.	756	1											6400.3794	
1	15617.	817	1	15424.387-31042.204			0	.	.	3.0-	3.0	.	.	.	1.106	1.010	96			6401.1741		
1	15615.	784	1	16595.109-32210.885			8	.	.	3.0-	4.0	.	.	.	0.999	0.995	4			6402.0074		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	D6	G2	G1			D6	IS	IS
1	15614.655	3	15856.888-31471.542			1	.	.	1.0-	1.0	.	.	.	1.103	2.188	1085	-057	-55	6402.4703	
2	15613.717	1	17296.905-32910.615			7	.	.	4.5-	3.5	.	.	.	0.494	0.845	351		135	6402.8550	
2	15613.192	0	30104.835-45718.025			2	.	.	3.5-	3.5	.	.	.	1.159	1.065	94			6403.0703	
	15612.634	0																	6403.2991	
1	15608.668	2	33181.270-17572.608			6*	.	.	1.0-	2.0	.	.	.	1.490	0.555*	935			6404.9261	
	15608.356	1																	6405.0501	
1	15608.097	1	14853.317-30461.399			15	.	.	4.0-	5.0	.	.	.	0.786	0.990	204			6405.1604	
2	15607.143	2	31095.675-15488.530			-2	.	.	2.5-	3.5	.	.	.	1.170	1.057*	113	368	359	6405.5520	
1	15606.640	1	10486.922-26093.563			-1	.	.	1.0-	1.0	.	.	.	0.355	-0.082	437			6405.7584	
1	15606.450	2	16834.379-32440.827			2	.	.	5.0-	6.0	.	.	.	0.961	1.120*	159	-263	-218	6405.8364	
	15603.462	1																	6407.0631	
1	15602.861	1	18897.584-34500.445			0	.	.	5.0-	6.0	.	.	.	1.280	1.030	250			6407.3099	
1	15602.086	3	15074.958-30677.044			0	.	.	7.0-	8.0	.	.	.	1.097	1.245	148	-338	-336	6407.6282	
1	15601.657	1	33174.265-17572.608			0	.	.	2.0-	2.0	.	.	.	0.854	0.555	309			6407.8044	
2	15600.570	3	34362.170-18761.580			-20	.	.	4.5-	5.5	.	.	.	1.198	1.296	98	358	359	6408.2508	
2	15600.068	3	34361.635-18761.580			13	.	.	5.5-	5.5	.	.	.	1.222	1.296	74	185	179	6408.4571	
	15598.884	1																	6408.9435	
1	15597.884	1	23735.353-39333.250			-13	.	.	2.0-	2.0	.	.	.	0.935	0.995*	60			6409.3544	
	15597.611	1															199		6409.4666	
1	15597.155	1	8768.139-24365.295			-1	.	.	2.0-	3.0	.	.	.	0.362	1.475	1113			6409.6539	
2	15596.993	2	30590.765-46187.750			8	.	.	2.5-	1.5	.	.	.	0.900	0.740	160			6409.7205	
	15595.266	0																	6410.4303	
1	15592.887	7	21737.407- 6144.515			-5	3.0-	3.0	3.0-	3.0	1.030	1.475	.445	1.026	1.473	447	-055	-57	6411.4084	
	15592.392	3																	6411.6119	
1	15590.496	1	15424.387-31014.877			6	.	.	3.0-	4.0	.	.	.	1.106	1.170	64			6412.3917	
1	15590.074	2	16888.909-32478.986			-3	.	.	6.0-	6.0	.	.	.	1.098	1.110	12	-302	-301	6412.5652	
	15588.567	0																	6413.1852	
1	15587.962	2	34240.242-18652.287			7	.	.	2.0-	3.0	.	.	.	1.190	0.822*	368	-		6413.4341	
1	15587.150	1	17081.874-32669.040			-16	.	.	4.0-	3.0	.	.	.	1.217	1.000*	217			6413.7682	
2	15586.821	1	20511.945-36098.770			-4	.	.	4.5-	4.5	.	.	.	1.310	1.029	281			6413.9036	
1	15585.703	1	10486.922-26072.627			-2	.	.	1.0-	2.0	.	.	.	0.355	1.500*	1145			6414.3636	
2	15585.038	1	36642.955-21057.925			8	.	.	3.5-	2.5	.	.	.	1.356	1.590	234			6414.6373	
2	15584.365	0	22372.325-37956.685			5	.	.	2.5-	1.5	.	.	.	1.330	0.904*	426			6414.9144	
1	15583.526	1	22219.737-37803.250			13	.	.	4.0-	3.0	.	.	.	0.750	1.081	331			6415.2597	
	15583.096	1H																	6415.4368	
1	15582.719	3	16520.962-32103.687			-6	.	.	5.0-	4.0	.	.	.	0.736	1.040	304	+		6415.5920	
1	15581.877	2	18897.584-34479.473			-12	.	.	5.0-	4.0	.	.	.	1.280	0.944	336			6415.9386	
1	15580.412	3	14737.788-30318.195			5	.	.	3.0-	2.0	.	.	.	0.815	0.940	125			6416.5419	
1	15579.980	6	24759.250- 9179.262			-8	6.0-	5.0	6.0-	5.0	1.10	1.45	.35	1.098	1.454	356	154	152	6416.7199	
2	15578.987	1	35901.360-20322.349			-24	.	.	5.5-	6.5	.	.	.	1.015	1.314	299			6417.1289	
1	15578.599	1	21031.258-36609.850			7	.	.	2.0-	2.0	.	.	.	1.455	1.025	430			6417.2887	
1	15577.573	4	18578.669-34156.245			-3	1.0-	1.0	1.0-	1.0	1.930	1.306	.624	1.932	1.305	627	-069	-69	6417.7114	
1	15577.143	1	19776.904-35354.050			-3	.	.	6.0-	7.0	.	.	.	1.012	0.000*	0	-164	-154	6417.8885	
1	15576.655	2	14737.788-30314.443			0	.	.	3.0-	3.0	.	.	.	0.815	1.140*	325	-300	-299	6418.0896	
2	15575.958	1	18720.075-34296.050			-17	.	.	3.5-	4.5	.	.	.	1.060	0.768	292			6418.3768	
	15574.279	0																	6419.0687	
1	15571.583	0	16532.104-32103.687			0	.	.	3.0-	4.0	.	.	.	0.300	1.040	740			6420.1801	
1	15570.014	1	20043.465-35613.490			-11	.	.	5.0-	5.0	.	.	.	0.925	1.090*	165	-		6420.8271	
1	15569.329	5	12159.465-27728.796			-2	4.0-	3.0	4.0-	3.0	.84	1.05	.21	0.844	1.060	216	-127	-127	6421.1096	
1	15568.642	1	18502.505-34171.155			-8	.	.	6.0-	5.0	.	.	.	0.910	1.230	320			6421.3929	
1	15565.048	2	12177.963-27743.009			2	.	.	1.0-	2.0	.	.	.	0.525	0.568	43	-		6422.8756	
1	15564.556	2	17615.482-33180.043			-5	.	.	2.0-	2.0	.	.	.	1.450	1.790*	340	-151	-151	6423.0787	
1	15564.164	1	15405.760-30970.926			-2	.	.	1.0-	1.0	.	.	.	0.890	0.295	595			6423.2404	
1	15563.225	1	17081.874-32645.106			-7	.	.	4.0-	5.0	.	.	.	1.217	1.135	82			6423.6280	
1	15562.824	4	24742.092- 9179.262			-6	.	.	4.0-	5.0	.	.	.	0.980	1.454*	474			6423.7935	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS			OBS			TERM			OBS		TERM	IS	IS	HAVELENGTH	NOTES
							J2	J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS					
1	15560.788	1	21031.258-36592.070	-24	.	.	.	2.0-	3.0	.	.	.	1.455	1.300	155		79		6424.6340			
	15559.824	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	6425.0321	
1	15558.412	2	18046.108-33604.497	23	.	.	.	4.0-	3.0	.	.	.	0.694	1.210	516		46		6425.6152			
	15558.151	0			-141		6425.7230		
	15557.889	0				6425.8312		
1	15555.746	3	8768.139-24323.884	1	.	.	.	2.0-	1.0	.	.	.	0.362	0.800*	438		-192	-194	6426.7164			
1	15555.326	2	18963.921-34519.250	-3	.	.	.	4.0-	5.0	.	.	.	1.251	1.170*	81		-153		6426.8899			
1	15554.477	2	14763.705-30318.195	-13	.	.	.	1.0-	2.0	.	.	.	-0.066	0.940	1006		-227	-228	6427.2407			
	15552.524	1H			+		6428.0478		
1	15551.912	1	16888.909-32440.827	-6	.	.	.	6.0-	6.0	.	.	.	1.098	1.120*	22		-243	-243	6428.3008			
1	15550.260	0	23814.130-39364.330	60	.	.	.	6.0-	5.0	.	.	.	0.890	1.130	240		076	42	6428.9837			
1	15549.387	2	14912.011-30461.399	-1	.	.	.	4.0-	5.0	.	.	.	0.496	0.990	494		-	-27	6429.3447			
2	15547.570	1	36838.925-21291.350	-5	.	.	.	3.5-	4.5	.	.	.	1.225	1.590	365			58*	6430.0961			
2	15546.131	1	21048.190- 5502.060	1	.	.	.	2.5-	1.5	.	.	.	1.030	1.169*	139			162	6430.6913	C2		
1	15546.131	1	19776.904-35323.031	4	.	.	.	6.0-	6.0	.	.	.	1.012	1.090	78			-227	6430.6913	C2		
1	15543.767	3	16888.909-32432.680	-4	.	.	.	6.0-	7.0	.	.	.	1.098	1.140	42		-174	-173	6431.6693			
1	15541.750	2	14853.317-30395.062	5	.	.	.	4.0-	4.0	.	.	.	0.786	0.920	134		-117	-116	6432.5040			
	15541.366	0				6432.6712		
2	15540.968	0	18720.075-34261.065	-22	.	.	.	3.5-	4.5	.	.	.	1.060	0.920	140			-94	6432.8277			
1	15539.784	1	29068.029-13528.246	1	.	.	.	2.0-	1.0	.	.	.	1.284	-0.590*	1874			172	6433.3178			
1	15539.240	1	16595.109-32134.354	-5	.	.	.	3.0-	3.0	.	.	.	0.999	0.000*	0			-169	6433.5430			
2	15537.659	1	32283.420-16745.720	-41	.	.	.	2.5-	2.5	.	.	.	1.045	1.671	626			339	6434.1977			
1	15534.872	1	9386.801-24921.671	2	.	.	.	5.0-	5.0	.	.	.	0.801	1.034	233			-103	6435.3520			
2	15533.366	2	29259.700-13726.318	-16	.	.	.	1.5-	2.5	.	.	.	1.250	0.784	466		274	275	6435.9759			
1	15532.024	1	32308.557-16776.530	-3	.	.	.	2.0-	1.0	.	.	.	1.327	0.000*	0		160	155	6436.5320			
	15531.536	2				6436.7342		
2	15531.498	1	28421.805-43953.290	13	.	.	.	2.5-	1.5	.	.	.	0.878	1.510	632				6436.7500			
	15531.474	2				6436.7599		
1	15530.607	5	13517.647-29048.255	-1	.	.	.	2.0-	1.0	.	.89	.89	0.892	0.900	8		-256	-257	6437.1193			
1	15529.705	2	14025.007-29554.716	-4	.	.	.	4.0-	3.0	.	.	.	0.975	0.831	144		-182	-188	6437.4931			
2	15527.635	1	34193.640-18666.006	2	.	.	.	1.5-	2.5	.	.	.	0.970	1.365*	395				6438.3509			
1	15524.412	1	19236.116-34760.532	-4	.	.	.	7.0-	6.0	.	.	.	1.155	1.140*	15			-182	6439.6880			
1	15523.613	4	14692.549-30216.163	-1	2.0-	2.0	2.0-	2.0	2.0	.29	1.15	.86	0.292	1.143	851		-214	-221	6440.0195			
	15523.155	1				6440.2095		
2	15520.839	1	22799.695- 7278.862	6	.	.	.	4.5-	4.5	.	.	.	1.330	1.545*	215			168	6441.1705			
1	15519.675	6	8768.139-24287.814	0	2.0-	3.0	2.0-	3.0	.360	.587	.227		0.362	0.585	223		-168	-171	6441.6536	PB		
1	15517.849	2	32294.378-16776.530	1	.	.	.	2.0-	1.0	.	.	.	1.016	0.000*	0		175	171	6442.4116			
2	15516.098	8	27523.600-12007.503	1	0.5-	1.5	0.5-	1.5	.96	-0.01	.97		0.940	-0.019	959		330	334	6443.1386			
	15515.296	1				6443.4717		
	15515.066	1				6443.5672		
1	15512.073	1	14692.549-30204.635	-13	.	.	.	2.0-	1.0	.	.	.	0.292	0.590*	298			-208	6444.8105			
	15511.586	0				6445.0128		
	15511.389	0				6445.0947		
1	15510.875	2	19236.116-34746.981	10	.	.	.	7.0-	8.0	.	.	.	1.155	0.000*	0		-061	-72	6445.3082			
1	15510.448	0	22429.934-37940.455	-23	.	.	.	4.0-	3.0	.	.	.	1.279	1.170*	109		+	-18	6445.4857			
1	15508.581	2	16595.109-32103.687	3	.	.	.	3.0-	4.0	.	.	.	0.999	1.040	41		-149	-156	6446.2616			
1	15507.069	4	23281.721- 7774.653	1	5.0-	4.0	5.0-	4.0	1.23	1.46	.23		1.235	1.463	228		-	-23	6446.8902			
1	15503.665	5	25836.914-41140.580	-1	6.0-	7.0	6.0-	7.0	1.335	1.467	.132		1.335	1.470	135		-060	-57	6448.3057	HAZY		
1	15502.518	1	13726.661-29229.190	-11	.	.	.	3.0-	4.0	.	.	.	1.150	1.480*	330			-407	6448.7828			
	15501.943	0				6449.0220		
1	15500.208	9	23274.858- 7774.653	3	4.0-	4.0	4.0-	4.0	1.616	1.458	.158		1.604	1.463	141		-057	-57	6449.7438			
	15498.772	3H				6450.3414	2LNS Q	
1	15498.772	3H	18572.411-34171.155	28	.	.	.	6.0-	5.0	.	.	.	1.190	1.230*	40		-	-80	6450.3414	2LNS Q		
1	15497.970	3	33070.573-17572.608	5	.	.	.	2.0-	2.0	.	.	.	0.673	0.555	118			9	6450.6752			
1	15496.473	4	16520.962-32017.434	1	.	.	.	5.0-	4.0	.	.	.	0.736	1.020*	284		-045	-32	6451.2984			

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	15495.716	1	32100.500-16604.786	2	.	.	.	6.0-	6.0	.	.	.	.	.	1.126	0.950*	176	.	-68	6451.6135	
1	15495.294	1	36483.410-20938.110	-6	.	.	.	4.0-	4.0	.	.	.	.	.	1.100	1.374*	274	.	129	6451.7892	
1	15493.936	1	19594.767-35023.705	-2	.	.	.	0.0-	1.0	.	.	.	.	.	0.000	1.380	0	.	.	6452.3547	
1	15492.500	4	16486.922-25979.424	-2	.	.	.	1.0-	1.0	.	.	.	.	.	0.355	1.260	905	-261	-260	6452.9528	
2	15489.134	0	26215.440-10726.322	16	.	.	.	5.5-	4.5	.	.	.	.	.	1.121	1.391	270	.	358	6454.3551	
	15488.326	1			-301		6454.6918	
2	15487.130	1	36545.045-21057.925	10	.	.	.	2.5-	2.5	.	.	.	.	.	1.330	1.590	260	.	380	6455.1903	
1	15486.385	0	33394.270-17897.917	32	.	.	.	4.0-	3.0	.	.	.	.	.	1.080	0.450*	630	.	-370	6455.5009	
1	15485.326	1	16532.104-32017.434	-4	.	.	.	3.0-	4.0	.	.	.	.	.	0.300	1.020*	720	-041	-36	6455.9423	
1	15485.095	1	14912.011-30397.106	0	.	.	.	4.0-	5.0	.	.	.	.	.	0.496	1.005	509	.	.	6456.0386	
1	15484.320	3	9724.351-25208.672	-1	.	.	.	3.0-	2.0	.	.	.	.	.	0.442	0.490	48	-047	-43	6456.3618	
1	15483.231	7	23274.858-38758.100	-11	4.0-	5.0		4.0-	5.0	1.604	1.525	.079	.	.	1.604	1.530	74	-057	-48	6456.8159		
1	15478.498	2B	21737.407-37215.900	5	.	.	.	3.0-	4.0	.	.	.	.	.	1.026	1.485	459	.	-15	6458.7903	
	15476.757	1			-048		6459.5168	
1	15476.375	1	23281.721-38758.100	-4	.	.	.	5.0-	5.0	.	.	.	.	.	1.235	1.530	295	.	-82	6459.6763	
	15476.171	1			+		6459.7614	
	15475.218	1			-222		6460.1592	
2	15474.525	0	37336.640-21862.135	20	.	.	.	2.5-	2.5	.	.	.	.	.	1.207	1.320*	113	.	.	6460.4485	
1	15473.503	4	16155.109-31623.619	-7	5.0-	6.0		5.0-	6.0	.94	1.11	.173	.	.	0.948	1.110	162	-153	-151	6460.8752		
	15472.842	1			6461.1512	
1	15472.620	3	14737.788-30210.416	-8	.	.	.	3.0-	4.0	.	.	.	.	.	0.815	1.160*	345	-255	-252	6461.2439	
1	15471.414	3	24613.274-40084.697	-9	.	.	.	5.0-	6.0	.	.	.	.	.	1.160	1.510	350	.	-91	6461.7476	
1	15470.592	1H	16834.379-32304.979	-8	.	.	.	5.0-	4.0	.	.	.	.	.	0.961	0.990*	29	-277	-278	6462.0909	
	15468.911	1			6462.7932	
2	15467.778	1H	37665.440-22197.670	8	.	.	.	4.5-	3.5	.	.	.	.	.	1.105	1.530	425	.	247*	6463.2666	
1	15467.068	1	32790.360-17323.291	-1*	.	.	.	4.0-	4.0	.	.	.	.	.	1.240	1.250*	10	.	.	6463.5633	
2	15466.617	2	32630.100-17163.470	-13	.	.	.	5.5-	4.5	.	.	.	.	.	1.080	1.200*	120	.	408*	6463.7517	
1	15464.769	1	18597.584-34362.360	-7	.	.	.	5.0-	5.0	.	.	.	.	.	1.280	1.120*	160	.	-165	6464.5241	
1	15463.053	2	8768.139-24231.226	6	.	.	.	2.0-	2.0	.	.	.	.	.	0.362	0.411	49	.	-72	6465.2248	
1	15459.894	1	14912.011-30371.819	-4	.	.	.	4.0-	3.0	.	.	.	.	.	0.496	0.640	144	-078	-117	6466.6003	
1	15459.412	2	12177.963-27637.377	-2	.	.	.	1.0-	1.0	.	.	.	.	.	0.525	1.280	755	-233	-234	6466.7643	
1	15458.995	1	25681.552-41140.580	-33	.	.	.	7.0-	7.0	.	.	.	.	.	1.039	1.470	431	.	-268	6466.9387	
1	15458.705	1	21603.247- 6144.515	-27	.	.	.	2.0-	3.0	.	.	.	.	.	0.060	1.473*	1413	.	33	6467.0600	
1	15456.509	0	18147.975-33604.497	-13	.	.	.	4.0-	3.0	.	.	.	.	.	1.049	1.210	161	.	-188	6467.9788	C2
1	15456.509	0	34799.810-19343.298	-3	.	.	.	4.0-	3.0	.	.	.	.	.	1.145	1.135	10	.	.	6467.9788	C2
1	15456.257	2	33028.868-17572.608	-3	.	.	.	2.0-	2.0	.	.	.	.	.	0.987	0.555	432	192	191	6468.0843	
	15455.217	1			262		6468.5195	
1	15453.638	2	12351.522-27805.163	-3	.	.	.	6.0-	5.0	.	.	.	.	.	0.995	1.024	29	-141	-150	6469.1805	
1	15451.951	2	18046.108-33498.071	-12	.	.	.	4.0-	3.0	.	.	.	.	.	0.694	0.770	76	042	43	6469.8868	
	15451.627	0			6470.0224	
2	15450.477	3	20952.550- 5502.060	-13	1.5-	1.5		1.5-	1.5	.350	1.175	.825	.	.	0.350	1.169	819	140	139	6470.5040		
1	15449.138	2	16520.962-31970.100	0	.	.	.	5.0-	4.0	.	.	.	.	.	0.736	1.100*	364	.	13	6471.0648	
1	15448.534	2	31724.867-16276.332	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.016	1.880*	864	145	144	6471.3178	ISQ
	15446.348	0			-064		6472.2337	
	15446.128	0			6472.3259	
1	15443.070	9	25681.552-10238.473	-9	7.0-	6.0		7.0-	6.0	1.039	1.431	.392	.	.	1.039	1.431	392	151	162	6473.6075		
	15441.556	0			6474.2422	
1	15440.492	1	19059.958-34500.445	5	.	.	.	5.0-	6.0	.	.	.	.	.	1.375	1.030	345	.	-245	6474.6884	
1	15438.126	4	12159.465-27597.590	1	.	.	.	4.0-	4.0	.	.	.	.	.	0.844	0.930	86	-099	-102	6475.6807	
1	15436.480	7	9724.351-25160.827	4	3.0-	3.0		3.0-	3.0	.44	.80	.36	.	.	0.442	0.800	358	-014	-16	6476.3712		
1	15436.022	3	32212.551-16776.530	-9	.	.	.	2.0-	1.0	.	.	.	.	.	1.400	0.000*	0	223	201	6476.5633	
1	15434.014	7	24613.274- 9179.262	2	5.0-	5.0		5.0-	5.0	1.16	1.46	.30	.	.	1.160	1.454	294	-030	-27	6477.4060		
	15432.589	0			6478.0041	
1	15430.995	1	20697.436-35128.425	6	.	.	.	7.0-	7.0	.	.	.	.	.	1.250	1.060	190	-123	-114	6478.6732	
1	15429.277	1	34772.583-19343.298	-8	.	.	.	3.0-	3.0	.	.	.	.	.	0.990	1.135*	145	.	144	6479.3946	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1											G2	G1	DG	IS	IS
1	15429.130	1	15356.888-31286.029	-11	.	.	.	1.0-	2.0	.	.	.	.	.	1.103	1.280	177		-38	6479.4564	
1	15428.313	5	16304.260-31732.582	-9	4.0-	5.0	4.0-	5.0	1.28	1.05	.23	1.285	1.049	236	-230	-232			6479.7995			
1	15424.510	7	25662.969-10238.473	14	5.0-	6.0	5.0-	6.0	1.33	1.43	.10	1.330	1.431*	101	136	134			6481.3971			
1	15422.891	2	14737.788-30160.664	15	.	.	.	3.0-	4.0	.	.	.	.	.	0.815	1.030	215		-187	-182	6482.0775
1	15422.327	1	16595.109-32017.434	2	.	.	.	3.0-	4.0	.	.	.	.	.	0.999	1.020*	21		-218	-207	6482.3146
2	15420.513	3	18656.277-3235.770	6	.	.	.	1.5-	0.5	.	.	.	.	.53	0.000	0.299*	0	177	181	6483.0771	PB
1	15418.389	1	16520.962-31939.345	6	.	.	.	5.0-	6.0	.	.	.	.	.	0.736	1.200*	464		-122		6483.9702
1	15418.170	1	17615.482-33033.638	14	.	.	.	2.0-	3.0	.	.	.	.	.	1.450	0.910	540		-195	-206	6484.0623
1	15415.287	2	18397.584-34313.475	-4	.	.	.	5.0-	6.0	.	.	.	.	.	1.280	1.030*	250		-159	-157	6485.0226
	15414.288	1																	-038		6485.6953	
1	15411.884	9R	17615.482-2203.606	8	2.0-	1.0	2.0-	1.0	1.46	1.50	.04	1.450	1.495	45	130	128			6486.7070			
1	15408.421	1	16834.379-32242.810	-10	.	.	.	5.0-	5.0	.	.	.	.	.	0.961	1.215	254		-301	-290	6488.1648
1	15406.787	9R	15406.760-0.000	27	1.0-	0.0	1.0-	0.0	.892	.000		0.890	0.000	0	124	124			6488.8530	SIGMA*		
1	15406.185	5	12322.613-27728.796	2	2.0-	3.0	2.0-	3.0	1.035	1.050	.015	1.036	1.060	24	-128	-130			6489.1065			
	15402.106	0																		6490.8251		
1	15401.530	1	32724.820-17323.291	1	.	.	.	4.0-	4.0	.	.	.	.	.	1.186	1.250*	64		151		6491.0678
	15400.142	1																	-165		6491.6529	
1	15399.513	1	20830.616-36230.135	-6	.	.	.	8.0-	9.0	.	.	.	.	.	1.110	1.255*	145		-096	-90	6491.9180
1	15398.439	2	18963.921-34362.360	0	.	.	.	4.0-	5.0	.	.	.	.	.	1.251	1.120*	131		-164	-148	6492.3708
1	15398.439	6	25536.914-10238.473	-2	6.0-	6.0	6.0-	6.0	1.335	1.430	.095	1.335	1.431	96	-046	-49			6492.3708	2LNS		
1	15397.936	0	19236.116-34634.053	-1	.	.	.	7.0-	8.0	.	.	.	.	.	1.155	0.000*	0		-177		6492.5829
1	15395.552	1	29073.454-13677.903	1	.	.	.	1.0-	1.0	.	.	.	.	.	1.356	1.442	86		-055	-68	6493.5883
1	15394.807	3	24381.050-39775.870	-13	.	.	.	5.0-	4.0	.	.	.	.	.	1.450	0.985*	465	073	73		6493.9025
1	15392.883	1	19776.904-35169.790	-3	.	.	.	6.0-	6.0	.	.	.	.	.	1.012	1.120*	108		-247		6494.7142
	15390.389	1																		6495.7667		
1	15390.113	3	29068.029-13677.903	-13	.	.	.	2.0-	1.0	.	.	.	.	.	1.284	1.442	158		-	-73	6495.8832
1	15389.353	2	16595.109-31984.470	-8	.	.	.	3.0-	3.0	.	.	.	.	.	0.999	1.090	91		-071	-58	6496.2040
1	15388.263	0	18602.505-33990.780	-12	.	.	.	6.0-	6.0	.	.	.	.	.	0.910	0.920*	10			73	6496.6641
	15385.338	1																		6497.8993		
	15384.832	1H																		6498.1130		
1	15383.400	1	12159.465-27542.874	-9	.	.	.	4.0-	5.0	.	.	.	.	.	0.844	1.270*	426		-275	-275	6498.7179
	15382.829	0																		6498.9591		
2	15380.718	4	32544.185-17163.470	3	.	.	.	3.5-	4.5	1.130	1.200	70	211	215		6499.8511	2LNS
1	15380.718	4	12177.963-27558.688	-7	1.0-	0.0	1.0-	0.0	.520	.000		0.525	0.000	0	-235	-236			6499.8511	2LNS		
	15375.314	1																		6502.1356		
1	15374.985	1	16595.109-31970.100	-6	.	.	.	3.0-	4.0	.	.	.	.	.	0.999	1.100*	101		-162		6502.2748
1	15373.148	4	18672.411-34045.560	-1	6.0-	7.0	6.0-	7.0	1.19	1.16	.03	1.190	1.170*	20	-158	-158			6503.0518			
1	15372.524	1	18046.108-33418.637	-5	.	.	.	4.0-	5.0	.	.	.	.	.	0.694	0.872	178		-037	-36	6503.3157
	15371.836	0																		6503.6068		
2	15371.170	1	26097.505-10726.322	-13	.	.	.	5.5-	4.5	.	.	.	.	.	1.100	1.391*	291			350	6503.8886
1	15370.491	3	16202.112-31572.610	-7	.	.	.	0.0-	1.0	.	.	.	.	.	0.000	2.403	0	-136	-138		6504.1759
	15369.792	1																		6504.4717		
	15368.441	1																		6505.0435		
1	15368.210	2	20769.512-36137.730	-8	.	.	.	2.0-	2.0	.	.	.	.	.	1.070	1.525*	455		-5		6505.1413
2	15366.035	1	35688.405-20322.349	-21	.	.	.	6.5-	6.5	.	.	.	.	.	1.110	1.314*	204	365	365*		6506.0621
	15365.641	0																		6506.2289		
1	15364.484	0	21263.339-36627.825	-2	.	.	.	5.0-	4.0	.	.	.	.	.	0.610	0.980*	370			97	6506.7188
	15363.481	1																		6507.1436		
	15358.093	2																		6509.4265		
	15357.719	1																		6509.5850		
1	15357.085	3	14853.317-30210.416	-14	.	.	.	4.0-	4.0	.	.	.	.	.	0.786	1.160*	374	-198	-178		6509.8538
1	15356.983	3	28385.208-13528.246	26	.	.	.	2.0-	1.0	.	.	.	.	.	0.912-0.590*	1502		151	154		6509.8949
	15354.646	0																		6510.8879		
2	15351.592	1	36542.955-21291.350	-13	.	.	.	3.5-	4.5	.	.	.	.	.	1.356	1.590	234	229	230		6512.1831
1	15349.371	1	25121.896-9772.532	7	.	.	.	1.0-	0.0	.	.	.	.	.	1.444	0.000	0		-55		6513.1254

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	15347.527	OH																			
2	15345.083	0	24537.415-	9242.356	24	.	.	2.5-	3.5	.	.	.	.	0.302	1.369	1067		-83	6513.9080	
1	15345.083	0	14292.176-	29637.242	17	.	.	5.0-	6.0	.	.	.	.	0.970	1.020	50		-201	6514.9454	C2
	15344.599	0									6515.1509	C2	
	15344.513	0									6515.1875		
2	15344.305	1	26070.615-	10726.322	12	.	.	3.5-	4.5	.	.	.	.	1.119	1.391	272		75	6515.2758	
	15339.238	0									6517.4067		
2	15338.216	1	27702.165-	43040.400	-19	.	.	1.5-	1.5	.	.	.	.	1.135	0.740*	395			6517.8622	
	15336.048	2									6518.7837		
2	15332.606	3	37832.845-	22500.225	-14	4.5-	5.5	4.5-	5.5	1.250	1.555	.305		1.250	1.555	305	213	214	6520.2471		
1	15331.273	3	17081.874-	32413.146	1	.	.	4.0-	3.0	.	.	.	.	1.217	0.995	222		-306	6520.8140	
2	15330.979	4	27338.500-	12007.503	-18	1.5-	1.5	1.5-	1.5	.880	-0.020	.900		0.876	-0.019	895	347	346	6520.9390		
1	15330.349	2	39613.160-	24287.814	3	.	.	3.0-	3.0	.	.	.	.	0.270	0.585*	315		20	6521.2070	
1	15326.205	1	23100.887-	7774.653	-29	.	.	3.0-	4.0	.	.	.	.	1.520	1.463	57		-160	6522.9703	
1	15325.134	3	14025.007-	29350.139	2	.	.	4.0-	3.0	.	.	.	.	0.975	0.910	65	-194	-194	6523.4261	
1	15322.552	2	17081.874-	32404.416	10	.	.	4.0-	5.0	.	.	.	.	1.217	1.055	162	-165	-156	6524.5254	
	15321.561	0									6524.9474		
	15320.239	1									6525.5105		
1	15318.369	2	18672.411-	33990.780	0	.	.	6.0-	6.0	.	.	.	.	1.190	0.920*	270	-153	-158	6526.3071	
	15315.653	1									6527.4644		
1	15314.753	2	12322.613-	27637.377	-11	.	.	2.0-	1.0	.	.	.	.	1.036	1.280	244		-238	6527.8480	
2	15313.904	5	29040.245-	13726.318	-23	1.5-	2.5	1.5-	2.5	1.443	.776	.667		1.447	0.784	663	319	322	6528.2099		
2	15313.642	3H	30302.205-	15488.530	-33	.	.	4.5-	3.5	.	.	.	.	1.160	1.057*	103		227	6528.3216	2LNS
	15313.642	3H									6528.3216	2LNS	
	15311.891	1C									6529.0682		
2	15310.471	2	14295.565-	29606.060	-24	.	.	3.5-	4.5	.	.	.	.	0.790	0.790	0		-444	6529.6737	
1	15308.442	0	19496.402-	34804.860	-16	.	.	3.0-	4.0	.	.	.	.	1.555	0.941	614		-300	6530.5392	
	15307.902	0									6530.7696		
2	15307.340	2	19277.180-	3969.846	6	.	.	3.5-	2.5	.	.	.	.	0.847	1.670	823	076	66	6531.0093	
1	15306.724	0	21420.983-	36727.705	2	.	.	3.0-	3.0	.	.	.	.	1.663	0.905	758		14	6531.2722	
	15306.000	0									6531.5436		
	15305.259	0									6531.8973		
	15304.805	2B									6532.0570		
	15304.756	2								-125	6532.1120		
1	15304.608	2	28832.853-	13528.246	1	.	.	2.0-	1.0	.	.	.	.	0.000	-0.590*	0		202	6532.1752	
1	15299.503	3	17081.874-	32381.372	5	.	.	4.0-	5.0	.	.	.	.	1.217	1.190	27	-302	-298	6534.3548	2LNS
1	15299.503	3	16520.962-	31820.494	-29	.	.	5.0-	4.0	.	.	.	.	0.736	1.240	504	-149	-96	6534.3548	2LNS
1	15297.359	9	17500.977-	2203.606	-12	1.0-	1.0	1.0-	1.0	2.259	1.493	.766		2.258	1.495	763	060	55	6535.2706		
1	15296.710	4	16155.109-	31451.814	5	5.0-	4.0	5.0-	4.0	.94	1.09	.15		0.948	1.080	132	-145	-141	6535.5479		
2	15292.010	2	37211.420-	21919.400	-10	.	.	6.5-	7.5	.	.	.	.	1.069	1.345	276	347	346	6537.5566	
	15290.039	0									6538.3994		
1	15288.682	0	23100.887-	38389.560	9	.	.	3.0-	4.0	.	.	.	.	1.520	1.070	450		139*	6538.9797	
1	15283.380	0	16532.104-	31820.494	-10	.	.	3.0-	4.0	.	.	.	.	0.300	1.240	940		-100	6539.1089	
1	15287.842	0	18963.921-	34251.764	-1	.	.	4.0-	4.0	.	.	.	.	1.251	1.005	246		-219	6539.3390	
2	15287.322	0	35345.225-	21057.925	22	.	.	3.5-	2.5	.	.	.	.	1.214	1.590	376			6539.5614	
1	15283.827	3C	21263.339-	36547.135	31	.	.	5.0-	4.0	.	.	.	.	0.610	1.080*	470	086		6541.0569	
1	15281.812	0	16595.109-	31876.909	12	.	.	3.0-	2.0	.	.	.	.	0.999	0.000*	0		-182	6541.9194	
1	15278.591	0	14737.788-	30016.377	2	.	.	3.0-	2.0	.	.	.	.	0.815	1.140	325		-326	6543.2985	
1	15276.470	9H	21420.983-	6144.515	2	3.0-	3.0	3.0-	3.0	1.663	1.473	.190		1.663	1.473	190	-030	-20	6544.2070	IS*	
1	15274.961	2	18046.108-	33321.067	2	.	.	4.0-	5.0	.	.	.	.	0.694	1.200*	506	+	41	6544.8535	
	15271.309	1									6546.4187		
1	15269.427	1	16202.112-	31471.542	-3	.	.	0.0-	1.0	.	.	.	.	0.000	2.188	0	-	-38	6547.2255	
2	15268.743	2	29259.700-	13990.952	-5	.	.	1.5-	1.5	.	.	.	.	1.250	1.728	478	-	-28	6547.5188	
1	15264.344	2	19236.116-	34500.445	15	.	.	7.0-	6.0	.	.	.	.	1.155	1.030	125		-250	6549.4058	
	15264.122	1									6549.5010		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES
1	15262.591	0	15856.838-31119.494			-15	.	.	1.0-	2.0	.	.	.	1.103	0.814	289		-175	6550.1580	
1	15258.526	7	24437.792- 9179.262			-4	4.0-	5.0	4.0-	5.0	1.505	1.450	.045	1.500	1.454*	46	108	106	6551.9030	
	15257.845	1					.	.	.	.	.	.	.	.	.	.		-153	6552.1955	
1	15257.285	1	33284.555-18627.281			2	.	.	1.0-	1.0	.	.	.	1.040	0.000*	0			6552.4355	
1	15255.745	2	20697.436-35953.183			-2	.	.	7.0-	8.0	.	.	.	1.250	1.105	145	-283	-283	6553.0974	
1	15254.230	1	12177.963-27432.195			-2	.	.	1.0-	1.0	.	.	.	0.525	1.130*	605	-368	-350	6553.7482	
	15253.661	1					.	.	.	.	.	.	.	.	.	.			6553.9927	
1	15252.358	6	18346.917-33599.280			-5	2.0-	2.0	2.0-	2.0	1.520	1.605	.085	1.518	1.606	88	-177	-177	6554.5526	HAZY
1	15251.107	3	15424.387-30675.497			-3	.	.	3.0-	2.0	.	.	.	1.106	0.375	731	-180	-181	6555.0903	
	15250.499	3					.	.	.	.	.	.	.	.	.	.			6555.3516	
	15248.959	1					.	.	.	.	.	.	.	.	.	.			6556.0136	
1	15248.647	1	14912.011-30160.664			-6	.	.	4.0-	4.0	.	.	.	0.496	1.030	534		-11	6556.1478	
1	15247.709	3	12322.613-27570.322			0	2.0-	3.0	2.0-	3.0	1.040	1.267	.227	1.036	1.265	229	-350	350	6556.5511	
	15243.870	1					.	.	.	.	.	.	.	.	.	.			6558.2023	
1	15243.373	0	15424.387-30667.769			-9	.	.	3.0-	4.0	.	.	.	1.106	1.265	159		-273	6558.4161	
1	15242.664	0	6313.866-21556.538			-8	.	.	4.0-	4.0	.	.	.	0.487	1.290	803		-408	6558.7212	
	15242.044	0					.	.	.	.	.	.	.	.	.	.			6558.9880	
1	15241.800	0	35644.175-20402.369			-6	.	.	4.0-	3.0	.	.	.	1.100	1.265*	165			6559.0930	
1	15238.238	3	14737.788-29976.039			-13	3.0-	4.0	3.0-	4.0	.800	1.058	.258	0.815	1.070	255	-173	-170	6560.6262	
	15237.676	0					.	.	.	.	.	.	.	.	.	.			6560.8682	
2	15236.599	1	25962.945-10726.322			-24	.	.	4.5-	4.5	.	.	.	1.065	1.391	326		189	6561.3320	
2	15236.387	0	30031.180-45267.550			17	.	.	3.5-	4.5	.	.	.	1.250	1.045	205			6561.4232	C2
2	15236.387	0	32399.895-17163.470			-38	.	.	4.5-	4.5	.	.	.	1.110	1.200*	90		355*	6561.4232	C2
	15236.103	3					.	.	.	.	.	.	.	.	.	.			6561.5456	
2	15235.771	5	15235.771- 0.000			0	0.5-	0.5	0.5-	0.5	1.780	3.140	1360	1.791	3.150	1359	177	177	6561.6885	
	15234.335	1H					.	.	.	.	.	.	.	.	.	.			6562.3071	
1	15233.904	1H	23416.666-38650.550			20	.	.	2.0-	2.0	.	.	.	1.320	0.785*	535		-77	6562.4927	
2	15232.414	0	36774.865-21542.435			-16	.	.	3.5-	2.5	.	.	.	1.127	1.279	152			6563.1346	
	15230.458	0					.	.	.	.	.	.	.	.	.	.			6563.9775	
1	15229.991	7	23004.649- 7774.653			-5	5.0-	4.0	5.0-	4.0	1.192	1.460	.268	1.196	1.463	267	146	146	6564.1788	
1	15229.346	3	14692.549-29921.899			-4	.	.	2.0-	2.0	.	.	.	0.292	1.070*	778	-280	-279	6564.4568	
1	15229.163	2	30974.813-15745.648			-2	.	.	3.0-	3.0	.	.	.	1.050	1.145*	95	292	292	6564.5357	
2	15227.784	4	17242.750- 2014.966			0	2.5-	1.5	2.5-	1.5	1.19	1.88	.69	1.200	1.881*	681	168	169	6565.1302	
1	15226.770	7	9724.351-24951.118			3	3.0-	3.0	3.0-	3.0	.441	.836	.388	0.442	0.840	398	-030	-29	6565.5674	
1	15225.363	0	16595.109-31820.494			-22	.	.	3.0-	4.0	.	.	.	0.999	1.240	241		-271	6566.1741	
1	15223.333	1	32988.621-17765.281			-7	.	.	3.0-	3.0	.	.	.	1.173	1.680*	507		198	6567.0497	
1	15222.788	2	13517.647-28740.433			2	.	.	2.0-	3.0	.	.	.665	0.892	0.970	78	-262	-258	6567.2848	
	15222.402	0					.	.	.	.	.	.	.	.	.	.			6567.4514	
1	15222.084	1	16155.109-31377.193			0	.	.	5.0-	4.0	.	.	.	0.948	0.973	25		-198	6567.5885	
1	15221.636	0	28749.920-13528.246			-38	.	.	2.0-	1.0	.	.	.	1.480	-0.590*	2070		251	6567.7818	
1	15221.191	0	21600.100-36821.290			1	.	.	6.0-	5.0	.	.	.	1.390	1.162	228		-300	6567.9739	
1	15220.440	3C	10486.922-25707.348			14	.	.	1.0-	2.0	.	.	.	0.355	0.720	365		-128	6568.2979	
	15218.974	0					.	.	.	.	.	.	.	.	.	.			6568.9306	
1	15218.528	0	20709.458-35928.010			-24	.	.	3.0-	4.0	.	.	.	1.240	0.960	280		49	6569.1232	
	15217.177	0					.	.	.	.	.	.	.	.	.	.			6569.7064	
2	15214.880	4	28541.215-13726.318			-17	2.5-	2.5	2.5-	2.5	.960	.780	.183	0.968	0.784	184	246	231	6570.6982	
2	15213.872	1	18152.580-33366.475			-23	.	.	0.5-	1.5	.	.	.	-0.510	0.129*	639		50	6571.1336	
	15212.891	1					.	.	.	.	.	.	.	.	.	.			6571.5573	
	15212.527	1					.	.	.	.	.	.	.	.	.	.			6571.7146	
1	15211.816	1	18672.411-33384.230			-3	.	.	6.0-	7.0	.	.	.	1.190	1.105*	85	-326	-321	6572.0217	
1	15211.618	2	16520.952-31732.582			-2	.	.	5.0-	5.0	.	.	.	0.736	1.049	313		-14	6572.1073	
1	15210.748	1	23738.988-13528.246			6	.	.	1.0-	1.0	.	.	.	1.892	-0.590*	2482		166	6572.4832	
1	15209.617	0	20043.465-35253.102			-20	.	.	5.0-	5.0	.	.	.	0.925	1.110*	185		-43	6572.9719	
1	15209.427	0	15249.635-30459.091			-29	.	.	2.0-	2.0	.	.	.	0.715	1.255	540		-304	6573.0540	
1	15208.654	1H	32935.135-17776.483			2	.	.	2.0-	2.0	.	.	.	0.757	0.565	192		-78	6573.3881	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	G6	G2	G1			G6	IS	IS
1	15207.292	1H	22895.208	-	13677.903	-13	.	.	2.0-	1.0	.	.	.	0.912	1.442	530	.	-91	6573.9768		
1	15204.838	4	9724.351	-	24929.184	5	3.0-	4.0	3.0-	4.0	.445	1.090	.645	0.442	1.080	638	-144	-146	6575.0379		
1	15201.794	9	24391.050	-	9179.262	6	.	.	5.0-	5.0	1.46	1.46	.	1.450	1.454*	4	-099	-99	6576.3544		
1	15201.117	1	33553.410	-	18652.287	-6	.	.	3.0-	3.0	.	.	.	1.021	0.822	199	.	-69	6576.6473		
1	15198.314	1	8768.139	-	23956.450	3	.	.	2.0-	3.0	.	.	.	0.362	0.760	398	.	-160	6577.8603		
1	15198.194	1	17911.977	-	33110.165	6	.	.	5.0-	4.0	.	.	.	1.145	1.220*	75	.	-258	6577.9122		
	15197.562	1							6578.1857	
1	15196.999	2	11840.715	-	27037.718	-4	.	.	3.0-	2.0	.	.	.	0.811	1.300*	489	-354	-341	6578.4295		
1	15196.743	6	19496.402	-	4299.659	0	3.0-	2.0	3.0-	2.0	1.55	1.48	.07	1.555	1.482	73	182	193	6578.5403		
1	15195.588	4	18346.917	-	33542.506	-1	2.0-	2.0	2.0-	2.0	1.52	1.12	.40	1.518	1.123	395	-126	-129	6579.0403		
	15194.626	3				044			6579.4568	
1	15193.055	8	21337.573	-	6144.515	-3	4.0-	3.0	4.0-	3.0	1.137	1.470	.333	1.137	1.473	336	123	126	6580.1372		
1	15191.802	1	19059.958	-	34251.764	-4	.	.	5.0-	4.0	.	.	.	1.375	1.005	370	.	-236	6580.6799		
1	15191.343	1	12351.522	-	27542.874	-9	.	.	6.0-	5.0	.	.	.	0.995	1.270*	275	.	-281	6580.8787		
1	15190.591	2B	17031.874	-	32272.487	-22	.	.	4.0-	3.0	.	.	.	1.217	0.000*	0	.	-295	6581.2045		
2	15190.523	2B	24432.860	-	9242.356	19	.	.	3.5-	3.5	.	.	.	1.110	1.369*	259	.	108	6581.2340		
2	15187.936	2	29621.300	-	14433.351	-13	.	.	1.5-	1.5	.	.	.	1.045	1.925	880	343	343*	6582.3550		
	15187.597	2							6582.5019	
1	15185.168	1	8768.139	-	23953.307	0	.	.	2.0-	2.0	.	.	.	0.362	1.265	903	.	-387	6583.5548		
	15184.068	1							6584.0318	
1	15183.054	2	16834.379	-	32017.434	-1	.	.	5.0-	4.0	.	.	.	0.961	1.020*	59	-226	-224	6584.4715		
	15181.031	2							6585.3490	
	15179.221	1							6586.1342	
1	15178.395	2	20385.328	-	35563.728	-4	.	.	2.0-	3.0	.	.	.	1.911	1.204	707	-138	-154	6586.4922		
1	15177.101	1	17911.977	-	33029.092	-14	.	.	5.0-	5.0	.	.	.	1.145	1.069	76	.	-290	6587.0542		
1	15176.661	3	16520.962	-	31697.633	-10	.	.	5.0-	4.0	.	.	.	0.736	1.187	451	084	90	6587.2452		
	15174.398	3								252			6588.2275	
2	15169.427	3	32332.915	-	17163.470	-18	.	.	4.5-	4.5	.	.	.	1.100	1.200*	100	223	216	6590.3865		
	15163.229	1							6590.9070	
2	15167.814	1	28894.140	-	13726.318	-8	.	.	3.5-	2.5	.	.	.	1.009	0.784	225	.	309	6591.0874		
2	15167.376	0	20689.110	-	35856.485	1	.	.	3.5-	3.5	.	.	.	1.270	1.025*	245	.	-298	6591.2777		
1	15155.943	4	25974.634	-	41140.580	-3	.	.	6.0-	7.0	.	.	.	1.370	1.470*	100	-086	-94	6591.9005		
	15161.181	1							6593.9710	
1	15160.934	3	17081.874	-	32242.810	-2	.	.	4.0-	5.0	.	1.215	.	1.217	1.215	2	-309	-307	6594.0784		
1	15158.187	3	14763.705	-	29921.899	-7	.	.	1.0-	2.0	.	.	.	-0.066	1.070*	1136	-281	-279	6595.2734		
1	15156.808	1	21263.339	-	36420.170	-23	.	.	5.0-	5.0	.	.	.	0.610	1.025*	415	.	-26	6595.8735		
2	15156.324	2	35332.255	-	20175.895	24	.	.	2.5-	3.5	.	.	.	1.263	1.515	252	249	226	6596.0580		
1	15155.978	1	32728.585	-	17572.608	1	.	.	3.0-	2.0	.	.	.	0.947	0.555	392	.	129	6596.2347		
2	15155.594	3	22653.965	-	7498.364	-7	.	.	2.5-	2.5	.	.	.	1.360	1.321*	39	203	201	6596.4018		
2	15154.820	0	27162.335	-	12007.503	-12	.	.	1.5-	1.5	.	.	.	1.046	-0.019	1065	.	279	6596.7387		
1	15154.195	1	32459.347	-	17305.142	-10	.	.	3.0-	2.0	.	.	.	1.118	0.000*	0	.	-80	6597.0108		
2	15153.675	4	22652.035	-	7498.364	4	.	.	3.5-	2.5	.	.	.	1.185	1.321	136	176	177	6597.2372		
1	15152.192	3	12159.465	-	27311.658	-1	.	.	4.0-	5.0	.	.	.	0.844	1.035	191	.	-81	6597.8829		
2	15150.122	4	23788.355	-	8638.233	0	6.5-	5.5	6.5-	5.5	1.327	1.514	.187	1.325	1.514	189	171	168	6598.7844		
1	15148.173	0	14737.788	-	29885.947	14	.	.	3.0-	3.0	.	.	.	0.815	1.330*	515	.	-375	6599.6334		
	15147.798	1							6599.7968	
1	15147.550	2	16304.260	-	31451.814	-4	.	.	4.0-	4.0	.	.	.	1.285	1.080	205	.	-145	6599.9048		
1	15144.443	1	18297.584	-	34042.040	-13	.	.	5.0-	4.0	.	.	.	1.280	0.806	474	.	-157	6601.2588		
1	15144.229	1	20784.195	-	36128.425	-1	.	.	6.0-	7.0	.	.	.	1.319	1.060	259	.	-118	6601.3521		
1	15135.712	0	16834.379	-	31970.100	-9	.	.	5.0-	4.0	.	.	.	0.961	1.100*	139	.	-179	6605.0668		
	15135.557	1							6605.1344	
1	15133.482	4	25371.962	-	10238.473	-7	6.0-	6.0	6.0-	6.0	1.17	1.43	.255	1.165	1.431	266	-048	-47	6606.0401		
2	15130.161	3	22409.025	-	7278.862	-2	5.5-	4.5	5.5-	4.5	1.205	1.545	.340	1.205	1.545	340	163	163	6607.4901		
	15129.828	1							6607.6355	
1	15128.997	1H	17081.874	-	32210.885	-14	.	.	4.0-	4.0	.	.	.	1.217	0.995	222	.	-96	6607.9985		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	15128.179	1H																	6608.3558	
1	15126.825	9H	19426.512	-	4299.659	-28	.	.	3.0-	2.0	1.440	1.480	.040	1.435	1.482	47	078	80	6608.9473	
1	15123.566	2	16155.109	-	31278.667	-12	.	.	5.0-	5.0	.	.	.	0.948	1.010*	62		-115	6610.3802	
2	15123.178	2	29556.550	-	14433.351	-21	.	.	1.5-	1.5	.	.	.	0.484	1.925	1441	187	189	6610.5411	
1	15122.556	2	20830.616	-	35953.183	-11	.	.	8.0-	8.0	.	.	.	1.110	1.105*	5	-293	-292	6610.8130	
	15120.985	1																	6611.4998	
2	15114.948	1	32154.455	-	17039.487	-20	.	.	0.5-	1.5	.	.	.	1.970	1.354*	616			6614.1405	
1	15114.391	6	22839.053	-	7774.653	-9	4.0-	4.0	4.0-	4.0	1.263	1.464	.201	1.263	1.463	200	133	138	6614.3843	
2	15112.233	4	22838.570	-	13726.318	-19	3.5-	2.5	3.5-	2.5	.845	.780	.065	0.845	0.784	61	270	269	6615.3288	
1	15110.437	0	33762.720	-	18652.287	4	.	.	4.0-	3.0	.	.	.	1.120	0.822	298		-39*	6616.1151	
	15109.819	1																-208	6616.3857	
1	15106.459	2H	21031.258	-	36137.730	-13	.	.	2.0-	2.0	.	.	.	1.455	1.525	70	+	23	6617.8573	HAZY
1	15104.955	0	16834.379	-	31939.345	-11	.	.	5.0-	6.0	.	.	.	0.961	1.200*	239		-314	6618.5163	
1	15103.881	7	6313.856	-	21417.765	-18	4.0-	4.0	4.0-	4.0	.480	.800	.320	0.487	0.802	315	042	41	6618.9869	
2	15098.799	7	15098.815	-	0.000	-16	1.5-	0.5	1.5-	0.5	1.073	3.140	2067	1.079	3.150	2071	419	413	6621.2147	
1	15096.671	6	20395.328	-	35482.018	-19	2.0-	3.0	2.0-	3.0	1.91	1.68	.23	1.911	1.679	232	-062	-60	6622.1481	
2	15095.466	3	24337.845	-	9242.356	-23	.	.	2.5-	3.5	.	.	.	0.900	1.369	469	119	112	6622.6767	
1	15094.498	3	9386.801	-	24481.313	-14	.	.	5.0-	6.0	.	.	.	0.801	0.000*	0	-241	-246	6623.1014	
1	15093.095	4	22710.370	-	37803.470	-5*	10.0-	9.0	10.0-	9.0	1.26	1.22	.04	1.260	1.220*	40	-205	-208	6623.7171	
1	15091.294	2	24091.173	-	39182.490	-23	.	.	3.0-	2.0	.	.	.	1.245	0.990*	255	+	7	6624.5075	
2	15090.291	1	29783.410	-	14693.090	-29	.	.	0.5-	0.5	.	.	.	2.590	0.840*	1750		35*	6624.9479	
1	15087.920	4	16888.909	-	31976.844	-15	6.0-	7.0	6.0-	7.0	1.098	1.095	.003	1.098	1.095	3	-169	-169	6625.9889	
1	15083.238	9H	21227.793	-	6144.515	-40	4.0-	3.0	4.0-	3.0	1.342	1.466	.124	1.346	1.473	127	031	83	6628.0457	
1	15081.939	2	19074.292	-	34156.245	-14	.	.	2.0-	1.0	.	.	.	1.532	1.305	227	-113	-117	6628.6166	
	15031.546	1																	6628.7893	
1	15076.651	1	16734.151	-	31810.821	-19	.	.	2.0-	2.0	.	.	.	0.928	0.865	63		-112	6630.9416	
1	15076.024	2	13517.647	-	28593.749	-18	2.0-	1.0	2.0-	1.0	.892	1.713	.821	0.892	1.713	821	-360	-365	6631.1909	
1	15073.058	4	19959.027	-	35032.090	-5	1.0-	0.0	1.0-	0.0	.77	.00	.	0.760	0.000*	0	049	49*	6632.5222	
1	15071.998	3	28749.920	-	13677.903	-19	2.0-	1.0	2.0-	1.0	1.48	1.44	.04	1.480	1.442*	38		6	6632.9887	
1	15071.296	1	12159.465	-	27230.768	-7	.	.	4.0-	4.0	.	.	.	0.844	0.000*	0		-403	6633.2976	
	15070.079	2																205	6633.8333	
1	15068.547	2	15249.635	-	30318.195	-13	.	.	2.0-	2.0	.	.	.	0.715	0.940	225	-224	-228	6634.5078	
1	15068.140	1	19059.953	-	34128.094	4	.	.	5.0-	4.0	.	.	.	1.375	0.000*	0		-237	6634.6870	C2
2	15068.140	1	35390.520	-	20322.349	-31	.	.	5.5-	6.5	.	.	.	1.055	1.314	259		399*	6634.6870	C2
1	15067.127	1	13726.661	-	28793.800	-12	.	.	3.0-	3.0	.	.	.	1.150	1.083	67	-299	-295	6635.1330	
1	15066.313	1	20984.195	-	36050.540	-32	.	.	6.0-	6.0	.	.	.	1.319	0.830*	489		-130	6635.4915	
1	15064.798	2	15249.635	-	30314.443	-10	.	.	2.0-	3.0	.	.	.	0.715	1.140*	425	-301	-300	6636.1588	
1	15064.026	1	14912.011	-	29976.039	-2	.	.	4.0-	4.0	.	.	.	0.496	1.070	574		1	6636.4989	
1	15062.424	4	22837.092	-	7774.653	-15	3.0-	4.0	3.0-	4.0	1.115	1.465	.350	1.110	1.463*	353	149	152	6637.2048	
1	15060.028	2	11747.245	-	26807.278	-5	.	.	0.0-	1.0	.	.	.	0.000	0.550	0	-412	-406	6638.2607	
2	15058.364	5	17073.340	-	2014.966	-10	1.5-	1.5	1.5-	1.5	.575	1.880	1305	0.576	1.881	1305	165	166	6638.9943	
	15057.901	1																-314	6639.1984	
1	15052.452	0	24381.050	-	39433.510	-8	.	.	5.0-	4.0	.	.	.	1.450	0.925*	525		9	6641.6018	C2
1	15052.452	0	23720.664	-	32773.125	-9	.	.	3.0-	2.0	.	.	.	0.790	1.038*	248		4	6641.6018	C2
1	15050.450	1	16828.909	-	31939.345	14	.	.	6.0-	6.0	.	.	.	1.098	1.200*	102		-339	6642.4853	
2	15047.823	1	28774.175	-	13726.318	-34	3.5-	2.5	3.5-	2.5	.	.	.	1.140	0.784*	356		372	6643.6449	
1	15043.303	2	9724.351	-	24767.674	-20	3.0-	2.0	3.0-	2.0	.442	1.455	1013	0.442	1.455	1013	-399	-399	6645.6411	
	15040.533	0																	6646.8651	
1	15040.201	1	18346.917	-	33387.151	-33	.	.	2.0-	2.0	.	.	.	1.518	1.288	230	-165	-180	6647.0118	
	15039.446	0																	6647.3455	
1	15038.230	3	8768.139	-	23806.381	-12	.	.	2.0-	1.0	.	.	.	0.362	0.094	268	-117	-121	6647.8830	
1	15037.636	5	28565.887	-	13528.246	-5	2.0-	1.0	2.0-	1.0	.91	-0.59	1.50	0.911	-0.590*	1501	100	101	6648.1456	
1	15037.003	7	24216.272	-	9179.262	-7	6.0-	5.0	6.0-	5.0	1.003	1.452	.449	1.005	1.454	449	157	155	6648.4255	
1	15034.698	3	15424.387	-	30459.091	-6	.	.	3.0-	2.0	.	.	.	1.106	1.255	149	-297	-297	6649.4447	
	15030.405	1																	6651.3440	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	15029.336	5		9724.351-24753.684		3		3.0-	4.0	3.0-	4.0	.448	.980	.532	0.442	0.975	533	-171	-173	6651.8171		
1	15027.038	0		21227.793-36254.860		-29		.	.	4.0-	5.0	.	.	.	1.346	1.030	316		-80	6652.8343		
1	15026.749	1		20043.465-35070.230		-16		.	.	5.0-	5.0	.	.	.	0.925	0.869	56		96	6652.9623		
	15026.011	0H						6653.2890	
1	15024.511	3		18672.411-33596.921		1		.	.	6.0-	6.0	.	.	.	1.190	1.100*	90	-071	-70	6653.9533		
1	15023.735	2		24153.741-39182.490		-14		.	.	2.0-	2.0	.	.	.	1.240	0.990*	250	+	14	6654.2970		
2	15023.233	1		33784.830-18761.580		-17		.	.	4.5-	5.5	.	.	.	1.070	1.296	226			6654.5193		
	15021.557	1						229			6655.2618	
1	15020.603	5		18578.669-33599.280		-8		1.0-	2.0	1.0-	2.0	1.93	1.605	.325	1.932	1.606	326	-	-32	6655.6845		
	15019.910	1						+			6655.9916	
2	15018.839	1		19277.180-34296.050		-31		.	.	3.5-	4.5	.	.	.	0.847	0.768	79		-162	6656.4662		
	15018.037	1									6656.8217	
1	15014.871	3		16520.962-31535.835		-2		.	.	5.0-	5.0	.	.	.	0.736	1.020	284	-087	-86	6658.2253		
	15014.025	1									6658.6005	
1	15013.769	2		13726.661-28740.433		-3		.	.	3.0-	3.0	.	.	.	1.150	0.970	180	-268	-271	6658.7141		
1	15006.497	5		13726.661-28733.159		-1		3.0-	4.0	3.0-	4.0	1.140	1.021	.119	1.150	1.035	115	-107	-109	6661.9408		
	15004.218	2									6662.9527	
1	15003.408	1		32308.557-17305.142		-7		.	.	2.0-	2.0	.	.	.	1.327	0.000*	0		-95	6663.3124	C3	
1	15003.408	1		19426.512-34429.910		10		.	.	3.0-	3.0	.	.	.	1.435	0.910	525		-106	6663.3124	C3	
1	15003.408	1		25044.687-40048.080		15*		.	.	4.0-	3.0	.	.	.	1.210	1.005*	205			6663.3124	C3	
	15003.059	1									6663.4674	
2	15001.067	0		31739.610-46740.710		-33		.	.	2.5-	1.5	.	.	.	1.170	0.930*	240			6664.3523		
	14998.662	0									6665.4209	
1	14998.171	5		14292.176-29290.355		-8		5.0-	6.0	5.0-	6.0	.895	.860	.035	0.970	0.920	50	-195	-196	6665.6391		
	14997.371	4						1.62	1.62	+			6665.9947	
1	14997.140	1		21420.983-36418.125		-2		.	.	3.0-	4.0	.	.	.	1.663	1.075	588		3	6666.0974		
1	14992.957	4		16888.909-31851.871		-5		6.0-	7.0	6.0-	7.0	1.10	1.12	.02	1.098	1.120	22	-153	-152	6667.9572		
1	14991.063	0		32296.170-17305.142		35*		.	.	1.0-	2.0	.	.	.	0.935	0.000*	0		-76	6668.7997		
1	14990.474	1		19959.027-34949.520		-19		.	.	1.0-	2.0	.	.	.	0.760	1.085*	325		102	6669.0617		
2	14989.641	4		28715.965-13726.318		-6		1.5-	2.5	1.5-	2.5	.888	.791	.097	0.875	0.784	91	409	405	6669.4323		
1	14989.237	1		32294.378-17305.142		1		.	.	2.0-	2.0	.	.	.	1.016	0.000*	0		-79	6669.6121	C2	
1	14989.237	1		20065.327-35054.565		-1		.	.	3.0-	3.0	.	.	.	0.998	0.998	0		-211	6669.6121	C2	
2	14988.638	1		38238.390-23249.745		-7		.	.	5.5-	4.5	.	.	.	1.095	1.475	380			6669.8786		
1	14987.522	2		18046.108-33033.638		-8		.	.	4.0-	3.0	.	.	.	0.694	0.910	216	-040	-39	6670.3753		
1	14986.103	2		16834.379-31820.494		-12		.	.	5.0-	4.0	.	.	.	0.961	1.240	279	-288	-288	6671.0069		
1	14984.472	2		14025.007-29009.483		-4		.	.	4.0-	4.0	.	.	.	0.975	0.695	280	-176	-177	6671.7330		
	14983.928	1H									6671.9752	
1	14982.252	9		19281.917-4299.659		-6		2.0-	2.0	2.0-	2.0	1.822	1.481	.341	1.822	1.482	340	159	159	6672.7216		
1	14979.666	1		11840.715-26320.330		1		.	.	3.0-	2.0	.	.	.	0.811	1.160	349		-294	6673.8735		
1	14978.896	1		24751.439-9772.532		-11		.	.	1.0-	0.0	.	.	.	0.647	0.000	0	-	-8	6674.2166		
	14978.235	1									6674.4844	
	14978.026	1H									6674.6043	
1	14975.633	1		34283.083-19307.447		-3		.	.	5.0-	4.0	.	.	.	1.110	0.000*	0	-065	-65	6675.6708		
1	14974.726	1		33627.017-18652.287		-4		.	.	2.0-	3.0	.	.	.	1.304	0.822	482		-29	6676.0752		
	14972.669	1									6676.9924	
	14970.783	4C						1.35	1.35	.00					6677.8335	HAZY
1	14970.096	5		24149.361-9179.262		-3		5.0-	5.0	5.0-	5.0	1.255	1.450	.195	1.262	1.454	192	-	-6	6678.1400		
2	14969.344	0		31255.945-16286.582		-19		.	.	1.5-	0.5	.	.	.	0.921	0.122	1043		295	6678.4755		
2	14968.539	1		33634.550-18666.006		-5		.	.	1.5-	2.5	.	.	.	1.230	1.365*	135		267*	6678.8346		
1	14966.512	1		15249.635-30216.163		-16		.	.	2.0-	2.0	.	.	.	0.715	1.143	428		-221	6679.7392		
2	14965.227	1		36256.590-21291.350		-13		.	.	3.5-	4.5	.	.	.	1.115	1.590	475			6680.3128		
1	14964.289	1		19776.904-34741.198		-5		.	.	6.0-	5.0	.	.	.	1.012	1.070	58		-216	6680.7315		
1	14963.835	4		18578.669-33542.506		-2		1.0-	2.0	1.0-	2.0	1.93	1.13	.80	1.932	1.123	809		16	6680.9342		
2	14963.281	1		33629.300-18666.006		-13		.	.	2.5-	2.5	.	.	.	1.242	1.365	123		152	6681.1816		
	14961.951	2									6681.7755	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	14960.487	3	29393.835-14433.351	3		.	.	0.5-	1.5	.	.	.	-0.516	1.925	2441	186	187	6682.4293	
1	14960.134	3	12351.522-27311.658	-2		.	.	6.0-	5.0	.	.	.	0.995	1.035	40	-090	-87	6682.5870	
1	14956.867	2B	32280.169-17323.291	-11		.	.	5.0-	4.0	.	.	.	1.150	1.250*	100		160	6684.0467	
	14956.782	2B				.	.			.	.	.						6684.0847	
1	14948.323	1	31724.867-16776.530	-14		.	.	2.0-	1.0	.	.	.	1.016	0.000*	0		145	6687.8671	
	14947.911	2H				.	.			.	.	.				321		6688.0514	
1	14945.726	3	10486.922-25432.655	-7		1.0-	2.0	1.0-	2.0	.35	1.27	.92	0.355	1.281	926	+	30	6689.0292	
1	14945.297	5	22719.949-7774.653	1		4.0-	4.0	4.0-	4.0	1.075	1.460	.385	1.070	1.463	393	-053	-51	6689.2212	
	14942.741	3H				.	.			.76	.76							6690.3654	
1	14941.905	3H	20540.110-35482.018	-3		.	.	3.0-	3.0	.	.	.	0.830	1.679*	849		-82	6690.7398	
1	14934.532	4	9724.351-24658.931	2		3.0-	4.0	3.0-	4.0	.	.	.	0.442	1.080	638	-054	-62	6694.0205	
1	14932.453	1	14692.549-29625.003	-1		.	.	2.0-	2.0	.	.	.	0.292	0.910*	618	-191	-196	6694.9749	
1	14931.646	2	16155.109-31086.744	11		.	.	5.0-	5.0	.	.	.	0.948	0.795	153	-045	-36	6695.3368	
1	14930.840	2	16520.962-31451.814	-12		.	.	5.0-	4.0	.	.	.	0.736	1.080	344	076	73	6695.6982	
1	14929.295	3	17081.874-32011.173	-4		.	.	4.0-	3.0	.	.	.	1.217	1.140*	77	-176	-180	6696.3911	
2	14928.185	1	29621.300-14693.090	-25		.	.	1.5-	0.5	.	.	.	1.045	0.840	205		85*	6696.8891	
2	14924.638	0	31274.745-46199.395	-12		.	.	2.5-	3.5	.	.	.	1.200	0.955*	245			6698.4807	
1	14923.897	0	17500.977-32424.890	-16		.	.	1.0-	1.0	.	.	.	2.258	1.770*	488		-126	6698.8132	
1	14923.466	1	20043.465-34966.946	-15		.	.	5.0-	4.0	.	.	.	0.925	1.025	100		-61	6699.0067	
1	14922.783	2	18046.108-32968.906	-15		.	.	4.0-	4.0	.	.	.	0.694	1.115	421	+	29	6699.3133	
1	14919.698	2	16532.104-31451.814	-12		.	.	3.0-	4.0	.	.	.	0.300	1.080	780	055	69	6700.6986	
1	14919.530	2	21031.258-35950.800	-12		.	.	2.0-	3.0	.	.	.	1.455	1.005	450	-216		6700.7740	
	14918.967	1				.	.			.	.	.						6701.0269	
1	14917.789	1	23446.024-13528.246	11		.	.	1.0-	1.0	.	.	.	0.745	-0.590*	1335		131	6701.5561	
1	14917.439	0	23281.721-38199.170	-10		.	.	5.0-	6.0	.	.	.	1.235	1.068	167		-47	6701.7133	
2	14916.801	3	18152.580-3235.770	-9		0.5-	0.5	0.5-	0.5	-0.525	.290	.815	-0.510	0.299*	809	180	161	6701.9999	
	14916.562	1				.	.			.	.	.						6702.1073	
	14915.594	0				.	.			.	.	.						6702.5423	
	14914.795	0				.	.			.	.	.						6702.9013	
	14913.131	1				.	.			.	.	.						6703.6493	
1	14912.131	3	14292.176-29204.308	-1		.	.	5.0-	5.0	.	.	.	0.970	0.896	74	-221	-216	6704.0988	
1	14911.427	1	15406.760-30318.195	-8		.	.	1.0-	2.0	.	.	.	0.890	0.940	50		-157	6704.4153	
1	14908.263	3	22307.633-37215.900	-4		.	.	3.0-	4.0	.	.	.	1.434	1.485	51	-144	-146	6705.8382	
	14906.819	1				.	.			.	.	.						6706.4878	
	14905.355	1				.	.			.	.	.						6707.1330	
1	14903.747	9	19203.415-4299.659	-9		2.0-	2.0	2.0-	2.0	1.018	1.478	.460	1.021	1.482	461	156	153	6707.8702	
	14903.225	3				.	.			.	.	.						6708.1051	
	14899.682	4				1.0-	2.0			.	.	.						6709.7003	PBQ
2	14896.346	1	28887.310-13990.952	-12		0.5-	1.5	0.5-	1.5	.162	1.733	1571	0.162	1.728	1566		22	6711.2029	
1	14894.568	2	20697.436-35591.995	9		.	.	7.0-	8.0	.	.	.	1.250	1.105	145	-204	-203	6712.0040	
1	14893.804	2	15424.387-30318.195	-4		.	.	3.0-	2.0	.	.	.	1.106	0.940	166		-221	6712.3483	
2	14893.159	4	30381.705-15488.530	-16		.	.	3.5-	3.5	1.108	1.070	.038	1.109	1.057	52	255	255	6712.6390	
1	14891.831	3	19236.116-34127.955	-8		7.0-	8.0	7.0-	8.0	1.15	1.16	.01	1.155	1.185	30	-134	-138	6713.2376	
1	14887.975	1	28565.887-13677.903	-9		.	.	2.0-	1.0	.	.	.	0.911	1.442	531		-144	6714.9764	
2	14887.777	1	25514.115-10726.322	-16		.	.	3.5-	4.5	.	.	.	1.480	1.391*	89	158	163	6715.0657	
1	14886.740	4	21031.258-6144.515	-3		2.0-	3.0	2.0-	3.0	1.46	1.47	.01	1.455	1.473	18	-123	-130	6715.5335	
	14886.153	1				.	.			.	.	.						6715.7983	
1	14885.654	1	18147.975-33033.638	-9		.	.	3.0-	3.0	.	.	.	1.049	0.910	139	-282	-273	6716.0234	
1	14884.321	3	15249.635-30133.953	3		.	.	2.0-	3.0	.	.	.	0.715	1.200*	485	-271	-271	6716.6249	
	14882.638	1				.	.			.	.	.						6717.3844	
1	14881.731	3	14763.705-29645.433	3		1.0-	1.0	1.0-	1.0	-0.055	.695	.750	-0.066	0.705	771	-299	-301	6717.7938	
1	14881.135	4	16532.104-31413.230	9		.	.	3.0-	3.0	.	.	.	0.300	0.742	442		76	6718.0629	
1	14880.821	3	24653.345-9772.532	8		.	.	1.0-	0.0	.	.	.	0.860	0.000*	0		-12	6718.2047	
1	14878.724	1	22429.984-37308.707	1		.	.	4.0-	4.0	.	.	.	1.279	1.040	239		-1	6719.1515	
1	14875.271	6	25113.744-10238.473	0		6.0-	6.0	6.0-	6.0	1.299	1.427	.128	1.302	1.431	129	-	-41	6720.7113	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	14874.837	1	19872.154-34746.981		10		.	.	9.0- 8.0	.	.	.	.	1.199	0.000*	0		-80	6720.9073	
	14874.354	1					.	.		.	.	.	.					+	6721.1256	
2	14873.698	1	37373.930-22500.225		-7		.	.	4.5- 5.5	.	.	.	.	1.175	1.555	380			6721.4220	
2	14873.365	3	31619.095-16745.720		-10		.	.	1.5- 2.5	.	.	.	.	1.613	1.671	58	244	244*	6721.5725	
2	14872.539	1	29621.300-44493.850		-11		.	.	1.5- 1.5	.	.	.	.	1.045	1.110*	65			6721.9458	
2	14869.096	2	32032.585-17163.470		-19		.	.	4.5- 4.5	.	.	.	.	1.335	1.200	135	298	293	6723.5023	
1	14866.046	2	14692.549-29558.591		4		.	.	2.0- 2.0	.	.	.	.	0.292	1.030	738	-391	-389	6724.8818	
	14864.627	1					.	.		.	.	.	.						6725.5237	
1	14863.431	1	17045.776-31909.212		-5		.	.	1.0- 1.0	.	.	.	.	1.474	0.838	586		204	6726.0649	
1	14861.272	0	14763.705-29525.003		-26		.	.	1.0- 2.0	.	.	.	.	-0.066	0.910*	976		-196	6727.0421	
1	14859.985	2	26374.994-41234.990		-11		.	.	4.0- 4.0	.	.	.	.	0.000	1.080	0	070	-29	6727.6247	
1	14858.503	6	9724.351-24582.849		5		3.0-	2.0	3.0- 2.0	.440	.637	.197		0.442	0.640	198	-040	-39	6728.2957	IS*
	14857.435	0					.	.		.	.	.	.						6728.7794	
1	14857.065	1	26283.495-41140.580		-20		.	.	7.0- 7.0	.	.	.	.	1.080	1.470	390		-34	6728.9469	
1	14856.705	3	16595.109-31451.814		0		.	.	3.0- 4.0	.	.	.	.	0.999	1.080	81	-100	-102	6729.1100	
1	14856.228	2	16520.962-31377.193		-3		.	.	5.0- 4.0	.	.	.	.	0.736	0.973	237		16	6729.3261	
1	14855.890	2	31460.669-16604.786		7		.	.	7.0- 6.0	.	.	.	.	1.140	0.950*	190	051	57	6729.4792	
1	14854.271	2	20709.458-35563.728		1		.	.	3.0- 3.0	.	.	.	.	1.240	1.204	36	-186	-180	6730.2126	
	14853.739	1					.	.		.	.	.	.						6730.4537	
	14853.220	0					.	.		.	.	.	.						6730.6889	
2	14850.609	1	30339.150-15488.530		-11		.	.	4.5- 3.5	.	.	.	.	1.154	1.057	97	411	410	6731.8722	
1	14848.502	4H	23909.585-38758.100		-13		.	.	5.0- 5.0	.	.	.	.	1.242	1.530	288	-173	-172	6732.8275	HAZY
1	14844.654	4	25083.129-10238.473		0		.	.	5.0- 6.0	.	.	.	.	1.160	1.431*	271	178	174	6734.5719	
2	14844.199	3	26643.435-11799.241		5		.	.	5.5- 5.5	.	.	.	.	1.420	1.373*	47	145	158	6734.7792	
1	14843.671	5	16288.909-31732.582		-2		.	.	6.0- 5.0	.	.	.	.	1.098	1.049	49	-228	-231	6735.0188	
	14843.121	1					.	.		.	.	.	.						6735.2683	
1	14842.170	7	17045.776- 2203.606		0		.	.	1.0- 1.0	1.475	1.495	.020		1.474	1.495	21	-083	-83	6735.6999	
	14835.272	0					.	.		.	.	.	.						6738.8318	
1	14834.879	1	13726.661-28561.548		-8		.	.	3.0- 2.0	.	.	.	.	1.150	0.784	366	-176	-173	6739.0104	
	14834.323	0					.	.		.	.	.	.						6739.2629	
1	14833.253	9	24012.505- 9179.262		10		6.0-	5.0	6.0- 5.0	1.245	1.451	.206		1.248	1.454	206	096	96	6739.7491	
1	14832.472	1	20521.579-35354.050		1		.	.	6.0- 7.0	.	.	.	.	1.246	0.000*	0		-149	6740.1040	C2
1	14832.472	1	25916.069-40748.540		1*		.	.	3.0- 3.0	.	.	.	.	1.350	1.020*	330			6740.1040	C2
2	14830.441	1	35288.345-21057.925		21		.	.	2.5- 2.5	.	.	.	.	0.965	1.590	625		398*	6741.0270	
1	14828.004	0	21515.136-36343.140		0*		.	.	1.0- 0.0	.	.	.	.	1.180	0.000*	0		-155	6742.1349	
1	14827.719	1	21812.682-36640.400		1		.	.	4.0- 3.0	.	.	.	.	1.040	1.035	5		-38	6742.2645	
2	14826.340	3	29259.700-14433.351		-9		1.5-	1.5	1.5- 1.5	1.247	1.922	.675		1.250	1.925	675	257	255	6742.8916	
1	14825.494	1H	19281.917-34107.378		33		.	.	2.0- 3.0	.	.	.	.	1.822	1.160*	662		-199	6743.2764	
	14824.933	1H					.	.		.	.	.	.						6743.5316	
1	14823.453	3	10486.922-25310.375		0		.	.	1.0- 0.0	.	.	.	.	0.355	0.000	0		4	6744.2049	
2	14822.514	4	26830.020-12007.503		-3		.	.	0.5- 1.5	.	.	.	.	-0.097	-0.019	78	371	372	6744.6321	
1	14321.083	0	20384.195-35305.270		8		.	.	6.0- 5.0	.	.	.	.	1.319	1.075	244		-150	6745.2833	
1	14820.421	0	31425.212-16404.786		-5		.	.	7.0- 6.0	.	.	.	.	1.170	0.950*	220		14	6745.5846	
1	14818.590	0	15856.888-30575.497		-19		.	.	1.0- 2.0	.	.	.	.	1.103	0.375	728		-129	6746.4181	
1	14818.116	2	16595.109-31413.230		-5		.	.	3.0- 3.0	.	.	.	.	0.999	0.742	257	-095	-95	6746.6339	
1	14816.921	1	14737.788-29354.716		-7		.	.	3.0- 3.0	.	.	.	.	0.815	0.831	16	-187	-187	6747.1780	
1	14815.167	3	9226.801-24202.966		2		.	.	5.0- 5.0	.	.	.	.	0.801	1.012	211		-3	6747.5214	
1	14813.540	2	20330.616-35544.180		-24		.	.	8.0- 7.0	.	.	.	.	1.110	1.070*	40	-184	-176	6748.7180	
	14812.180	1					.	.		.	.	.	.					179	6749.3468	
2	14811.420	1	28202.375-13990.952		-3		.	.	0.5- 1.5	.	.	.	.	0.800	1.728	928	301	320	6749.6840	
1	14809.521	3C	14025.007-28334.535		-7		.	.	4.0- 5.0	.	.	.	.	0.975	0.978	3	-149	-159	6750.5495	
	14809.062	0					.	.		.	.	.	.						6750.7678	
	14808.866	1					.	.		.	.	.	.						6750.8481	
1	14808.481	2	18578.669-33387.151		-1		.	.	1.0- 2.0	.	.	.	.	1.932	1.288	644	-028	-35	6751.0236	
2	14802.492	1	31351.800-46154.290		2		.	.	4.5- 3.5	.	.	.	.	1.120	1.090*	30			6753.7550	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1							G2	G1			DG	IS	IS
2	14801.045	1	36663.170	-	21862.135	10	.	.	1.5-	2.5	.	.	.	1.635	1.320*	315	.	.	6754.4153	
	14800.428	0					.	.			.	.	.				.	.	6754.6969	
1	14799.331	1	18897.584	-	33696.921	-6	.	.	5.0-	6.0	.	.	.	1.280	1.100*	180	.	.	6755.1976	
1	14797.870	1	15406.760	-	30204.635	-5	.	.	1.0-	1.0	.	.	.	0.890	0.590*	300	.	.	6755.8645	
1	14795.671	2	32118.980	-	17323.291	-18	.	.	4.0-	4.0	.	.	.	1.039	1.250*	211	+	150	6756.8686	
1	14794.819	0	24824.706	-	39619.530	-5*	.	.	4.0-	4.0	.	.	.	1.145	1.115	30	.	.	6757.2577	
1	14794.225	1	16834.379	-	31628.619	-15	.	.	5.0-	6.0	.	.	.	0.961	1.110	149	.	.	6757.5290	
1	14791.773	2	15424.387	-	30216.163	-3	.	.	3.0-	2.0	.	.	.	1.106	1.143	37	-213	-214	6758.6492	
2	14789.623	5	20291.680	-	5502.060	3	1.5-	1.5	1.5-	1.5	1.382	1.174	.208	1.377	1.169	208	167	169	6759.6318	
1	14783.875	4	10486.922	-	25275.795	2	1.0-	1.0	1.0-	1.0	.35	.71	.36	0.355	0.706	351	-	-29	6759.9737	
1	14787.186	2	21263.339	-	36050.540	-15	.	.	5.0-	6.0	.	.	.	0.610	0.830*	220	138	153	6760.7458	
1	14785.928	3W	22429.984	-	37215.900	12	.	.	4.0-	4.0	.	.	.	1.279	1.485	206	.	-33	6761.3210	
1	14784.960	0	16155.109	-	30940.068	1	.	.	5.0-	5.0	.	.	.	0.948	1.080	132	.	-90	6761.7637	
	14783.824	0					.	.			.	.	.				.	.	6762.2833	
	14783.231	0					.	.			.	.	.				.	.	6762.5545	
1	14782.487	0	16304.260	-	31086.744	3	.	.	4.0-	5.0	.	.	.	1.285	0.795	490	.	-40	6762.8949	
1	14780.565	1	18147.975	-	32928.540	0	.	.	3.0-	2.0	.	.	.	1.049	1.060*	11	-221	-217	6763.7743	
	14778.034	1					.	.			.	.	.				.	.	6764.9327	
1	14774.631	9	19074.292	-	4299.659	-2	2.0-	2.0	2.0-	2.0	1.535	1.481	.054	1.532	1.482	50	-020	-20	6766.4909	IS*
	14773.614	0					.	.			.	.	.				.	.	6766.9567	
1	14772.558	6	20709.458	-	35432.018	-2	3.0-	3.0	3.0-	3.0	1.25	1.69	.44	1.240	1.679	439	-075	-86	6767.4404	
2	14770.796	1	33532.385	-	18761.580	-9	.	.	5.5-	5.5	.	.	.	1.341	1.296	45	303	303	6768.2477	
1	14770.290	4	13726.661	-	28496.950	1	3.0-	4.0	3.0-	4.0	.	.	.34	1.150	0.810	340	-205	-202	6768.4796	
1	14768.797	2	14025.007	-	28793.800	4	.	.	4.0-	3.0	.	.	.	0.975	1.083	108	-298	-294	6769.1638	
1	14766.565	1	20877.600	-	35644.180	-15	.	.	7.0-	7.0	.	.	.	1.060	1.070*	10	+	58	6770.1870	
	14765.792	0					.	.			.	.	.				.	.	6770.5414	
1	14765.555	0	21737.407	-	36502.980	-8	.	.	3.0-	2.0	.	.	.	1.026	0.900*	126	.	-32	6770.6455	
1	14764.629	1	18346.917	-	33111.557	-11	.	.	2.0-	2.0	.	.	.	1.518	1.315	203	.	-78	6771.0747	
2	14764.385	1	29197.755	-	14433.351	-19	.	.	2.5-	1.5	.	.	.	0.989	1.925	936	.	326	6771.1866	
1	14763.708	7	14763.705	-	0.000	3	1.0-	0.0	1.0-	0.0	-0.066	0.000		-0.066	0.000	0	192	195	6771.4971	
2	14763.508	4	38013.250	-	23249.745	3	.	.	5.5-	4.5	.	.	.	1.145	1.475	330	.	.	6771.5889	239B
1	14761.898	2	19872.154	-	34634.053	-1	.	.	9.0-	8.0	.	.	.	1.199	0.000*	0	.	-185	6772.3274	
1	14761.398	2	20043.465	-	34804.860	3	.	.	5.0-	4.0	.	.	.	0.925	0.941	16	.	-60	6772.5568	C2
1	14761.398	2	35083.570	-	20322.165	-7	.	.	5.0-	6.0	.	.	.	1.170	1.360*	190	.	.	6772.5568	C2
	14760.111	3					.	.			.	.	.				.	.	6773.1473	
2	14759.349	1	33520.920	-	18761.580	9	.	.	4.5-	5.5	.	.	.	0.996	1.296	300	.	.	6773.4970	
1	14757.701	3	16520.962	-	31278.667	-4	.	.	5.0-	5.0	.	.	.	0.736	1.010*	274	089	99	6774.2534	
1	14757.023	2	18046.103	-	32803.199	7	.	.	4.0-	3.0	.	.	.	0.694	0.825	131	058	64	6774.5303	
1	14755.151	1	15449.472	-	30204.635	-12	.	.	0.0-	1.0	.	.	.	0.000	0.590*	0	.	116	6775.4242	C2
1	14755.151	1	12351.522	-	27106.673	0	.	.	6.0-	6.0	.	.	.	0.995	1.040	45	.	-119	6775.4242	C2
1	14754.968	1	19594.767	-	34349.740	-5	.	.	0.0-	1.0	.	.	.	0.000	0.810*	0	.	55	6775.5082	
	14754.419	2					.	.			.	.	.				.	.	6775.7603	
1	14753.907	2	16532.104	-	31286.029	-18	.	.	3.0-	2.0	.	.	.	0.300	1.280	980	.	113	6775.9955	C2
1	14753.907	2	34692.946	-	19939.052	13	.	.	3.0-	3.0	.	.	.	1.191	0.000*	0	.	172	6775.9955	C2
1	14753.754	1	32519.048	-	17765.281	-13	.	.	2.0-	3.0	.	.	.	0.880	1.680*	800	.	121	6776.0657	
	14753.403	1					.	.			.	.	.				.	.	6776.2270	
1	14752.929	1	33405.200	-	18652.287	16	.	.	2.0-	3.0	.	.	.	1.272	0.822	450	.	-67	6776.4447	
	14752.674	1					.	.			.	.	.				.	.	6776.5618	
1	14752.240	0	22160.184	-	36912.410	14	.	.	8.0-	7.0	.	.	.	1.230	0.000*	0	.	-206	6776.7612	
2	14750.234	1	18720.075	-	3969.846	5	.	.	3.5-	2.5	.	.	.	1.060	1.670	610	.	99	6777.6828	C2
1	14750.234	1	23550.352	-	33300.595	-9	.	.	3.0-	2.0	.	.	.	1.090	1.150*	60	.	.	6777.6828	C2
2	14750.050	1	34925.920	-	20175.895	25	.	.	2.5-	3.5	.	.	.	1.115	1.515	400	.	325*	6777.7673	
1	14748.494	1	18602.505	-	33351.007	-8	.	.	6.0-	6.0	.	.	.	0.910	1.240*	330	.	190	6778.4824	
1	14748.097	0	20306.482	-	35054.565	14	.	.	4.0-	3.0	.	.	.	1.123	0.998	125	.	-197	6778.6649	
	14745.734	3					.	.			.	.	.477				.	.	6779.7512	DJ0 2JD6

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS			TERM			OBS		TERM	IS	IS	HAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS					
	14744.919	1																			6780.1259		
	14744.097	0																			6780.5039		
1	14742.330	0	19776.904-34519.250		-16				6.0- 5.0					1.012	1.170*	158				-171	6781.3166		
2	14741.207	1	30229.760-15428.530		-23		4.5-	3.5	4.5- 3.5	1.075	1.060	.015		1.075	1.057	18				393*	6781.8332		
2	14739.710	3	31485.455-16745.720		-25		1.5-	2.5	1.5- 2.5	1.300	1.668	.368		1.300	1.671	371			374	379	6782.5220		
2	14739.102	0	31778.615-17039.487		-26				0.5- 1.5					2.897	1.354	1543					6782.8018		
1	14737.947	2	16304.260-31042.204		3				4.0- 3.0					1.285	1.010	275			-100	-91	6783.3334		
1	14737.412	0	16734.151-31471.542		21				2.0- 1.0					0.928	2.188	1260				-99	6783.5796		
	14737.074	0																			6783.7352		
1	14735.813	2	16532.104-31267.919		-2				3.0- 3.0					0.300	1.080	780				87	6784.3157		
1	14735.058	9	22509.712- 7774.653		-1		5.0-	4.0	5.0- 4.0	1.282	1.457	.175		1.287	1.463	176			125	128	6784.6633		
	14732.775	1																				6785.7147	
1	14731.762	1	14025.007-28756.769		0				4.0- 5.0					0.975	1.165	190				-278	6786.1813		
1	14730.316	6	23909.585- 9179.262		-7		5.0-	5.0	5.0- 5.0	1.242	1.454	.212		1.242	1.454	212			054	64	6786.8475		
	14727.717	0																				6788.0452	
2	14726.897	0	34902.775-20175.895		17				3.5- 3.5					1.155	1.515	360				469	6788.4231		
1	14723.560	2	32296.170-17572.608		-2*				1.0- 2.0					0.935	0.555	380			139	139	6789.9617		
	14722.827	0																				6790.2997	
	14722.499	1																				6790.4510	
1	14721.740	1	10486.922-25208.672		-10				1.0- 2.0					0.355	0.490	135				-33	6790.8011		
1	14720.678	1	16155.109-30875.798		-11				5.0- 4.0					0.948	1.080*	132				-274	6791.2910		
1	14719.504	3	30995.841-16276.332		-5				2.0- 2.0					1.470	1.880*	410				139	6791.8327		
2	14719.238	1	31758.755-17039.487		-30				2.5- 1.5					1.270	1.354	84					6791.9554		
1	14718.545	3	18602.505-33321.067		-17				6.0- 5.0					0.910	1.200*	290				40	6792.2752		
1	14717.303	4	14292.176-29009.483		-4		5.0-	4.0	5.0- 4.0	.975	.700	.275		0.970	0.695	275			-174	-175	6792.8484		
1	14715.424	3	14025.007-28740.433		-2				4.0- 3.0	.98	.98			0.975	0.970	5			-270	-270	6793.7158		
	14710.969	1																				6795.7732	
1	14710.615	4	16304.260-31014.877		-2				4.0- 4.0					1.285	1.170	115			-138	-140	6795.9367		
1	14709.561	1	15424.387-30133.953		-5				3.0- 3.0					1.106	1.200*	94				-264	6796.4237		
1	14709.347	1	18046.108-32755.472		-17				4.0- 4.0					0.694	1.005	311				-85	6796.5226	C2	
2	14709.347	1	17733.709-32443.065		-9				0.5- 1.5					-0.510	0.730*	1240				-180	6796.5226	C2	
1	14708.149	4	14025.007-28733.159		-3				4.0- 4.0					0.975	1.035	60			-100	-108	6797.0762		
1	14702.215	1	19426.512-34128.739		-12				3.0- 3.0					1.435	1.106	329				-147	6799.8196		
	14701.425	1																		-314		6800.1850	
2	14700.737	0	28421.805-43122.525		17				2.5- 2.5					0.878	0.000*	0					6800.5032	C2	
2	14700.737	0	29393.835-14693.090		-8				0.5- 0.5					-0.516	0.840	1356				-71*	6800.5032	C2	
1	14699.602	0	22429.984-37129.590		-4				4.0- 5.0					1.279	1.010	269				33	6801.0283		
1	14698.472	0	30974.813-15276.332		-9				3.0- 2.0					1.050	1.880*	830			285	298	6801.5512		
2	14695.464	5	28421.805-13726.318		-23		2.5-	2.5	2.5- 2.5	.869	.777	.092		0.878	0.784	94			260	260	6802.9434		
1	14694.054	1	32459.347-17765.281		-12				3.0- 3.0					1.118	1.680*	562				163	6803.5962		
	14693.278	1																				6803.9555	
1	14690.902	0	16595.109-31286.029		-18				3.0- 2.0					0.999	1.280	281				-58	6805.0559		
	14686.379	2H																		176		6807.1517	HAZY2LNQ
	14686.379	2H																		176		6807.1517	HAZY2LNQ
2	14685.673	1	37058.525-51744.190		8*				1.5- 1.5					1.180	0.750*	430					6807.4790		
	14684.943	3																				6807.8151	
1	14684.236	1	19594.767-34279.010		-7				0.0- 1.0					0.000	1.710*	0				-20	6808.1452		
	14683.014	1																		-190		6808.7118	
1	14681.798	2	28210.060-13528.246		-16				2.0- 1.0					0.865-0.590*	1455				138	138	6809.2757		
1	14678.592	1	18672.411-33351.007		-4				6.0- 6.0					1.190	1.240*	50				-41	6810.7629		
1	14674.245	6	6313.866-20988.110		1		4.0-	4.0	4.0- 4.0	.487	1.371	.884		0.487	1.374	887			-397	-397	6812.7805		
	14672.215	0																				6813.7231	
	14671.545	1																				6814.0343	
1	14669.235	0	20385.328-35054.565		-2				2.0- 3.0					1.911	0.998	913				50	6815.1073		
1	14668.713	1	19872.154-34540.880		-13*				9.0- 8.0					1.199	1.270*	71			-230	-253	6815.3499		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	14668.601	1																	6815.4019	
	14665.936	1																	6816.6404	
2	14664.621	1	33019.160	-	47683.770	11	.	.	3.5-	3.5	.	.	.	1.160	1.090*	70			6817.2516	
2	14652.442	3	26669.945	-	12007.503	0	1.5-	1.5	1.5-	1.5	1.356	-0.016	1372	1.350	-0.019	1369	400	392	6818.2647	
	14661.908	2																	6818.5131	
1	14661.222	4	16520.962	-	31182.179	5	.	.	5.0-	4.0	.	.	.	0.736	1.210*	474	-085	-78	6818.8321	
1	14660.829	0	13517.647	-	28178.473	3	.	.	2.0-	3.0	.	.	.	0.892	0.000*	0		-371	6819.0149	
	14660.594	0																	6819.1242	
1	14659.987	0	20984.195	-	35644.180	2	.	.	6.0-	7.0	.	.	.	1.319	1.070*	249		-171	6819.4066	
1	14658.934	0	12177.963	-	26836.911	-14	.	.	1.0-	2.0	.	.	.	0.525	1.260*	735		-309	6819.8964	
1	14657.592	4	14692.549	-	29350.139	2	2.0-	3.0	2.0-	3.0	.295	.910	.615	0.292	0.910	618	-193	-194	6820.5208	
1	14656.323	1	14763.705	-	29420.042	-14	.	.	1.0-	1.0	.	.	.	-0.066	1.095	1161	-310	-298	6821.1114	
1	14655.328	6	22429.984	-	7774.653	-3	4.0-	4.0	4.0-	4.0	1.279	1.463	.184	1.279	1.463	184	-053	-42	6821.5745	
	14654.104	2																	6822.1443	
1	14653.654	0	19865.603	-	34519.250	7	.	.	4.0-	5.0	.	.	.	1.100	1.170*	70		-157	6822.3538	
1	14653.339	0	26009.000	-	40662.380	19	.	.	3.0-	3.0	.	.	.	0.870	1.050*	180			6822.4725	
1	14653.177	1	30929.516	-	16276.332	-7	.	.	1.0-	2.0	.	.	.	2.260	1.850*	380		141	6822.5759	
1	14650.703	1	17081.874	-	31732.582	-5	.	.	4.0-	5.0	.	.	.	1.217	1.049	168	-219	-223	6823.7280	
	14649.601	1																179	6824.2413	
	14648.444	1																	6824.7803	2398Q
1	14648.106	2	19236.116	-	33884.230	-8	.	.	7.0-	7.0	.	.	.	1.155	1.105	50	-330	-330	6824.9378	
1	14642.697	2	14912.011	-	29554.716	-8	.	.	4.0-	3.0	.	.	.	0.496	0.831	335		-16	6827.4589	
1	14642.422	3	12177.963	-	26820.380	5	.	.	1.0-	2.0	.	.	.	0.525	1.160	635	-289	-292	6827.5871	
1	14641.940	1	22666.777	-	37308.707	10	.	.	3.0-	4.0	.	.	.	0.977	1.040	63		-178	6827.8119	
1	14640.946	5	9724.351	-	24365.295	2	3.0-	3.0	3.0-	3.0	.450	1.480	1030	0.442	1.475	1033	-387	-388	6828.2755	PB
1	14638.821	1	10486.922	-	25125.763	-20	.	.	1.0-	1.0	.	.	.	0.355	0.314	41		-20	6829.2667	
	14638.260	1W																	6829.5284	
1	14636.955	2	19059.958	-	33696.921	-8	.	.	5.0-	6.0	.	.	.	1.375	1.100*	275	-086	-74	6830.1373	
1	14635.342	1	11840.715	-	26476.068	-11	.	.	3.0-	4.0	.	.	.	0.811	1.605	794		-398	6830.8901	
1	14635.144	2	31411.690	-	16776.530	-16	.	.	2.0-	1.0	.	.	.	1.289	0.000*	0	201	212	6830.9825	
1	14634.866	3	23814.130	-	9179.262	-2	.	.	6.0-	5.0	.	.	.	0.890	1.454	564	-055	-62	6831.1123	
2	14634.712	2	31798.195	-	17163.470	-13	.	.	4.5-	4.5	.	.	.	1.290	1.200*	90		366	6831.1841	C2
2	14634.712	2	25403.645	-	40038.370	-13	.	.	2.5-	1.5	.	.	.	1.029	0.440*	589			6831.1841	C2
2	14632.135	3	25358.470	-	10726.322	-13	.	.	4.5-	4.5	1.44	1.39	.05	1.443	1.391	52	178	178	6832.3873	
	14630.677	1																	6833.0681	
1	14629.301	2	20984.195	-	35613.490	6	.	.	6.0-	5.0	.	.	.	1.319	1.090*	229		-263	6833.7108	2 LNSQ
1	14629.301	2	12177.963	-	26807.278	-14	1.0-	1.0	1.0-	1.0	.525	.550	.025	0.525	0.550	25	-410	-409	6833.7108	2LNSQ
1	14624.991	0	20769.512	-	6144.515	-6	.	.	2.0-	3.0	.	.	.	1.070	1.473*	403		-102	6835.7248	
	14623.717	2																	6836.3203	HAZY
	14623.172	1																	6836.5751	HAZY
1	14622.827	1	33275.150	-	18552.287	-36	.	.	4.0-	3.0	.	.	.	1.253	0.822	431			6836.7364	
1	14622.585	2	21515.136	-	36137.730	-9	1.0-	2.0	1.0-	2.0	1.182	1.530	.348	1.180	1.525*	345	-224	-213	6836.8495	HAZY
2	14619.533	3	33381.120	-	18761.580	-7	5.5-	5.5	5.5-	5.5	1.152	1.282	.131	1.152	1.296	144	394	401	6838.2768	HAZY
2	14619.103	1	20121.145	-	5502.060	23	.	.	2.5-	1.5	.	.	.	0.710	1.169*	459		174	6838.4756	B
	14618.675	1																	6838.6782	
1	14618.280	1	13517.647	-	28135.924	3	.	.	2.0-	2.0	.	.	.	0.892	1.101	209		-351	6838.8629	
1	14617.441	4	16834.379	-	31451.814	6	5.0-	4.0	5.0-	4.0	.96	1.08	.12	0.961	1.030	119	-124	-119	6839.2555	
1	14613.957	1	14292.176	-	28906.150	-17	.	.	5.0-	5.0	.	.	.	0.970	1.105	135		-224	6840.8860	
2	14613.779	2	30102.315	-	15488.530	-6	.	.	2.5-	3.5	.	.	.	1.158	1.057	101		357	6840.9693	
	14612.842	1																	6841.4080	
1	14612.351	4	14737.788	-	29350.139	0	3.0-	3.0	3.0-	3.0	.792	.882	.090	0.815	0.910	95	-194	-193	6841.6378	
	14611.838	1																	6841.8780	
1	14608.754	5	11840.715	-	26449.501	-32	.	.	3.0-	3.0	.	.	.	0.811	0.940*	129	-268	-275	6843.3224	
1	14607.261	1	24347.551	-	38954.840	-28	.	.	3.0-	2.0	.	.	.	1.300	1.020*	280			6844.0219	
1	14605.454	3	21812.682	-	36418.125	11	.	.	4.0-	4.0	.	.	.	1.040	1.075	35		-31	6844.8686	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	14604.788	1	15249.635	-	29354.442	-19	.	.	2.0-	1.0	.	.	.	0.715	1.180*	465	-250	-260	6845.1808		
1	14603.527	2	15595.109	-	31198.642	-6	.	.	3.0-	3.0	.	.	.	0.999	1.070	71	-082	-83	6845.7718		
1	14602.187	3	15856.888	-	30459.091	-16	.	.	1.0-	2.0	.	.	.	1.103	1.255	152	-245	-245	6846.4001		
1	14601.357	1	18578.669	-	33180.043	-17	.	.	1.0-	2.0	.	.	.	1.932	1.790*	142		43	6846.7892		
1	14600.616	2	13517.647	-	28118.262	1	.	.	2.0-	3.0	.	.	.	0.892	1.250*	358	-	-19	6847.1367		
1	14599.943	4	13726.661	-	23326.610	-6	.	.	3.0-	4.0	.	.	.	1.150	1.260*	110	-326	-329	6847.4524		
1	14598.749	0	25591.845	-	40190.580	14	.	.	3.0-	2.0	.	.	.	0.990	0.920*	70			6848.0124		
1	14598.298	0	17615.482	-	32213.814	-34	.	.	2.0-	2.0	.	.	.	1.450	0.725	725		-3	6848.2240		
1	14597.747	2	33941.055	-	19343.298	-10	.	.	3.0-	3.0	.	.	.	1.118	1.135	17	205	203	6848.4825		
1	14596.327	0	23207.126	-	37803.470	-17	.	.	8.0-	9.0	.	.	.	1.135	1.220*	85		41	6849.1487		
	14595.573	0											6849.5025	
	14594.741	3C											6849.8930	
2	14593.059	1	29026.425	-	14433.351	-15	.	.	2.5-	1.5	.	.	.	1.150	1.925	775		174	6850.6825		
1	14592.622	2	31197.417	-	16604.786	-9	.	.	7.0-	6.0	.	.	.	0.000	0.950*	0		-35	6850.8877		
1	14592.295	1	12351.522	-	26943.829	-12	.	.	6.0-	5.0	.	.	.	0.995	1.220	225		-241	6851.0412		
2	14591.993	1	28481.495	-	43073.510	-22	.	.	4.5-	4.5	.	.	.	1.070	0.950*	120		-22*	6851.1830	C2	
1	14591.993	1	15424.387	-	30016.377	3	.	.	3.0-	2.0	.	.	.	1.106	1.140	34		-320	6851.1830	C2	
1	14591.034	3	8768.139	-	23359.187	-14	.	.	2.0-	3.0	.	.	.	0.362	1.030*	668		-370	6851.6333		
1	14590.377	3	11840.715	-	26431.101	-9	.	.	3.0-	3.0	.	.	.	0.811	0.807	4	-262	-259	6851.9418		
	14588.998	2											6852.5895	
1	14588.873	1	34527.915	-	19939.052	10	.	.	2.0-	3.0	.	.	.	1.310	0.000*	0		129*	6852.6482		
	14588.460	1											6852.8422	
1	14584.191	2	23763.470	-	9179.262	-17	.	.	4.0-	5.0	.	.	.	0.970	1.454*	484		36	6854.8482		
2	14583.071	2	37832.845	-	23249.745	-29	4.5-	4.5	4.5-	4.5	1.245	1.467	.222	1.250	1.475	225	218	217	6855.3746		
1	14581.613	1	18346.917	-	32928.540	-10	.	.	2.0-	2.0	.	.	.	1.518	1.060*	458		-101	6856.0601		
1	14580.413	4	18602.505	-	33182.933	-15	.	.	6.0-	6.0	.	.	.	0.910	1.050	140	054	62	6856.6244		
	14580.010	0											6856.8139	
2	14579.594	1	31619.095	-	17039.487	-14	.	.	1.5-	1.5	.	.	.	1.613	1.354	259		244*	6857.0095		
2	14578.994	5	16593.963	-	2014.966	-3	2.5-	1.5	2.5-	1.5	.978	1.875	.897	0.983	1.881	898	166	162	6857.2917		
1	14576.507	1	14692.549	-	29269.059	-3	.	.	2.0-	1.0	.	.	.	0.292	1.110*	818	-203	-203	6858.4617		
1	14575.797	2	31899.095	-	17323.291	-7	.	.	4.0-	4.0	.	.	.	1.380	1.250*	130	160	160	6858.7958		
	14574.697	0											6859.3135	
1	14574.064	5	30319.724	-	15745.648	-12	3.0-	3.0	3.0-	3.0	1.015	1.155	.140	1.010	1.145	135	108	115	6859.6114		
	14572.493	1											6860.3509	
	14572.135	1											6860.5194	
1	14571.536	0	16304.260	-	30375.798	-2	.	.	4.0-	4.0	.	.	.	1.285	1.080*	205		-278	6860.8015		
2	14570.760	2	33332.350	-	18761.580	-10	4.5-	5.5	4.5-	5.5	1.071	1.278	.207	1.072	1.296	224	294	294*	6861.1669		
1	14568.910	1	16834.379	-	31403.302	-13	.	.	5.0-	5.0	.	.	.	0.961	1.205	244		-279	6862.0381		
	14568.748	1											6862.1144	
2	14568.225	3	24276.225	-	9707.980	-20	.	.	6.5-	6.5	.	.	.	1.430	1.485*	55	174	175	6862.3608	DJO	
1	14566.985	4	18377.534	-	33464.592	-23	.	.	5.0-	4.0	.	.	.	1.280	0.000*	0		-255	6862.9449		
1	14566.732	6	11840.715	-	26407.449	-2	3.0-	2.0	3.0-	2.0	.806	.964	.158	0.811	0.972	161	-204	-205	6863.0641		
1	14565.774	2	16520.962	-	31086.744	-8	.	.	5.0-	5.0	.	.	.	0.736	0.795	59	106	178	6863.5155		
1	14565.243	3	26575.338	-	41140.530	1	.	.	7.0-	7.0	.	.	.	1.150	1.470*	320	-166	-165	6863.7657		
1	14563.457	8	9724.351	-	24287.814	-6	3.0-	3.0	3.0-	3.0	.443	.587	.144	0.442	0.585	143	-168	-171	6864.6075	PB	
2	14561.602	8	14561.607	-	0.000	-5	1.5-	0.5	1.5-	0.5	1.147	3.146	1999	1.149	3.150	2001	266	265	6865.4820		
	14560.721	2											6865.8974	
	14558.396	1											6866.9939	
1	14558.164	1	34497.235	-	19939.052	-19	.	.	3.0-	3.0	.	.	.	1.070	0.000*	0		133	6867.1033		
1	14557.983	1	35299.015	-	20741.029	-3	.	.	3.0-	2.0	.	.	.	1.035	0.000*	0		81	6867.1887		
	14557.367	0											6867.4793	
1	14556.667	1	23100.887	-	37657.560	-6	.	.	3.0-	3.0	.	.	.	1.520	1.132	388			6867.8095		
1	14556.310	2	34495.354	-	19939.052	8	.	.	2.0-	3.0	.	.	.	1.180	0.000*	0		149	6867.9780		
1	14555.898	2B	24780.935	-	39336.870	-37	.	.	2.0-	1.0	.	.	.	0.830	1.025*	195		-178	6868.1724		
	14555.793	2B											6868.2219	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	14554.658	5	20056.725-		5502.060	-7	0.5-	1.5	0.5-	1.5	.048	1.170	1122	0.047	1.169	1122	147	155	6868.7575	
1	14551.644	3	15424.387-		29976.039	-8	.	.	3.0-	4.0	.	.	.	1.106	1.070	36	-163	-164	6870.1802	
	14551.286	1					.	.			.	.	.						6870.3492	
	14549.590	1					.	.			.	.	.						6871.1501	
1	14549.091	2	22666.777-		37215.900	-32	.	.	3.0-	4.0	.	.	.	0.977	1.485	508	-214	-210	6871.3857	
	14544.793	1					.	.			.	.	.						6873.4163	
1	14543.653	2	17500.977-		32044.652	-17	.	.	1.0-	1.0	.	.	.	2.258	0.800	1458		-35	6873.9527	
1	14543.261	2	28885.208-		14341.947	0	.	.	2.0-	2.0	.	.	.	0.912	0.852	60	146	154	6874.1403	
1	14542.345	1	14292.176-		28834.535	-14	.	.	5.0-	5.0	.	.	.	0.970	0.978	8	-168	-157	6874.5733	
	14538.849	1					.	.			.	.	.						6876.2264	
2	14538.627	2	31284.370-		16745.720	-23	.	.	3.5-	2.5	.	.	.	1.114	1.671	557	288	291	6876.3314	
	14536.988	2					.	.			.	.	.						6877.1067	
1	14534.450	0	23766.136-		38300.595	-9	.	.	1.0-	2.0	.	.	.	2.162	1.150	1012			6878.3076	
2	14533.654	1	28259.990-		13726.318	-18	.	.	1.5-	2.5	.	.	.	1.263	0.784	479		448	6878.6843	
1	14531.782	1	33070.573-		18538.782	-9	.	.	2.0-	2.0	.	.	.	0.673	1.600	927		0	6879.5704	
1	14530.530	9H	16734.151-		2203.606	-15	2.0-	1.0	2.0-	1.0	0.930	1.495	.565	0.928	1.495	567	175	177	6880.1632	
2	14528.260	1	26535.775-		12007.503	-12	.	.	0.5-	1.5	.	.	.	-0.071	-0.019	52		349*	6881.2382	
1	14526.813	7	17045.776-		31572.610	-21	1.0-	1.0	1.0-	1.0	1.470	2.400	.930	1.474	2.403	929	066	61	6881.9236	
1	14524.976	6	19074.292-		33599.280	-12	2.0-	2.0	2.0-	2.0	1.53	1.60	.067	1.532	1.606	74	-076	-80	6882.7940	
1	14523.416	4	20830.616-		35354.050	-18	.	.	8.0-	7.0	.	.	.	1.110	0.000*	0	-164	-158	6883.5333	
1	14522.391	2	12351.522-		26873.930	-17	.	.	6.0-	6.0	.	.	.	0.995	1.125	130		-53	6884.0192	
1	14521.646	1	23763.470-		38285.120	-4	.	.	4.0-	5.0	.	.	.	0.970	1.145*	175			6884.3723	
1	14520.759	6	24759.250-		10238.473	-8	6.0-	6.0	6.0-	6.0	1.100	1.432	.332	1.098	1.431	333	147	151	6884.7881	
1	14514.610	9	6313.866-		20828.475	1	4.0-	4.0	4.0-	4.0	.486	.351	.135	0.487	0.352	135	-188	-186	6887.7096	
1	14512.645	2	16155.109-		30667.769	-15	.	.	5.0-	4.0	.	.	.	0.948	1.265	317		-280	6888.6422	
	14512.049	2					.	.			.	.	.						6888.9251	
1	14511.484	1	24648.621-		39160.120	-15*	.	.	0.0-	1.0	.	.	.	0.000	1.230	0			6889.1933	
1	14510.263	6	11840.715-		26350.982	-4	.	.	3.0-	4.0	.80	.79	.01	0.811	0.796	15	-141	-144	6889.7730	
	14509.723	2					.	.			.	.	.						6890.0294	
2	14508.341	1	30794.930-		16286.582	-7	.	.	1.5-	0.5	.	.	.	1.084	-0.122	1206	317	298	6890.6857	
2	14507.812	1	28941.215-		14433.351	-52	.	.	2.5-	1.5	.	.	.	0.968	1.925	957		211	6890.9370	
1	14506.826	9	9724.351-		24231.226	11	.	.	3.0-	2.0	.44	.42	.02	0.442	0.411	31	-072	-72	6891.3769	
1	14505.339	4	14763.705-		29269.059	-15	1.0-	1.0	1.0-	1.0	.	.	1.19	-0.066	1.110*	1176	-204	-203	6892.1118	
	14504.529	1					.	.			.	.	.						6892.4967	
	14499.443	0					.	.			.	.	.						6894.9144	
2	14497.920	1	17733.709-		3235.770	-19	.	.	0.5-	0.5	.	.	.	-0.510	0.299*	809		200	6895.6387	
1	14497.736	1	12322.613-		26820.380	-31	.	.	2.0-	2.0	.	.	.	1.036	1.160	124		-296	6895.7263	
1	14496.794	2	14253.317-		29350.139	-28	.	.	4.0-	3.0	.	.	.	0.786	0.910	124		-119	6896.1744	
2	14496.518	2	23738.900-		9242.356	-26	2.5-	3.5	2.5-	3.5	.67	1.37	.70	0.679	1.369	690		-25	6896.3057	
1	14495.923	3	22719.949-		37215.900	-28	4.0-	4.0	4.0-	4.0	.	.	.427	1.070	1.485	415	-013	-24	6896.5387	
1	14494.561	5	24733.061-		10238.473	-27	7.0-	6.0	7.0-	6.0	1.278	1.434	.156	1.275	1.431	156	196	197	6897.2368	
	14493.841	2					.	.			.	.	.						6897.5794	
2	14493.587	5	21991.980-		7498.364	-29	2.5-	2.5	2.5-	2.5	1.35	1.32	.03	1.344	1.321	23	154	161	6897.7003	
	14492.153	1					.	.			.	.	.						6898.3828	
1	14491.751	1	22509.712-		37001.490	-27	.	.	5.0-	6.0	.	.	.	1.287	1.035	252		-175	6898.5742	
	14491.178	1					.	.			.	.	.						6898.8470	
1	14490.820	1	28832.853-		14341.947	-26	.	.	2.0-	2.0	.	.	.	0.000	0.852*	0		202	6898.9888	
1	14489.094	1	18147.975-		32637.106	-37	.	.	3.0-	3.0	.	.	.	1.049	0.820*	229	-187	-181	6899.8392	
	14488.352	2					.	.			.22	.22							6900.1926	
1	14488.352	2	20709.458-		35197.829	-19	.	.	3.0-	3.0	.	.	.	1.240	1.080	160		3	6900.1926	2 LNS
1	14486.550	1B	18602.505-		33089.092	-37	.	.	6.0-	5.0	.	.	.	0.910	1.069	159		-59	6901.0509	
1	14486.483	1B	37615.923-		23129.429	-11	.	.	5.0-	5.0	.	.	.	1.095	1.168	73		115	6901.0829	
2	14485.477	1	34807.830-		20322.349	-4	.	.	7.5-	6.5	.	.	.	1.170	1.314	144	263	269	6901.5621	
	14484.455	1					.	.			.	.	.						6902.0491	
1	14483.052	0	24012.505-		33495.570	-13	.	.	6.0-	5.0	.	.	.	1.248	1.085	163		-99	6902.7177	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	14482.741	0	16532.104-31014.877	-32	.	.	3.0-	4.0	.	.	.	.	0.300	1.170	870		74	6902.8659	
	14478.006	0																6905.1235	
1	14476.469	1	20877.600-35354.050	19	.	.	7.0-	7.0	.	.	.	.	1.060	0.000*	0		76	6905.8567	
1	14475.300	2	16304.260-30779.585	-25	.	.	4.0-	3.0	.	.	.	.	1.285	0.860	425		-194	6906.4144	
1	14471.937	6	14025.007-23496.950	-6	4.0-	4.0	4.0-	4.0	.970	.790	.180	.	0.975	0.810	165	-202	-201	6908.0193	
1	14468.198	5	19074.292-33542.506	-16	2.0-	2.0	2.0-	2.0	1.540	1.125	.415	.	1.532	1.123	409	-038	-32	6909.8045	
1	14466.000	2	32038.610-17572.608	-2*	.	.	3.0-	2.0	.	.	.	.	1.165	0.555	610	138	146	6910.8544	
	14465.213	1																6911.2304	
1	14464.474	3	16734.151-31198.642	-17	.	.	2.0-	3.0	.	.	.	.	0.928	1.070	142	-122	-107	6911.5835	
	14463.532	1																6912.0337	
1	14461.568	2	15424.387-29885.947	8	3.0-	3.0	3.0-	3.0	.	.	.680	.	1.106	1.330*	224	-367	-369	6912.9724	2J06 CQ
1	14460.810	1	19236.116-33696.921	5	.	.	7.0-	6.0	.	.	.	.	1.155	1.100*	55		-79	6913.3348	
	14460.589	1																6913.4404	
1	14459.181	1H	30204.810-15745.648	19	3.0-	3.0	3.0-	3.0	.	.	.165	.	1.215	1.145	70		151	6914.1136	
	14455.806	1																6915.7279	
1	14454.708	0	18963.921-33418.637	-8	.	.	4.0-	5.0	.	.	.	.	1.251	0.872	379		-255	6916.2532	
2	14453.937	4	28837.310-14433.351	-22	0.5-	1.5	0.5-	1.5	0.165	1.924	1759	.	0.162	1.925	1763	306	305	6916.6222	
1	14452.912	0	20521.579-34974.486	5	.	.	6.0-	7.0	.	.	.	.	1.246	1.135	111		-149	6917.1127	
1	14451.786	1U	13726.661-28178.473	-26	.	.	3.0-	3.0	.	.	.	.	1.150	0.000*	0		-384	6917.6516	
2	14450.740	3H	35993.175-21542.435	0	.	.	2.5-	2.5	.	.	.	.	0.990	1.279*	289		360*	6918.1524	C2
1	14450.740	3H	21031.258-35482.018	-20	.	.	2.0-	3.0	.	.	.	.	1.455	1.679	224		-2	6918.1524	C2
1	14450.438	1	21600.100-36050.540	-2	.	.	6.0-	6.0	.	.	.	.	1.390	0.830*	560		-135	6918.2969	
	14449.679	2																6918.6603	
	14447.707	1																6919.6047	
2	14445.269	2	36642.955-22197.670	-16	3.5-	3.5	3.5-	3.5	1.356	1.533	.177	.	1.356	1.530	174	246	245	6920.7726	
1	14445.067	4	22219.737-7774.653	-17	4.0-	4.0	4.0-	4.0	.750	1.465	.715	.	0.750	1.463	713	-056	-54	6920.8693	
1	14444.540	1	31049.306-16604.786	20	.	.	7.0-	6.0	.	.	.	.	0.000	0.950*	0		-30	6921.1218	
1	14444.278	3	16834.379-31278.667	-10	.	.	5.0-	5.0	.	.	.	.	0.961	1.010*	49	-103	-93	6921.2474	
	14443.662	1																6921.5426	
2	14442.926	0	36943.155-22500.225	-4	.	.	6.5-	5.5	.	.	.	.	1.098	1.555	457		216*	6921.8953	C2
1	14442.926	0	19281.917-33724.837	6	.	.	2.0-	3.0	.	.	.	.	1.822	1.160	662		-213	6921.8953	C2
1	14440.963	2	14292.176-28733.159	-20	.	.	5.0-	4.0	.	.	.	.	0.970	1.035	65		-106	6922.8362	
2	14440.858	1H	30727.440-16286.582	0	.	.	1.5-	0.5	.	.	.	.	1.208	0.122	1330		339	6922.8865	
	14439.895	0																6923.3482	
	14439.618	0																6923.4811	
1	14438.123	3C	14912.011-29350.139	-5	4.0-	3.0	4.0-	3.0	.	.	.425	.	0.496	0.910	414		-22	6924.1980	
1	14436.353	0	18046.108-32482.465	1	.	.	4.0-	4.0	.	.	.	.	0.694	1.330*	636		-114	6925.0445	
2	14436.020	0	32155.060-46591.055	25	.	.	2.5-	3.5	.	.	.	.	1.284	1.100	184			6925.2067	
	14435.808	0																6925.3084	
	14435.420	0																6925.4945	
	14432.835	1																6926.7349	
2	14429.348	5	23671.715-9242.356	-11	.	.	3.5-	3.5	1.380	1.365	.015	.	1.380	1.369	11	160	141	6928.4088	
2	14427.019	1	24615.450-10183.463	32	.	.	1.5-	0.5	.	.	.	.	1.011	2.402	1391		118	6929.5273	
	14426.453	0																6929.7992	
	14426.221	0																6929.9106	
1	14425.748	6	17045.776-31471.542	-18	1.0-	1.0	1.0-	1.0	1.471	2.186	.715	.	1.474	2.188	714	156	161	6930.1379	
1	14425.026	2	16532.104-30957.140	-10	.	.	3.0-	2.0	.	.	.	.	0.300	0.930	680		-15	6930.4847	
1	14422.127	3	17554.704-31976.844	-13	.	.	8.0-	7.0	.	.	.	.	1.170	1.095*	75		-177	6931.8778	
1	14421.706	3	23100.837-37522.600	-7	.	.	3.0-	3.0	.	.	.	.	1.520	1.260*	260			6932.0802	
1	14421.442	1	32319.412-17897.917	-33	.	.	4.0-	3.0	.	.	.	.	1.220	0.450	770		-288	6932.1975	
1	14420.692	3	23207.126-37628.055	-37	.	.	8.0-	7.0	.	.	.	.	1.135	1.140*	5	060	52	6932.4715	
	14419.632	0																6933.0772	
1	14419.417	1	33762.720-19343.298	-5	.	.	4.0-	3.0	.	.	.	.	1.120	1.135	15		241*	6933.1806	
1	14419.036	4	16520.962-30940.068	-20	5.0-	5.0	5.0-	5.0	.736	1.077	.341	.	0.736	1.080	344	118	124	6933.3398	
	14416.934	1																6934.3747	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	14416.655	1	13572.411-33089.092	-16	.	.	6.0-	5.0	.	.	.	.	1.190	1.069*	121		-290	6934.5041	
2	14416.355	1	34738.755-20322.349	-51	.	.	6.5-	6.5	.	.	.	.	1.270	1.314	44		349	6934.6532	HVLQ
2	14416.180	5	26215.440-11799.241	-19	5.5-	5.5	5.5-	5.5	1.12	1.37	.252		1.121	1.373	252	356	357	6934.7374	
1	14416.103	5	24128.639- 9772.532	-4	1.0-	0.0	1.0-	0.0	.667	.000			0.667	0.000	0	-081	-82	6934.7744	
2	14415.633	1	34028.695-48504.345	-17	.	.	2.5-	2.5	.	.	.	.	1.340	0.790*	550			6935.0005	
	14414.404	2														061		6935.5918	
	14410.749	1H																6937.3509	
	14408.705	0																6938.3351	
1	14408.220	3	17500.977-31909.212	-15	.	.	1.0-	1.0	.	.	.	.	2.258	0.888	1370	051	66	6938.5686	
1	14406.703	3	22181.368- 7774.653	-12	.	.	3.0-	4.0	.	.	.	.	0.780	1.463*	683		-29	6939.2992	
	14405.215	1																6940.0160	
1	14404.941	1C	15449.472-29854.442	-29	.	.	0.0-	1.0	.	.	.	.	0.000	1.180*	0		64	6940.1481	
	14404.710	1																6940.2593	
2	14403.157	1C	20121.145- 5717.976	-12	.	.	2.5-	3.5	.	.	.	.	0.710	1.596*	886		154	6941.0077	C2
1	14403.157	1C	25681.552-40084.697	12	.	.	7.0-	6.0	.	.	.	.	1.039	1.510	471	-281		6941.0077	C2
2	14402.720	1	35460.660-21057.925	-15	.	.	3.5-	2.5	.	.	.	.	1.145	1.590	445		474	6941.2183	
1	14401.525	0	24780.935-39182.490	-30	.	.	2.0-	2.0	.	.	.	.	0.830	0.990*	160		-211	6941.7942	
2	14401.188	0	31798.195-46199.395	-12	.	.	4.5-	3.5	.	.	.	.	1.290	0.955*	335			6941.9567	
2	14400.932	0	29615.520-44016.500	2	.	.	4.5-	4.5	.	.	.	.	1.160	1.050*	110			6942.0560	
2	14400.691	0	31284.370-45685.090	-29	.	.	3.5-	4.5	.	.	.	.	1.114	0.955	159			6942.1963	
1	14400.305	0	21737.407-36137.730	-18	.	.	3.0-	2.0	.	.	.	.	1.026	1.525	499		-50	6942.3824	
1	14399.552	4	23578.836- 9179.262	-12	5.0-	5.0	5.0-	5.0	1.120	1.450	.330		1.120	1.454*	334		-16	6942.7406	
1	14395.839	5	19203.415-33599.280	-26	2.0-	2.0	2.0-	2.0	1.020	.609	.589		1.021	1.606	585	-249	-253	6944.5361	2LNS
1	14395.839	5	15249.635-29645.433	41	2.0-	1.0	2.0-	1.0	.715	.705	.010		0.715	0.705	10		-301	6944.5361	2LNS
	14394.228	1																6945.3133	
	14393.899	3																6945.4721	DJ1
1	14392.555	2	30997.335-16604.786	6	.	.	5.0-	6.0	.	.	.	.	1.200	0.950*	250		-72	6946.1207	
	14390.709	1														267		6947.0117	
1	14389.749	1	16288.909-31278.667	-9	.	.	6.0-	5.0	.	.	.	.	1.098	1.010*	88	-119	-118	6947.4752	
	14389.043	1																6947.8161	
	14388.458	1																6948.0985	
	14388.039	1																6948.2767	
	14387.845	1																6948.3946	
1	14385.727	3	30131.388-15745.648	-13	3.0-	3.0	3.0-	3.0	.	.	.085		1.232	1.145	87	140	130	6949.4176	
1	14385.360	3	16734.151-31119.494	17	2.0-	2.0	2.0-	2.0	.	.	.111		0.928	0.814	114	-235	-219	6949.5949	
1	14384.607	2	8768.139-23152.755	-9	2.0-	2.0	2.0-	2.0	.	.	.20		0.362	0.580	218	-407	-407	6949.9587	
	14383.369	0																6950.5569	
2	14380.725	1	34703.075-20322.349	-1	5.5-	6.5	5.5-	6.5	1.028	1.314	.286		1.030	1.314	284	403	403	6951.8348	
1	14378.908	2B	20990.684-35359.610	-18	.	.	5.0-	5.0	.	.	.	.	1.308	1.120*	188		-174	6952.7133	
1	14377.756	0	18591.122-32968.906	-28	.	.	4.0-	4.0	.	.	.	.	0.965	1.115	150		-185	6953.2703	
1	14377.400	2	20654.712-35032.090	22	1.0-	0.0	1.0-	0.0	.195	.000			0.200	0.000	0		-2*	6953.4425	
1	14376.609	1	25974.634-40351.235	8	.	.	6.0-	5.0	.	.	.	.	1.370	1.070*	300			6953.8251	
1	14374.794	7	24613.274-10238.473	-7	5.0-	6.0	5.0-	6.0	1.174	1.440	.266		1.160	1.431	271		-28	6954.7031	
	14373.726	0																6955.2199	
1	14359.834	1	20924.195-35354.050	-21	.	.	6.0-	7.0	.	.	.	.	1.319	0.000*	0		-153	6957.1037	
1	14369.517	2	30645.856-16276.332	-7	.	.	2.0-	2.0	.	.	.	.	1.541	1.880*	339		139	6957.2571	
2	14359.015	4	28802.375-14433.351	-9	0.5-	1.5	0.5-	1.5	.799	1.923	1124		0.800	1.925	1125	604	603	6957.5002	
1	14356.632	1	20521.579-34888.198	13	.	.	6.0-	5.0	.	.	.	.	1.246	1.070	176		-196	6958.6543	
1	14354.865	5	11840.715-26205.589	-9	3.0-	3.0	3.0-	3.0	.809	.701	.108		0.811	0.701	110	-198	-196	6959.5102	
2	14361.271	4	19263.335- 5502.060	-4	2.5-	1.5	2.5-	1.5	.924	1.172	.248		0.921	1.169	248	156	165	6961.2519	
1	14360.475	1	19203.415-33563.924	-34	.	.	2.0-	1.0	.	.	.	.	1.021	0.430*	591		-248	6961.6378	
2	14360.306	1	35902.735-21542.435	6	.	.	1.5-	2.5	.	.	.	.	1.605	1.279	326		326	6961.7197	
1	14359.703	0	27837.955-13528.246	-6	.	.	1.0-	1.0	.	.	.	.	0.870	0.590*	1460		249	6962.0120	
1	14358.834	0	25074.585-39433.510	-41	.	.	4.0-	4.0	.	.	.	.	1.507	0.925	582		64	6962.4091	
1	14358.301	0	18046.108-32404.416	-7	.	.	4.0-	5.0	.	.	.	.	0.694	1.055	361		70	6962.6918	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	14357.115	0	12963.921-33321.067	-30	.	.	.	4.0-	5.0	.	.	.	.	.	1.251	1.200*	51	-178	6963.2665	
	14355.707	0																	6963.4649		
1	14352.040	0	31657.182-17305.142	0	.	.	.	2.0-	2.0	.	.	.	.	.	0.000	0.000*	0	-14	6965.7293	
	14351.678	2																	6965.9050		
1	14350.983	5	14853.317-29204.308	-8	4.0-	5.0	4.0-	5.0	.781	.891	.110	.	.	.	0.786	0.896	110	-142	-143	6966.2424	
	14350.087	1																	6966.6773		
1	14347.776	2H	15856.828-30204.635	29	.	.	.	1.0-	1.0	.	.	.	.	.52	1.103	0.590*	513	-149	6967.7995	DJO
1	14346.313	4	11747.245-26093.563	-5	0.0-	1.0	0.0-	1.0	.000	0.082	0.000	0.082	0	-145	-147	6968.5100	
2	14345.676	2	20063.650-5717.976	2	.	.	.	4.5-	3.5	.	.	.	.	.	1.049	1.596	547	100	6968.8194	
1	14343.689	2	16532.104-30375.798	-5	.	.	.	3.0-	4.0	0.300	1.080*	780	-066	-64	6969.7848	
	14342.696	0																	6970.2674		
1	14342.344	0	23315.209-37657.560	-7	.	.	.	2.0-	3.0	1.335	1.132	203			6970.4384	
	14341.480	0																	6970.8584		
1	14339.076	1	19203.415-33542.506	-15	2.0-	2.0	2.0-	2.010	.	.	1.021	1.123	102	-204	-205	6972.0271	
	14338.771	1																	6972.1754		
2	14337.620	1	18720.075-33057.710	-15	.	.	.	3.5-	3.5	.	.	.	.	.	1.060	0.857	203	-64	6972.7351	
1	14335.968	2	30612.323-16276.332	-23	.	.	.	3.0-	2.0	.	.	.	.	.	1.408	1.880*	472	130	6973.5386	
1	14335.807	2H	14025.007-28360.802	12	4.0-	3.0	4.0-	3.0	.98	.89	.09	.	.	.	0.975	0.887	88	-138	-129	6973.6169	HAZY
2	14333.243	2	33054.805-18761.580	18	5.5-	5.5	5.5-	5.5	1.049	1.296	.247	.	.	.	1.050	1.296*	246	423	423	6974.8644	
1	14331.356	1	17031.874-31413.230	0	.	.	.	4.0-	3.0	1.217	0.742	475	-138	-129	6975.7828	
1	14329.203	4	26311.368-41140.580	-9	7.0-	7.0	7.0-	7.0	1.18	1.46	.280	.	.	.	1.180	1.470*	290	-145	-145	6976.8309	
	14327.911	1																	6977.4601		
1	14327.151	1	17554.704-31881.871	-16	.	.	.	8.0-	7.0	.	.	.	.	.	1.170	1.120*	50	-160	6977.8302	
1	14326.835	4	22339.053-37215.900	-12	4.0-	4.0	4.0-	4.0	1.263	1.485	.222	.	.	.	1.263	1.485	222	-218	-213	6977.9841	
	14325.912	1																	6978.4337		
	14325.620	0																	6978.5759		
	14325.347	0																	6978.7089		
	14324.097	1																	6979.3179		
2	14323.496	0	32841.375-18517.872	-7	.	.	.	1.5-	0.5	.	.	.	.	.	1.234	2.755	1521	215	6979.6108	
	14322.958	0																	6979.8729		
	14322.529	0																	6980.0820		
2	14321.348	0	29809.915-15488.530	-37	.	.	.	3.5-	3.5	.	.	.	.	.	1.068	1.057	11	271*	6980.6576	
	14320.350	1																	6981.1441	HVLQ	
1	14319.973	3	19959.027-34279.010	-10	1.0-	1.0	1.0-	1.0	.757	1.715	.958	.	.	.	0.760	1.710*	950	-	-13	6981.3279	
1	14317.354	2	19231.917-33599.280	-9	2.0-	2.0	2.0-	2.0	.	.	.220	.	.	.	1.822	1.606	216	-259	6982.6050		
1	14317.177	2	14912.011-29229.190	-2	.	.	.	4.0-	4.0	.	.	.	.	.	0.496	1.480*	984	-234	6982.6913	
1	14316.597	3	12159.465-26476.068	-6	4.0-	4.0	4.0-	4.0	.	.	.765	.	.	.	0.844	1.605	761	-405	-397	6982.9742	
2	14313.223	1	26320.735-12007.503	-9	.	.	.	2.5-	1.5	1.050	0.019	1069	319	319	6984.6203	
1	14312.852	2	19074.292-33387.151	-7	.	.	.	2.0-	2.0	1.532	1.288	244	-083	-83	6984.8013	
	14311.757	0																	6985.3357		
1	14309.831	0	17500.977-31810.821	-13	.	.	.	1.0-	2.0	2.258	0.865	1393	+	10	6986.2759	
	14308.981	1																	6986.6909		
2	14307.950	1	34630.315-20322.349	-16	.	.	.	5.5-	6.5	.	.	.	.	.	1.155	1.314	159	331	6987.1944	
	14307.159	1																	6987.5807		
	14306.597	1																	6987.8552		
1	14306.262	1	16155.109-30461.399	-28	.	.	.	5.0-	5.0	.	.	.	.	.	0.948	0.990	42	-199	6988.0188	
1	14305.554	1	19365.603-34171.155	2	.	.	.	4.0-	5.0	.	.	.	.	.	1.100	1.230	130	-71	6988.3646	
1	14305.068	5	15249.635-29554.716	-13	2.0-	3.0	2.0-	3.0	.707	.824	.114	.	.	.	0.715	0.831	116	-183	-188	6988.6021	
	14304.414	0																	6988.9216		
	14303.818	1																	6989.2128		
1	14301.592	2	14025.007-28326.610	-11	4.0-	4.0	4.0-	4.0	.	.	.280	.	.	.	0.975	1.260*	285	-328	6990.3007		
1	14301.134	0	34240.242-19939.052	-6	.	.	.	2.0-	3.0	.	.	.	.	.	1.190	0.000*	0	221*	6990.5001	
	14300.353	1																	6990.6619		
	14293.871	2																	6991.6309		
2	14292.247	3	26097.505-11799.241	-17	5.5-	5.5	5.5-	5.5	1.100	1.373*	273	347	349	6991.9360	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES	
2	14296.283	3	23538.650	-	9242.356	-11	3.5-	3.5	3.5-	3.5	.	.	.095	1.470	1.369*	101	169	162	6992.8966		
1	14294.951	4	30599.721	-	16604.786	16	5.0-	6.0	5.0-	6.0	1.09	.95	.14	1.090	0.950*	140	49	33	6993.5482		
1	14293.965	3	16520.962	-	30814.939	-12	.	.	5.0-	5.0	.	.	.	0.736	1.111	375	-	-14	6994.0306		
1	14293.722	0	17615.452	-	31909.212	-8	.	.	2.0-	1.0	.	.	.	1.450	0.888	562	-	-7	6994.1495		
1	14292.295	4	14912.011	-	29204.308	-2	4.0-	5.0	4.0-	5.0	.	.	.407	0.496	0.896	400	-050	-46	6994.8478		
	14286.668	2					6997.6028	
1	14286.213	2	20697.436	-	34983.667	-18	.	.	7.0-	7.0	.	.	.	1.250	1.060	190	-	-64	6997.8257		
1	14235.555	1	31853.170	-	17572.608	-7	.	.	1.0-	2.0	.	.	.	1.335	0.555	780	-	365	6998.1480		
	14284.237	0					6998.7693	
1	14281.377	6	9386.801	-	23668.184	-6	5.0-	4.0	5.0-	4.0	.80	.95	.151	0.801	0.940*	139	-114	-111	7000.1953	PB	
1	14280.407	6	14692.549	-	28972.971	-15	2.0-	2.0	2.0-	2.0	.290	.792	.502	0.292	0.794	502	-210	-207	7000.6708		
	14279.854	0					7000.9420	
1	14279.001	2	18578.669	-	4299.659	-9	1.0-	2.0	1.0-	2.0	.	.	.456	1.932	1.482	450	-062	-68	7001.3602		
2	14275.404	2	30562.000	-	16286.582	-14	0.5-	0.5	0.5-	0.5	2.660	0.124	2784	2.689	0.122	2811	367	364	7003.1243		
	14273.511	0					7004.0531	
2	14272.795	2	34595.165	-	20322.349	-21	6.5-	6.5	6.5-	6.5	.	.	.165	1.160	1.314*	154	576	576	7004.4045		
1	14271.609	1	12159.455	-	26431.101	-27	.	.	4.0-	3.0	.	.	.	0.844	0.807	37	-	-258	7004.9866		
1	14271.339	1	15074.958	-	29346.299	-2	.	.	7.0-	7.0	.	.	.	1.097	1.200*	103	-	-76	7005.1191		
1	14269.984	1	31046.528	-	16776.530	-14	.	.	2.0-	1.0	.	.	.	1.480	0.000*	0	-	153	7005.7843		
	14269.708	1					7005.9198	
	14267.592	1					7006.9588	
1	14266.609	1C	18602.505	-	32369.165	-51	.	.	6.0-	5.0	.	.	.	0.910	0.916	6	-	-20	7007.4416		
	14266.450	1C					7007.5197	
2	14266.280	1C	18720.075	-	32906.390	-35	.	.	3.5-	2.5	.	.	.	1.060	1.040*	20	-	-280	7007.6032	C2	
1	14265.280	1H	32955.135	-	18718.832	27	.	.	2.0-	2.0	.	.	.	0.757	0.504	253	-	-214	7007.6032	C2	
1	14263.828	2	21218.180	-	35482.018	-10	.	.	3.0-	3.0	.	.	.	0.860	1.679	819	-304	-299	7008.8078		
1	14262.572	2	9356.801	-	23649.372	1	.	.	5.0-	4.0	.	.	.	0.801	0.000*	0	-355	-360	7009.4251	PB	
1	14258.875	0	18046.108	-	32304.979	4	.	.	4.0-	4.0	.	.	.	0.694	0.990*	296	-	-69	7011.2425		
	14256.036	1					7012.6387	
2	14255.798	3	27982.155	-	13726.318	-39	2.5-	2.5	2.5-	2.5	.529	.787	.258	0.520	0.784*	264	211	212	7012.7558		
1	14254.837	2	18602.505	-	32357.357	-15	.	.	6.0-	6.0	.	.	.	0.910	1.101	191	+	25	7013.2286		
1	14254.227	2	21227.793	-	35482.018	2	.	.	4.0-	3.0	.	.	.	1.346	1.679	333	-220	-215	7013.5287		
1	14253.438	1	18046.108	-	32299.581	-35	.	.	4.0-	5.0	.	.	.	0.694	0.000*	0	-	-25	7013.9169		
1	14252.362	3	16834.379	-	31085.744	-3	5.0-	5.0	5.0-	5.0	.	.	.172	0.961	0.795	166	-	-14	7014.4465		
2	14250.839	1	34077.830	-	19827.020	29	.	.	1.5-	1.5	.	.	.	1.650	1.733	83	-	208*	7015.1961		
1	14250.227	4	13726.661	-	27976.881	7	3.0-	3.0	3.0-	3.0	.	.	.066	1.150	1.080	70	-156	-146	7015.4974		
	14249.699	0					7015.7573	
	14248.941	0					7016.1306	
1	14248.566	0	35740.015	-	21491.439	-10	.	.	4.0-	3.0	.	.	.	1.105	0.000*	0	-	196	7016.3152		
2	14248.101	0	31516.780	-	45764.910	-29	.	.	2.5-	1.5	.	.	.	1.215	0.660*	555	-	-	7016.5442		
1	14247.467	4	16532.104	-	30779.585	-14	3.0-	3.0	3.0-	3.0	.310	.874	.564	0.300	0.860	560	+	20	7016.8564		
	14247.079	1					7017.0475	
1	14246.137	2	13726.661	-	27972.815	-17	.	.	3.0-	4.0	.	.	.	1.150	0.979	171	-084	-84	7017.5115		
1	14244.763	4H	25839.917	-	40084.697	-17	6.0-	6.0	6.0-	6.0	1.250	1.480	.230	1.250	1.510	260	-173	-177	7018.1884	HAZY	
1	14243.314	1	16520.962	-	30764.244	32	.	.	5.0-	6.0	.	.	.	0.736	0.975	239	-	-16	7018.9024		
	14242.536	0					7019.2858	
1	14242.095	4	9724.351	-	23566.450	-4	3.0-	3.0	3.0-	3.0	.	.	.318	0.442	0.760	318	-155	-160	7019.5031		
1	14240.803	6	20385.328	-	6144.515	-10	2.0-	3.0	2.0-	3.0	1.915	1.474	.441	1.911	1.473	438	-064	-72	7020.1400		
2	14240.472	4	35159.895	-	21919.400	-13	.	.	6.5-	7.5	.	.	.	1.090	1.345	255	-	326*	7020.3032	C2	
1	14240.472	4	27768.715	-	13528.246	3	.	.	1.0-	1.0	.	.	.	0.722	0.590*	1312	-	232	7020.3032	C2	
1	14239.936	3	16155.109	-	30395.062	-17	.	.	5.0-	4.0	.	.	.	0.948	0.920	28	-181	-191	7020.5674		
	14238.975	0					7021.0412	
1	14235.188	1H	14737.788	-	28972.971	5	.	.	3.0-	2.0	.	.	.	0.815	0.794	21	-	-206	7022.9091		
	14234.419	3					7023.2885	
2	14234.252	3	32995.835	-	18761.580	-3	.	.	4.5-	5.5	.	.	.	1.164	1.296	132	098	362	7023.3709		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	14232.983	1																		7023.9971	
1	14232.172	3	11747.245	-	25979.424	-7	0.0	1.0	0.0	1.0	.000	1.259		0.000	1.260	0	-277	-269	7024.3973		
1	14231.893	2	11840.715	-	26072.627	-14	.	.	3.0	2.0	.	.	.	0.811	1.500*	689	-346	-365	7024.5326		
1	14229.475	5	12177.963	-	26407.449	-11	1.0	2.0	1.0	2.0	.53	.97	.44	0.525	0.972	447	-205	-203	7025.7287		
1	14228.946	5	9724.351	-	23953.307	-10	3.0	2.0	3.0	2.0	.445	1.260	.815	0.442	1.265	823	-338	-387	7025.9899		
	14228.295	0																	7026.3114		
	14226.162	1																	7027.3649		
1	14225.642	3	27903.565	-	13677.903	-20	2.0	1.0	2.0	1.0	1.300	1.441	.141	1.300	1.442	142	114	114	7027.6218		
1	14225.355	2	13517.647	-	27743.009	-7	2.0	2.0	2.0	2.0	.	.	.319	0.892	0.568	324	-	-23	7027.7636		
1	14223.925	5	28565.887	-	14341.947	-15	2.0	2.0	2.0	2.0	.92	.86	.06	0.911	0.852	59	097	101	7028.4701		
2	14222.104	1	29710.665	-	15488.530	-31	3.5	3.5	3.5	3.5	.	.	.033	1.100	1.057*	43		219	7029.3700		
2	14221.707	5	14221.716	-	0.000	-9	0.5	0.5	0.5	0.5	-0.123	3.129	3252	-0.108	3.150	3258	205	207	7029.5663		
1	14221.448	1	20990.684	-	35212.127	5	.	.	5.0	6.0	.	.	.	1.308	1.130*	178		-133	7029.6943		
	14221.076	0																	7029.8782		
	14219.353	0																	7030.7300		
1	14218.700	2	18591.122	-	32809.844	-22	4.0	4.0	4.0	4.0	.	.	.068	0.965	0.900	65	-192	-203	7031.0529		
2	14216.443	1	31255.945	-	17039.487	-15	.	.	1.5	1.5	.	.	.	0.921	1.354	433	290	293	7032.1691		
	14216.021	1																	7032.3779		
	14215.587	1H																	7032.5926		
1	14215.390	5	15074.958	-	29290.355	-7	7.0	6.0	7.0	6.0	1.100	.928	.172	1.097	0.920	177	-207	-205	7032.6901		
	14211.923	1					2.5	2.5			1.080	1.375	.295						7034.4057		
	14207.120	1																	7036.7838		
1	14204.766	4	14292.176	-	28496.950	-8	5.0	4.0	5.0	4.0	.	.	.	0.970	0.810	160	-201	-199	7037.9500		
	14204.238	1																	7038.2116		
1	14201.522	5	12159.465	-	26360.997	-10	4.0	5.0	4.0	5.0	.840	.805	.035	0.844	0.796	48	-243	-243	7039.5576		
1	14200.607	2	15424.387	-	29625.003	-9	3.0	2.0	3.0	2.0	.	.	.190	1.106	0.910*	196	-194	-189	7040.0112		
	14199.145	1																	7040.7361		
	14198.535	1																	7041.0386		
1	14197.823	4	16888.909	-	31086.744	-12	6.0	5.0	6.0	5.0	.	.	.300	1.098	0.795	303	-051	-39	7041.3917		
1	14197.175	3	19959.027	-	34156.245	-43	1.0	1.0	1.0	1.0	.	.	.555	0.760	1.305*	545		-9	7041.7131	CQ	
1	14196.782	3	17081.874	-	31278.667	-11	.	.	4.0	5.0	.	.	.	1.217	1.010*	207	-110	-110	7041.9080		
	14195.806	0																	7042.3921		
1	14195.329	2	17615.482	-	31810.821	-10	.	.	2.0	2.0	.	.	.	1.450	0.865	585		-63	7042.6288		
	14194.663	2																	7042.9592		
2	14194.141	3	26201.645	-	12007.503	-1	2.5	1.5	2.5	1.5	1.040	-0.015	1055	1.036	-0.019	1055	434	435	7043.2182		
1	14193.413	3	16520.962	-	30714.385	-10	.	.	5.0	4.0	.	.	.	0.736	1.150	414	110	112	7043.5795		
1	14191.508	8	12159.465	-	26350.982	-9	4.0	4.0	4.0	4.0	.84	.80	.041	0.844	0.796	48	-141	-143	7044.5250		
2	14188.303	1	31351.800	-	17163.470	-27	.	.	4.5	4.5	.	.	.	1.120	1.200*	80	427	431	7046.1163		
1	14184.923	1	18672.411	-	32857.357	-23	.	.	6.0	6.0	.	.	.	1.190	1.101*	89		-206	7047.7953		
1	14184.490	3	16595.109	-	30779.585	14	.	.	3.0	3.0	.	.	.	0.999	0.860	139	-150	-151	7048.0104		
1	14182.279	2	16532.104	-	30714.385	-2	3.0	4.0	3.0	4.0	.	.	.845	0.300	1.150	850	119	108	7049.1092		
	14181.620	2																	7049.4368		
1	14180.056	1H	20769.512	-	34949.520	48	.	.	2.0	2.0	.	.	.	1.070	1.085*	15	+	74	7050.2143		
	14179.743	0																	7050.3699		
	14178.945	1H																	7050.7667		
	14178.591	1																	7050.9428		
	14176.402	1																	7052.0315		
	14173.290	3																	7053.5799		
1	14172.760	1	19426.512	-	33599.280	-8	.	.	3.0	2.0	.	.	.	1.435	1.606	171		-180	7053.8437		
2	14172.033	6	21670.405	-	7493.364	-8	1.5	2.5	1.5	2.5	2.321	1.314	1007	2.328	1.321	1007	149	157	7054.2055		
	14168.814	1																	7055.8032		
	14166.629	3C																	7056.8965		
1	14163.518	1	25209.162	-	39372.685	-5	.	.	5.0	5.0	.	.	.	1.140	1.010*	130	318		7058.4465		
1	14162.353	2	37521.550	-	23359.187	-5	.	.	3.0	3.0	.	.	.	1.315	1.030*	285			7059.0247		
1	14161.957	9	20306.482	-	6144.515	-10	4.0	3.0	4.0	3.0	1.124	1.471	.347	1.123	1.473	350	171	175	7059.2245		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	14156.155	7	14853.317-29009.483	-11			4.0-	4.0	4.0-	4.0	.79	.69	.10	0.786	0.695	91	-095	-102	7062.1178		
2	14154.934	3	26162.460-12007.503	-23			1.5-	1.5	1.5-	1.5	.716	-0.021	.737	0.710	-0.019*	729	423	423	7062.7270		
	14153.812	2															289		7063.2869		
1	14153.446	2	14025.007-28178.473	-20			.	.	4.0-	3.0	.	.	.	0.975	0.000*	0		-383	7063.4695		
1	14152.251	3	31724.867-17572.608	-8			.	.	2.0-	2.0	.	.	.	1.016	0.555	461		110	7064.0660		
1	14151.801	2	10486.922-24638.713	10			.	.	1.0-	2.0	.	.	.	0.355	0.000*	0		-393	7064.2906		
1	14150.118	1	22219.737-36369.870	-15			.	.	4.0-	5.0	.	.	.	0.750	1.069	319		-26	7065.1308		
1	14149.413	1	20521.579-34670.995	-3			.	.	6.0-	5.0	.	.	.	1.246	1.010*	236	-232	-215	7065.4828		
1	14146.798	4	16520.962-30567.769	-9			5.0-	4.0	5.0-	4.0	.732	1.250	.518	0.736	1.265	529	-071	-66	7066.7889		
1	14146.244	2	18963.921-33110.165	0			.	.	4.0-	4.0	.	.	.	1.251	1.220*	31	-257	-245	7067.0656		
	14146.020	0																	7067.1775		
1	14144.812	3H	24613.274-38758.100	-14			.	.	5.0-	5.0	.	.	.	1.160	1.530	370	-081	-81	7067.7811		
1	14143.381	6	16532.104-30675.497	-12			3.0-	2.0	3.0-	2.0	0.30	0.375	.075	0.300	0.375	75		22	7068.4962		
1	14142.565	9H	24381.050-10238.473	-11			.	.	5.0-	6.0	1.45	1.43	.02	1.450	1.431*	19	-096	-100	7068.9036		
	14138.834	0																	7070.7694		
	14137.278	1																	7071.5477		
1	14134.355	2	19959.027-34093.375	7			.	.	1.0-	1.0	.	.	.	0.760	1.310*	550	083	84	7073.0101		
2	14132.250	2	32893.805-18761.580	25			4.5-	5.5	4.5-	5.5	.962	1.274	.312	0.980	1.296*	316	410	408	7074.0636		
1	14130.842	2	12159.465-26290.302	5			.	.	4.0-	5.0	.	.	.	0.844	1.125	281	-382	-369	7074.7685		
2	14130.490	1	19632.555-5502.060	-5			.	.	1.5-	1.5	.	.	.	1.010	1.169*	159		161*	7074.9447		
1	14130.325	2	15424.387-29554.716	-4			.	.	3.0-	3.0	.	.	.	1.106	0.831	275		-181	7075.0273		
1	14129.006	4	28470.960-14341.947	-7			2.0-	2.0	2.0-	2.0	1.102	.847	.255	1.104	0.852	252	099	100	7075.6878		
1	14128.034	2	17045.776-31173.814	-4			.	.	1.0-	1.0	.	.	.	1.474	0.450*	1024	079	89	7076.1746		
2	14128.877	3	31284.370-17163.470	-23			.	.	3.5-	4.5	.	.	.	1.114	1.200	86	297	293	7079.7611		
	14119.941	3																	7080.2304	239 BQ	
1	14119.728	4	13517.647-27637.377	-2			2.0-	1.0	2.0-	1.0	.883	1.288	.405	0.892	1.280	388		-226	7080.3373		
1	14119.271	1	16595.109-30714.385	-5			.	.	3.0-	4.0	.	.	.	0.999	1.150	151		-63	7080.5664		
	14117.849	0																	7081.2796		
	14117.635	0																	7081.3869		
1	14116.741	1	17081.874-31198.642	-27			.	.	4.0-	3.0	.	.	.	1.217	1.070	147		-117	7081.8354		
	14116.351	1																	7082.0311		
	14115.220	1																	7082.5684		
1	14114.898	3	19236.116-33351.007	7			7.0-	6.0	7.0-	6.0	1.160	1.235	.075	1.155	1.240*	85	-054	-50	7082.7601		
1	14114.085	0	23705.495-37819.580	0*			.	.	7.0-	7.0	.	.	.	1.277	1.110*	167		-143	7083.1681		
1	14113.027	1W	33456.315-19343.298	10			.	.	4.0-	3.0	.	.	.	1.207	1.135	72		216	7083.6991		
	14110.981	1																	7084.7262		
	14110.422	0																	7085.0069		
1	14110.054	3	25974.634-40084.697	-9			6.0-	6.0	6.0-	6.0	.	.	.153	1.370	1.510*	140		-107	7085.1916		
	14109.459	2																	7085.4854		
1	14108.434	4	12322.613-26431.101	-4			2.0-	3.0	2.0-	3.0	1.03	.81	.22	1.036	0.807	229	-258	-261	7085.9801	PB	
1	14108.093	1	19496.402-33604.497	-2			.	.	3.0-	3.0	.	.	.	1.555	1.210	345		-188	7086.1765		
	14106.024	3															156			7087.2158	
1	14105.702	3	16834.379-30940.068	13			.	.	5.0-	5.0	.	.	.	0.961	1.080	119	-064	-68	7087.3776		
1	14105.455	3	17911.977-32017.434	-2			.	.	5.0-	4.0	.	.	.	1.145	1.020*	125	-263	-247	7087.5017		
	14104.359	2																	7088.0525		
1	14102.449	5	23281.721-9179.262	-10			5.0-	5.0	5.0-	5.0	1.236	1.454	.218	1.235	1.454	219	-	-26	7089.0125		
1	14100.507	2	15249.635-29350.139	3			.	.	2.0-	3.0	.	.	.	0.715	0.910	195	-203	-194	7089.9888		
1	14100.298	2	17081.874-31182.179	-7			.	.	4.0-	4.0	.	.	.	1.217	1.210*	7	-289	-287	7090.0939		
1	14097.470	7	14912.011-29009.483	-2			4.0-	4.0	4.0-	4.0	.50	.70	.202	0.496	0.695	199		-5	7091.5162		
1	14096.892	5	20877.600-34974.436	6			.	.	7.0-	7.0	.	.	.	1.060	1.135*	75	073	76	7091.8070		
1	14095.589	9H	23274.853-9179.262	-7			4.0-	5.0	4.0-	5.0	1.601	1.451	.150	1.604	1.454	150	-064	-60	7092.4626		
1	14088.496	1	6313.866-20402.369	-7			.	.	4.0-	3.0	.	.	.	0.487	1.265*	778		-138	7096.0334		
1	14024.845	3	12322.613-26407.449	9			2.0-	2.0	2.0-	2.0	.	.	.	1.036	0.972	64	-206	-207	7097.8728		
1	14084.603	0	20043.465-34128.094	-26			.	.	5.0-	4.0	.	.	.	0.925	0.000*	0		5	7097.9947		
	14084.361	1																	7098.1167		

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	14030.378	3	16595.109-30675.497	-10		3.0-	2.0	3.0-	2.0			.611	0.999	0.375	624	-151	-149	7100.1246	
	14079.796	3				1.02						.435						7100.4181	SO 2JD6
1	14077.915	1H	18591.122-32669.040	-3		.	.	4.0-	3.0				0.965	1.000*	35		-171	7101.3668	HAZY
	14075.109	1				.	.											7102.7825	WVLQ
2	14072.157	2	27798.480-13726.318	-5		3.5-	2.5	3.5-	2.5			.273	1.060	0.784*	276	386	373	7104.2725	
1	14071.619	3H	17500.977-31572.610	-14		1.0-	1.0	1.0-	1.0	2.26	2.40	.14	2.258	2.403	145	-065	-77	7104.5441	
	14071.345	1				.	.											7104.6825	
1	14069.931	2	22160.184-36230.135	-20		.	.	8.0-	9.0				1.230	1.255	25		-94	7105.3965	
	14068.200	2P				.	.											7106.2708	
1	14065.800	4	23207.126-37272.921	5		8.0-	8.0	8.0-	8.0	1.14	1.18	.04	1.135	1.175	40		56	7107.4833	
1	14063.090	3	20697.436-34760.532	-6		.	.	7.0-	6.0				1.250	1.140*	110	-179	-173	7108.8529	
	14062.951	2				.	.											7108.9232	
1	14061.034	3H	21420.983-35482.018	-1		3.0-	3.0	3.0-	3.0	1.66	1.69	.03	1.663	1.679	16		-112	7109.8924	HAZY
2	14056.177	2	31095.675-17039.487	-11		.	.	2.5-	1.5				1.170	1.354*	184	363	357	7112.3492	
	14055.964	3				.	.											7112.4570	
1	14055.299	3	16155.109-30210.416	-8		.	.	5.0-	4.0				0.948	1.160*	212	-255	-253	7112.7935	
1	14054.003	1	18591.122-32645.106	19		.	.	4.0-	5.0				0.965	1.135	170		-235	7113.4494	
1	14052.652	1	13517.647-27570.322	-23		.	.	2.0-	3.0				0.892	1.265	373		-338	7114.1333	
1	14051.159	5	16308.909-30940.068	0		6.0-	5.0	6.0-	5.0	1.098	1.085	.013	1.098	1.080	18	-100	-93	7114.8892	
1	14050.706	2	34723.000-20572.283	-11		.	.	2.0-	2.0				1.280	1.430*	150		198*	7115.1186	
2	14049.195	2	30794.930-16745.720	-15		.	.	1.5-	2.5				1.084	1.671	587	295	296	7115.8838	
1	14047.239	9H	18346.917-4299.659	-19		2.0-	2.0	2.0-	2.0	1.517	1.481	.036	1.518	1.482	36	75	77	7116.8747	
1	14046.114	6	12159.465-26205.589	-10		4.0-	3.0	4.0-	3.0	.83	.67	.16	0.844	0.701	143	-196	-195	7117.4447	
1	14045.428	3	16734.151-30779.585	-6		.	.	2.0-	3.0				0.928	0.860	68	-177	-175	7117.7923	
2	14044.410	1	35586.850-21562.435	-5		.	.	1.5-	2.5				1.160	1.279*	119	230	228	7118.3082	
1	14043.384	0	30319.724-16276.332	-8		.	.	3.0-	2.0				1.010	1.880*	870		121	7118.8283	
1	14042.581	1	18602.505-32645.106	-20		.	.	6.0-	5.0				0.910	1.135	225		-22	7119.2354	
1	14042.036	1	20065.327-34107.378	-15		.	.	3.0-	3.0				0.998	1.160*	162		-231	7119.5117	C2
1	14042.036	1	24347.551-38389.560	27		.	.	3.0-	4.0				1.300	1.070*	230		17*	7119.5117	C2
1	14040.966	0	33284.270-19343.293	-6		.	.	4.0-	3.0				1.080	1.135*	55		89	7120.0543	
2	14040.618	4	35902.735-21862.135	18		1.5-	2.5	1.5-	2.5	1.606	1.319	.287	1.605	1.320*	285	282	295	7120.2307	PB
1	14039.703	2	24613.274-38652.990	-13		.	.	5.0-	4.0				1.160	1.090*	70			7120.6948	
2	14039.274	5	34361.635-20322.349	-12		5.5-	6.5	5.5-	6.5	1.222	1.318	.096	1.222	1.314	92	174	182	7120.9124	
1	14038.022	5	21812.682-7774.653	-7		4.0-	4.0	4.0-	4.0			.422	1.040	1.463	423		11	7121.5475	
2	14036.495	2	35955.905-21919.400	-10		.	.	6.5-	7.5				1.140	1.345*	205	354	353	7122.3222	
	14036.119	0				.	.											7122.5130	
2	14035.740	0	28026.690-13990.952	2		.	.	2.5-	1.5				1.320	1.728*	408		132	7122.7053	
	14035.401	0				.	.											7122.8774	
1	14034.944	2B	27563.217-13528.246	-27		.	.	1.0-	1.0				0.745	-0.590*	1335	143	138	7123.1093	
1	14034.430	4	14292.176-28326.610	-4		5.0-	4.0	5.0-	4.0	.97	1.27	.30	0.970	1.260*	290	-326	-326	7123.3702	
1	14031.580	1	17554.704-31536.283	1		.	.	8.0-	8.0				1.170	1.053*	117		-105	7124.8170	
	14030.101	2				.	.											7125.5681	
2	14029.399	1	30775.140-16745.720	-21		.	.	3.5-	2.5				1.099	1.671	572	219	214	7125.9247	
1	14027.351	1	17911.977-31939.345	-17		.	.	5.0-	6.0				1.145	1.200*	55		-337	7126.9650	
1	14025.860	0	20709.458-34735.314	4		.	.	3.0-	3.0				1.240	0.899	341		-26	7127.7227	
2	14022.855	1	28715.965-14693.090	-10		.	.	1.5-	0.5				0.875	0.840	35		127*	7129.2450	C2
1	14022.865	1	23895.741-37918.620	-14		.	.	2.0-	1.0				-0.100	0.690*	790			7129.2450	C2
1	14022.481	1	25717.388-39739.870	-1*		.	.	5.0-	6.0				0.970	1.140*	170		-23	7129.4403	C2
1	14022.481	1	25074.585-39097.075	-9		.	.	4.0-	3.0				1.507	1.345	162			7129.4403	C2
	14020.367	0				.	.											7130.5152	
1	14019.905	0	29765.568-15745.648	-15		.	.	3.0-	3.0				1.162	1.145	17		169*	7130.7502	
	14018.272	0				.	.											7131.5809	
1	14016.335	1	13726.661-27743.009	-13		.	.	3.0-	2.0				1.150	0.568	582		-36	7132.5664	
2	14013.841	0	30759.570-16745.720	-9		.	.	2.5-	2.5				1.220	1.671	451	446	433	7133.8358	
1	14012.259	4	22710.370-36722.663	6*	10.0-	9.0	10.0-	9.0		1.257	1.110	.147	1.260	1.110	150	-183	-186	7134.6209	SI

C	HAVENTUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	14009.471	5	12351.522-26350.997	-4			6.0-	5.0	6.0-	5.0	.98	.80	.18	0.995	0.796	199	-247	-249	7136.0611		
	14008.215	0																	7136.7009	HVLQ	
1	14004.975	2	18963.921-32968.906	-10			.	.	4.0-	4.0	.	.	.	1.251	1.115	136		-190	7138.3520		
	14004.825	3H															190		7138.4285	ISQ 2LNS	
2	14004.825	3H	32670.835-18666.006	-4			.	.	2.5-	2.5	1.363	1.363		1.361	1.365	4	190	182	7138.4285	2LNS	
1	14003.204	3	14292.176-28295.380	0			.	.	5.0-	4.0				0.970	1.155	185	-184	-183	7139.2548		
1	14002.134	4	13726.661-27728.796	-1			.	.	3.0-	3.0				1.150	1.060	90	-134	-131	7139.8004		
1	13999.371	2	14763.705-28763.085	-9			.	.	1.0-	0.0				-0.066	0.000	0	-266	-249	7141.2095		
1	13998.484	9H	16202.112- 2203.606	-22			0.0-	1.0	0.0-	1.0	.000	1.490		0.000	1.495	0	116	116	7141.6620		
2	13996.909	4	31160.405-17163.470	-26			.	.	3.5-	4.5				0.978	1.200	222	633	632	7142.4656		
1	13996.676	4	19872.154-33868.834	-4			9.0-	9.0	9.0-	9.0	1.199	1.160	.039	1.199	1.165	34	-261	-260	7142.5845		
	13995.530	0																	7143.1694		
1	13995.343	0	14737.788-28733.159	-28			.	.	3.0-	4.0				0.815	1.035	220		-107	7143.2648		
1	13993.605	1	23766.136- 9772.532	1			.	.	1.0-	0.0				2.162	0.000	0	-181	-173	7144.1520		
	13989.715	0																	7146.1386		
	13989.468	0																	7146.2647		
2	13989.269	0	31152.740-17163.470	-1			.	.	5.5-	4.5				1.240	1.200*	40			7146.3664		
2	13988.440	3	28421.805-14433.351	-14			2.5-	1.5	2.5-	1.5	.872	1.927	1055	0.878	1.925	1047	243	240	7146.7899		
	13984.197	0																	7148.9584		
	13983.900	0																	7149.1102		
2	13981.702	3	30727.440-16745.720	-18			.	.	1.5-	2.5				1.208	1.671	463	340	337	7150.2341		
1	13981.210	3	14853.317-28834.535	-8			.	.	4.0-	5.0				0.786	0.978	192		-84	7150.4857		
1	13980.557	2	16834.379-30814.939	-3			.	.	5.0-	5.0				0.961	1.111	150	-213	-206	7150.8197		
1	13980.255	2	32519.048-18538.782	-11			.	.	2.0-	2.0				0.880	1.600	720		84	7150.9742		
1	13977.703	8	24216.272-10238.473	-11			6.0-	6.0	6.0-	6.0	1.004	1.430	.426	1.005	1.431	426	154	154	7152.2363		
	13976.100	1																	7153.0960		
2	13975.836	4	27702.165-13726.318	-11			.	.	1.5-	2.5				1.135	0.784	351	335	335	7153.2352		
1	13973.932	2	30578.731-16604.786	-13			.	.	5.0-	6.0				1.209	0.950*	259	+	19	7154.2099		
	13973.213	1																-225		7154.5765	
1	13972.711	1	18672.411-32645.106	16			.	.	6.0-	5.0				1.190	1.135*	55		-253	7154.8351		
1	13971.323	3	18046.108-32017.434	-3			.	.	4.0-	4.0				0.694	1.020*	326	-	-15	7155.5459		
1	13970.552	4	17500.977-31471.542	-13			1.0-	1.0	1.0-	1.0	2.26	2.20	.06	2.258	2.188	70	+	23	7155.9408		
	13969.916	1																	7156.2666		
	13969.559	2																	7156.4495		
1	13969.150	2	19594.767-33563.924	-7			.	.	0.0-	1.0				0.000	0.430*	0	+	26	7156.6590		
	13968.220	2H																	7157.1355	2LNS	
1	13968.220	2H	19496.402-33464.592	30			.	.	3.0-	4.0				1.555	0.000*	0		-253	7157.1355	2LNS	
	13967.704	2H																	7157.3999		
	13966.704	1C																	7157.9123		
1	13962.741	6	21737.407- 7774.653	-13			3.0-	4.0	3.0-	4.0	1.029	1.464	.435	1.026	1.463	437	-055	-60	7159.9440		
1	13961.914	1	19959.027-33920.944	-3			.	.	1.0-	2.0				0.760	1.040*	280	115	113	7160.3681		
1	13961.395	5	22176.323-36137.730	-12			1.0-	2.0	1.0-	2.0	1.211	1.527	.316	1.210	1.525*	315	-062	-69	7160.6342		
1	13960.325	1	17081.874-31042.204	-5			.	.	4.0-	3.0				1.217	1.010	207		-82	7161.1831		
	13959.232	0																	7161.7438		
1	13958.167	3	16155.109-30113.280	-4			.	.	5.0-	6.0				0.948	1.050	102	-115	-119	7162.2902		
1	13956.634	0	22719.949-36676.620	-37			.	.	4.0-	4.0				1.070	1.150*	80		-120	7163.0770		
	13956.260	1																	7163.2689		
1	13955.695	2H	22182.030-36137.730	-5			.	.	2.0-	2.0				1.295	1.525	230	+	21	7163.5589	HAZY	
	13954.833	1																	7164.0014		
2	13954.134	2	27680.460-13726.318	-8			.	.	2.5-	2.5				1.310	0.784*	526	286	286*	7164.3603		
	13952.611	0																181		7165.1423	
1	13951.304	0	17500.977-31452.362	-1			.	.	1.0-	1.0				2.258	0.852	1406		52	7165.7725		
1	13949.064	2	16595.109-30544.187	-14			.	.	3.0-	3.0				0.999	0.946	53		-119	7166.9643		
1	13948.385	2	31724.867-17776.483	1			2.0-	2.0	2.0-	2.0	1.015	.565	.450	1.016	0.565	451		-104	7167.3132		
1	13947.787	2H	14025.007-27972.815	-21			.	.	4.0-	4.0				0.975	0.979	4		-83	7167.6205	HAZY	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1							G2	G1			DG	IS	IS
1	13946.803	5	19236.116	-	33182.933	-14	7.0	6.0	7.0	6.0	1.142	1.042	.100	1.155	1.050	105	-174	-178	7168.1262	
	13945.373	2																	7168.8612	
1	13943.823	5	9724.351	-	23668.184	-5	3.0	4.0	3.0	4.0	.	.	.	0.442	0.940*	498	-104	-107	7169.6556	
	13942.961	2																	7170.1014	
	13941.827	0																	7170.6846	
1	13941.030	2H	23274.858	-	37215.900	-12	.	.	4.0	4.0	.	.	.	1.604	1.485	119		-18	7171.0945	
1	13940.426	5	16520.962	-	30461.399	-11	.	.	5.0	5.0	.	.	.	0.736	0.990	254	+	15	7171.4052	
1	13939.818	0	19553.257	-	33498.071	4	.	.	2.0	3.0	.	.	.	-0.145	0.770	915		56	7171.7180	
1	13938.766	4	12351.522	-	26290.302	-14	.	.	6.0	5.0	.	.	.	0.995	1.125	130	-373	-375	7172.2593	
1	13933.357	3	18046.108	-	31934.470	-5	.	.	4.0	3.0	.	.	.	0.694	1.090	396		134	7172.4698	
2	13937.474	3	25944.980	-	12007.503	-3	1.5	1.5	1.5	1.5	1.562	-0.007	1569	1.550	-0.019	1569	417	420*	7172.9242	
	13934.275	1C																	7174.5709	
	13933.591	1C																	7174.9231	
2	13932.966	1C	24659.305	-	10726.322	-17	4.5	4.5	4.5	4.5	.	.	.25	1.140	1.391*	251		85*	7175.2450	C2
1	13932.966	1C	24455.635	-	38339.560	41	.	.	3.0	4.0	.	.	.	1.000	1.070*	70		-14*	7175.2450	C2
1	13929.290	9	21703.960	-	7774.653	-17	5.0	4.0	5.0	4.0	1.120	1.463	.343	1.120	1.463	343	166	167	7177.1386	
2	13928.688	4	23171.032	-	9242.356	12	.	.	4.5	3.5	.	.	.	1.240	1.369*	129	173	170	7177.4488	
1	13926.951	1	16532.104	-	30459.091	-36	.	.	3.0	2.0	.	.	.	0.300	1.255	955		-94	7178.3440	
1	13926.021	3	16388.909	-	30814.939	-9	.	.	6.0	5.0	.	.	.	1.098	1.111	13	-234	-231	7178.8234	
1	13925.570	0	31702.058	-	17776.483	-5	.	.	3.0	2.0	.	.	.	1.085	0.565	520		11	7179.0559	
1	13925.000	3	9724.351	-	23649.372	-21	.	.	3.0	4.0	.	.	.	0.442	0.000*	0	088	-356	7179.3497	ISQ CQ
	13924.532	2																	7179.5910	
1	13924.016	1	18046.108	-	31970.100	24	.	.	4.0	4.0	.	.	.	0.694	1.100*	406	+	30	7179.8571	
1	13922.519	1	14912.011	-	28834.535	-5	.	.	4.0	5.0	.	.	.	0.496	0.978	482	+	13	7180.6291	
	13921.888	0																	7180.9545	
1	13920.811	2	20065.327	-	6144.515	-1	3.0	3.0	3.0	3.0	.990	1.470	.480	0.998	1.473	475	185	189	7181.5101	
2	13915.963	1	17532.937	-	31448.910	-10	.	.	3.5	2.5	.	.	.	1.238	0.800	438	203	-312	7184.0120	ISQ
1	13915.587	1	12177.963	-	26093.563	-13	.	.	1.0	1.0	.	.	.	0.525	-0.082	607	-152	-150	7184.2061	
	13914.888	1																	7184.5670	
1	13914.536	2	13517.647	-	27432.195	-12	2.0	1.0	2.0	1.0	.885	1.135	.250	0.892	1.130*	238	-341	-342	7184.7488	
1	13910.887	1	24149.361	-	10238.473	-1	.	.	5.0	6.0	.	.	.	1.262	1.431	169		-7	7186.6334	
1	13908.516	0	17911.977	-	31820.494	-1	.	.	5.0	4.0	.	.	.	1.145	1.240	95	-307	-311	7187.8585	
2	13908.118	1	24634.455	-	10726.322	-15	.	.	3.5	4.5	.	.	.	0.839	1.391	552		6	7188.0642	
	13907.435	3																	7188.4172	
1	13906.777	1	31211.905	-	17305.142	14	.	.	1.0	2.0	.	.	.	1.235	0.000*	0		-106	7188.7574	
	13906.497	1																	7188.9021	
	13905.190	1																	7189.5778	
1	13904.828	1	25192.231	-	39097.075	-16	.	.	4.0	3.0	.	.	.	1.768	1.345	423			7189.7650	
	13904.523	1																	7189.9227	
1	13902.551	1	26374.994	-	40277.550	-5*	.	.	4.0	5.0	.	.	.	0.000	1.125	0			7190.9426	
1	13901.073	1	34839.189	-	20988.110	-6	.	.	3.0	4.0	.	.	.	0.990	1.374	384		144	7191.7071	
	13900.841	1																	7191.8272	
2	13900.424	0	30646.175	-	16745.720	-31	.	.	3.5	2.5	.	.	.	1.272	1.671	399		305	7192.0429	
2	13899.023	3	22537.265	-	8638.233	-9	5.5	5.5	5.5	5.5	1.316	1.514	.198	1.315	1.514	199	166	163	7192.7679	
1	13897.623	1	31470.224	-	17572.603	7	.	.	3.0	2.0	.	.	.	1.070	0.555*	515	223	223	7193.4924	
2	13894.987	7	19397.055	-	5502.060	-8	0.5	1.5	0.5	1.5	3.328	1.172	2156	3.328	1.169	2159	156	152	7194.8571	
1	13894.672	3	12177.963	-	26072.627	8	.	.	1.0	2.0	.	.	.	0.525	1.500*	975	-374	-363	7195.0202	
	13894.240	0																	7195.2439	
1	13893.673	0	20385.328	-	34279.010	-9	.	.	2.0	1.0	.	.	.	1.911	1.710*	201		-71	7195.5376	
1	13892.930	0	19265.603	-	33758.523	10	.	.	4.0	5.0	.	.	.	1.100	0.830	270		-234	7195.9224	
1	13891.767	2	32519.048	-	18527.281	0	.	.	2.0	1.0	.	.	.	0.880	0.000*	0	137	138	7196.5248	
1	13891.325	2	18591.122	-	32482.465	-18	.	.	4.0	4.0	.	.	.	0.965	1.330*	365	-344	-328	7196.7538	
2	13889.674	2	35432.095	-	21542.435	14	.	.	1.5	2.5	.	.	.	1.190	1.279	89			7197.6093	
1	13889.358	1	20540.110	-	34429.460	8	.	.	3.0	2.0	.	.	.	0.830	0.930*	100	+	13	7197.7730	
2	13883.348	0	27879.305	-	13990.952	-5	.	.	0.5	1.5	.	.	.	0.802	1.728	926		44	7198.2965	

C	NAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAWELENGTH	NOTES
1	13887	.106	2	14853.317-28740.433			-10	.	.	4.0-	3.0	.	.	.	0.786	0.970	184	-196	-195	7198.9403	
1	13882	.967	5	12322.613-26205.589			-9	2.0-	3.0	2.0-	3.0	1.038	.702	.336	1.036	0.701	335	-198	-198	7201.0865	
	13822	.245	1					.	.	.	.	.	.	.	.	.	.	.	.	7201.4611	
	13881	.827	1					.	.	.	.	.	.	.	.	.	.	.	.	7201.6779	
1	13820	.025	4	16334.379-30714.385			19	.	.	5.0-	4.0	.	.	.	0.961	1.150	189	-	-80	7202.6129	
1	13879	.838	7	14853.317-28733.159			-4	4.0-	4.0	4.0-	4.0	.786	1.028	.242	0.786	1.035	249	-	-33	7202.7099	
2	13878	.184	1W	32544.185-18666.006			5	.	.	3.5-	2.5	.	.	.	1.130	1.365	235	141	141	7203.5683	HAZY
1	13877	.235	4	25717.338-39594.680			-7*	.	.	5.0-	4.0	.	.	.	0.970	1.070*	100	128	128	7204.0350	
1	13876	.475	4	18602.505-32478.986			-6	.	.	6.0-	6.0	.	.	.	0.910	1.110	200	-	-68	7204.4555	
1	13876	.128	7	16520.962-30397.106			-16	5.0-	5.0	5.0-	5.0	.721	.968	.247	0.736	1.005	269	096	100	7204.6357	
1	13875	.334	2	16888.909-30764.244			-1	.	.	6.0-	6.0	.	.	.	1.098	0.975	123	-237	-233	7205.0480	
1	13874	.090	2	16520.962-30395.062			-10	.	.	5.0-	4.0	.	.	.	0.736	0.920	184	+	23	7205.6940	
1	13870	.914	0	13726.661-27597.590			-15	.	.	3.0-	4.0	.	.	.	1.150	0.930	220	-	-106	7207.3439	
2	13869	.685	1	37874.470-51744.190			-35*	.	.	1.5-	1.5	.	.	.	1.030	0.750*	280	-135		7207.9825	
1	13869	.345	3C	30645.856-16776.530			19	.	.	2.0-	1.0	.	.	.	1.541	0.000*	0	-	140	7208.1592	
1	13869	.001	3C	14692.549-28561.548			2	.	.	2.0-	2.0	.	.	.	0.292	0.784	492	-171	-172	7208.3380	
1	13868	.099	1	28210.060-14341.947			-14	.	.	2.0-	2.0	.	.	.	0.865	0.852	13	-	138	7208.8069	
	13864	.910	1					.	.	.	.	.	.	.	.	.	.	.	.	7210.4649	
1	13863	.965	1	16595.109-30459.091			-17	.	.	3.0-	2.0	.	.	.	0.999	1.255	256	-	-265	7210.9564	
	13863	.765	1					.	.	.	.	.	.	.	.	.	.	.	.	7211.0605	
1	13863	.146	3	18181.485-32044.652			-21	0.0-	1.0	0.0-	1.0	.000	.800		0.000	0.800	0	-	-161	7211.3824	
1	13862	.958	3	16532.104-30395.062			0	.	.	3.0-	4.0	.	.	.	0.300	0.920	620	+	19	7211.4802	
2	13860	.677	3	21359.050-7498.364			-9	2.5-	2.5	2.5-	2.5	1.248	1.315	.067	1.254	1.321	67	197	198	7212.6670	
	13859	.707	1					.	.	.	.	.	.	.	.	.	.	.	.	7213.1718	
1	13855	.522	2H	34527.915-20672.390			-3	.	.	2.0-	1.0	.	.	.	1.310	0.000*	0	-	144*	7215.3505	HAZY
1	13854	.244	2	19074.292-32928.540			-4	.	.	2.0-	2.0	.	.	.	1.532	1.060*	472	-	-4	7216.0161	
	13853	.740	1					.	.	.	.	.	.	.	.	.	.	.	.	7216.2786	
1	13853	.298	2	20425.711-34279.010			-1	.	.	1.0-	1.0	.	.	.	1.340	1.710*	370	-	-68	7216.5089	
1	13852	.089	3	24090.570-10238.473			-8	.	.	7.0-	6.0	.	.	.	1.130	1.431	301	-040	-41	7217.1387	
	13851	.829	1					.	.	.	.	.	.	.	.	.	.	.	.	7217.2742	
	13851	.569	0					.	.	.	.	.	.	.	.	.	.	.	.	7217.4097	
	13850	.915	0					.	.	.	.	.	.	.	.	.	.	.	.	7217.7505	
	13850	.762	0					.	.	.	.	.	.	.	.	.	.	.	.	7218.0386	
1	13843	.303	3	18147.975-4299.659			-8	.	.	3.0-	2.0	.	.	.	1.049	1.482	433	192	193	7219.1092	
1	13847	.868	2	23281.721-37129.590			-1	.	.	5.0-	5.0	.	.	.	1.235	1.010	225	+	14	7219.3386	
1	13846	.221	1	18578.669-32424.890			0	.	.	1.0-	1.0	.	.	.	1.932	1.770*	162	-	-5	7220.1974	
2	13845	.559	4	32607.135-18761.580			4	4.5-	5.5	4.5-	5.5	1.072	1.296	.224	1.047	1.296	249	332	327	7220.5426	
2	13844	.848	1	34902.775-21057.925			-2	.	.	3.5-	2.5	.	.	.	1.155	1.590	435	-	478	7220.9134	
1	13839	.706	6	16532.104-30371.819			-9	3.0-	3.0	3.0-	3.0	.310	.650	.340	0.300	0.640	340	-075	-79	7223.5963	
1	13839	.247	1	18953.921-32803.199			-31	.	.	4.0-	3.0	.	.	.	1.251	0.825	426	-	-155	7223.8358	
1	13839	.071	1	31411.690-17572.608			-11	.	.	2.0-	2.0	.	.	.	1.289	0.555	734	-	177	7223.9277	
1	13838	.317	5	18602.505-32440.827			-5	.	.	6.0-	6.0	.	.	.	0.910	1.120*	210	-	-10	7224.3213	
2	13838	.061	4	34013.940-20175.895			16	3.5-	3.5	3.5-	3.5	1.117	1.505	.388	1.121	1.515	394	345	343	7224.4550	
	13836	.485	2					.	.	.	.	.	.	.	.	.	.	.	.	7225.2779	
1	13835	.861	2	22182.030-36017.900			-9	.	.	2.0-	1.0	.	.	.	1.295	0.910	385	-	69	7225.6037	
2	13835	.639	2	36033.315-22197.670			-6	4.5-	3.5	4.5-	3.5	1.134	.546	.412	1.134	1.530	396	-	315	7225.7197	
	13833	.609	2					.	.	.	.	.	.	.	.	.	.	.	.	7226.7800	
1	13833	.339	2	16834.379-30667.769			-1	.	.	5.0-	4.0	.	.	.	0.961	1.265	304	-260	-258	7226.8949	
1	13830	.174	3H	16302.505-32432.680			-1	.	.	6.0-	7.0	.	.	.	0.910	1.140	230	060	60	7228.5749	HAZY
1	13829	.674	1	16304.260-30133.953			-19	.	.	4.0-	3.0	.	.	.	1.285	1.200*	85	-	-275	7228.8363	
1	13828	.412	2	14912.011-28740.433			-10	.	.	4.0-	3.0	.	.	.	0.496	0.970	474	-096	-98	7229.4960	
2	13826	.627	1	28259.990-14433.351			-12	.	.	1.5-	1.5	.	.	.	1.263	1.925	662	429	428	7230.4293	
	13826	.280	1					.	.	.	.	.	.	.	.	.	.	.	.	7230.6108	
1	13825	.365	9	23004.649-9179.262			-22	5.0-	5.0	5.0-	5.0	1.196	1.454	.258	1.196	1.454	258	141	143	7231.0893	
1	13823	.749	3	14737.788-28561.548			-11	.	.	3.0-	2.0	.	.	.	0.815	0.784	31	-168	-171	7231.9346	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	13822.809	2																		
1	13821.146	4	14912.011	-	23733.159	-2	.	.	4.0-	4.0	.	.	.	0.496	1.035	539	053	64	7232.4264	
1	13820.922	3	16155.109	-	29976.039	-8	.	.	5.0-	4.0	.	.	.	0.948	1.070	122		-171	7233.2967	
1	13820.597	4	17911.977	-	31732.582	-8	.	.	5.0-	5.0	.	.	.	1.145	1.049	96		-229	7233.4139	
	13820.053	1																	7233.5840	
2	13819.550	6	28252.945	-	14433.351	-44	0.5-	1.5	0.5-	1.5	.917	1.924	1007	0.920	1.925	1005	275	275	7233.8687	
1	13814.358	1	11840.715	-	25555.090	-17	3.0-	4.0	3.0-	4.0	.811	1.159	.348	0.811	1.165	354	-286	-292	7234.1320	
2	13812.955	1H	31454.580	-	45267.550	-15	.	.	3.5-	4.5	.	.	.	1.180	1.045*	135			7236.8509	
1	13810.027	2	16734.151	-	30544.187	-9	2.0-	3.0	2.0-	3.0	.93	.95	.02	0.928	0.946	18	-149	-143	7237.5860	HAZY
	13808.295	1															291		7239.1205	
	13807.012	1																	7240.0285	
1	13806.150	3H	27334.422	-	41140.580	-8	7.0-	7.0	7.0-	7.0	1.24	1.47	.227	1.240	1.470*	230	-052	-44	7240.7013	HAZY
2	13802.283	3	33629.300	-	19827.020	3	2.5-	1.5	2.5-	1.5	1.242	1.734	.492	1.242	1.733	491	244	225	7241.1534	
	13802.117	3																	7243.1822	
1	13801.429	2	22219.737	-	36021.165	1	.	.	4.0-	3.0	.	.	.	0.750	1.048	298		77	7243.2693	
1	13801.193	1	26283.495	-	40934.697	-9	.	.	7.0-	6.0	.	.	.	1.080	1.510	430		-47	7243.6304	
1	13800.875	1	20305.482	-	34107.378	-21	.	.	4.0-	3.0	.	.	.	1.123	1.160*	37		-217	7243.7542	
1	13799.952	2	16595.109	-	30395.062	-1	.	.	3.0-	4.0	.	.	.	0.999	0.920	79	-152	-152	7243.9211	
	13799.274	1																	7244.4057	
1	13798.613	3	15249.635	-	29048.255	-7	.	.	2.0-	1.0	.	.	.	0.715	0.900	185	-272	-269	7244.7616	
1	13797.836	5	14763.705	-	28561.548	-7	1.0-	2.0	1.0-	2.0	-0.077	.773	.850	-0.066	0.784	850	-172	-172	7245.1086	
1	13793.905	1	17081.874	-	30875.798	-19	.	.	4.0-	4.0	.	.	.	1.217	1.080*	137		-269	7245.5166	
1	13791.891	1	20521.579	-	34313.475	-5	.	.	6.0-	6.0	.	.	.	1.246	1.030*	216	-148	-153	7247.5815	
1	13791.550	1	18953.921	-	32755.472	-1	.	.	4.0-	4.0	.	.	.	1.251	1.005	246		-304	7248.6398	
1	13790.239	1	18591.122	-	32331.372	-11	.	.	4.0-	5.0	.	.	.	0.965	1.190	225	-283	-286	7248.8191	
1	13786.050	0	16532.104	-	30318.195	-41	.	.	3.0-	2.0	.	.	.	0.300	0.940	640		-18	7249.5082	
1	13785.651	2	17911.977	-	31697.633	-5	.	.	5.0-	4.0	.	.	.	1.145	1.187	42	-124	-125	7251.7110	
1	13785.037	1	17500.977	-	31286.029	-15	.	.	1.0-	2.0	.	.	.	2.258	1.280	978		40	7251.9209	
	13784.023	2																	7252.2439	
1	13781.375	4	9326.801	-	23168.176	0	5.0-	5.0	5.0-	5.0	.800	1.113	.313	0.801	1.115	314	-180	-180	7252.7774	
1	13780.156	1	14025.007	-	27805.163	0	.	.	4.0-	5.0	.	.	.	0.975	1.024	49	-149	-147	7254.1710	
1	13778.844	3	16304.260	-	30083.102	2	.	.	4.0-	5.0	.	.	.	1.285	1.150*	135	-221	-218	7254.8127	
1	13776.679	1	16595.109	-	30371.819	-31	.	.	3.0-	3.0	.	.	.	0.999	0.640	359	-240	-250	7255.5035	
1	13774.011	9	24012.505	-	10238.473	-21	6.0-	6.0	6.0-	6.0	1.248	1.430	.182	1.248	1.431	183	089	95	7256.6437	
1	13770.950	4	12322.613	-	26093.553	0	2.0-	1.0	2.0-	1.0	1.030	-0.092	1122	1.036	-0.082	1118	-156	-154	7258.0493	
1	13770.412	0	30375.227	-	16604.786	-29	.	.	6.0-	6.0	.	.	.	1.320	0.950*	370		-118	7259.6627	
2	13768.987	0	35688.405	-	21919.400	-18	.	.	6.5-	7.5	.	.	.	1.110	1.345*	235		367*	7259.9463	
1	13768.107	2	15856.838	-	29525.003	-8	1.0-	2.0	1.0-	2.0	.	.	.	1.103	0.910*	193	-133	-137	7260.6977	
	13764.872	2H					4.5-	4.5			.743	1.076	.333				379		7261.1617	
2	13763.657	2C	15778.634	-	2014.966	-11	.	.	1.5-	1.5	.	.	.	1.133	1.881	748	166	165	7262.8683	
1	13760.252	1	18672.411	-	32432.680	-7	.	.	6.0-	7.0	.	.	.	1.190	1.140*	50	-169	-171	7263.5094	
1	13759.162	2	14737.788	-	28496.950	0	.	.	3.0-	4.0	.	.	.	0.815	0.810	5	-192	-200	7265.3015	
	13757.852	2																	7265.8823	
2	13757.432	2	25556.740	-	11799.241	-17	.	.	4.5-	5.5	.	.	.	0.976	1.373	397			7266.5742	
1	13756.956	0	20984.195	-	34741.198	-7	.	.	6.0-	5.0	.	.	.	1.319	1.070	249		-215	7266.7696	
	13756.795	0																	7267.0263	
2	13755.436	5	30794.930	-	17039.487	-7	1.5-	1.5	1.5-	1.5	1.080	1.354	.274	1.084	1.354	270	292	296	7267.1325	
1	13754.292	1	34495.354	-	20741.029	-33	.	.	2.0-	2.0	.	.	.	1.180	0.000*	0	158	136	7267.8505	
1	13753.512	3	19426.512	-	33180.043	-19	3.0-	2.0	3.0-	2.0	1.435	1.79	.353	1.435	1.790*	355	-106	-105	7268.4550	
	13751.478	2					2.5-	2.5			.782	1.058	.276						7268.8672	SO
	13751.016	0																	7269.9424	
1	13750.819	1	22377.559	-	36128.425	-7	.	.	7.0-	7.0	.	.	.	1.076	1.060	16		-119	7270.1866	
	13750.403	1																	7270.2908	
	13748.956	1																	7270.5081	
2	13748.552	3	19466.530	-	5717.976	-2	4.5-	3.5	4.5-	3.5	1.151	1.595	.444	1.151	1.596	445	138	133	7271.2759	
																			7271.4896	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	13747.507	1	18897.584-32645.106	-15	.	.	.	.	5.0-	5.0	.	.	.	1.280	1.135	145	.	-257	7272.0423	
1	13745.436	1	18578.659-32324.169	-14	.	.	.	.	1.0-	0.0	.	.	.	1.932	0.000	0	.	78	7273.1115	
1	13744.293	8	10436.922-24231.226	-11	1.0-	2.0	1.0-	2.0	.	.	.35	.41	.06	0.355	0.411	56	-056	-62	7273.7428	
1	13742.618	8	9386.801-23129.429	-10	5.0-	5.0	5.0-	5.0	.	.	.801	1.167	.366	0.801	1.168	367	-362	-363	7274.6294	
	13740.837	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7275.5723	
2	13739.956	2	27466.315-13726.318	-11	.	.	.	.	1.5-	2.5	.	.	.	1.793	0.784	1009	.	453	7276.0229	C2
2	13739.986	2	24615.450-38355.450	-14	.	.	.	.	1.5-	1.5	.	.	.	1.011	0.698	313	.	-49	7276.0229	C2
2	13739.811	3	32501.390-18761.580	1	.	.	.	.	4.5-	5.5	.	.	.	1.190	1.296	106	365	361	7276.1156	
1	13738.875	2	19265.603-33604.497	-19	.	.	.	.	4.0-	3.0	.	.	.	1.100	1.210	110	.	-177	7276.6113	
2	13738.679	1	32607.135-46345.820	-6	.	.	.	.	4.5-	4.5	.	.	.	1.047	1.030	17	.	.	7276.7151	
	13736.028	3			3.0-	2.0	1.055	1.291	.236	.	.	.	.	.	.	.	.	.	7278.1195	PB
1	13735.559	1	20306.482-34042.040	1	.	.	.	.	4.0-	4.0	.	.	.	1.123	0.806	317	.	-139	7278.3680	
2	13734.244	3	35653.670-21919.400	-26	6.5-	7.5	6.5-	7.5	1.102	1.345	.243	.	.	1.105	1.345	240	357	355	7279.0649	
1	13733.116	2C	33070.573-19337.431	-26	.	.	.	.	2.0-	1.0	.	.	.	0.673	2.410*	1737	.	37	7279.6628	
1	13732.001	3	18672.411-32404.416	-4	.	.	.	.	6.0-	5.0	.	.	.	1.190	1.055*	135	-164	-162	7280.2539	
1	13729.611	1	27257.860-13528.246	-3	2.0-	1.0	2.0-	1.0	1.193	-0.566	1759	.	.	1.190	-0.590*	1780	278	278	7281.5212	
1	13727.808	2	22160.184-35838.025	-33	.	.	.	.	8.0-	7.0	.	.	.	1.230	1.050*	180	.	-78	7282.4775	
	13725.017	3			.	.	.	.	.	.	.75	.	.55	.	.	.	.	-192	7283.9585	SO 2J06
2	13723.336	1	24840.100-38563.445	-9	.	.	.	.	1.5-	2.5	.	.	.	1.025	1.085*	60	.	.	7284.8507	C2
1	13723.336	1	15249.635-25972.971	0	.	.	.	.	2.0-	2.0	.	.	.	0.715	0.794	79	.	-207	7284.8507	C2
1	13723.082	2	16595.109-30318.195	-4	.	.	.	.	3.0-	2.0	.	.	.	0.999	0.940	59	-184	-189	7284.9855	
1	13721.090	3	19865.603-6144.515	2	.	.	.	.	4.0-	3.0	.	.	.	1.100	1.473	373	176	180	7286.0431	
2	13720.053	1	30759.570-17039.487	-30	.	.	.	.	2.5-	1.5	.	.	.	1.220	1.354	134	.	433	7286.5938	
	13718.640	1			.	.	.	.	.	.	.	.	.	.	.	.	271	.	7287.3444	
1	13716.638	1	17911.977-31628.619	-4	.	.	.	.	5.0-	6.0	.	.	.	1.145	1.110	35	.	-152	7288.4080	
1	13716.332	1	22719.949-36436.294	-13	.	.	.	.	4.0-	3.0	.	.	.	1.070	1.095	25	.	36	7288.5706	
	13715.659	2			.	.	.	.	.	.	.	.	.	.	.	.	-207	.	7288.9282	
1	13715.040	2	20043.465-33758.523	-18	.	.	.	.	5.0-	5.0	.	.	.	0.925	0.830	95	.	-5	7289.2572	
	13713.931	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7289.8467	
1	13713.853	1	18591.122-32304.979	-4	.	.	.	.	4.0-	4.0	.	.	.	0.965	0.990*	25	.	-283	7289.8881	
1	13709.771	7	22839.053-9179.262	-20	4.0-	5.0	4.0-	5.0	1.265	1.456	.191	.	.	1.263	1.454	191	131	135	7292.0587	
2	13709.204	0	29197.755-15488.530	-21	.	.	.	.	2.5-	3.5	.	.	.	0.989	1.057	68	.	346	7292.3602	
1	13708.953	1	18672.411-32391.372	-8	.	.	.	.	6.0-	5.0	.	.	.	1.190	1.190*	0	.	-304	7292.4938	
2	13706.539	1	24432.860-10726.322	-8	.	.	.	.	3.5-	4.5	.	.	.	1.110	1.391*	281	.	125	7293.7829	
	13705.294	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7294.4407	
	13705.031	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7294.5541	
	13704.909	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7294.6456	
1	13703.785	2	14025.007-27728.796	-4	.	.	.	.	4.0-	3.0	.	.	.	0.975	1.060	85	.	-130	7295.2439	
1	13703.598	1	21263.339-34966.946	-9	.	.	.	.	5.0-	4.0	.	.	.	0.610	1.025*	415	.	-20	7295.3435	
	13703.369	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7295.4654	
	13702.332	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7296.0175	
1	13702.122	1	21218.180-34920.315	-13	.	.	.	.	3.0-	3.0	.	.	.	0.860	0.930	70	.	-229	7296.1294	
2	13701.911	2	30865.395-17163.470	-14	.	.	.	.	3.5-	4.5	.	.	.	1.328	1.200	128	232	233	7296.2417	
1	13701.651	1	31024.953-17323.291	-11	.	.	.	.	3.0-	4.0	.	.	.	1.335	1.250*	85	.	147	7296.3802	
2	13701.019	2	33876.910-20175.895	4	3.5-	3.5	3.5-	3.5	1.043	1.515	.472	.	.	1.043	1.515	472	.	457*	7296.7167	
1	13700.838	3	19872.154-33572.999	-7	9.0-	9.0	9.0-	9.0	1.20	1.15	.05	.	.	1.199	1.160*	39	-337	-337	7296.8131	
	13699.526	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7297.4800	
1	13693.533	4	20457.704-34156.245	-3	0.0-	1.0	0.0-	1.0	.000	1.310	.	.	.	0.000	1.305	0	.	-32	7298.0383	
1	13697.697	2	17881.874-30779.535	-14	4.0-	3.0	4.0-	3.0	1.217	.848	.369	.	.	1.217	0.860	357	-186	-185	7298.4864	
1	13697.069	1	18602.505-32299.581	-7	.	.	.	.	6.0-	5.0	.	.	.	0.910	0.000*	0	.	-26	7298.8210	
	13690.768	1H			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7302.1802	
2	13689.507	2H	27680.460-13990.952	-1	.	.	.	.	2.5-	1.5	.	.	.	1.310	1.728*	418	.	-17*	7302.8528	
	13688.983	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	7303.1324	
2	13587.928	1	30727.440-17039.487	-25	.	.	.	.	1.5-	1.5	.	.	.	1.208	1.354	146	.	337	7303.6953	
1	13586.451	1	18046.108-31732.582	-23	.	.	.	.	4.0-	5.0	.	.	.	0.694	1.049	355	.	3	7304.4835	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	13685.274	1																	7305.1117	
	13685.002	2																	7305.2569	
1	13684.026	2	16532.104	-	30216.163	-33	.	.	3.0-	2.0	.	.	.	0.300	1.143	843		-11	7305.7779	
	13683.725	1																	7305.9387	
1	13683.169	3	22710.370	-	36393.534	5*	10.0-	10.0	10.0-	10.0	1.265	1.145	.120	1.260	1.150*	110	-201	-201	7306.2355	
	13682.687	0																	7306.4929	
2	13682.220	2B	36931.930	-	23249.745	-15	.	.	5.5-	4.5	.	.	.	1.214	1.475	261		503	7306.7423	
1	13682.111	2B	34004.281	-	20322.165	-5	.	.	5.0-	6.0	.	.	.	1.239	1.360*	121		131	7306.8005	
1	13680.626	7	14292.176	-	27972.815	-13	.	.	5.0-	4.0	.97	.98	.01	0.970	0.979	9	-068	-81	7307.5936	
	13679.673	3																	7308.1027	
2	13679.251	1	26401.370	-	40080.685	-54	.	.	4.5-	5.5	.	.	.	1.220	1.060*	160		-190	7308.3228	
1	13678.302	2	16532.104	-	30210.416	-10	.	.	3.0-	4.0	.	.	.	0.300	1.160*	860		-43	7308.8352	
	13677.862	1																	7309.0704	
1	13675.223	1	18397.584	-	32572.811	-4	.	.	5.0-	5.0	.	.	.	1.280	1.010*	270		-263	7310.4808	
	13674.831	0																	7310.6904	
	13674.556	0																	7310.8321	
	13674.270	0																	7310.9903	
1	13671.773	5	16304.260	-	29976.039	-6	4.0-	4.0	4.0-	4.0	1.280	1.065	.215	1.285	1.070	215	-179	-175	7312.3256	
1	13671.102	7	23909.585	-	10238.473	-10	5.0-	6.0	5.0-	6.0	1.241	1.430	.189	1.242	1.431	189	068	63	7312.6845	
1	13670.540	1	17615.482	-	31286.029	-7	.	.	2.0-	2.0	.	.	.	1.450	1.280	170		-33	7312.9851	
1	13669.098	1	25499.501	-	39168.610	-11	.	.	9.0-	9.0	.	.	.	1.200	1.190*	10		-22	7313.7566	
1	13668.876	1	32296.170	-	18527.281	-13*	.	.	1.0-	1.0	.	.	.	0.935	0.000*	0		184	7313.8754	
1	13668.238	2	14692.549	-	28350.802	-15	.	.	2.0-	3.0	.	.	.	0.292	0.887	595	-133	-129	7314.2168	
1	13667.089	2	32294.378	-	18627.281	-8	.	.	2.0-	1.0	.	.	.	1.016	0.000*	0	190	181	7314.8317	
	13666.820	1																	7314.9436	
2	13666.418	1	46141.340	-	32474.965	43	.	.	1.5-	1.5	.	.	.	0.960	1.150*	190			7315.1909	
1	13666.033	1	31233.645	-	17572.608	-4	.	.	3.0-	2.0	.	.	.	1.105	0.555	550			7315.3970	
2	13665.465	2	29952.065	-	16236.532	-18	1.5-	0.5	1.5-	0.5	1.175	0.100	1275	1.184	0.122	1306	305	301	7315.7010	
2	13664.164	2	35861.855	-	22197.670	-21	.	.	3.5-	3.5	.	.	.	1.155	1.530	375	324	324	7316.3976	
1	13663.393	6	17554.704	-	31218.105	-8	8.0-	8.0	8.0-	8.0	1.170	1.155	.015	1.170	1.155*	15	-208	-208	7316.8104	
1	13662.836	1	18147.975	-	31810.821	-10	.	.	3.0-	2.0	.	.	.	1.049	0.865	184		-130	7317.1087	
1	13657.661	2	30262.453	-	16604.786	-6	.	.	6.0-	6.0	.	.	.	1.284	0.950*	334		-85	7319.8812	
	13653.695	3																	7322.0075	
1	13653.282	9	15856.888	-	2203.606	0	1.0-	1.0	1.0-	1.0	1.101	1.490	.389	1.103	1.495	392	132	133	7322.2289	
1	13652.426	0	17615.482	-	31267.919	-11	.	.	2.0-	3.0	.	.	.	1.450	1.080	370		-59	7322.6831	
	13650.334	0																	7323.8103	
1	13649.579	0	20521.579	-	34171.155	3	.	.	6.0-	5.0	.	.	.	1.246	1.230	16		-80	7324.2154	
1	13646.322	9	21420.983	-	7774.653	-8	3.0-	4.0	3.0-	4.0	1.659	1.462	.197	1.663	1.463	200		-23	7325.9635	
	13645.281	0																	7326.5224	
2	13644.902	0	25573.915	-	39218.825	-8	.	.	1.5-	0.5	.	.	.	1.627	1.610*	17		105	7326.7259	
1	13644.370	3	25113.744	-	38758.100	14	.	.	6.0-	5.0	.	.	.	1.302	1.530	228	-071	-68	7327.0116	
1	13643.636	2	14853.317	-	28496.950	3	.	.	4.0-	4.0	.	.	.	0.786	0.810	24	-122	-126	7327.4058	
1	13643.117	0	21263.339	-	34906.470	-14	.	.	5.0-	5.0	.	.	.	0.610	0.925*	315		98	7327.6845	
2	13642.184	5	15657.156	-	2014.966	-6	2.5-	1.5	2.5-	1.5	.998	1.879	.881	1.000	1.831	881	171	166	7328.1857	
1	13641.600	0	8768.139	-	22409.753	-14	.	.	2.0-	2.0	.	.	.	0.362	1.413	1051		-403	7328.4994	
1	13640.240	4	19959.027	-	33599.280	-13	1.0-	2.0	1.0-	2.0	.760	1.605	.845	0.760	1.606*	846	+	28	7329.2301	
1	13639.572	8	22818.840	-	9179.262	-6	6.0-	5.0	6.0-	5.0	1.330	1.449	.119	1.335	1.454	119	176	176	7329.5890	
2	13638.712	1	30802.205	-	17163.470	-23	.	.	4.5-	4.5	.	.	.	1.160	1.200*	40		227	7330.0512	
2	13638.320	1	32399.895	-	18761.580	5	.	.	4.5-	5.5	.	.	.	1.110	1.296*	186		355*	7330.2619	
1	13637.923	1	22705.153	-	36343.140	6*	.	.	1.0-	0.0				-0.020	0.000*	0		-41	7330.4403	
1	13637.534	0	18346.917	-	31984.470	-19	.	.	2.0-	3.0	.	.	.	1.518	1.090	428		16	7330.6844	
	13637.096	2																	7330.9198	
	13636.503	1																	7331.2386	
1	13635.464	9B	9336.801	-	23022.274	-9	.	.	5.0-	5.0	.800	.815	.015	0.801	0.817	16	-220	-222	7331.7973	
2	13631.744	2	32393.315	-	18761.580	9	6.5-	5.5	6.5-	5.5	.	.	.	1.150	1.296*	146	334	384*	7333.7981	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	13528.559	3	16532.104	-30160.664	-1	3.0-	4.0	3.0-	4.0	.	.	.	0.300	1.030	730	+	27	7335.5120		
	13527.114	1																7336.2898		
1	13625.893	1	25328.907	-38954.840	-40	.	.	3.0-	2.0	.	.	.	1.340	1.020*	320	-		7336.9472		
	13625.377	0																7337.2251		
1	13624.293	1	20654.712	-34279.010	-5	.	.	1.0-	1.0	.	.	.	0.200	1.710*	1510		-64	7337.8089		
1	13623.842	1	17911.977	-31535.835	-16	.	.	5.0-	5.0	.	.	.	1.145	1.020	125		-301	7338.0518		
1	13623.008	3	14737.783	-28360.802	-6	.	.	3.0-	3.0	.	.	.	0.815	0.837	72	-129	-128	7338.5010		
	13522.892	3																7338.5635		
1	13621.234	4	19236.116	-32357.357	-7	.	.	7.0-	6.0	.	.	.	1.155	1.101	54	-213	-215	7339.4568		
	13620.675	0																7339.7580		
	13619.534	0																7340.3729		
2	13617.385	1	32283.420	-18666.006	-29	2.5-	2.5	2.5-	2.5	1.044	1.366	.322	1.045	1.365	320	277	267	7341.5313		
	13616.539	1																7341.9605		
1	13616.021	1	20697.436	-34313.475	-18	.	.	7.0-	6.0	.	.	.	1.250	1.030*	220		-153	7342.2668		
2	13615.535	3	24341.940	-10726.322	-23	4.5-	4.5	4.5-	4.5	1.31	1.39	.08	1.310	1.391	81	171	179	7342.4965		
	13615.230	1																7342.6933		
1	13613.755	1	19496.402	-33110.165	-8	.	.	3.0-	4.0	.	.	.	1.555	1.220*	335		-260	7343.4889		
	13612.437	0																7344.1999		
2	13611.644	3	30775.140	-17163.470	-26	3.5-	4.5	3.5-	4.5	1.105	1.200	.096	1.099	1.200	101	216	216	7344.6278		
1	13610.998	0	32263.305	-18652.287	-20	.	.	4.0-	3.0	.	.	.	1.158	0.822	336		-105	7344.9764		
2	13610.052	0	34568.015	-21057.925	-28	.	.	2.5-	2.5	.	.	.	1.175	1.590	415		354*	7345.4815		
1	13607.976	2	22150.184	-35758.160	0	8.0-	8.0	8.0-	8.0	1.23	1.12	.115	1.230	1.120*	110	-184	-191	7346.6075		
2	13604.321	1	25018.940	-32623.240	21	.	.	2.5-	3.5	.	.	.	1.385	0.640*	745			7348.5813		
1	13604.095	3	17045.776	-30649.882	-11	1.0-	0.0	1.0-	0.0	1.476	.000		1.474	0.000	0	031	36	7348.7034		
	13602.523	0																7349.5526		
	13602.131	1																7349.7645		
2	13501.796	5	30765.285	-17163.470	-19	.	.	3.5-	4.5	1.19	1.22	.03	1.190	1.200*	10	284	284	7349.9455		
1	13599.770	2U	19203.415	-32803.199	-14	.	.	2.0-	3.0	.	.	.	1.021	0.825	196	-126	-130	7351.0404		
2	13599.308	0	19317.370	-5717.976	-6	.	.	4.5-	3.5	.	.	.	1.225	1.596	371		154	7351.2469		
	13599.164	0																7351.3680		
	13598.158	1U																7351.9119		
1	13597.516	2	22088.306	-35685.835	-13	.	.	6.0-	5.0	.	.	.	1.060	1.104	44		106	7352.2590		
	13597.253	1																7352.3985		
1	13595.645	0	27124.898	-13528.246	-7	.	.	2.0-	1.0	.	.	.	1.190	-0.590*	1780		189	7352.7300		
	13593.283	3C																7354.5485		
1	13593.018	1C	21031.258	-34624.299	-23	.	.	2.0-	2.0	.	.	.	1.455	1.150*	305		37	7354.6919		
1	13592.310	2	16520.962	-30113.280	-8	.	.	5.0-	6.0	.	.	.	0.736	1.050	314		95	7355.0750		
1	13591.935	2H	11840.715	-25432.655	-5	.	.	3.0-	2.0	.	.	.	0.811	1.281	470	+	16	7355.2779		
	13591.325	3H																7355.5756		
	13590.044	1																7356.3014		
1	13589.730	3	17615.482	-31205.200	12	2.0-	2.0	2.0-	2.0	1.450	1.090	.360	1.450	1.090*	360		-103	7356.4714		
1	13588.616	1	20540.110	-34123.739	-13	.	.	3.0-	3.0	.	.	.	0.830	1.106*	276	-	-19	7357.0744		
	13586.058	0																7358.4597		
	13585.721	1																7358.6422		
1	13585.263	3	32212.561	-18627.281	-17	.	.	2.0-	1.0	.	.	.	1.400	0.000*	0	209	211	7358.8903		
	13585.133	3																-182	7358.9607	
1	13584.952	3	14912.011	-28496.950	13	.	.	4.0-	4.0	.	.	.	0.496	0.810	314		-29	7359.0587		
1	13584.039	1	16734.151	-30318.195	-5	.	.	2.0-	2.0	.	.	.	0.928	0.940	12		-213	7359.5533		
1	13583.471	4	19959.027	-33542.506	-8	1.0-	2.0	1.0-	2.0	.763	1.122	.359	0.760	1.123*	363	075	76	7359.8611		
	13582.192	0																7360.5542		
1	13531.689	0	16304.260	-23885.947	2	.	.	4.0-	3.0	.	.	.	1.285	1.330*	45		-380	7360.8268		
2	13580.941	3	33756.860	-20175.895	-24	.	.	3.5-	3.5	.	.	.	1.272	1.515	243	246	247	7361.2322		
1	13580.849	3	29425.711	-34006.573	-13	.	.	1.0-	0.0	.	.	.	1.340	0.000	0		-82	7361.2820		
	13580.244	1																7361.6100		
1	13579.951	4	27257.860	-13677.903	-6	2.0-	1.0	2.0-	1.0	1.18	1.45	.27	1.190	1.442	252	+	33	7361.7688		

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS			
		13579.091	1																	7362.2351	DJO	
		13577.248	0																	7363.2344		
1		13575.653	5	23814.130	-	10238.473	-4	6.0-	6.0	6.0-	6.0			.550	0.890	1.431	541	-073	-63	7364.0995		
2		13575.257	0	35117.695	-	21542.435	-3			1.5-	2.5				1.505	1.279	226		190	7364.3144		
		13575.030	1																		7364.4375	
		13573.840	0																		7365.0831	
2		13572.497	3C	33629.300	-	47201.830	-33			2.5-	3.5				1.242	0.895	347			7365.8119	C2	
1		13572.497	3C	16228.909	-	30461.399	7			6.0-	5.0				1.098	0.990	108	-197	-202	7365.8119	C2	
1		13571.303	1	8768.139	-	22339.429	13			2.0-	2.0				0.362	1.049	687	-162	-173	7366.4600		
		13570.710	0																		7366.7819	
1		13570.393	3	18572.411	-	32242.810	-6			6.0-	5.0				1.190	1.215*	25		-313	7366.9539		
2		13569.972	2	35432.095	-	21862.135	12			1.5-	2.5				1.190	1.320*	130			7367.1825		
		13569.446	1																		7367.4681	
		13568.874	1																		7367.7787	
1		13568.407	1	26516.261	-	40084.697	-29			5.0-	6.0				1.200	1.510*	310		-166	7368.0323		
		13567.971	1																		7368.2690	
2		13566.419	3	25573.915	-	12007.503	7	1.5-	1.5	1.5-	1.5	1.627	-0.017	1646	1.627	-0.019	1646		241	241	7369.1120	
1		13566.189	2	15406.760	-	28972.971	-22			1.0-	2.0				0.890	0.794	96	-139	-136	7369.2359		
2		13563.088	5	17532.937	-	3969.846	-3	3.5-	2.5	3.5-	2.5	1.234	1.670	.436	1.238	1.670	432	190	180	7370.9218		
1		13562.718	6	16834.379	-	30397.106	-9	5.0-	5.0	5.0-	5.0	.960	1.003	.043	0.961	1.005	44	-089	-92	7371.1229		
1		13562.134	4	16520.962	-	30083.102	-6			5.0-	5.0				0.736	1.150*	414		0	7371.4403		
		13561.129	1																		7371.9866	
		13560.800	3																		7372.1654	
1		13560.666	2	16834.379	-	30395.062	-17			5.0-	4.0				0.961	0.920	41		-169	7372.2383		
		13560.459	0																		7372.3508	
		13560.314	2																		7372.4296	
2		13559.220	3	19277.180	-	5717.976	16			3.5-	3.5				0.847	1.596	749		73	7373.0245		
1		13558.326	2	17615.482	-	31173.814	-6			2.0-	1.0				1.450	0.450*	1000	-129	-122	7373.5106		
2		13557.334	3	22799.695	-	9242.356	-5	4.5-	3.5	4.5-	3.5	1.320	1.365	.045	1.330	1.369*	39	186	173	7374.0502		
		13556.950	0																		7374.4766	
		13555.503	1																		7375.0462	
		13554.669	0																		7375.5000	
		13554.085	0																		7375.8178	
1		13553.285	2	19558.257	-	33111.557	-15			2.0-	2.0				-0.145	1.315	1460	052	53	7376.2531		
2		13551.278	2	30590.765	-	17039.487	0	2.5-	1.5	2.5-	1.5	.898	1.352	.454	0.900	1.354	454	396	396*	7377.3456		
1		13550.919	3	16520.962	-	30071.890	-9	5.0-	5.0	5.0-	5.0			.550	0.736	1.290*	554	-088	-90	7377.5410		
1		13549.699	1C	29295.313	-	15745.648	34			4.0-	3.0				1.270	1.145*	125		224	7378.2053		
1		13548.577	2	15624.387	-	28972.971	-7			3.0-	2.0				1.106	0.794	312		-200	7378.8163		
1		13547.953	1	35284.096	-	21736.133	0			6.0-	7.0				1.143	0.000*	0			7379.1507		
		13547.036	0																		7379.6557	
1		13546.013	1	27887.955	-	14341.947	5			1.0-	2.0				0.870	0.852*	18		249	7380.2130		
1		13545.312	4	14025.007	-	27570.322	-3	4.0-	3.0	4.0-	3.0			.283	0.975	1.265	290	-355	-350	7380.5950		
2		13544.387	4	32210.400	-	18556.006	-7	2.5-	2.5	2.5-	2.5	1.339	1.365	.026	1.339	1.365	26	238	242	7381.0990		
1		13544.137	2	15249.635	-	28793.800	-28			2.0-	3.0				0.715	1.083	368		-294	7381.2352	C2	
1		13544.137	2	19776.904	-	33321.067	-26			6.0-	5.0				1.012	1.200*	188		-196	7381.2352	C2	
1		13543.232	0	18591.122	-	32134.354	0			4.0-	3.0				0.965	0.000*	0		-191	7381.7285	C2	
1		13543.232	0	18597.584	-	32440.827	-11			5.0-	6.0				1.280	1.120*	160		-245	7381.7285	C2	
1		13540.682	3	22719.949	-	9179.262	-5	4.0-	5.0	4.0-	5.0	1.075	1.454	.379	1.070	1.454	384	-046	-54	7383.1186		
1		13540.250	0	14292.176	-	27832.430	-4			5.0-	4.0				0.970	0.920	50		-88	7383.3542		
		13539.797	0																		7383.6012	
1		13538.840	3	16595.109	-	30133.953	-4			3.0-	3.0				0.999	1.200*	201	-231	-232	7384.1231		
2		13537.837	5	29026.425	-	15488.530	-8	2.5-	3.5	2.5-	3.5	1.149	1.067	.082	1.150	1.057	93	194	194	7384.6429		
1		13535.048	0	20984.195	-	34519.250	-7			6.0-	5.0				1.319	1.170*	149		-170	7386.1919		
2		13533.082	1	36033.315	-	22500.225	-8			4.5-	5.5				1.134	1.555	421		312	7387.2649		
		13532.883	0																		7387.3735	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
2	13532.651	1H	27523.600	-	13990.952	3	0.5-	1.5	0.5-	1.5	.940	1.730	.790	0.940	1.728	788		29	7387.5002	
	13530.916	0																	7388.4475	
1	13529.576	1	21812.622	-	35342.260	-2	.	.	4.0-	4.0	.	.	.	1.040	1.110	70	-	-11	7389.1792	
1	13529.370	1	12177.963	-	25707.348	-15	.	.	1.0-	2.0	.	.	.	0.525	0.720	195		-140	7389.2917	
1	13529.045	0	22889.053	-	36418.125	-27	.	.	4.0-	4.0	.	.	.	1.263	1.075	188		-158	7389.4693	
1	13528.538	2H	21420.983	-	34949.520	1	.	.	3.0-	2.0	.	.	.	1.663	1.085	578		-8	7389.7462	C2
1	13528.533	2H	11747.245	-	25275.795	-12	.	.	0.0-	1.0	.	.	.	0.000	0.706	0		-38	7339.7462	C2
	13528.173	3					6.5-	7.5			1.060	.910	.150				192		7389.9456	7585Q
1	13527.739	0	22837.092	-	36364.850	-19	.	.	3.0-	4.0	.	.	.	1.110	1.080*	30		-182	7390.1827	
	13526.456	0																	7390.8836	
	13524.954	1																	7391.7044	
2	13523.914	1	32041.795	-	18517.872	-9	1.5-	0.5	1.5-	0.5	.981	2.757	1776	0.981	2.755	1774	169	174	7392.2728	
1	13523.591	1	24090.570	-	37614.165	-4	.	.	7.0-	6.0	.	.	.	1.130	1.190	60		24	7392.4494	
	13521.109	0																	7393.8064	
1	13519.768	6	22710.370	-	36230.135	3*	10.0-	9.0	10.0-	9.0	1.265	1.255	.01	1.260	1.255	5	-099	-103	7394.5398	SI f1.32
1	13519.238	0	37750.470	-	24231.226	-6	.	.	2.0-	2.0	.	.	.	0.980	0.411*	569		-196*	7394.8297	
1	13517.859	1	14025.007	-	27542.874	2	.	.	4.0-	5.0	.	.	.	0.975	1.270*	295		-278	7395.5786	
1	13517.708	0	27045.963	-	13528.246	-9	.	.	0.0-	1.0	.	.	.	0.000	0.590*	0		119	7395.6667	
	13517.473	0																	7395.7952	
	13516.291	0																	7396.4420	
1	13515.531	2	23207.126	-	36722.663	-6	8.0-	9.0	8.0-	9.0	1.14	1.11	.03	1.135	1.110	25		63	7396.8579	
1	13515.262	1	22028.306	-	35603.582	-14	.	.	6.0-	6.0	.	.	.	1.060	1.070*	10		53	7397.0052	
1	13514.432	1	17554.704	-	31069.124	12	.	.	8.0-	8.0	.	.	.	1.170	1.135*	35		-59	7397.4594	
1	13513.406	0	21227.793	-	34741.198	1	.	.	4.0-	5.0	.	.	.	1.346	1.070	276		-105	7398.0211	
1	13512.988	4	14292.176	-	27805.163	1	5.0-	5.0	5.0-	5.0	.970	1.025	.054	0.970	1.024	54	-143	-145	7398.2499	
1	13510.420	5	22719.717	-	36230.135	2	9.0-	9.0	9.0-	9.0	1.20	1.25	.054	1.200	1.255*	55	-088	-96	7399.6562	
1	13508.190	5	16828.909	-	30397.106	-7	6.0-	5.0	6.0-	5.0	1.095	1.005	.090	1.098	1.005	93	-115	-117	7400.8778	PB
1	13507.473	6	14853.317	-	28360.802	-12	4.0-	3.0	4.0-	3.0	.789	.890	.101	0.786	0.887	101	-049	-54	7401.2706	PB
	13506.855	1																	7401.6093	
1	13505.638	3	20065.327	-	33570.935	30	3.0-	4.0	3.0-	4.0	1.00	1.13	.13	0.998	1.130*	132	-171	-173	7402.2762	
1	13501.523	3H	20654.712	-	34156.245	-10	1.0-	1.0	1.0-	1.0	.200	1.307	1107	0.200	1.305	1105	-062	-60	7404.5323	
	13500.425	1																	7405.1345	
2	13500.109	0	33629.300	-	47129.430	-21	.	.	2.5-	2.5	.	.	.	1.242	0.920	322			7405.3079	
	13499.588	1																	7405.5937	
1	13498.820	1	24158.741	-	37657.560	1	.	.	2.0-	3.0	.	.	.	1.240	1.132*	108	+		7406.0150	
2	13498.465	1	25064.960	-	38563.445	-20	.	.	1.5-	2.5	.	.	.	0.580	1.085	505			7406.2098	
2	13498.175	2	32259.765	-	18761.580	-10*	.	.	5.5-	5.5	.	.	.	1.180	1.296*	116		409	7406.3689	
	13497.945	2																	7406.4951	
	13497.591	1																	7406.6893	
1	13497.191	0	21263.339	-	34760.532	-2	.	.	5.0-	6.0	.	.	.	0.610	1.140*	530		106	7406.9088	
1	13496.617	0	19776.904	-	33273.528	-7	.	.	6.0-	7.0	.	.	.	1.012	1.070*	58		-230	7407.2239	
1	13495.646	1U	12159.465	-	25655.090	21	4.0-	4.0	4.0-	4.0	.845	1.160	.315	0.844	1.165	321	-286	-291	7407.7568	
	13495.262	2																	7407.9676	
	13495.017	1																	7408.1021	
	13493.948	0																	7408.6890	
	13493.233	3											.442						7409.0815	DJO 2J06
1	13491.319	2	17911.977	-	31403.302	-6	5.0-	5.0	5.0-	5.0	1.145	1.205	.060	1.145	1.205	60	-299	-302	7410.1327	
1	13490.793	0	15249.635	-	28740.433	-5	.	.	2.0-	3.0	.	.	.	0.715	0.970	255			7410.4216	
1	13489.683	2	21263.339	-	7774.653	-3	5.0-	4.0	5.0-	4.0	.60	1.46	.86	0.610	1.463*	853		-93	7411.5808	
2	13487.439	3	33809.795	-	20322.349	-7	5.5-	6.5	5.5-	6.5	1.170	1.310	.140	1.180	1.314	134	386	375	7412.2644	
	13486.927	1																	7412.5458	
1	13483.777	2B	18897.584	-	32381.372	-11	5.0-	5.0	5.0-	5.0	.	.	.095	1.280	1.190	90		-308	7414.2775	
2	13482.677	3	30646.175	-	17163.470	-28	3.5-	4.5	3.5-	4.5	1.28	1.21	.07	1.272	1.200	72	307	307	7414.8824	
	13482.342	1																	7415.0666	
1	13482.004	1	16734.151	-	30216.163	-8	.	.	2.0-	2.0	.	.	.	0.928	1.143	215		-206	7415.2525	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	13480.794	1H	22289.053-36369.870			-23	.	.	4.0-	5.0	.	.	.	1.263	1.069	194		-218	7415.9181	HAZY
	13478.816	1					.	.			.	.	.						7417.0064	
2	13475.357	4	27466.315-13990.952			-6	1.5-	1.5	1.5-	1.5	1.788	1.723	.065	1.793	1.728	65	153	150	7418.9103	
1	13473.913	2	31046.528-17572.608			-7	2.0-	2.0	2.0-	2.0	1.500	.555	.945	1.480	0.555*	925	118	118	7419.7054	
1	13473.281	1	14853.317-28326.610			-12	.	.	4.0-	4.0	.	.	.	0.786	1.260*	474			7420.0534	
1	13472.512	1	19496.402-32968.906			8	.	.	3.0-	4.0	.	.	.	1.555	1.115	440			7420.4769	
	13472.272	0					.	.			.	.	.						7420.6091	
1	13470.480	2	16734.151-30204.635			-4	2.0-	1.0	2.0-	1.0	.	.	.315	0.928	0.590*	338	-199	-193	7421.5963	
	13470.114	2					.	.			.	.	.						7421.7980	
	13469.429	1					.	.			.	.	.						7422.1754	
2	13469.172	4	22107.410-8638.233			-5	5.5-	5.5	5.5-	5.5	1.360	1.514	.154	1.362	1.514*	152	165	169	7422.3170	
	13468.316	2					.	.			.	.	.						7422.7888	
1	13467.012	6	23705.495-10238.473			-10	7.0-	6.0	7.0-	6.0	1.272	1.426	.154	1.277	1.431	154	191	191	7423.5075	
1	13466.383	5	10486.922-23953.307			-2	1.0-	2.0	1.0-	2.0	.355	1.263	.908	0.355	1.265	910	-375	-377	7423.8543	
1	13463.180	7	15074.958-28538.138			0	7.0-	7.0	7.0-	7.0	1.097	1.057	.040	1.097	1.060	37	-197	-195	7425.6205	
1	13462.313	1	17081.874-30544.187			0	.	.	4.0-	3.0	.	.	.	1.217	0.946	271			7426.0987	
1	13462.161	1	31233.645-17776.433			-1	.	.	3.0-	2.0	.	.	.	1.105	0.565	540			7426.1825	
1	13461.130	0	36483.410-23022.274			-6	.	.	4.0-	5.0	.	.	.	1.100	0.817*	283			7426.7513	
	13460.457	1					.	.			.	.	.						7427.1226	
	13460.197	1					.	.			.	.	.						7427.2661	
	13459.345	1					.	.			.	.	.						7427.7363	
1	13458.753	1	22307.633-35766.380			6	.	.	3.0-	4.0	.	.	.	1.434	1.055	379			7428.0630	
1	13455.079	4	16520.962-29976.039			2	.	.	5.0-	4.0	.	.	.	0.736	1.070	334	042	43	7430.0913	
2	13454.180	1	20952.550-7498.364			-6	.	.	1.5-	2.5	.	.	.	0.350	1.321	971			7430.5878	
1	13453.127	9	21227.793-7774.653			-13	4.0-	4.0	4.0-	4.0	1.345	1.462	.117	1.346	1.463	117	75	80	7431.1694	
2	13452.674	5	28941.215-15488.530			-11	.	.	2.5-	3.5	.	.	.	0.968	1.057	89	216	231	7431.4196	
1	13452.026	0	20306.482-33758.523			-15	.	.	4.0-	5.0	.	.	.	1.123	0.830	293			7431.7776	
	13451.012	0					.	.			.	.	.						7432.3378	
1	13448.785	4	14912.011-28360.802			-5	.	.	4.0-	3.0	.	.	.	0.496	0.887	391			7433.5680	
2	13447.541	2	30193.265-16745.720			-4	1.5-	2.5	1.5-	2.5	1.36	1.67	.31	1.364	1.671	307	316	318	7434.2562	
	13447.095	1					.	.			.	.	.						7434.5028	
1	13446.238	4	12159.465-25605.707			-4	4.0-	4.0	4.0-	4.0	.	.	.315	0.844	1.160	316	-179	-183	7434.9767	
2	13445.947	6	27879.305-14433.351			-7	0.5-	1.5	0.5-	1.5	0.806	1.927	1121	0.802	1.925	1123	326	327	7435.1376	
	13445.505	2B					.	.			.	.	.						7435.3820	
2	13444.083	1	19466.530-32910.615			-2	.	.	4.5-	3.5	.	.	.	1.151	0.845	306			7436.1684	
	13443.610	0					.	.			.	.	.						7436.4301	
2	13443.214	0	29630.290-43073.510			-6	.	.	5.5-	4.5	.	.	.	1.130	0.950*	180		14*	7436.6491	
1	13442.058	3	14353.317-28295.380			-5	.	.	4.0-	4.0	.	.	.	0.786	1.155	369			7437.2887	
	13441.909	1					.	.			.	.	.						7437.3711	
1	13439.916	1	24759.250-38199.170			-4	.	.	6.0-	6.0	.	.	.	1.098	1.068	30			7438.4740	
	13439.501	1					.	.			.	.	.						7438.7037	
1	13436.320	1	19281.917-32718.268			-31	.	.	2.0-	1.0	.	.	.	1.822	0.600*	1222			7440.4648	
2	13435.005	5	27162.335-13726.318			-11	1.5-	2.5	1.5-	2.5	1.043	.779	.264	1.046	0.784	262	284	277	7440.6387	ISQ
	13430.925	1					.	.			.	.	.						7443.4535	
1	13430.513	3	20597.436-34127.955			-1	.	.	7.0-	8.0	.	.	.	1.250	1.185	65	-129	-129	7443.6791	
1	13428.403	1U	24824.706-33253.110			4	.	.	4.0-	4.0	.	.	.	1.145	0.920*	225			7444.8487	C2
1	13428.402	1U	9724.351-23152.755			4	.	.	3.0-	2.0	.	.	.	0.442	0.580	138			7444.8487	C2
1	13428.123	3	19959.027-33387.151			-1	.	.	1.0-	2.0	.	.	.	0.760	1.288*	528	+	25	7445.0067	
	13427.250	1					.	.			.	.	.						7445.4908	
1	13426.762	1	27768.715-14341.947			-6	.	.	1.0-	2.0	.	.	.	0.722	0.852	130			7445.7614	
	13426.342	0					.	.			.	.	.						7445.9943	
	13425.386	2					.	.			.	.	.						7446.5246	
1	13422.755	9H	12351.522-25774.288			-11	6.0-	6.0	6.0-	6.0	.995	.932	.063	0.995	0.915	80	-193	-194	7447.9842	
1	13421.141	1	20043.465-33464.592			14	.	.	5.0-	4.0	.	.	.	0.925	0.000*	0			7448.8798	
	13420.790	0					.	.			.	.	.						7449.0747	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	13420.517	0		26564.150-40084.697		-30	.	.	6.0-	6.0	.	.	.	1.135	1.510	375		-105	7449.2262		
	13420.214	0					.	.			.	.	.						7449.3944	
	13419.310	0					.	.			.	.	.						7449.8962	
1	13419.031	0		19659.958-32478.986		3	.	.	5.0-	6.0	.	.	.	1.375	1.110	265		-303	7450.0511		
1	13418.732	1H		20709.453-34128.094		96	.	.	3.0-	4.0	.	.	.	1.240	0.000*	0		2	7450.2171		
	13418.263	1					.	.			.	.	.						7450.4775	
1	13417.447	1		18963.921-32381.372		-4	.	.	4.0-	5.0	.	.	.	1.251	1.190	61		-291	7450.9306		
1	13417.194	0		24158.741-37575.920		15*	.	.	2.0-	2.0	.	.	.	1.240	1.220*	20		14	7451.0711		
	13416.652	0					.	.			.	.	.						7451.3721	
1	13414.902	0		38168.603-24753.684		-17	.	.	5.0-	4.0	.	.	.	1.080	0.975*	105		-153	7452.3442		
1	13414.594	0		14912.011-28326.610		-5	.	.	4.0-	4.0	.	.	.	0.496	1.260*	764		-156	7452.5153		
1	13414.027	2		27755.977-14341.947		-3	.	.	3.0-	2.0	.	.	.	1.370	0.852	518	137	127	7452.8303		
2	13413.497	2H		32740.875-46154.290		-8	.	.	4.5-	3.5	.	.	.	0.970	1.090*	120			7453.1748	HAZY	
1	13412.573	2H		39618.160-26205.589		2	.	.	3.0-	3.0	.	.	.	0.270	0.701*	431		41	7453.6382	HAZY CQ	
2	13411.604	4		22653.965-9242.356		-5	.	.	2.5-	3.5	1.36	1.37	.01	1.360	1.369*	9	198	190	7454.1768		
2	13411.146	1		35273.260-21862.135		21	.	.	1.5-	2.5	.	.	.	0.865	1.320*	455			7454.4313		
	13410.565	0					.	.			.	.	.						7454.7543	
2	13409.678	3		22652.035-9242.356		-1	3.5-	3.5	3.5-	3.5	1.185	1.355	.170	1.185	1.369	184	176	166	7455.2474		
1	13409.399	1		34377.513-20988.110		-4	.	.	3.0-	4.0	.	.	.	1.155	1.374	219		189*	7455.4025		
1	13407.606	2		33729.775-20322.165		-4	.	.	5.0-	6.0	.	.	.	1.125	1.360*	235		334	7456.3995		
1	13407.389	1		18897.584-32304.979		-6	.	.	5.0-	4.0	.	.	.	1.280	0.990*	290		-305	7456.5202		
1	13406.834	2		32263.305-18856.461		-10	.	.	4.0-	5.0	.	.	.	1.158	1.325	167		151	7456.8289		
	13406.662	2									161		7456.9246	
1	13406.025	1		19776.904-33182.933		-4	.	.	6.0-	6.0	.	.	.	1.012	1.050	38		-163	-174	7457.2789	
	13403.122	0											7458.8941	
1	13402.814	1		34075.080-20672.283		17	.	.	3.0-	2.0	.	.	.	0.975	1.430*	455		174	7459.0655	CQ	
1	13402.205	2		30974.813-17572.608		0	.	.	3.0-	2.0	.	.	.	1.050	0.555*	495		264	7459.4044		
	13401.937	0											7459.5536	
1	13398.191	3		21031.258-34429.460		-11	.	.	2.0-	2.0	.	.	.	1.455	0.930*	525		93	7461.6392		
1	13397.912	0		20709.458-34107.378		-8	.	.	3.0-	3.0	.	.	.	1.240	1.160*	80		4	7461.7946		
2	13396.141	4		25403.645-12007.503		-1	2.5-	1.5	2.5-	1.5	1.032	-0.017	1049	1.029	-0.019	1048	356	350	7462.7811		
1	13393.348	0		18591.122-31984.470		0	.	.	4.0-	3.0	.	.	.	0.965	1.090	125		-80	7464.3374		
	13392.956	0											7464.5558	
2	13391.796	0		24337.845-37729.665		-24	.	.	2.5-	2.5	.	.	.	0.900	1.050*	150		-249	7465.2024		
	13391.044	0											7465.6216	
2	13390.371	1		11504.095-24894.460		6	.	.	3.5-	3.5	.	.	.	0.859	0.740	119		-498	-496	7465.9969	
	13390.127	1											7466.1329	
1	13385.283	3		32728.585-19343.298		-4	3.0-	3.0	3.0-	3.0	.947	1.135	.188	0.947	1.135	188		177	174	7468.8349	
	13385.041	1											7468.9699	
	13384.545	0											7469.2467	
	13383.396	1											7469.8879	
	13382.245	1											7470.5304	
1	13380.835	3		20540.110-33920.944		1	3.0-	2.0	3.0-	2.0	.	.	.	0.830	1.040*	210		33	7471.3176		
1	13380.472	3		14737.788-28118.262		-2	3.0-	3.0	3.0-	3.0	.	.	.	0.815	1.250*	435		-30	7471.5203		
1	13379.517	1		17081.874-30461.399		-8	.	.	4.0-	5.0	.	.	.	1.217	0.990	227		-194	7472.0536		
1	13378.519	6		11747.245-25125.763		1	0.0-	1.0	0.0-	1.0	.000	.311		0.000	0.314	0		-29	7472.6110		
	13377.465	3					6.5-	7.5			1.166	1.008	.158					279		7473.1998	JQGQ
	13377.062	1											7473.4249	
1	13376.631	1		19426.512-32803.199		-6	.	.	3.0-	3.0	.	.	.	1.435	0.825	610		-57	7473.6378		
	13375.122	1											7474.5089	
	13374.939	0											7474.6112	
1	13374.364	2		18602.505-31976.844		25	.	.	6.0-	7.0	.	.	.	0.910	1.095	185		64	7474.9325		
	13373.645	0											7475.3344	
	13373.184	0											7475.5921	
	13371.692	1											7476.4262	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	13370.956	1																	7476.8378	
1	13370.232	1	19558.257	-	32928.540	-1	.	.	2.0-	2.0	.	.	.	-0.145	1.060*	1205		30	7477.2147	
	13369.377	1																	7477.7208	
	13369.108	0																	7477.8713	
1	13367.956	7	11840.715	-	25208.672	-1	3.0-	2.0	3.0-	2.0	.806	.485	.321	0.811	0.490	321	-038	-47	7478.5157	
1	13367.103	1	18046.103	-	31413.230	-14	.	.	4.0-	3.0	.	.	.	0.694	0.742	48		97	7478.9901	
1	13366.695	1	17911.977	-	31278.667	5	.	.	5.0-	5.0	.	.	.	1.145	1.010*	135		-116	7479.2212	
1	13362.956	1	25591.845	-	38954.840	-39	.	.	3.0-	2.0	.	.	.	0.990	1.020*	30			7481.3140	
2	13362.596	0	33189.610	-	19827.020	6	.	.	2.5-	1.5	.	.	.	1.121	1.733	612		247	7481.5155	
	13360.222	0																	7482.8449	
1	13359.547	0	27781.032	-	41140.580	-1	.	.	6.0-	7.0	.	.	.	1.250	1.470*	220		-57	7483.2230	
1	13357.946	1B	34030.240	-	20672.283	-11	.	.	2.0-	2.0	.	.	.	1.300	1.430*	130		215	7484.1199	PB
1	13357.851	1B	34030.240	-	20672.390	1	.	.	2.0-	1.0	.	.	.	1.300	0.000*	0		218	7484.1731	PB
2	13356.573	2	30102.315	-	16745.720	-22	.	.	2.5-	2.5	.	.	.	1.158	1.671	513		355	7484.8892	C2
1	13356.573	2	24456.635	-	37813.200	8	.	.	3.0-	2.0	.	.	.	1.000	0.955*	45		-50	7484.8892	C2
1	13355.443	0	17615.482	-	30970.926	-1	.	.	2.0-	1.0	.	.	.	1.450	0.295	1155		-109	7485.5225	
1	13351.820	8	19496.402	-	6144.515	-7	3.0-	3.0	3.0-	3.0	1.535	1.470	.065	1.555	1.473	82	190	191	7487.5201	
	13350.619	4																	7488.2273	
2	13350.035	3	28838.570	-	15488.530	-5	.	.	3.5-	3.5	.	.	.	0.845	1.057	212		269	7488.5549	
	13349.832	3																	7488.6687	
1	13348.118	1	20697.436	-	34045.560	-6	.	.	7.0-	7.0	.	.	.	1.250	1.170*	80		-158	7489.6304	
2	13347.520	1	27338.500	-	13990.952	-28	.	.	1.5-	1.5	.	.	.	0.876	1.728	852		41	7489.9659	
	13347.039	0																	7490.2358	
	13345.883	1																	7490.8846	
1	13344.113	1	15249.635	-	28593.749	-1	.	.	2.0-	1.0	.	.	.	0.715	1.713	998		-377	7491.8782	
2	13343.788	3	36593.540	-	23249.745	-7	.	.	5.5-	4.5	.	.	.	1.145	1.475	330		219*	7492.0607	
1	13342.624	3	29088.272	-	15745.648	0	.	.	3.0-	3.0	.	.	.	1.005	1.145	140	181	161	7492.7143	
1	13342.132	2	31118.615	-	17776.483	0	.	.	2.0-	2.0	.	.	.	0.865	0.565	300			7492.9906	
1	13341.659	2	17615.482	-	30957.140	1	.	.	2.0-	2.0	.	.	.	1.450	0.980	470	-177	-161	7493.2563	
1	13340.363	5	23578.836	-	10238.473	0	.	.	5.0-	6.0	1.12	1.43	.31	1.120	1.431*	311		-17	7493.9842	
1	13339.535	2	21337.573	-	34677.111	-3	.	.	4.0-	4.0	.	.	.	1.137	1.080	57	-174	-178	7494.4494	
	13337.156	0																	7495.7862	
1	13336.860	0	18602.505	-	31939.345	20	.	.	6.0-	6.0	.	.	.	0.910	1.200*	290		-106	7495.9526	
1	13335.460	2	31233.379	-	17897.917	-2	.	.	4.0-	3.0	.	.	.	1.090	0.450	640	-297	-299	7496.7395	
2	13334.710	1	29621.300	-	16286.582	-8	.	.	1.5-	0.5	.	.	.	1.045	-0.122	1167		363*	7497.1612	
	13334.537	1																	7497.2585	
	13333.457	1																	7497.8657	
	13332.839	2H																	7498.2133	
1	13332.294	1	32669.730	-	19337.431	-5*	.	.	2.0-	1.0	.	.	.	0.965	2.410*	1445			7498.5198	
1	13331.078	4	18046.108	-	31377.193	-7	4.0-	4.0	4.0-	4.0	.695	.975	.280	0.694	0.973	279		33	7499.2038	
1	13330.437	7H	22509.712	-	9179.262	-13	5.0-	5.0	5.0-	5.0	1.287	1.454	.167	1.287	1.454	167	122	125	7499.5644	
1	13329.668	4	32186.115	-	18856.461	14	.	.	4.0-	5.0	.	.	.	1.212	1.325	113	118	122	7499.9970	
1	13328.970	1	19426.512	-	32755.472	10	.	.	3.0-	4.0	.	.	.	1.435	1.005	430		-206	7500.3898	
	13328.446	2																	7500.6847	
2	13328.243	3	35525.910	-	22197.670	3	4.5-	3.5	4.5-	3.5	1.176	1.527	.359	1.176	1.530	354	356	344*	7500.7989	
1	13326.894	2	35063.037	-	21736.133	-10	.	.	6.0-	7.0	.	.	.	1.188	0.000*	0	171	154	7501.5582	
2	13326.420	1	35198.565	-	21862.135	-10	.	.	3.5-	2.5	.	.	.	1.154	1.320*	166		284*	7501.8250	
1	13326.279	1	16834.379	-	30160.654	-6	.	.	5.0-	4.0	.	.	.	0.961	1.030	69	-180	-161	7501.9044	
1	13325.149	1	14853.317	-	28178.473	-7	.	.	4.0-	3.0	.	.	.	0.786	0.000*	0		-308	7502.5406	
	13325.012	1																	7502.6177	
	13324.641	1																	7502.8266	
	13324.115	2																	7503.1228	
1	13323.852	1	20769.512	-	34093.375	-11	.	.	2.0-	1.0	.	.	.	1.070	1.310*	240		56	7503.2709	
1	13323.535	1C	21337.573	-	34661.105	4	.	.	4.0-	4.0	.	.	.	1.137	1.100	37		-89	7503.4488	
1	13322.367	0	29068.029	-	15745.648	-14	.	.	2.0-	3.0	.	.	.	1.284	1.145	139		169	7504.1073	

C	WAVELENGTH	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	13321.950	0																	7504.3421	
2	13321.419	6		28309.965-15488.530	-16	.	.	.	2.5-	3.5	1.230	1.056	.174	1.230	1.057*	173	302	317	7504.6413	
	13321.111	2H																	7504.8148	B
1	13320.115	7		11840.715-25160.827	3	.	.	.	3.0-	3.0	.81	.80		0.811	0.800	11	-	-20	7505.3760	
1	13319.729	0		32033.610-18718.882	1*	.	.	.	3.0-	2.0	.	.		1.165	0.504	661	-221	-204	7505.5935	
1	13319.263	1		13517.647-26836.911	-1	.	.	.	2.0-	2.0	.	.		0.892	1.260*	368	-283	-301	7505.8561	
1	13317.255	0		22719.949-36037.220	-16	.	.	.	4.0-	5.0	.	.		1.070	1.155	85			7506.9878	
	13316.942	1																	7507.1643	
1	13315.823	9		17615.482- 4299.659	0	2.0-	2.0	2.0-	2.0	2.0	1.450	1.481	.031	1.450	1.482	32	124	126	7507.7951	
1	13315.250	3		17081.874-30397.106	18	.	.	.	4.0-	5.0	.	.		1.217	1.005	212		-109	7508.1182	
	13312.833	0																	7509.4814	
1	13311.915	3		15249.635-28551.548	2	.	.	.	2.0-	2.0	.715	.760	.045	0.715	0.784	69	-179	-172	7509.9992	
1	13311.051	1		13726.661-27037.718	-6	.	.	.	3.0-	2.0	.	.		1.150	1.300*	150	-356	-344	7510.4867	
1	13309.593	3		22318.840-36128.425	8	.	.	.	6.0-	7.0	.	.		1.335	1.060	275	-113	-107	7511.3094	
1	13308.784	4		15424.387-28733.159	12	3.0-	4.0	3.0-	4.0	4.0	1.10	1.03	.07	1.106	1.035	71	-102	-101	7511.7660	
	13308.051	1																	7512.1798	
	13307.333	2																	7512.5569	
1	13306.793	1		19496.402-32803.199	-4	.	.	.	3.0-	3.0	.	.		1.555	0.825	730		-170	7512.8900	
1	13306.303	2		23909.585-37215.900	-12	5.0-	4.0	5.0-	4.0	4.0	.	.		1.242	1.485	243	-	-142	7513.1666	ISQ
1	13305.418	8		14292.176-27597.590	4	5.0-	4.0	5.0-	4.0	4.0	.97	.93	.04	0.970	0.930	40	-098	-103	7513.6664	
1	13304.426	2		18672.411-31976.844	-7	.	.	.	6.0-	7.0	.	.		1.190	1.095*	95	-175	-167	7514.2266	
	13303.948	1B																	7514.4966	
1	13303.826	1B		18147.975-31451.814	-13	.	.	.	3.0-	4.0	.	.		1.049	1.080	31		-144	7514.5655	
	13303.039	4				4.5-	5.5				.	.	.168				326		7515.0100	JQ SO
	13302.521	2																	7515.3027	
2	13302.181	2		34844.620-21542.435	-4	.	.	.	1.5-	2.5	.	.		1.528	1.279	249		255	7515.4948	
1	13301.894	0		24733.061-38034.960	-5	.	.	.	7.0-	6.0	.	.		1.275	1.140	135		-274	7515.6569	
	13300.938	1																	7516.1971	
1	13299.981	4H		22182.030-35482.018	-7	2.0-	3.0	2.0-	3.0	3.0	1.295	1.675	.380	1.295	1.679	384	+	-4	7516.7379	PB
	13297.976	0																	7517.8713	
1	13297.333	4		20830.616-34127.955	-6	8.0-	8.0	8.0-	8.0	8.0	1.11	1.18	.067	1.110	1.185*	75	-136	-138	7518.2348	
1	13295.815	1		26973.744-13577.903	-26	2.0-	1.0	2.0-	1.0	1.0	.	.	.258	1.210	1.442	232	+	2	7519.0932	
	13294.713	2H																	7519.7164	
1	13293.358	1		20697.436-33990.780	14	.	.	.	7.0-	6.0	.	.		1.250	0.920*	330		-158	7520.4829	
	13293.099	1																	7520.6295	
	13291.830	1																	7521.3192	
1	13291.422	1		17081.874-30373.329	-33	.	.	.	4.0-	4.0	.	.		1.217	1.345	128		-307	7521.5784	
1	13290.843	2		16595.109-29235.947	5	.	.	.	3.0-	3.0	.	.		0.999	1.330*	331		-337	7521.9060	
1	13290.043	1		18181.485-31471.542	-14	.	.	.	0.0-	1.0	.	.		0.000	2.188	0		-103	7522.3583	
1	13289.027	2		30612.323-17323.291	-5	.	.	.	3.0-	4.0	.	.		1.408	1.250*	158		120	7522.9339	
	13287.430	2																	7523.8381	
	13287.100	1																	7524.0250	
1	13286.883	0		33609.070-20322.165	-22	.	.	.	5.0-	6.0	.	.		1.057	1.360*	303		181	7524.1479	
1	13286.644	4		14025.007-27311.658	-7	.	.	.	4.0-	5.0	.	.		0.975	1.035	60		-84	7524.2832	
2	13285.632	4		28774.175-15488.530	-13	3.5-	3.5	3.5-	3.5	3.5	1.13	1.06	.07	1.140	1.057*	83		372	7524.8564	
2	13285.444	2		30031.180-16745.720	-16	.	.	.	3.5-	2.5	.	.		1.250	1.671	421		342	7524.9628	
	13285.118	1																	7525.1475	
1	13284.324	2		14592.549-27976.831	-8	.	.	.	2.0-	3.0	.	.		0.292	1.080	788		-145	7525.5973	
1	13281.982	9		19426.512- 6144.515	-15	3.0-	3.0	3.0-	3.0	3.0	1.420	1.458	.038	1.435	1.473	38	080	78	7526.9243	
2	13281.180	2		33457.050-20175.895	25	.	.	.	3.5-	3.5	.	.		1.002	1.515	513		219	7527.3788	
	13280.682	0																	7527.6611	
	13280.047	0																	7528.0210	
	13279.323	0																	7528.4314	
	13279.187	1																	7528.5085	
1	13278.877	2		18963.921-32242.810	-12	.	.	.	4.0-	5.0	.	.		1.251	1.215	36		-300	7528.6843	C2

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	13278.877	2	16834.379-30113.280		-24		.	.	5.0- 6.0		.	.	.	0.961	1.050	89		-97	7528.6843	C2
1	13278.318	1	14692.549-27970.881		-14		.	.	2.0- 2.0		.	.	.	0.292	0.194	98		-218	7529.0012	
1	13277.533	4	20043.465-33321.067		-14		.	.	5.0- 5.0		.	.	.	0.925	1.200*	275	+	47	7529.4152	
1	13276.831	0	23315.209-36592.070		-30		.	.	2.0- 3.0		.	.	.	1.335	1.300	35		-7	7529.8445	
	13274.259	0					.	.			.	.	.						7531.3035	
	13274.050	0					.	.			.	.	.						7531.4221	
1	13273.296	2H	25811.368-40084.697		-33		.	.	7.0- 6.0		.	.	.	1.180	1.510*	330		-158 -158	7531.8499	
2	13272.904	3	17242.750- 3969.846		0		.	.	2.5- 2.5		.	.	.	1.200	1.670*	470		162	7532.0723	
	13272.543	0					.	.			.	.	.						7532.2772	
	13272.325	0					.	.			.	.	.						7532.4009	
	13271.904	2					.	.			.	.	.						7532.6399	
1	13271.505	2	27869.060-41140.580		-15		.	.	7.0- 7.0		.	.	.	1.250	1.470*	220		-48	7532.8663	
1	13270.865	3C	18181.485-31452.362		-12		.	.	0.0- 1.0		.000	.852		0.000	0.852	0		-069 -74	7533.2296	
1	13270.683	2	15074.958-28345.647		-6		.	.	7.0- 6.0		.	.	.	1.097	0.000*	0		-359	7533.3329	
1	13270.207	1	17911.977-31182.179		5		.	.	5.0- 4.0		.	.	.	1.145	1.210*	65		-293	7533.6031	
2	13269.965	4	29556.550-16286.582		-3		1.5-	0.5	1.5- 0.5		.486-	0.120	.606	0.484-	0.122	606	210	209	7533.7405	
	13269.215	0					.	.			.	.	.						7534.1663	
1	13266.112	1	24149.361-37415.495		-22		.	.	5.0- 5.0		.	.	.	1.262	0.980	282		-69	7535.9286	
1	13264.914	5	14853.317-28118.262		-31		4.0-	3.0	4.0- 3.0		.785	1.245	.460	0.785	1.250*	464	059	44	7536.6092	2LNS
1	13264.914	5	23037.432- 9772.532		14		1.0-	0.0	1.0- 0.0		.870	.000		0.870	0.000	0	142	160	7536.6092	2LNS
2	13262.964	0	35460.660-22197.670		-26		.	.	3.5- 3.5		.	.	.	1.145	1.530	385		471	7537.7173	
1	13262.501	1	32118.980-18856.461		-18		.	.	4.0- 5.0		.	.	.	1.039	1.325	286		147	7537.9805	
1	13262.261	0	22219.737-35432.018		-20		.	.	4.0- 3.0		.	.	.	0.750	1.679	929		-81	7538.1169	
1	13261.237	1H	22666.777-35928.010		4		.	.	3.0- 4.0		.	.	.	0.977	0.960	17		-135	7538.6989	CQ
1	13259.659	1	31024.953-17765.281		-13		.	.	3.0- 3.0		.	.	.	1.335	1.680*	345		151	7539.5961	
1	13259.064	0	19496.402-32755.472		-6		.	.	3.0- 4.0		.	.	.	1.555	1.005	550		-319	7539.9345	C2
1	13259.064	0	26009.000-39268.050		14		.	.	3.0- 4.0		.	.	.	0.870	1.140*	270			7539.9345	C2
	13258.801	0					.	.			.	.	.						7540.0840	
	13256.196	2C					.	.			.	.	.30						7541.5657	
2	13255.570	2	35117.695-21862.135		10		1.5-	2.5	1.5- 2.5		1.505	1.320	.185	1.505	1.320*	185	149	159	7541.9219	
	13253.353	1					.	.			.	.	.						7543.1835	
	13252.971	1					.	.			.	.	.						7543.4009	
1	13252.646	1	18578.669-31831.325		-10		.	.	1.0- 0.0		.	.	.	1.932	0.000	0			7543.5859	
	13252.314	0					.	.			.	.	.						7543.7749	
1	13250.694	3	14292.176-27542.874		-4		.	.	5.0- 5.0		.	.	.	0.970	1.270*	300		-277 -276	7544.6972	
1	13249.781	3	9724.351-22974.132		0		.	.	3.0- 3.0		.	.	.	0.442	1.147	705		-139 -140	7545.2171	
1	13248.724	5	16834.379-30033.102		1		5.0-	5.0	5.0- 5.0		.96	1.16	.203	0.961	1.150*	189		-192 -192	7545.8191	
1	13247.750	2	21031.258-34279.010		-2		.	.	2.0- 1.0		.	.	.	1.455	1.710*	255	+	-13	7546.3738	
2	13247.099	2	27680.460-14433.351		-10		.	.	2.5- 1.5		.	.	.	1.310	1.925*	615		266*	7546.7447	
1	13246.953	2	18963.921-32210.885		-6		.	.	4.0- 4.0		.	.	.	1.251	0.995	256		-89	7546.8250	
1	13245.867	9	15449.472- 2203.606		1		0.0-	1.0	0.0- 1.0		.000	1.495		0.000	1.495	0		-126 -132	7547.4466	
2	13245.299	2	20121.145-33366.475		-31		.	.	2.5- 1.5		.	.	.	0.710	0.129*	581		38	7547.7703	
	13242.248	1					.	.			.	.	.						7549.5093	
1	13241.880	1	21812.632-35054.565		-3		.	.	4.0- 3.0		.	.	.	1.040	0.998	42		-36	7549.7191	
	13241.531	1					.	.			.	.	.						7549.9181	
	13241.079	1					.	.			.	.	.						7550.1758	
	13240.312	1					.	.			.	.	.						7550.6132	
1	13239.097	3	14737.788-27976.881		4		.	.	3.0- 3.0		.	.	.	0.815	1.080	265		-143 -144	7551.3061	
1	13237.516	3	16834.379-30071.890		5		.	.	5.0- 5.0		.	.	.	0.961	1.290*	329		-286 -282	7552.2080	
1	13234.732	4	22088.306-35323.031		7		.	.	6.0- 6.0		1.075	1.09	.015	1.060	1.090	30		10	7553.7967	DJO
1	13233.757	0	33974.800-20741.029		-14		.	.	2.0- 2.0		.	.	.	1.110	0.000*	0		128	7554.3532	
2	13233.101	5	20511.945- 7278.862		18		4.5-	4.5	4.5- 4.5		1.317	1.548	.231	1.310	1.545	235	169	176	7554.7277	
	13232.178	1					.	.			.	.	.						7555.2547	
1	13231.477	1B	14292.176-27523.650		3		.	.	5.0- 6.0		.963	.963		0.970	1.080	110		-110	7555.6549	
1	13231.410	1B	26149.538-39380.945		3		.	.	4.0- 4.0		.	.	.	1.360	1.070*	290			7555.6932	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
	13227.657	1																7557.8369		
	13226.585	1																7558.4495		
	13225.945	1																7558.8153		
	13225.202	0																7559.2399		
1	13224.359	5	16228.909	-30113.280	-2	6.0	6.0	6.0	6.0	1.10	1.06	.04	1.098	1.050	48	-120	-122	7559.7161		
2	13222.142	1	30759.570	-43981.710	2	.	.	2.5	2.5				1.220	1.090	130			7560.9894		
2	13220.803	5	15235.771	-2014.966	-2	0.5	1.5	0.5	1.5	1.787	1.877	.090	1.791	1.881	90	177	174	7561.7551		
	13220.100	0																7562.1573		
2	13218.217	3	30381.705	-17163.470	-18	3.5	4.5	3.5	4.5	1.10	1.21	.11	1.109	1.200	91	255	255	7563.2345		
1	13216.020	9	20990.684	-7774.653	-11	5.0	4.0	5.0	4.0	1.305	1.460	.155	1.308	1.463	155	171	173	7564.4918		
2	13215.431	1	34757.860	-21542.435	6	.	.	3.5	2.5				1.202	1.279	77			7564.8290		
1	13214.948	5	20830.616	-34045.560	4	8.0	7.0	8.0	7.0	1.11	1.15	.04	1.110	1.170*	60	-168	-167	7565.1055		
1	13213.945	6	20385.328	-33599.280	-7	2.0	2.0	2.0	2.0	1.909	1.604	.305	1.911	1.606	305		-30	7565.6797	HAZY	
	13213.049	0																7566.1927		
1	13212.850	0	23315.209	-36528.070	-11	.	.	2.0	3.0				1.335	0.985	350			7566.3067		
1	13212.262	1H	33284.565	-20672.283	-20	.	.	1.0	2.0				1.040	1.430*	390			7566.6434		
1	13211.741	0	21218.180	-34429.910	11	.	.	3.0	3.0				0.860	0.910	50		-195	7566.9418		
	13211.453	0																7567.1068		
1	13209.440	3	18672.411	-31881.871	-20	6.0	7.0	6.0	7.0	1.19	1.12	.07	1.190	1.120*	70		-150	7568.2599		
	13209.197	1																7568.3992		
1	13208.037	1	22719.949	-35928.010	-24	.	.	4.0	4.0				1.070	0.960	110		51	7569.0639		
	13206.815	1																7569.7642		
	13206.314	1																7570.0514		
1	13206.096	1	18397.584	-32103.687	-7	.	.	5.0	4.0				1.280	1.040	240		-200	7570.1764		
1	13205.761	0	14025.007	-27230.768	0	.	.	4.0	4.0				0.975	0.000*	0		-406	7570.3684		
	13205.205	0																7570.6871		
1	13203.148	9	15406.760	-2203.606	-6	1.0	1.0	1.0	1.0	.891	1.493	.602	0.890	1.495	605	120	121	7571.8666		
1	13201.307	9	17500.977	-4299.659	-11	1.0	2.0	1.0	2.0	2.257	1.480	.777	2.258	1.482	776	059	53	7572.9226		
	13200.606	3														135			7573.3247	
	13200.203	0																7573.5560		
1	13197.556	1	22182.030	-35379.603	-17	.	.	2.0	3.0				1.295	1.165	130		76	7575.0750		
	13197.301	1																7575.2213		
1	13196.561	3	19236.116	-32432.680	-3	7.0	7.0	7.0	7.0	1.155	1.130	.025	1.155	1.140	15	-181	-180	7575.6461		
	13194.214	1																7576.9937		
	13193.933	1																7577.1551	HVLQ	
2	13190.716	5	20689.110	-7498.364	-30	3.5	2.5	3.5	2.5	1.260	1.315	.055	1.270	1.321*	51	179	181	7579.0030		
2	13189.763	3	26916.090	-13726.318	-9	.	.	2.5	2.5				1.040	0.784*	256		367	7579.5506		
	13188.802	2																7580.1029		
2	13188.595	1	35386.270	-22197.670	-5	.	.	4.5	3.5				1.100	1.530	430		373	7580.2219		
1	13186.989	5C	20984.195	-34171.155	29	6.0	5.0	6.0	5.0	1.319	1.230	.089	1.319	1.230	89		-84	7581.1451	2LNS	
1	13186.989	5C	15406.760	-28593.749	0	.	.	1.0	1.0				0.890	1.713	823		-306	7581.1451	2LNS	
2	13186.210	1	27879.305	-14693.090	-5	.	.	0.5	0.5				0.802	0.840	38		69*	7581.5929		
	13185.915	2																7581.7626		
1	13184.724	4	20540.110	-33724.837	-3	3.0	3.0	3.0	3.0	.830	1.158	.328	0.830	1.160*	330		-6	7582.4474		
1	13182.858	2	19059.958	-32242.810	6	.	.	5.0	5.0				1.375	1.215	160	-334	-317	7583.5207		
1	13182.316	1	37639.270	-24456.948	-6	.	.	2.0	3.0				1.020	0.000*	0		33	7583.8325		
	13180.735	0																7584.7422		
1	13180.482	2H	20990.684	-34171.155	11	.	.	5.0	5.0				1.308	1.230	78		-67	7584.8878	HAZY	
1	13179.829	1	27755.977	-40935.790	16*	.	.	3.0	4.0				1.370	1.160*	210			7585.2636		
1	13178.972	0	20654.712	-33833.699	-15	.	.	1.0	2.0				0.200	0.930	730		-4	7585.7568		
	13175.926	0																7587.5105		
2	13175.665	2	30339.150	-17163.470	-15	4.5	4.5	4.5	4.5	1.16	1.20	.041	1.154	1.200	46	409	410	7587.6608		
1	13175.313	1	20521.579	-33696.921	-29	.	.	6.0	6.0				1.246	1.100*	146		-70	7587.8635		
1	13174.764	1	17911.977	-31086.744	-3	.	.	5.0	5.0				1.145	0.795	350		-37	7588.1797		
1	13174.380	4	22307.633	-35482.018	-5	3.0	3.0	3.0	3.0	1.430	1.676	.245	1.434	1.679	245	-207	-206	7588.4009	HAZY	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		OBS		OBS		TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	G2	G1	DG	G2	G1	DG	IS	IS				
1	13172.616	0	19496.402	-	32669.040	-22	.	.	.	.	.	.	1.555	1.000*	555	.	-191	7589.4171	
	13172.126	1					.	.	.	.	.	.	.	.	.	.	.	7589.6994	
	13171.751	2					.	.	.	.	.	.	.	.	.	.	.	7589.9155	
2	13171.370	1	27162.335	-	13990.952	-13	.	.	.	.	.	.	1.046	1.728	682	.	-26	7590.1351	
	13171.099	0					.	.	.	.	.	.	.	.	.	.	.	7590.2912	
1	13170.379	3	17045.776	-	30216.163	-8	.	.	.	.	.	.	1.474	1.143	331	.	54	7590.7062	
1	13169.424	3	29013.455	-	33212.897	-8	.	.	.	.	.	.	0.925	1.110*	185	.	68	7591.2566	
1	13163.657	3	39518.160	-	26449.501	-2	.	.	.	.	.	.	0.270	0.940*	670	127	120	7591.6988	
1	13167.962	3	20877.600	-	34045.560	2	.	.	.	.	.	.	1.060	1.170*	110	.	67	7592.0995	
	13167.125	1					.	.	.	.	.	.	.	.	.	.	.	7592.5821	
	13166.816	2					.	.	.	.	.	.	.	.	.	.	.	7592.7603	
	13166.065	2					.	.	.	.	.	.	.	.	.	.	.	7593.1934	
	13164.539	1B					.	.	.	.	.	.	.	.	.	.	.	7594.0736	
1	13164.539	1B	26575.338	-	39739.870	7*	.	.	.	.	.	.	1.150	1.140*	10	.	-146	7594.0736	
1	13164.083	1	17615.482	-	30779.585	-20	.	.	.	.	.	.	1.450	0.860	590	.	-126	7594.3366	
2	13163.135	3	15178.115	-	2014.966	-14	0.5-	1.5	0.5-	1.5	-0.080	1.881	1961	-0.085	1.881	1966	433	430	7594.8836	
	13162.895	0					7595.0220	
	13161.812	1U					-312	7595.6470	
1	13160.698	1	28906.355	-	15745.648	-9	.	.	.	.	.	.	1.230	1.145	85	-205	276	7596.2899	ISQ
	13159.928	1					7596.7344	
	13158.839	2					2.52	330	7597.3631	2J0G
1	13158.116	1	20306.482	-	33464.592	6	.	.	.	.	.	.	1.123	0.000*	0	.	-237	7597.7805	
1	13157.167	4	20385.328	-	33542.506	-11	2.0-	2.0	2.0-	2.0	1.91	1.12	.790	1.911	1.123	788	+	18	7598.3286	
2	13156.440	2	33332.350	-	20175.895	-15	4.5-	3.5	4.5-	3.5	.	.	.435	1.072	1.515	443	.	286*	7598.7484	
	13155.664	0					7599.1967	
	13155.295	0					7599.4098	
1	13154.787	3	15406.760	-	28561.548	-1	.	.	.	.	.	.	0.890	0.784	106	.	-101	7599.7033	
	13154.302	5					2.0-	2.0629	7599.9835	J2525Q
2	13153.764	6	30193.265	-	17039.487	-14	1.365	1.355	.010	1.364	1.354	10	310	318	7600.2943	
1	13151.770	0	16734.151	-	29835.947	-26	.	.	.	.	.	.	0.928	1.330*	402	.	-361	7601.4466	
1	13151.412	1H	20769.512	-	33920.944	-20	.	.	.	.	.	.	1.070	1.040*	30	.	85	7601.6536	
	13150.856	1B					7601.9750	
1	13150.718	1B	19426.512	-	32577.204	26	.	.	.	.	.	.	1.435	0.980*	455	.	-170	7602.0547	
1	13150.487	0	37639.270	-	24488.767	-16	.	.	.	.	.	.	1.020	0.000*	0	.	54	7602.1883	
	13148.816	0					7603.1544	
	13147.870	1					7603.7014	
1	13147.585	3	20065.327	-	33212.897	15	.	.	.	.	.	.	0.998	1.110*	112	.	-170	7603.8663	
	13145.955	1					7604.8091	
	13145.262	1					7605.2100	
1	13142.973	2	19281.917	-	32424.890	0	.	.	.	.	.	.	1.822	1.770*	52	.	-232	7606.5346	
2	13142.388	0	29838.135	-	16745.720	-27	.	.	.	.	.	.	1.140	1.671*	531	.	441*	7606.8731	
1	13141.649	4	16834.379	-	29976.039	-11	5.0-	4.0	5.0-	4.0	.960	1.065	.105	0.961	1.070	109	-146	-149	7607.3009	
1	13139.558	2	22235.208	-	15745.648	-2	.	.	.	.	.	.	0.912	1.145	233	152	151	7608.5115	
	13138.395	1					7609.1850	
1	13138.039	3	18147.975	-	31286.029	-15	.	.	.	.	.	.	1.049	1.280	231	.	-100	7609.3912	
1	13137.387	9	19281.917	-	6144.515	-15	2.0-	3.0	2.0-	3.0	1.822	1.470	.352	1.822	1.473	349	154	157	7609.7689	
	13136.432	1					7610.3221	
1	13136.072	2	18046.108	-	31182.179	1	.	.	.	.	.	.	0.694	1.210*	516	.	-61	7610.5307	
1	13135.228	2	16155.109	-	29290.355	-18	.	.	.	.	.	.	0.948	0.920	28	.	-198	7611.0197	
	13134.657	1					7611.3505	
2	13134.228	4	29379.945	-	16745.720	3	2.5-	2.5	2.5-	2.5	1.020	1.665	.643	1.026	1.671	645	370	380	7611.5992	
1	13132.418	2	12177.963	-	25310.375	6	.	.	.	.	.	.	0.525	0.000	0	.	-8	7612.6482	
	13131.455	1					7613.2065	
1	13131.237	1	19281.917	-	32413.146	8	.	.	.	.	.	.	1.822	0.995	827	.	-280	7613.3329	
1	13130.055	5	18602.505	-	31732.532	-22	6.0-	5.0	6.0-	5.0	.921	1.060	.139	0.910	1.049	139	.	2	7614.0183	

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	13123.539	3		17081.874-30210.416	-4	.	.	.	4.0-	4.0	.	.	.	.	1.217	1.160*	57	-250	-248	7614.8981	
2	13127.368	1		27028.005-40955.385	-12	.	.	.	4.5-	3.5	.	.	.	.	1.410	0.850*	560		-74	7615.5768	
	13126.457	2				202			7616.1053	
	13125.903	2							7616.4239	
1	13124.653	3W		18346.917-31471.542	28	.	.	.	2.0-	1.0	.	.	.	.	1.518	2.188	670	-	-1	7617.1522	HAZY
1	13123.561	6		14853.317-27976.881	-3	4.0-	3.0	4.0-	3.0	.	.	.786	1.080	.294	0.786	1.080	294	-068	-70	7617.7860		
1	13122.328	1		17554.704-30677.044	-12	.	.	.	8.0-	8.0	.	.	.	.	1.170	1.245*	75		-340	7618.5018	
1	13119.481	5		14853.317-27972.815	-17	4.0-	4.0	4.0-	4.0	.	.	.785	.978	.193	0.786	0.979	193		-8	7620.1550		
	13118.725	0							7620.5942	
1	13117.745	1		31655.500-18538.782	27	.	.	.	1.0-	2.0	.	.	.	.	0.901	1.600	699		132	7621.1635	
1	13117.061	0		24012.505-37129.590	-24	.	.	.	6.0-	5.0	.	.	.	.	1.248	1.010	238		-108	7621.5609	
1	13116.058	3		15856.888-28972.971	-25	1.0-	2.0	1.0-	2.0	.	.	1.100	.795	.305	1.103	0.794	309	-151	-148	7622.1437		
	13114.671	1							7622.9499	
	13113.860	0							7623.4213	
	13113.502	0							7623.6294	
1	13112.383	0		33253.410-20741.029	2	.	.	.	3.0-	2.0	.	.	.	.	1.021	0.000*	0		188	7624.2800	
1	13111.160	3		15249.635-28360.802	-7	.	.	.	2.0-	3.0	.	.	.	.	0.715	0.887	172	-130	-129	7624.9912	
	13110.527	1							7625.3594	
1	13110.372	1		11840.715-24951.118	-31	.	.	.	3.0-	3.0	.	.	.	.	0.811	0.840	29		-33	7625.4495	
1	13110.038	5		12322.613-25432.655	-4	2.0-	2.0	2.0-	2.0	.	.	1.034	1.279	.245	1.036	1.281	245	+	14	7625.6438		
2	13107.252	3		29393.835-16286.582	-1	0.5-	0.5	0.5-	0.5	.	.	-0.510	-0.120	.390	-0.516	-0.122	394	202	207	7627.2647		
	13106.430	1							7627.7430	
2	13103.484	2		17073.340-3969.846	-10	.	.	.	1.5-	2.5	.	.	.	.	0.576	1.670	1094		161	7629.4579	
1	13102.877	4		17911.977-31014.877	-23	5.0-	4.0	5.0-	4.0	.	.	1.145	1.165	.020	1.145	1.170	25	-141	-137	7629.8114		
	13102.292	1							7630.1520	
	13101.408	1							7630.6669	
1	13100.808	1		35182.696-22081.891	3	.	.	.	5.0-	4.0	.	.	.	.	1.037	0.000*	0			7631.0164	
	13100.251	0							7631.3408	
1	13098.271	0		23814.130-36912.410	-9	.	.	.	6.0-	7.0	.	.	.	.	0.890	0.000*	0		52	7632.4944	
1	13097.825	4		12177.963-25275.795	-7	1.0-	1.0	1.0-	1.0	.	.	.525	.705	.180	0.525	0.706	181	-040	-41	7632.7543	PB	
1	13097.576	2B		31724.867-18527.281	-10	.	.	.	2.0-	1.0	.	.	.	.	1.016	0.000*	0		155	7632.8994	
1	13097.489	2B		21031.258-34128.739	8	.	.	.	2.0-	3.0	.	.	.	.	1.455	1.106	349		61	7632.9501	
	13097.022	0							7633.2223	
	13096.633	0							7633.4490	
1	13096.324	0		35178.224-22081.891	-9	.	.	.	3.0-	4.0	.	.	.	.	1.070	0.000*	0		33	7633.6291	
	13095.097	1				313			7634.3444	
1	13092.891	1		16532.104-29625.003	-8	.	.	.	3.0-	2.0	.	.	.	.	0.300	0.910*	610		14	7635.6307	
2	13092.701	1		31758.755-18666.006	-48	.	.	.	2.5-	2.5	.	.	.	.	1.270	1.365	95			7635.7415	
1	13092.247	1		19776.904-32269.165	-14	.	.	.	6.0-	5.0	.	.	.	.	1.012	0.916	96		-256	7636.0063	
2	13090.244	5		27523.600-14433.351	-5	0.5-	1.5	0.5-	1.5	.	.	0.945	1.926	.981	0.940	1.925	985	313	312	7637.1747		
2	13088.338	3		34630.775-21542.435	-2	1.5-	2.5	1.5-	2.5	.	.	1.198	1.279	.081	1.198	1.279	81	395	393*	7638.2869		
1	13088.146	1		23281.721-36369.870	-3	.	.	.	5.0-	5.0	.	.	.	.	1.235	1.069	166		-57	7638.3989	
	13085.692	1							7639.8314	
	13084.548	1C							7640.4994	
2	13083.249	0		36333.015-23249.745	-21	.	.	.	5.5-	4.5	.	.	.	.	1.137	1.475	338		284	7641.2580	
	13081.427	1							7642.3223	
1	13078.772	0		17081.874-30160.664	-18	.	.	.	4.0-	4.0	.	.	.	.	1.217	1.030	187		-178	7643.8737	
2	13077.900	0		19397.055-32474.965	-10	.	.	.	0.5-	1.5	.	.	.	.	3.328	1.150*	2178		62*	7644.3834	
1	13077.455	0		23550.352-36627.825	-18	.	.	.	3.0-	4.0	.	.	.	.	1.090	0.980*	110		64	7644.6435	
1	13077.163	0		24824.706-37901.890	-11	.	.	.	4.0-	4.0	.	.	.	.	1.145	1.166	21		-126	7644.8142	
1	13076.094	2		20385.328-33461.419	3	.	.	.	2.0-	3.0	.	.	.	.	1.911	0.950*	961		-43	7645.4392	
2	13074.773	1		20291.620-33366.475	-22	.	.	.	1.5-	1.5	.	.	.	.	1.377	0.129	1248		43	7646.2116	
	13073.879	2							7646.7345	
1	13073.252	1		30645.856-17572.608	4	.	.	.	2.0-	2.0	.	.	.	.	1.541	0.555	986		105	7647.1012	
	13073.057	1							7647.2153	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	CSS J2 - J1	TERM J2 - J1	TERMI J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	13072.561	3	15024.337-23496.950	-2	.	.	.	3.0- 4.0	.	.	.	.	1.106	0.810	296	-199	-194	7647.5054	
1	13072.051	1B	34628.584-21555.533	5	.	.	.	4.0- 4.0	.	.	.	.	1.144	1.290	146		274	7647.8038	
1	13071.989	1B	22307.633-35379.603	19	.	.	.	3.0- 3.0	.	.	.	.	1.434	1.165	269		-126	7647.8401	
1	13070.926	1	26391.732-39372.685	-27	.	.	.	5.0- 5.0	.	.	.	.	1.060	1.010*	50			7648.4620	
1	13069.171	2	22818.840-35288.025	-14	.	.	.	6.0- 7.0	.	.	.	.	1.335	1.050*	285		-58	7649.4891	
	13067.894	0			.	.	.		.	.	.	.						7650.2366	
	13067.230	2			.	.	.		.	.	.	.						7650.5961	
1	13066.693	3	20043.465-33110.165	-7	.	.	.	5.0- 4.0	.	.	.	.	0.925	1.220*	295	-	-20	7650.9398	
1	13066.530	3	24149.361-37215.900	-9	.	.	.	5.0- 4.0	.	.	.	.	1.262	1.485	223		-72	7651.0352	
1	13065.428	2	29341.761-16276.332	-1	.	.	.	2.0- 2.0	.	.	.	.	1.184	1.880*	696		218	7651.6806	
1	13065.029	5	22416.990-35482.018	1	.	.	.	2.0- 3.0	1.68	1.69	.01	.	1.675	1.679	4	-113	-71	7651.9143	2LNS
1	13065.029	5	9326.801-22451.834	-4	.	.	.	5.0- 5.0	.	.	.	.	0.801	0.000*	0	-403	-398	7651.9143	2LNS
	13064.196	1			.	.	.		.	.	.	.						7652.4022	
1	13062.105	2	21031.258-34093.375	-12	.	.	.	2.0- 1.0	.	.	.	.	1.455	1.310*	145		84	7653.6272	
	13061.675	0			.	.	.		.	.	.	.						7653.8791	
1	13058.888	8	19203.415- 6144.515	-12	2.0-	3.0	2.0-	3.0	1.022	1.472	.450	.	1.021	1.473	452	149	151	7655.5126	
1	13057.535	3H	36192.641-23135.120	14	.	.	.	7.0- 8.0	.	.	.	.	1.234	0.000*	0		133	7656.3059	
	13056.444	5			5.5-	6.5			.795	1.045	.25	.				-		7656.9456	JQ GQ
	13055.984	1			.	.	.		.	.	.	.						7657.2154	
1	13053.517	1	18963.921-32017.434	4	.	.	.	4.0- 4.0	.	.	.	.	1.251	1.020*	231		-234	7658.6626	
1	13052.035	5	22429.984-35482.018	1	4.0-	3.0	4.0-	3.0	1.276	1.676	.400	.	1.279	1.679	400	-092	-93	7659.5322	HAZY
	13050.676	2			.	.	.		.	.	.	.						7660.3298	
1	13050.441	1	14692.549-27743.009	-19	.	.	.	2.0- 2.0	.	.	.	.	0.292	0.568	276		-35	7660.4677	
1	13050.120	2	21263.339-34313.475	-16	.	.	.	5.0- 6.0	.	.	.	.	0.610	1.030*	420		126	7660.6562	
1	13049.769	1	31702.058-18652.287	-2	.	.	.	3.0- 3.0	.	.	.	.	1.085	0.822	263		-10	7660.8622	
	13049.334	0			.	.	.		.	.	.	.						7661.1176	
	13049.000	1			.	.	.		.	.	.	.						7661.3137	
1	13048.414	2	22719.717-35768.160	-29	.	.	.	9.0- 8.0	.	.	.	.	1.200	1.120*	80	-198	-193	7661.6578	
1	13048.087	1	20306.482-33354.592	-23	.	.	.	4.0- 3.0	.	.	.	.	1.123	0.000*	0		-149	7661.8498	
1	13046.021	8	15249.635- 2203.606	-8	2.0-	1.0	2.0-	1.0	.715	1.492	.777	.	0.715	1.495	780	191	192	7663.0631	
1	13045.856	4	16304.260-29350.139	-23	.	.	.	4.0- 3.0	.	.	.	.	1.285	0.910	375		-198	7663.1600	
1	13045.639	1	20943.465-33089.092	11	.	.	.	5.0- 5.0	.	.	.	.	0.925	1.069	144		-52	7663.2881	
1	13045.395	1	26575.338-39620.765	-32	.	.	.	7.0- 6.0	.	.	.	.	1.150	0.965*	185		-148	7663.4308	
1	13044.637	2	26572.296-13528.246	-13	.	.	.	2.0- 1.0	.	.	.	.	1.014-0.590*	1604	231	236		7664.2287	
	13043.662	1			.	.	.		.	.	.	.						7664.4490	
1	13043.246	3	23281.721-10238.473	-2	5.0-	6.0	5.0-	6.0	1.240	1.430	.190	.	1.235	1.431	196	-	-27	7664.6935	
2	13040.323	5	26766.650-13726.318	-9	2.5-	2.5	2.5-	2.5	1.053	.779	.274	.	1.058	0.784	274	359	358	7666.4115	Q
1	13038.210	1	20830.616-33868.834	-8	.	.	.	8.0- 9.0	.	.	.	.	1.110	1.165*	55	-250	-252	7667.6540	
	13037.606	1			.	.	.		.	.	.	.						7668.0092	
	13037.208	1			.	.	.		.	.	.	.						7668.2433	
	13036.794	0			.	.	.		.	.	.	.						7668.4868	
2	13036.614	2	31798.195-18761.580	-1	.	.	.	4.5- 5.5	.	.	.	.	1.290	1.296*	6		366	7668.5927	
	13036.368	0			.	.	.		.	.	.	.						7668.7374	
	13036.132	1			.	.	.		.	.	.	.						7668.8762	
	13035.609	3			.	.	.		.	.	.	.						7669.1839	
1	13034.702	1B	37051.050-24016.378	30	.	.	.	5.0- 5.0	.	.	.	.	1.192	1.560	368			7669.7176	
1	13034.609	1	22307.633-35342.260	-18	.	.	.	3.0- 4.0	.	.	.	.	1.434	1.110	324		-71	7669.7723	
1	13034.176	1	29568.328-42602.510	-6*	.	.	.	7.0- 7.0	.	.	.	.	0.000	1.320*	0			7670.0271	
2	13032.954	5	27466.315-14433.351	-10	1.5-	1.5	1.5-	1.5	1.795	1.927	.132	.	1.793	1.925	132	439	433	7670.7462	
1	13030.702	7	12177.963-25203.672	-7	.	.	.	1.0- 2.0	.52	.50	.02	.	0.525	0.490	35	-041	-45	7672.0719	
1	13029.891	3	16595.109-29625.003	-3	.	.	.	3.0- 2.0	.	.	.	.	0.999	0.910*	89	-165	-157	7672.5495	
1	13029.433	2	6313.866-19343.298	1	4.0-	3.0	4.0-	3.0	.487	1.145	.658	.	0.487	1.135	648		-414	7672.8192	
1	13029.245	0	31655.500-18527.281	26	.	.	.	1.0- 1.0	.	.	.	.	0.901	0.000*	0		186	7672.9299	
1	13028.090	3	17911.977-30940.068	-1	.	.	.	5.0- 5.0	1.145	1.080	65		-91	7673.6101	
	13027.890	0								7673.7279	

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C	HAVEN	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	13026	.109	3	18502.505	-	31628.619	-5	6.0	6.0	6.0	6.0	.	.	.199	0.910	1.110	200		79	7674.7771		
2	13025	.058	1	31542.950	-	18517.872	-10	.	.	1.5	0.5	.	.	.	1.026	2.755	1729			7675.3905		
	13024	.239	0											7675.8790	
1	13023	.967	0	21227.793	-	34251.764	-4	.	.	4.0	4.0	.	.	.	1.346	1.005	341		-126	7676.0394		
2	13023	.256	0	24276.225	-	37299.525	-44	.	.	6.5	5.5	.	.	.	1.430	0.923*	507		-193	7676.4584		
1	13022	.975	0	29299.312	-	16276.332	-5	.	.	1.0	2.0	.	.	.	1.307	1.880*	573		160	7676.6241		
1	13022	.605	5	16532.104	-	29554.716	-7	3.0	3.0	3.0	3.0	.301	.830	.529	0.300	0.831	531		22	7676.8422		
	13021	.318	2											7677.6009	
1	13021	.045	0U	21603.247	-	34624.299	-7	.	.	2.0	2.0	.	.	.	0.060	1.150*	1090		-126	7677.7619	239B	
1	13020	.542	1	18963.921	-	31984.470	-7	.	.	4.0	3.0	.	.	.	1.251	1.090	161		-85	7678.0585		
1	13019	.897	2	27361.817	-	14341.947	27	.	.	3.0	2.0	.	.	.	1.310	0.852	458		168	7678.4389		
1	13019	.481	3	14292.176	-	27311.658	-1	5.0	5.0	5.0	5.0	.970	1.036	.066	0.970	1.035	65		-077	-82	7678.6842	
	13019	.167	0											7678.8694	
1	13018	.673	1	27643.693	-	40662.380	-14	.	.	4.0	3.0	.	.	.	1.310	1.050*	260			7679.1608		
1	13016	.156	0	21703.960	-	34720.110	6	.	.	5.0	4.0	.	.	.	1.120	1.030	90		-472	7680.6458		
	13015	.830	1											7680.8382	
	13014	.987	2H										-263	7681.3357	
1	13014	.556	1	30319.724	-	17305.142	-26	.	.	3.0	2.0	.	.	.	1.010	0.000*	0		-128	7681.5900	C2	
1	13014	.556	1	20306.482	-	33321.067	-29	.	.	4.0	5.0	.	.	.	1.123	1.200*	77		-177	7681.5900	C2	
	13013	.728	3											7682.0788	2 LNS
2	13013	.728	3	33189.610	-	20175.895	13	2.5	3.5	2.5	3.5	1.110	1.505	.395	1.121	1.515	394	245	240	7682.0788	2LNS	
	13012	.851	2											7682.5965	
1	13012	.373	0	29617.177	-	16604.786	-18	.	.	7.0	6.0	.	.	.	1.380	0.950*	430		-127	7682.8787		
	13011	.770	0											7683.2348	
	13010	.559	2					.	.			1.21	1.21								7683.9499	SP
1	13010	.406	2	19203.415	-	32213.814	7	2.0	2.0	2.0	2.0	1.021	.727	.294	1.021	0.725	296		-30	7684.0403		
	13007	.636	0											7684.4951	
2	13007	.493	1	29753.225	-	16745.720	-17	3.5	2.5	3.5	2.5	1.10	1.66	.560	1.103	1.671	568		364	7685.7641		
1	13006	.614	1	20877.600	-	33884.230	-16	.	.	7.0	7.0	.	.	.	1.060	1.105*	45		-96	7686.2805		
	13006	.341	0											7686.4419	
1	13005	.222	3	14737.788	-	27743.009	1	.	.	3.0	2.0	.	.	.	0.815	0.568	247		-34	7687.1032		
1	13004	.930	1	30770.199	-	17765.281	12	.	.	2.0	3.0	.	.	.	1.216	1.680*	464		142	7687.2758		
1	13004	.056	2	6313.866	-	19317.922	0	.	.	4.0	5.0	.	.	.	0.487	0.000*	0		-152	-152	7687.7925	
	13002	.914	2											7688.4677	
2	13002	.104	3	18720.075	-	5717.976	5	3.5	3.5	3.5	3.5	1.064	1.596	.532	1.060	1.596	536	100	106	7688.9467		
1	13001	.355	9	12159.465	-	25160.827	-7	4.0	3.0	4.0	3.0	.845	.800	.045	0.844	0.800	44		-19	7689.3896		
	12999	.121	3					.	.			1.016	1.016							-121	7690.7111	
1	12996	.435	2	30319.724	-	17323.291	2	3.0	4.0	3.0	4.0	1.010	1.255	.245	1.010	1.250*	240	106	111	7692.3006		
1	12996	.082	0	18046.108	-	31042.204	-14	.	.	4.0	3.0	.	.	.	0.694	1.010	316		144	7692.5095		
1	12993	.939	4	18578.669	-	31572.610	-2	1.0	1.0	1.0	1.0	1.932	2.401	.469	1.932	2.403	471	047	44	7693.7782		
1	12993	.580	3	6313.866	-	19307.447	-1	.	.	4.0	4.0	.	.	.	0.487	0.000*	0		-136	-138	7693.9908	
2	12992	.972	5	28481.495	-	15488.530	7	.	.	4.5	3.5	1.065	1.070	.005	1.070	1.057*	13	312	321	7694.3508		
1	12992	.317	1	18181.485	-	31173.814	-12	.	.	0.0	1.0	.	.	.	0.000	0.450*	0		-175	7694.7387		
	12991	.830	1											7695.0449	
	12990	.398	0											7695.8754	
	12990	.191	0											7695.9981	
	12990	.036	0											7696.0899	
2	12988	.643	0	31750.220	-	18761.580	3	.	.	5.5	5.5	.	.	.	1.180	1.296	116			7696.9153		
2	12988	.340	2	34907.455	-	21919.400	-15	.	.	6.5	7.5	.	.	.	1.100	1.345*	245	405	406	7697.2726		
	12986	.311	0											7698.2974	
	12985	.868	1											7698.5601	
1	12982	.714	2	21737.407	-	34720.110	11	.	.	3.0	4.0	.	.	.	1.026	1.030	4		-245	7700.4304		
2	12982	.502	2	34944.620	-	21852.135	17	.	.	1.5	2.5	.	.	.	1.528	1.320*	208	213	224	7700.5561		
1	12981	.960	0	33334.270	-	20402.369	-1	.	.	4.0	3.0	.	.	.	1.080	1.265*	185		-187	7700.9132		
	12981	.750	0											7701.0022	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	12980.991	0																	7701.4525	
1	12979.294	1	14763.705	-	27743.009	-10	.	.	1.0-	2.0	.	.	.	-0.066	0.568	634	-	-35	7702.4594	
1	12979.112	3	14853.317	-	27832.430	-1	.	.	4.0-	4.0	.	.	.	0.786	0.920	134	-	-15	7702.5674	
	12977.754	0																	7703.3734	
	12977.334	0																	7703.6227	
	12975.685	1H																	7704.6017	
1	12974.465	1	21307.390	-	34281.845	10	.	.	1.0-	2.0	.	.	.	2.360	0.850*	1510	+	10	7705.3262	
1	12973.933	0	25828.024	-	32801.970	-13*	.	.	4.0-	4.0	.	.	.	1.310	1.090*	220		29	7705.6422	
2	12973.120	0	29259.700	-	16286.582	2	.	.	1.5-	0.5	.	.	.	1.250	0.122	1372		275	7706.1251	
1	12972.843	0	36107.991	-	23135.120	-28	.	.	7.0-	8.0	.	.	.	1.135	0.000*	0		182	7706.2896	
	12972.246	0																	7706.6443	
	12971.928	2																	7706.8332	
	12971.618	2																	7707.0174	2LNS
1	12971.618	2	21307.390	-	34279.010	-2	1.0-	1.0	1.0-	1.0	1.09	1.09		2.360	1.710*	650		-76	7707.0174	HKPB2LNS
2	12971.346	1	29717.090	-	16745.720	-24	.	.	2.5-	2.5	.	.	.	1.014	1.671	657			7707.1790	
	12971.101	0																	7707.3246	
1	12970.346	2	26498.599	-	13528.246	-7	0.0-	1.0	0.0-	1.0				0.000	0.590*	0	069	67	7707.7732	
1	12969.981	0	24970.474	-	37940.455	0	.	.	4.0-	3.0				1.460	1.170*	290	+	-15	7707.9901	
	12968.987	0																	7708.5809	
	12968.552	3H																	7708.8395	DJ1
1	12968.324	1	20065.327	-	33033.638	13	.	.	3.0-	3.0				0.998	0.910	88	-264	-271	7708.9750	
1	12967.040	0	21703.960	-	34670.995	5	.	.	5.0-	5.0				1.120	1.010*	110		-196	7709.7384	
	12965.899	0																	7710.4168	
	12965.526	0																	7710.6386	
1	12964.718	0	32903.777	-	19939.052	-7	.	.	4.0-	3.0				1.120	0.000*	0		176	7711.1192	
	12964.093	0																	7711.4880	
1	12962.552	1H	39618.160	-	26655.622	14	.	.	3.0-	3.0				0.270	1.015*	745		27	7712.4077	
	12961.591	1																	7712.9795	
	12961.146	0																	7713.2443	
	12960.079	1																	7713.8794	
1	12959.593	0	16595.109	-	29554.716	-14	.	.	3.0-	3.0				0.999	0.831	168		-149	7714.1686	
1	12958.727	0	32296.170	-	19337.431	-12*	.	.	1.0-	1.0				0.935	2.410*	1475		167	7714.6842	
1	12956.194	2	18572.411	-	31628.619	-14	6.0-	6.0	6.0-	6.0	1.190	1.105	.085	1.190	1.110*	80		-152	7716.1924	
2	12956.013	4	34013.940	-	21057.925	-2	3.5-	2.5	3.5-	2.5	1.117	1.588	.471	1.121	1.590	469	354	352	7716.3002	
	12954.954	0																	7716.9310	
1	12953.176	5	12322.613	-	25275.795	-6	2.0-	1.0	2.0-	1.0	1.031	.702	.329	1.036	0.706	330	-053	-45	7717.9903	PB
	12952.653	0																	7718.3019	
	12952.326	0																	7718.4968	
	12949.619	0																	7720.1102	
1	12947.789	6	12177.963	-	25125.763	-11	1.0-	1.0	1.0-	1.0	.525	.313	.212	0.525	0.314	211	-	-32	7721.2014	
	12947.095	0																	7721.6153	
2	12945.385	2	23671.715	-	10726.322	-8	.	.	3.5-	4.5				1.380	1.391	11	154	158	7722.6352	
1	12944.966	1	14025.007	-	26969.979	-6	.	.	4.0-	3.0				0.975	0.000*	0		-377	7722.8852	
1	12944.819	1	14692.549	-	27637.377	-9	.	.	2.0-	1.0				0.292	1.280	988		-238	7722.9729	
1	12944.533	1H	20554.712	-	33599.280	-30	.	.	1.0-	2.0				0.200	1.606	1406		-23	7723.1406	
1	12944.233	2	19265.603	-	32209.844	-8	.	.	4.0-	4.0				1.100	0.900	200	-203	-212	7723.3225	
2	12943.602	2	26669.945	-	13726.318	-25	.	.	1.5-	2.5				1.350	0.784	566		390	7723.6991	
	12943.013	2																	7724.0505	
	12942.763	0																	7724.1997	
1	12941.602	4	8768.139	-	21709.745	-4	2.0-	3.0	2.0-	3.0	.352	.972	.620	0.362	0.980	618	+	28	7724.8927	
2	12940.677	3	31702.260	-	18761.580	-3	.	.	6.5-	5.5				1.050	1.296*	246	305	305	7725.4449	
1	12939.698	1H	21737.407	-	34677.111	-6	.	.	3.0-	4.0				1.026	1.080	54	+	5	7726.0294	
	12939.146	1																	7726.3590	
	12938.169	2									.90	.90							7726.9424	
	12937.718	2									1.09	1.09							7727.2118	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	12936.868	1	26633.286-39570.175	-21					1.0- 2.0					1.124	1.150*	26	+	57*	7727.7195	C2
1	12936.868	1	19074.292-32011.173	-13					2.0- 3.0					1.532	1.140*	392	+	25	7727.7195	C2
2	12936.537	1	20121.145-33057.710	-28					2.5- 3.5					0.710	0.857*	147		-112	7727.9172	
1	12936.409	2	15424.387-29350.802	-6					3.0- 3.0					1.106	0.887	219	-117	-122	7727.9937	
2	12935.801	1	34193.640-47129.430	11					1.5- 2.5					0.970	0.920*	50			7728.3569	
1	12934.804	4	20709.458- 7774.653	-1					3.0- 4.0					1.240	1.463	223	-045	-49	7728.9526	
	12934.461	0																	7729.1576	
1	12934.239	0	33762.720-20828.475	-6					4.0- 4.0					1.120	0.352	768		13*	7729.2902	
2	12933.286	3H	23421.805-15488.530	11					2.5- 3.5					0.878	1.057	179	267	260	7729.8598	HAZY
1	12932.629	5	22705.158- 9772.532	3					1.0- 0.0	-0.017	.000			-0.020	0.000*	0	-	-19	7730.2525	
1	12931.853	2	13517.647-26449.501	-1					2.0- 3.0					0.892	0.940*	48	-266	-265	7730.7163	
	12931.628	1																	7730.8508	
1	12930.935	1	19203.415-32134.354	-4					2.0- 3.0					1.021	0.000*	0	-177	-171	7731.2651	C2
1	12930.935	1	24644.996-37575.920	11*					3.0- 2.0					1.195	1.220*	25	-177	-182	7731.2651	C2
1	12929.774	7	19074.292- 6144.515	-3				2.0- 3.0	2.0- 3.0	1.535	1.470	.065		1.532	1.473	59	-	-22	7731.9594	
1	12928.708	1	17615.482-30544.187	3					2.0- 3.0					1.450	0.946	504	-095	-94	7732.5969	
	12925.995	1																	7734.2199	
1	12925.430	1	20043.465-32968.906	-11					5.0- 4.0					0.925	1.115	190		35	7734.5579	
	12925.176	0																	7734.7099	
1	12924.911	1	16304.260-29229.190	-19					4.0- 4.0					1.285	1.480*	195		-410	7734.8685	
	12924.792	1																	7734.9397	
1	12924.488	0	20540.110-33464.592	6					3.0- 4.0					0.830	0.000*	0		-12	7735.1217	
	12924.274	0																	7735.2498	
	12922.203	0																	7736.4895	
1	12920.991	1	18346.917-31267.919	-11					2.0- 3.0					1.518	1.080	438		-10	7737.2152	
1	12920.417	2	14912.011-27832.430	-2					4.0- 4.0					0.496	0.920	424	074	82	7737.5589	
1	12920.023	0	30225.210-17305.142	-45					2.0- 2.0					1.300	0.000*	0		-99	7737.7949	
1	12918.817	0	14025.007-26943.829	-5					4.0- 5.0					0.975	1.220	245		-238	7738.5172	
1	12918.182	3H	25839.917-38758.100	-1					6.0- 5.0					1.250	1.530	280	-172	-167	7738.8976	HAZY
1	12916.207	2	22839.053-35805.270	-10					4.0- 5.0					1.263	1.075	188	-099	-98	7740.0809	
	12915.441	0																	7740.5400	
1	12914.192	3	21337.573-34251.764	1					4.0- 4.0					1.137	1.005	132		-169	7741.2886	
1	12913.454	3	13517.647-26431.101	0					2.0- 3.0					0.892	0.807	85	-250	-249	7741.7311	
2	12912.605	5	29952.065-17039.487	27				1.5- 1.5	1.5- 1.5	1.170	1.352	.182		1.184	1.354	170	289	299	7742.2401	
	12912.035	1																	7742.5819	
2	12911.727	1H	20689.110-33600.850	-13					3.5- 2.5					1.270	1.263*	7		-100	7742.7665	
	12911.308	0																	7743.0178	
1	12910.946	1	24090.570-37001.490	26					7.0- 6.0					1.130	1.035	95		-10	7743.2349	
1	12907.422	1	21812.682-34720.110	-6					4.0- 4.0					1.040	1.030	10	-318	-316	7745.3490	
1	12907.194	1	19959.027-32366.230	-9					1.0- 1.0					0.760	0.320*	440		35	7745.4858	
	12906.571	0																	7745.8597	
2	12905.130	3	27338.500-14433.351	-19				1.5- 1.5	1.5- 1.5	.870	1.925	1055		0.876	1.925	1049	329	324	7746.7246	
	12904.434	1															+		7747.1424	
1	12903.575	2	20065.327-32968.906	-4					3.0- 4.0					0.998	1.115	117	-200	-203	7747.6582	
1	12902.955	2	17911.977-30314.939	-7					5.0- 5.0					1.145	1.111	34	-232	-229	7748.0305	
1	12902.219	0	15424.387-28326.610	-4					3.0- 4.0					1.106	1.260*	154		-321	7748.4724	
	12901.049	1B																	7749.1752	
1	12900.933	1B	21227.793-34128.739	-13					4.0- 3.0					1.346	1.106	240		-152	7749.2448	
1	12900.302	2	21227.793-34128.094	1					4.0- 4.0					1.346	0.000*	0		-127	7749.6239	
1	12900.036	1	20934.195-33834.230	1					6.0- 7.0					1.319	1.105	214		-325	7749.7837	C2
1	12900.036	1	16304.250-29204.303	-12					4.0- 5.0					1.285	0.896	389		-222	7749.7837	C2
1	12899.344	6	22671.890- 9772.532	-14				1.0- 0.0	1.0- 0.0	.599	.000			0.599	0.000	0	079	89	7750.1994	
1	12898.953	2	22666.777-35563.728	5					3.0- 3.0					0.977	1.204	227		-364	7751.6345	
	12898.214	0																	7752.0805	
	12895.890	0																	7752.2812	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G5	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	12875.731	1	34757.860	-21862.135	6	.	.	3.5-	2.5	.	.	.	1.202	1.320*	118		318	7752.3708		
	12895.333	0																7752.6101		
1	12894.384	4	26572.296	-13677.903	-9	2.0-	1.0	2.0-	1.0	1.011	1.442	.431	1.014	1.442	428		-9	7753.1807		
1	12894.234	1	18147.975	-31042.204	5	.	.	3.0-	3.0	.	.	.	1.049	1.010	39	-095	-90	7753.2709		
1	12893.952	1	18046.103	-30940.068	-8	.	.	4.0-	5.0	.	.	.	0.694	1.080	386		141	7753.4404		
1	12892.873	4	18578.669	-31471.542	0	1.0-	1.0	1.0-	1.0	1.931	2.190	.259	1.932	2.188	256	144	144	7754.0893		
	12890.273	0																7755.6533		
1	12889.812	3	20709.458	-33599.280	-10	3.0-	2.0	3.0-	2.0	1.245	1.607	.362	1.240	1.606	366	-067	-56	7755.9307		
	12889.592	2																7756.0631		
1	12839.213	1	21218.180	-34107.378	15	.	.	3.0-	3.0	.	.	.	0.850	1.160*	300		-209	7756.2912		
2	12888.431	3	34807.830	-21919.400	1	7.5-	7.5	7.5-	7.5	1.181	1.355	.174	1.170	1.345	175	273	271	7756.7618	GQ	
1	12887.819	0	20654.712	-33542.506	25	.	.	1.0-	2.0	.	.	.	0.200	1.123	923	+	25	7757.1301		
1	12836.054	9	12322.613	-25208.672	-5	2.0-	2.0	2.0-	2.0	1.035	.493	.542	1.036	0.490	546	-045	-49	7758.1926		
	12885.291	0																7758.6520		
	12884.986	0																7758.8357		
	12884.733	1																7758.9880		
	12831.955	0															101		7760.6613	
	12831.129	1															202		7761.1589	
	12880.829	1																	7761.3035	
1	12830.564	2	30645.856	-17765.281	-11	.	.	2.0-	3.0	.	.	.	1.541	1.680*	139	113	133	7761.4994		
1	12879.550	0	21227.793	-34107.378	-35	.	.	4.0-	3.0	.	.	.	1.346	1.160*	186		-125	7762.1104		
1	12879.376	0	19059.958	-31939.345	-11	.	.	5.0-	6.0	.	.	.	1.375	1.200*	175		-341	7762.2153		
1	12878.684	0	20425.711	-33304.400	-5	.	.	1.0-	0.0	.	.	.	1.340	0.000	0		-53	7762.6324		
	12877.280	1																	7763.4787	
	12876.550	1																	7763.9189	
1	12875.515	1W	14353.317	-27728.796	36	.	.	4.0-	3.0	.	.	.	0.786	1.060	274		-55	7764.5430		
1	12873.655	0	14763.705	-27637.377	-17	.	.	1.0-	1.0	.	.	.	-0.066	1.280	1346		-238	7765.6648		
1	12872.273	3	22719.717	-35591.995	-5	.	.	9.0-	8.0	.	.	.	1.200	1.105*	95	-218	-218	7766.4985		
	12871.051	0																	7767.2359	
	12869.807	1																	7767.9867	
	12869.374	0																	7768.2481	
1	12868.981	0	31521.279	-18652.287	-11	.	.	4.0-	3.0	.	.	.	1.206	0.822	384		-148	7768.4853		
1	12868.633	2	15249.635	-28118.262	6	.	.	2.0-	3.0	.	.	.	0.715	1.250*	535	-	-31	7768.6954		
1	12868.198	4	19776.904	-32645.106	-4	6.0-	5.0	6.0-	5.0	1.005	1.130	.125	1.012	1.135	123	-261	-258	7768.9580		
2	12867.700	2	30031.180	-17163.470	-10	.	.	3.5-	4.5	.	.	.	1.250	1.200	50		344	7769.2587		
1	12866.972	1	22818.840	-35485.835	-23	.	.	6.0-	5.0	.	.	.	1.335	1.104	231		-119	7769.6982		
1	12866.476	1	20385.328	-33251.780	24	.	.	2.0-	2.0	.	.	.	1.911	1.465	446	+	44	7769.9978		
1	12864.424	3	21812.632	-34677.111	-5	.	.	4.0-	4.0	1.06	1.06	.	1.040	1.080	40	-056	-66	7771.2372		
1	12863.427	0	18672.411	-31535.835	3	.	.	6.0-	5.0	.	.	.	1.190	1.020*	170	-307	-301	7771.8395		
1	12851.281	1	22518.312	-35379.603	-10	.	.	2.0-	3.0	.	.	.	1.350	1.165	185	•	1	7773.1363		
	12860.880	0																	7773.3786	
	12860.253	0																	7773.7576	
1	12859.805	2	14737.788	-27597.590	3	.	.	3.0-	4.0	.	.	.	0.815	0.930	115	-100	-104	7774.0285		
	12859.442	0																	7774.2479	
1	12855.746	0	22176.323	-35032.090	-21	.	.	1.0-	0.0	.	.	.	1.210	0.000*	0		-43*	7776.4830		
	12854.935	0																	7776.9736	
1	12854.369	3	16155.109	-29009.483	-5	5.0-	4.0	5.0-	4.0	.	.	.	0.948	0.695	253	-179	-177	7777.3160		
1	12853.408	1U	19496.402	-32349.853	-43	.	.	3.0-	2.0	.	.	.	1.555	0.000*	0		-281	7777.8975		
	12853.119	1																	7778.0724	
1	12852.261	3	17911.977	-30764.244	-6	.	.	5.0-	6.0	.	.	.	1.145	0.975	170	-234	-231	7778.5917		
	12851.333	0																	7779.1534	
2	12850.756	1	31516.780	-18666.006	-18	.	.	2.5-	2.5	.	.	.	1.215	1.365	150			7779.5027		
1	12848.410	2	21812.682	-34661.105	-13	.	.	4.0-	4.0	.	.	.	1.040	1.100	60	+	23	7780.9231		
	12847.276	1																	7781.6099	
1	12847.021	0	20540.110	-33387.151	-20	.	.	3.0-	2.0	.	.	.	0.830	1.288*	458		-55	7781.7644		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	12246.778	0																	7781.9116	
	12346.509	0																	7782.0745	
1	12286.145	2	16202.112-29048.255		2	0.0-	1.0	0.0-	1.0	.000	.89		0.000	0.900	0	-190	-193	7782.2950		
	12845.892	1																	7782.4483	
2	122843.831	5	32670.835-19827.020		16	2.5-	1.5	2.5-	1.5	1.363	1.732	.369	1.361	1.733	372	252	255	7783.6971		
1	12243.592	1	17615.482-30459.091		-17	. - .		2.0-	2.0	.	.	.	1.450	1.255	195		-240	7783.8420		
	12841.927	0																	7784.8512	
1	12241.121	1	20521.579-33362.705		-5	. - .		6.0-	7.0	.	.	.	1.246	1.140*	106		-186	7785.3398	C2	
1	12341.121	1	23413.710-36254.860		-29	. - .		4.0-	5.0	.	.	.	0.000	1.030*	0		-75	7785.3398	C2	
2	122840.440	1	29379.945-17039.487		-18	. - .		2.5-	1.5	.	.	.	1.026	1.354	328		380	7785.7527		
	12239.831	1																	7786.1220	
	12239.455	1																	7786.3500	
2	122839.076	0	26830.020-13990.952		8	. - .		0.5-	1.5	.	.	.	-0.097	1.728	1825		67	7786.5799		
	12233.562	1																	7786.8916	
1	12238.215	5	12322.613-25160.827		1	2.0-	3.0	2.0-	3.0	1.033	.803	.230	1.036	0.800	236	-	-22	7787.1021		
	12235.448	0																	7788.7808	
1	12234.839	2	24381.050-37215.900		-11	. - .		5.0-	4.0	.	.	.	1.450	1.485*	35	+	21	7789.1504		
2	12234.495	1	31596.070-18761.580		5	. - .		6.5-	5.5	.	.	.	1.000	1.296	296	+	321*	7789.3591	CQ	
1	12233.046	5	20709.458-33542.506		-2	3.0-	2.0	3.0-	2.0	1.238	1.121	.117	1.240	1.123	117		-8	7790.2337		
	12231.983	1																	7790.8810	
1	12231.149	2	20540.110-33371.251		8	3.0-	3.0	3.0-	3.0	.843	1.126	.283	0.830	1.113*	283	+	29	7791.3904		
	12230.749	0																	7791.6333	
1	12230.397	1	32485.490-25555.090		-3*	. - .		4.0-	4.0	.	.	.	1.145	1.165	20			7791.8471	C2	
2	12230.397	1	35028.065-22197.670		2	. - .		4.5-	3.5	.	.	.	1.144	1.530	386		462	7791.8471	C2	
	12230.051	0																	7792.0572	
1	12229.687	2	18046.108-30875.798		-3	. - .		4.0-	4.0	.	.	.	0.694	1.080*	386	-041	-43	7792.2783		
1	12229.431	3	20521.579-33351.007		3	6.0-	6.0	6.0-	6.0	1.246	1.232	.014	1.246	1.240*	6	-041	-41	7792.4338		
	12228.354	0																	7793.0880	
	12228.167	0																	7793.2016	
1	12226.895	3	18346.917-31173.814		-2	2.0-	1.0	2.0-	1.0	1.524	.450	1074	1.518	0.450*	1068	-076	-73	7793.9744		
1	12226.067	3	20425.711-33251.780		-2	. - .		1.0-	2.0	.	.	.	1.340	1.465	125	+	47	7794.4776		
1	12225.695	2	20043.465-32869.165		-5	. - .		5.0-	5.0	.	.	.	0.925	0.916	9		-13	7794.7036		
	12224.727	3																	7795.2920	DJO
1	12224.432	1	16734.151-29558.591		-8	. - .		2.0-	2.0	.	.	.	0.928	1.030	102		-374	7795.4713		
1	12224.136	0	28569.792-15745.648		-8	. - .		3.0-	3.0	.	.	.	1.245	1.145	100		148	7795.6512		
1	12223.849	1	21218.180-34042.040		-11	. - .		3.0-	4.0	.	.	.	0.860	0.806	54		-131	7795.8257		
	12223.449	1																	7796.0689	
1	12222.105	2	18591.122-31413.230		-3	. - .		4.0-	3.0	.	.	.	0.965	0.742	223	-121	-117	7796.8860		
1	12220.557	2	16734.151-29554.716		-8	. - .		2.0-	3.0	.	.	.	0.928	0.831	97	-159	-173	7797.8275		
1	12220.237	2	28565.887-15745.648		-2	. - .		2.0-	3.0	.	.	.	0.911	1.145	234		98	7798.0221		
1	12219.400	9	18963.921- 6144.515		-6	4.0-	3.0	4.0-	3.0	1.245	1.464	.219	1.251	1.473	222	180	176	7798.5313		
1	12218.219	3	11840.715-24658.931		3	. - .		3.0-	4.0	.	.	.	0.811	1.080	269	-070	-66	7799.2498		
1	12217.219	3	17500.977-30318.195		1	. - .		1.0-	2.0	.	.	.	2.258	0.940	1318	-085	-91	7799.8583		
	12216.809	0																	7800.1078	
1	12216.303	1C	35969.064-23152.755		-1	. - .		2.0-	2.0	.	.	.	0.765	0.580	185		53*	7800.4127	HAZY	
1	12215.247	3	22666.777-35482.013		6	. - .		3.0-	3.0	.	.	.	0.977	1.679	702		-270	7801.0585		
1	12214.457	2	14292.176-27106.673		0	. - .		5.0-	6.0	.	.	.	0.970	1.040	70		-114	7801.5151		
1	12213.871	2	20043.465-32857.357		-1	. - .		5.0-	6.0	.	.	.	0.925	1.101	176	+	32	7801.8841		
	12213.609	0																	7802.0558	
2	12312.333	1	23533.650-10726.322		5	. - .		3.5-	4.5	.	.	.	1.470	1.391*	79		179	7802.8328		
1	12211.950	1	29028.272-16276.332		10	. - .		3.0-	2.0	.	.	.	1.005	1.880*	875		167	7803.0660		
	12211.431	3															154		7803.3821	
2	12210.822	1	29556.550-16745.720		-8	. - .		1.5-	2.5	.	.	.	0.484	1.671	1187		207	7803.7531		
	12210.576	1H																	7803.9030	
	12210.309	0																	7804.0656	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	12808.909	2																			
1	12808.095	2	30131.388	-	17323.291	-2	.	.	3.0- 4.0	.	.	.	.	1.232	1.250*	18	139	126	7804.9186	
	12806.901	2					.	.		.	.	.	.				124	072	7805.4146	
	12805.596	1					.	.		.	.	.	.						7806.1423	
	12804.752	2					.	.		.	.	.	.						7806.9379	
1	12804.075	0	17081.874	-	29335.947	2	.	.	4.0- 3.0	.	.	.	.	1.217	1.330*	113	-343	-371	7807.4524	
1	12803.153	5	12322.613	-	25125.763	3	2.0-	1.0	2.0- 1.0	1.040	.320	.720		1.036	0.314	722	-	-36	7807.8653		
1	12802.407	3	17911.977	-	30714.385	-1	.	.	5.0- 4.0	.	.	.	.	1.145	1.150	5	-105	-103	7808.4275	
	12802.235	0					.	.		.	.	.	.						7808.8825	
1	12800.795	4	12602.505	-	31403.302	-2	.	.	6.0- 5.0	.	.	.	.	0.910	1.205	295	-058	-71	7808.9874	
1	12800.044	3	18597.584	-	31597.633	-5	.	.	5.0- 4.0	.	.	.	.	1.280	1.187	93	-128	-129	7809.8659	
1	12799.857	1	22088.306	-	34338.198	-25	.	.	6.0- 5.0	.	.	.	.	1.060	1.070	10		36	7810.3241	
	12799.471	1					.	.		.	.	.	.				+		7810.4321	
	12798.653	0					.	.		.	.	.	.						7810.6738	
	12797.612	1					.	.		.	.	.	.						7811.1730	
	12796.797	1					.	.		.	.	.	.						7811.8084	
1	12796.473	0	21703.960	-	34500.445	-12	.	.	5.0- 6.0	.	.	.	.	1.120	1.030	90		-222	7812.3059	
1	12795.901	3	19776.904	-	32572.811	-6	.	.	6.0- 5.0	1.047	1.047			1.012	1.010*	2	-264	-264	7812.5037		
	12795.386	1					.	.		.	.	.	.						7812.8529	
	12795.292	0					.	.		.	.	.	.						7813.1674	
	12795.000	1					.	.		.	.	.	.						7813.2248	
1	12794.684	2C	20385.328	-	33180.043	-31	.	.	2.0- 2.0	.	.	.	.	1.911	1.790*	121		45	7813.4031	
2	12793.317	3	20291.680	-	7498.364	1	1.5-	2.5	1.5- 2.5	1.390	1.315	.075		1.377	1.321	56	168	171	7813.5961		
1	12791.653	4	12159.465	-	24951.118	0	.	.	4.0- 3.0	.85	.85			0.844	0.840	4	-	-32	7814.4310		
1	12790.498	0	21337.573	-	34128.094	-23	.	.	4.0- 4.0	.	.	.	.	1.137	0.000*	0		-170	7815.4475	
1	12790.192	1	24733.061	-	37523.250	3	.	.	7.0- 6.0	.	.	.	.	1.275	1.055	220		-199	7816.1533	
	12788.635	0					.	.		.	.	.	.						7816.3403	
	12786.023	1					.	.		.	.	.	.						7817.2919	
2	12784.790	3	20063.650	-	7278.862	2	4.5-	4.5	4.5- 4.5	1.045	1.541	.496		1.049	1.545	496	107	106	7818.8889		
1	12784.359	2	19426.512	-	32210.885	-14	.	.	3.0- 4.0	.	.	.	.	1.435	0.995	440		9	7819.6430	
1	12782.595	1	20306.482	-	33089.092	-14	.	.	4.0- 5.0	.	.	.	.	1.123	1.069	54		-276	7819.9066	
1	12781.065	1	19203.415	-	31984.470	10	.	.	2.0- 3.0	.	.	.	.	1.021	1.090	69		-60	7820.9851	
1	12780.837	2	16888.909	-	29659.807	-11	.	.	6.0- 6.0	.	.	.	.	1.098	1.150	52	-169	-166	7821.9220	
1	12778.691	5	21263.339	-	34042.040	-10	5.0-	4.0	5.0- 4.0	.592	.796	.204		0.610	0.806*	196	119	126	7822.0309		
	12778.031	2C					.	.		.	.	.	.						7823.3751	
	12777.344	0					.	.		.	.	.	.						7823.7792	HAZY BHQ
	12776.842	0					.	.		.	.	.	.						7824.1999	
	12776.585	0					.	.		.	.	.	.						7824.5073	
1	12776.063	0	19496.402	-	32272.487	-22	.	.	3.0- 3.0	.	.	.	.	1.555	0.000*	0		-303	7824.6647	
	12775.682	2					.	.		.	.	.	.					202	7824.9844	
	12775.460	0					.	.		.	.	.	.						7825.2177	
1	12772.552	1B	18346.917	-	31119.494	-25	.	.	2.0- 2.0	.	.	.	.	1.518	0.814	704		-121	7825.3537	
2	12772.472	1B	33094.805	-	20322.349	16	.	.	5.5- 6.5	.	.	.	.	1.050	1.314*	264		426	7827.1354	
	12770.990	0					.	.		.	.	.	.						7827.1844	
1	12770.156	5	17554.704	-	30324.858	2	8.0-	7.0	8.0- 7.0	1.17	1.16	.01		1.170	1.170*	0	-139	-139	7828.0927		
1	12769.715	4	12159.465	-	24929.184	-4	.	.	4.0- 4.0	.	.	.	.	0.844	1.080	236	-159	-149	7828.6039	
1	12769.390	4	16520.962	-	29290.355	-3	.	.	5.0- 6.0	.	.	.	.	0.736	0.920	184		16	7828.8743	
1	12768.813	2	18045.103	-	30314.939	-18	.	.	4.0- 5.0	.	.	.	.	0.694	1.111	417		3	7829.0736	
1	12768.657	2	18963.921	-	31732.582	-4	.	.	4.0- 5.0	.	.	.	.	1.251	1.049	202	-228	-216	7829.4273	
2	12767.134	1U	34964.825	-	22197.670	-21	.	.	4.5- 3.5	.	.	.	.	1.122	1.530	408		344	7829.5230	
	12766.757	1					.	.		.	.	.	.						7830.4570	
1	12766.370	4	20043.465	-	32809.814	-9	.	.	5.0- 4.0	.93	.91	.02		0.925	0.900	25	+	17	7830.6882		
1	12766.170	3	23004.649	-	10233.473	-6	.	.	5.0- 6.0	.	.	.	.	1.196	1.431	235	155	142	7830.9256	
1	12765.457	3	20540.110	-	7774.653	0	.	.	3.0- 4.0	.	.	.	.	0.830	1.463*	633	-043	-53	7831.0483	
	12764.778	0					.	.		.	.	.	.						7831.4857	
							.	.		.	.	.	.						7831.9023	

C	HAVENUMSER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
	12764.459	0																	7832.0980	
	12763.930	0																	7832.4226	
	12762.680	0																	7833.1897	
1	12762.196	4	12159.465	-	24921.671	-10	4.0-	5.0	4.0-	5.0	.842	1.032	.190	0.844	1.034	190	-101	-102	7833.4868	
	12760.994	0																	7834.2247	
	12760.359	0																	7834.6145	
	12759.714	0																	7835.0106	
1	12759.243	1	19959.027	-	32718.268	2	.	.	1.0-	1.0	.	.	.	0.760	0.600*	160		111	7835.2998	
1	12756.874	1	14912.011	-	27668.890	-5	.	.	4.0-	5.0	.	.	.	0.496	1.312	816		-102	7836.7548	
	12756.597	0																	7836.9250	
1	12756.324	2	17615.482	-	30371.819	-13	.	.	2.0-	3.0	.	.	.	1.450	0.640	810	-232	-225	7837.0927	
2	12756.030	1	31197.285	-	43953.290	25	.	.	0.5-	1.9	.	.	.	0.776	1.510	734			7837.2734	
	12755.819	1																	7837.4030	
1	12755.492	1	23281.721	-	36037.220	-7	.	.	5.0-	5.0	.	.	.	1.235	1.155	80	-		7837.6039	
1	12755.124	3P	20709.458	-	33464.592	-10	.	.	3.0-	4.0	.	.	.	1.240	0.000*	0	-	-16	7837.8301	
1	12754.308	2	20425.711	-	33180.043	-24	.	.	1.0-	2.0	.	.	.	1.340	1.790*	450		48	7838.3315	
1	12754.080	2	15424.387	-	28178.473	-6	.	.	3.0-	3.0	.	.	.	1.106	0.000*	0		-376	7838.4716	
2	12753.642	2	29040.245	-	16286.582	-21	1.5-	0.5	1.5-	0.5	1.444-	0.127	1571	1.447-	0.122	1569	322	322	7838.7408	
1	12752.021	1	29356.804	-	16604.786	3	.	.	5.0-	6.0	.	.	.	1.190	0.950*	240		84	7839.7373	
1	12751.039	1	16155.109	-	28906.150	-2	.	.	5.0-	5.0	.	.	.	0.948	1.105	157	-225	-226	7840.3410	
1	12750.255	0	27334.422	-	40084.697	-20	.	.	7.0-	6.0	.	.	.	1.240	1.510*	270		-57	7840.8231	
	12749.286	4									1.36	.	.15				-235		7841.4191	f 2J06
1	12748.550	0	25064.653	-	37813.200	3	.	.	3.0-	2.0	.	.	.	0.980	0.955	25		10	7841.8718	
1	12748.307	1	16883.969	-	29637.242	-26	.	.	6.0-	6.0	.	.	.	1.098	1.020	78		-206	7842.0213	
	12747.617	1																	7842.4457	
1	12747.119	2	30319.724	-	17572.608	3	.	.	3.0-	2.0	.	.	.	1.010	0.555	455		87	7842.7521	
	12746.986	1																	7842.8340	
1	12746.119	5	17045.776	-	4299.659	2	.	.	1.0-	2.0	1.47	1.48	.01	1.474	1.482	8	-082	-85	7843.3674	
2	12745.648	0	31507.220	-	18761.580	8	.	.	4.5-	5.5	.	.	.	1.130	1.296	166		244	7843.6573	
	12745.339	0																	7843.8474	
1	12744.506	2	20065.327	-	32809.844	-11	.	.	3.0-	4.0	.	.	.	0.998	0.900	98	-214	-221	7844.3601	
	12743.423	0																	7845.0268	
1	12742.128	6	11840.715	-	24592.849	-6	3.0-	2.0	3.0-	2.0	.816	.653	.163	0.811	0.640	171	-042	-43	7845.8241	
1	12741.818	1	24216.272	-	36958.090	0*	.	.	6.0-	5.0	.	.	.	1.005	1.000	5		-243	7846.0150	
1	12741.539	1	11747.245	-	24488.767	17	.	.	0.0-	1.0	.	.	.	0.000	0.000*	0		-326	7846.1868	
1	12740.729	3	19236.116	-	31976.844	1	.	.	7.0-	7.0	.	.	.	1.155	1.095	60	-179	-176	7846.6856	
	12740.230	0																	7846.9929	
1	12739.644	1	14692.549	-	27432.195	-2	.	.	2.0-	1.0	.	.	.	0.292	1.130*	838	-348	-354	7847.3539	
	12739.412	0																	7847.4968	
1	12738.955	0	22181.368	-	34920.315	8	.	.	3.0-	3.0	.	.	.	0.780	0.930*	150		-36	7847.7783	
2	12738.062	1	31255.945	-	18517.872	-11	.	.	1.5-	0.5	.	.	.	0.921	2.755	1834		297	7848.3285	
	12737.914	0																	7848.4197	
2	12737.272	3	28225.815	-	15488.530	-13	.	.	3.5-	3.5	.	.	.	1.200	1.057*	143	300	300	7848.8153	
	12735.584	3															067		7849.8556	
1	12733.463	5	18046.108	-	30779.585	-14	4.0-	3.0	4.0-	3.0	.694	.862	.168	0.694	0.860	166	049	41	7851.1631	
1	12732.437	0	20654.712	-	33387.151	-2	.	.	1.0-	2.0	.	.	.	0.200	1.288	1088		-26	7851.7958	
2	12731.869	1	29895.355	-	17163.470	-16	.	.	4.5-	4.5	.	.	.	1.150	1.200	50		375	7852.1461	
	12731.592	1																	7852.3169	
	12731.921	0																	7852.7308	
	12730.633	0																	7852.9084	
	12730.257	1																	7853.1404	
1	12730.071	1	33558.579	-	20828.475	-13	.	.	4.0-	4.0	.	.	.	1.059	0.352	707		-47	7853.2428	
	12729.882	0																	7853.3717	
	12729.424	0																	7853.6543	
2	12728.973	4	27162.335	-	14433.351	-11	1.5-	1.5	1.5-	1.5	1.045	1.925	.880	1.046	1.925	879	266	257	7853.9325	ISQ

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	12727.686	1															7854.7267	
1	12727.164	1C	20305.482-33033.638		8	..	4.0-3.0					1.123	0.910	213	-249	-257	7855.0489	
1	12726.632	1	22937.092-35563.728		-4	..	3.0-3.0					1.110	1.204*	94		-381	7855.3772	
1	12726.198	1	20385.328-33111.557		-31	..	2.0-2.0					1.911	1.315	596		69	7855.6451	
1	12725.302	2	28470.960-15745.648		-10	..	2.0-3.0					1.104	1.145	41	096	97	7855.1983	
1	12723.322	1	25064.653-37787.990		-15	..	3.0-4.0					0.980	1.260	280		-107	7857.4208	
1	12722.832	5	13726.661-26449.501		-8	..	3.0-3.0			.19		1.150	0.940*	210	-278	-278	7857.7235	PB
1	12721.221	1	15249.635-27970.881		-25	..	2.0-2.0					0.715	0.194	521	-212	-218	7858.7186	
1	12720.157	1	30025.300-47305.442		-1	..	2.0-2.0					1.120	0.000*	0		66	7859.3759	
1	12718.668	0	33390.950-20572.283		1*	..	3.0-2.0					1.050	1.430*	380		193	7860.2960	
2	12717.937	1	32893.805-20175.895		27	..	4.5-3.5					0.980	1.515*	535		400	7860.7478	
1	12717.223	0	12351.522-25068.751		-6	..	6.0-7.0					0.995	0.000*	0		-396	7861.1892	
1	12716.995	1	14853.317-27570.322		-10	..	4.0-3.0					0.786	1.265	479	-276	-275	7861.3301	
	12715.523	1				2.5-3.5			1.10	1.26	.16				140		7862.2402	
1	12714.394	0	30612.323-17897.917		-12	..	3.0-3.0					1.408	0.450	958		-318	7862.9383	
2	12713.316	1	31231.210-18517.872		-22	..	0.5-0.5					0.860	2.755*	1895		315*	7863.6051	
	12713.116	0															7863.7288	
1	12711.997	3	20043.465-32755.472		-10	5.0-4.0	5.0-4.0		.925	1.005	.080	0.925	1.005	80	-070	-79	7864.4210	SO
	12709.332	0															7866.0701	
1	12708.227	2	16520.962-29229.190		-1	..	5.0-4.0					0.736	1.480*	744	-192	-192	7866.7540	
1	12707.206	1	19865.603-32572.811		-2	..	4.0-5.0					1.100	1.010*	90	-252	-250	7867.3861	
	12706.507	1															7867.8189	
1	12706.226	2	20990.654-33696.921		-11	..	5.0-6.0					1.308	1.100*	208		-57	7867.9929	
1	12705.802	2	19203.415-31909.212		5	..	2.0-1.0					1.021	0.888	133		-34	7868.2555	
1	12704.657	4	15856.888-28561.548		-3	1.0-2.0	1.0-2.0	1.10	.78	.32		1.103	0.784	319		-113	7868.9646	SO
1	12704.433	5	13726.661-26431.101		-7	3.0-3.0	3.0-3.0	1.150	.796	.354		1.150	0.807	343	-261	-262	7869.1034	PB
1	12703.646	1W	17500.977-30204.635		-12	..	1.0-1.0					2.258	0.590*	1668		-71	7869.5908	
1	12703.214	2	19236.116-31939.345		-15	..	7.0-6.0					1.155	1.200*	45	-345	-346	7869.8585	
1	12702.704	1W	23315.209-36017.900		13	..	2.0-1.0					1.335	0.910	425		-15	7870.1744	HAZY C2
1	12702.704	1W	17615.482-30318.195		-9	..	2.0-2.0					1.450	0.940	510		-164	7870.1744	HAZY C2
1	12702.065	2	19776.904-32478.986		-17	..	6.0-6.0					1.012	1.110	98	-305	-304	7870.5704	
	12700.528	1															7871.5229	
	12599.566	0															7872.1191	
1	12699.374	0	27491.196-40190.580		-10	..	2.0-2.0					1.345	0.920	425			7872.2381	
1	12699.128	0	27578.418-40277.550		-4*	..	5.0-5.0					1.120	1.125*	5			7872.3906	
1	12698.937	1	17615.482-30314.443		-24	..	2.0-3.0					1.450	1.140*	310	-234	-236	7872.5091	
	12698.793	1															7872.5983	
	12697.933	2													227		7873.1315	
	12697.038	0															7873.6865	
	12696.658	1															7873.9221	
1	12695.282	3	18346.917-31042.204		-5	2.0-3.0	2.0-3.0	1.50	1.00	.50		1.518	1.010	508	+	26	7874.7756	
	12695.091	1															7874.8941	
	12694.934	1															7874.9914	
	12694.610	0															7875.1924	
1	12693.858	0	15424.387-28118.262		-17	..	3.0-3.0					1.106	1.250*	144		-24	7875.6590	
	12693.630	2															7875.8004	
1	12693.577	2	21031.258-33724.837		-2	..	2.0-3.0					1.455	1.160	295		74	7875.8333	Q
2	12693.402	2	24790.905-12007.503		0	0.5-1.5	0.5-1.5	2.004-0.019	2023			2.025-0.019	2044		371	368	7875.9419	
1	12692.049	2W	21737.407-34429.460		-4	..	3.0-2.0					1.026	0.930*	96		20	7876.7815	HAZY C2
1	12692.049	2W	22518.312-35210.360		1	..	2.0-2.0					1.350	1.180*	170		11	7876.7815	HAZY C2
1	12687.936	7	13517.647-26205.589		-6	2.0-3.0	2.0-3.0	.887	.702	.185		0.892	0.701	191	-186	-186	7879.3349	
	12686.697	1															7880.1044	
1	12686.136	1	30462.625-17776.483		-6	..	1.0-2.0					1.250	0.565	685		50	7880.4529	
1	12685.573	7	14912.011-27597.590		-6	4.0-4.0	4.0-4.0	.493	.927	.434		0.496	0.930	434	065	67	7880.8026	
	12681.625	1															7883.2561	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	12680.783	5	13726.661-26407.449			-5	3.0-	2.0	3.0-	2.0	1.156	.980	.176	1.150	0.972	178	-209	-208	7883.7795	PB	
1	12679.419	3	16155.109-23834.535			-7	.	.	5.0-	5.0	.	.	.	0.948	0.978	30	-159	-159	7884.6276		
2	12679.017	6	26405.340-13726.318			-5	3.5-	2.5	3.5-	2.5	.856	.788	.068	0.852	0.784	68	315	315	7884.8776		
1	12676.791	4	18591.122-31267.919			-6	.	.	4.0-	3.0	.	.	.	0.965	1.080	115	-114	-106	7886.2622	ISQ	
1	12676.155	3	18602.505-31278.667			-7	.	.	6.0-	5.0	.	.	.	0.910	1.010*	100	114	115	7886.6579		
2	12675.741	1	34595.165-21919.400			-24	.	.	6.5-	7.5	.	.	.	1.160	1.345*	185		578	7886.9154		
1	12674.663	1	22889.053-35563.728			-12	.	.	4.0-	3.0	.	.	.	1.263	1.204	59	-384	-367	7887.5862		
	12672.616	1					351			7888.8603	
1	12672.217	2	22088.306-34760.532			-9	.	.	6.0-	6.0	.	.	.	1.060	1.140*	80		59	7889.1087		
	12671.699	1								7889.4312	
	12669.740	0								7890.6511	
1	12669.191	3	27415.500-40084.697			-6	.	.	5.0-	6.0	.	.	.	1.370	1.510*	140		-6	7890.9930	C2	
1	12669.191	3	22839.053-35558.235			9	.	.	4.0-	4.0	.	.	.	1.263	0.990	273		-177	7890.9930	C2	
	12668.120	5				78	.78		.	.					7891.6601	
	12667.746	1									7891.8931	
	12665.843	6				955	.955		.	.					7893.0789	2LNS
1	12665.843	6	10486.922-23152.755			10	1.0-	2.0	1.0-	2.0	.350	.575	.225	0.355	0.580	225	-394	-397	7893.0789	2LNS	
	12665.137	1									7893.5189	
1	12664.817	1	31521.279-18856.461			-1	.	.	4.0-	5.0	.	.	.	1.206	1.325	119		108	7893.7183		
	12664.275	2									7894.0561	
1	12663.921	3	19776.904-32440.827			-2	6.0-	6.0	6.0-	6.0	.	.	.105	1.012	1.120*	108	-246	-246	7894.2768		
1	12662.994	1	25371.962-35034.960			-4	.	.	6.0-	6.0	.	.		1.165	1.140	25		-30	7894.8547		
1	12662.418	1	20306.482-32968.906			-6	.	.	4.0-	4.0	1.12	1.12		1.123	1.115	8	-190	-189	7895.2138		
1	12660.033	1	22509.712-35169.790			5	.	.	5.0-	6.0	.	.		1.287	1.120*	167	-181	-184	7896.6700		
2	12659.193	3	29821.685-17163.470			-22	5.5-	4.5	5.5-	4.5	1.005	1.206	.20	1.005	1.200	195	369	369	7897.8491		
1	12657.855	1H	28482.680-41140.580			-35	.	.	6.0-	7.0	.	.		1.180	1.470*	290		-86	7898.0538	239B	
1	12657.301	0	34075.080-21417.765			-14	.	.	3.0-	4.0	.	.		0.975	0.802	173		-283	7898.4057		
	12657.119	2									7898.5193	
1	12655.098	1	33483.590-20828.475			-17	.	.	4.0-	4.0	.	.		1.022	0.352	670		52	7899.7806		
1	12653.570	2	20697.436-33351.007			-1	.	.	7.0-	6.0	.	.		1.250	1.240*	10		-41	7900.7346		
1	12652.886	2	22038.306-34741.198			-6	.	.	6.0-	5.0	.	.		1.060	1.070	10		21	7901.1617		
1	12652.568	0	30225.210-17572.608			-34	.	.	2.0-	2.0	.	.		1.300	0.555	745		116	7901.3603	CQ	
	12651.897	2									7901.7793	
1	12551.620	1	14292.176-26943.829			-33	.	.	5.0-	5.0	.	.		0.970	1.220	250		-236	7901.9524		
	12649.630	1									7903.1955	
	12649.289	5					4.5-	5.5	.	.	.976	1.134	.158	.	.					7903.4085	J 5565 Q
1	12648.316	3	20984.195-33632.520			-9	6.0-	5.0	6.0-	5.0	1.320	1.305	.015	1.319	1.305	14	-176	-172	7904.0165		
2	12647.711	0	29753.225-42400.935			1	.	.	3.5-	4.5	.	.		1.103	1.000*	103			7904.3946		
	12646.963	2				720	.	.					7904.8621	DJO 2JOG
	12646.329	0									7905.2584	
1	12645.743	6	19236.116-31881.871			-12	7.0-	7.0	7.0-	7.0	1.15	1.11	.04	1.155	1.120	35	-158	-159	7905.6247		
1	12644.903	3	22837.092-35482.018			-23	3.0-	3.0	3.0-	3.0	.	.	.574	1.110	1.679*	569	-281	-287	7906.1499		
1	12641.143	1	21515.136-34156.245			34	1.0-	1.0	1.0-	1.0	.	.	.13	1.180	1.305*	125	-241	-245	7908.5015	HVLQ	
2	12640.181	1	24659.305-37299.525			-39	.	.	4.5-	5.5	.	.		1.140	0.923*	217		-79*	7909.1034		
1	12639.932	1	20540.110-33180.043			-1	.	.	3.0-	2.0	.	.		0.830	1.790*	960	+	23	7909.2592		
1	12639.833	1	33380.841-20741.029			26	.	.	1.0-	2.0	.	.		1.810	0.000*	0		118*	7909.3181		
	12639.709	1									7910.0246	
1	12637.670	2	19059.958-31697.633			-5	5.0-	4.0	5.0-	4.0	1.375	1.182	.193	1.375	1.187	188	-127	-129	7910.6749		
	12636.704	0									7911.2796	
	12635.245	0									7911.5670	
	12635.636	0									7911.9483	
1	12633.415	0	21812.632- 9179.262			-5	.	.	4.0-	5.0	.	.		1.040	1.454	414		8	7913.3393		
1	12632.208	0	30204.810-17572.608			6	.	.	3.0-	2.0	.	.		1.215	0.555	660		123	7914.0954		
1	12631.792	0	26973.744-14341.947			-5	.	.	2.0-	2.0	.	.		1.210	0.852	358		247	7914.3560		
	12631.376	0									7914.6167	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	12630.669	2H									1.13	1.13							7915.0597	HAZY
1	12628.511	0	12322.613-24951.118		6	.	.	2.0-	3.0					1.036	0.840	196		-35	7916.4123	
	12628.020	3																	7916.7201	
1	12627.291	3	19281.917-31909.212		-4	2.0-	1.0	2.0-	1.0	1.840	.898	.942		1.822	0.888	934		-40	7917.1771	
	12626.353	2																	7917.7653	
	12625.171	1																	7918.5066	
1	12624.293	2	13726.661-26350.982		-28	.	.	3.0-	4.0					1.150	0.796	354		-147	7919.0573	
2	12624.122	4	16593.963-3969.846		5	2.5-	2.5	2.5-	2.5	.973	1.661	.688		0.983	1.670	687	162	155	7919.1646	
	12622.360	2																	7920.2700	
1	12621.658	4	18046.108-30667.769		-3	4.0-	4.0	4.0-	4.0	.698	1.263	.565		0.694	1.265	571	-048	-49	7920.7105	
	12619.971	0																	7921.7694	
1	12617.634	3	20769.512-33387.151		-5	2.0-	2.0	2.0-	2.0			.230		1.070	1.288*	218		-3	7923.2366	
1	12615.989	3	16734.151-29350.139		1	2.0-	3.0	2.0-	3.0	.93	.91	.02		0.928	0.910	18	-179	-179	7924.2697	
1	12615.069	6	9724.351-22339.429		-9	3.0-	2.0	3.0-	2.0	.438	1.045	.607		0.442	1.049	607	-171	-173	7924.8476	
	12614.218	0																	7925.3823	
	12613.604	0																	7925.7681	
1	12612.776	2	20934.195-33596.975		-4	6.0-	5.0	6.0-	5.0	1.315	1.320	.005		1.319	1.315	4	-222	-221	7926.2884	
1	12609.762	0	29914.927-17305.142		-23	.	.	3.0-	2.0					1.194	0.000*	0		49	7928.1829	
	12609.659	0																	7928.2477	
	12609.182	0																	7928.5476	
	12609.002	0																	7928.6608	
2	12607.950	5	24615.450-12007.503		3	1.5-	1.5	1.5-	1.5	1.008-0.022	1031			1.011-0.019	1030		426	426	7929.3224	
	12607.460	2H																	7929.6306	
1	12607.272	0	19496.402-32103.687		-13	.	.	3.0-	4.0					1.555	1.040	515		-198	7929.7488	
1	12606.955	0	16532.104-29139.061		-2	.	.	3.0-	2.0					0.300	0.000*	0	-178	-158	7929.9482	
1	12606.087	2	22377.599-34983.667		19	.	.	7.0-	7.0					1.076	1.060	16		-69	7930.4942	
	12604.299	1H																	7931.6192	HAZY
1	12603.720	0	20065.327-32669.040		7	.	.	3.0-	3.0					0.998	1.000*	2		-189	7931.9836	
	12603.191	0H																	7932.3165	
	12602.572	0																	7932.7061	
	12602.028	0																	7933.0486	
1	12601.655	0	16155.109-28756.769		-5	.	.	5.0-	5.0					0.948	1.165	217		-278	7933.2834	
2	12600.712	3	28887.310-16286.582		-16	0.5-	0.5	0.5-	0.5	.16	-0.12	.281		0.162-0.122	284		321	325	7933.8771	
1	12599.650	1	17045.776-29545.433		-7	.	.	1.0-	1.0					1.474	0.705	769		-26	7934.5458	
1	12597.766	0	26735.491-39333.250		7	.	.	2.0-	2.0					1.062	0.995	67			7935.7325	
1	12597.457	0	24012.505-36609.983		-21	.	.	6.0-	7.0					1.248	1.195	53		-137	7935.9271	
1	12596.899	2	22377.599-34974.486		12	.	.	7.0-	7.0					1.076	1.135	59	-160	-154	7936.2786	DJO
2	12596.507	0	32544.185-45140.685		7	.	.	3.5-	2.5					1.130	0.850	280			7936.5256	
	12596.126	2																	7936.7657	DJO
1	12595.119	1	18578.669-31173.814		-26	.	.	1.0-	1.0					1.932	0.450*	1482		72	7937.4002	
1	12595.015	1	19281.917-31876.909		23	.	.	2.0-	2.0					1.822	0.000*	0		-190	7937.4658	
1	12594.216	4	12159.465-24753.684		-3	4.0-	4.0	4.0-	4.0	.843	.975	.132		0.844	0.975	131	-177	-176	7937.9694	
	12592.982	2																	7938.7472	
	12592.759	1																	7938.8626	
1	12592.598	0	37073.910-24481.313		1	.	.	5.0-	6.0					1.160	0.000*	0		21	7938.9893	
1	12591.636	1	29914.927-17323.291		0	.	.	3.0-	4.0					1.194	1.250*	56		288	7939.5958	
	12591.319	2																	7939.7957	
2	12589.742	0	29753.225-17163.470		-13	.	.	3.5-	4.5					1.103	1.200	97		366	7940.7903	
1	12588.669	0	29193.490-16604.786		-35	.	.	6.0-	6.0					1.240	0.950*	290		-35	7941.4671	CQ
2	12588.040	0	27466.315-40054.350		5	.	.	1.5-	0.5					1.793	0.390	1403		-150*	7941.8639	
1	12586.782	0	22160.184-34746.981		-15	.	.	8.0-	8.0					1.230	0.000*	0		-76	7942.6577	
	12586.158	4								.85		.165							7943.0515	FDJ02J0G
1	12585.323	1	30361.813-17776.483		-7	.	.	2.0-	2.0					1.044	0.565	479		-122	7943.5785	
1	12584.639	0	31211.905-18627.281		15	.	.	1.0-	1.0					1.235	0.000*	0		154	7944.0102	
	12584.434	0																	7944.1396	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	12582.686	1	22083.306-34670.995			-3	.	.	6.0-	5.0	.	.	.	1.060	1.010*	50		17	7945.2433	
	12582.464	1					.	.			.	.	.						7945.3834	
1	12581.767	3	14292.176-25873.930			13	.	.	5.0-	6.0	.	.	.	0.970	1.125	155	-048	-48	7945.8236	
1	12580.239	0	20990.684-33570.935			-12	.	.	5.0-	4.0	.	.	.	1.308	1.130*	178		-160	7946.7887	
2	12579.903	4	24587.415-12007.503			-9	2.5-	1.5	2.5-	1.5	.299	0.022	.321	0.302	0.019	321	209	213	7947.0010	
1	12579.223	3	17045.776-29525.003			-4	.	.	1.0-	2.0	.	.	.	1.474	0.910*	564	079	79	7947.4306	
1	12578.044	3	16155.109-28733.159			-6	.	.	5.0-	4.0	.	.	.	0.948	1.035	87	-112	-108	7948.1755	
1	12577.220	5	15074.958-27652.180			-2	7.0-	6.0	7.0-	6.0	1.097	1.250	.153	1.097	1.250	153	-396	-396	7948.6962	
	12577.054	1					.	.			.	.	.						7948.8012	
1	12576.632	3	11747.245-24323.834			-7	.	.	0.0-	1.0	.000	.80	.	0.000	0.800*	0		-193	7949.0679	
	12576.117	0					.	.			.	.	.						7949.3934	
1	12575.913	2	13517.647-26093.563			-3	.	.	2.0-	1.0	.	.	.	0.892	0.082	974	-144	-142	7949.5223	
	12575.508	0					.	.			.	.	.						7949.7784	
	12575.377	0					.	.			.	.	.						7949.8612	
	12574.071	2					.	.			.	.	.						7950.6742	
	12571.735	1H					.	.			.	.	.						7952.1642	
1	12571.056	6	21600.100-34171.155			1	6.0-	5.0	6.0-	5.0	1.380	1.230	.150	1.390	1.230	160	-089	-89	7952.5938	
	12570.698	1					.	.			.	.	.						7952.8203	
1	12570.148	9	12351.522-24921.671			-1	6.0-	5.0	6.0-	5.0	.98	1.03	.05	0.995	1.034	39	-105	-108	7953.1682	F
	12568.912	0					.	.			.	.	.						7953.9503	
1	12568.009	3	21031.258-33599.280			-13	2.0-	2.0	2.0-	2.0	1.458	1.610	.152	1.455	1.606	151	+	28	7954.5218	
	12566.643	1					.	.			.	.	.						7955.3865	
1	12564.116	4	15406.760-27970.881			-5	1.0-	2.0	1.0-	2.0	.89	.21	.68	0.890	0.194	696	-144	-147	7956.9865	
1	12563.467	0	22429.984-34993.452			-1	.	.	4.0-	4.0	.	.	.	1.279	1.213	66		27	7957.3976	
	12562.431	0					.	.			.	.	.						7958.0538	
	12561.867	2H					.	.			.	.	1078						7958.4111	DJO 2JOG
1	12560.144	1	14763.705- 2203.606			45	.	.	1.0-	1.0	.	.	.	-0.066	1.495	1561	192	192	7959.5029	SIGMA*
	12559.924	2					.	.			.	.	.						7959.6423	
	12559.573	3					.	.			.	.	.						7959.8647	
	12559.218	5					.	.			.	.	.						7960.0897	DJO
2	12557.971	3	32830.320-20322.349			0*	.	.	5.5-	6.5	.	.	.	1.209	1.314	105	316	317	7960.8802	
1	12556.502	0	28832.853-16276.332			-19	.	.	2.0-	2.0	.	.	.	0.000	1.880*	0	203	205	7961.8115	
1	12555.794	5	33334.270-20828.475			-1	4.0-	4.0	4.0-	4.0	1.077	.358	.719	1.080	0.352*	728	-139	-139	7962.2605	
1	12555.043	1H	21337.573-33392.650			-34	.	.	4.0-	3.0	.	.	.	1.137	1.060	77		-160	7962.7367	HAZY
1	12554.219	2	18337.584-31451.814			-11	.	.	5.0-	4.0	.	.	.	1.280	1.080	200	-147	-146	7963.2594	
1	12553.951	1	22181.368-34735.314			5	.	.	3.0-	3.0	.	.	.	0.780	0.899*	119		-46	7963.4294	
2	12550.626	1	34651.175-47201.830			-29	.	.	3.5-	3.5	.	.	.	1.047	0.895	152			7965.5391	
	12549.990	0					.	.			.	.	.						7965.9428	
	12549.640	0					.	.			.	.	.						7966.1650	
2	12548.024	2	22799.695-35347.740			-21	.	.	4.5-	3.5	.	.	.	1.330	1.195*	135		-162	7967.1909	
	12547.599	2H					.	.			.	.	.						7967.4607	
2	12546.638	3	14561.607- 2014.966			-3	.	.	1.5-	1.5	.	.	.	1.149	1.881	732		262	7968.0710	
1	12546.514	1	15424.337-27970.881			20	.	.	3.0-	2.0	.	.	.	1.106	0.194	912		-211	7968.1498	
2	12546.253	2	34088.695-21542.435			-7	.	.	2.5-	2.5	.	.	.	1.340	1.279	61		258*	7968.3155	
2	12545.632	6	20044.005- 7498.364			-9	1.5-	2.5	1.5-	2.5	.823	1.316	.493	0.820	1.321	501	159	160	7968.7100	
1	12543.990	1	28289.640-15745.648			-2	.	.	3.0-	3.0	.	.	.	1.130	1.145*	15	219	217	7969.7531	
	12543.849	1					.	.			.	.	.						7969.8426	
2	12542.859	7	15778.634- 3235.770			-5	1.5-	0.5	1.5-	0.5	1.132	0.298	.834	1.133	0.299	834	189	184	7970.4717	
1	12540.824	1	18578.669-31119.494			-1	.	.	1.0-	2.0	.	.	.	1.932	0.814	1118		24	7971.7651	
2	12540.515	0	46141.340-33600.850			25	.	.	1.5-	2.5	.	.	.	0.960	1.263*	303			7971.9615	
	12540.320	0					.	.			.	.	.						7972.0855	
2	12538.140	3	28026.690-15483.530			-20	2.5-	3.5	2.5-	3.5	.	.	.265	1.320	1.057*	263		435	7973.4716	
	12536.736	1					.	.			.	.	.						7974.3645	
1	12536.250	0	22518.312-35054.565			-3	.	.	2.0-	3.0	.	.	.	1.350	0.998	352		31	7974.6737	
	12535.736	2					.	.			.	.	.						7975.0007	

C	HAVENUM:SER I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	12535.385	5	34077.830-21542.435	-10	1.5-	2.5	1.5-	2.5	1.643	1.278	.365	1.650	1.279	371	207	207*	7975.2240	
	12534.532	1H															7975.7667	
1	12533.734	3	20043.465-32577.204	-5	5.0-	4.0	5.0-	4.0	.93	.98	.05	0.925	0.980*	55	-045	-43	7976.2745	
1	12532.092	1	20330.616-33352.705	3	.	.	8.0-	7.0	.	.	.	1.110	1.140*	30	-198	-195	7977.3196	
1	12531.281	0	23037.432-35568.740	-27	.	.	1.0-	2.0	.	.	.	0.870	1.040	170		-243	7977.8359	
	12531.069	0															7977.9708	
1	12530.736	1	21227.793-33758.523	6	.	.	4.0-	5.0	.	.	.	1.346	0.830	516		-137	7978.1829	
1	12530.422	1	23274.859-35805.270	10	.	.	4.0-	5.0	.	.	.	1.604	1.075	529		97	7978.3828	C2
1	12530.422	1	26844.163-39374.580	5	.	.	4.0-	3.0	.	.	.	1.020	0.835	135			7978.3828	C2
2	12529.794	3	16499.640-3969.846	0	.	.	3.5-	2.5	.	.	.	0.773	1.670	897		119	7978.7827	
1	12529.340	6	20043.465-32572.811	-6	5.0-	5.0	5.0-	5.0	.925	1.010	.085	0.925	1.010*	85		-21	7979.0718	
	12529.122	0															7979.2106	
1	12528.894	0	19281.917-31810.821	-10	.	.	2.0-	2.0	.	.	.	1.822	0.865	957		-96	7979.3558	
2	12528.395	0	33189.610-45718.025	-20	.	.	2.5-	3.5	.	.	.	1.121	1.065	56			7979.6736	
1	12527.522	1	18147.975-30675.497	0	.	.	3.0-	2.0	.	.	.	1.049	0.375	674		-191	7980.2297	
1	12524.582	2	11840.715-24355.295	2	.	.	3.0-	3.0	.	.	.	0.811	1.475	664		-390	7982.1030	
1	12522.779	1	29299.312-16776.530	-3	.	.	1.0-	1.0	.	.	.	1.307	0.000*	0		161	7983.2522	
	12522.424	0															7983.4786	
1	12519.398	5	24090.570-35509.983	-15	7.0-	7.0	7.0-	7.0	1.130	1.195	.065	1.130	1.195	65	+	-1	7985.4082	
1	12518.474	4	17615.482-30133.953	3	2.0-	3.0	2.0-	3.0	1.450	1.205	.245	1.450	1.200*	250		-208	7985.9976	
2	12517.070	1	29556.550-17039.487	7	.	.	1.5-	1.5	.	.	.	0.484	1.354	870		207	7986.8934	
1	12516.304	0	24613.274-37129.590	-12	.	.	5.0-	5.0	.	.	.	1.160	1.010	150	+	15	7987.3822	
2	12515.789	5	28202.375-16286.582	-4	0.5-	0.5	0.5-	0.5	0.799	0.124	.923	0.800	0.122	922		614	7987.7109	
1	12515.586	2	22219.737-34735.314	9	.	.	4.0-	3.0	.	.	.	0.750	0.899	149		-21	7987.8404	
1	12514.370	0	21737.407-34251.764	13	.	.	3.0-	4.0	.	.	.	1.026	1.005	21		14	7988.6166	
2	12513.971	2	29259.700-16745.720	-9	1.5-	2.5	1.5-	2.5	.	.	.420	1.250	1.671	421		273	7988.8713	
1	12511.875	0	20065.327-32577.204	-2	.	.	3.0-	4.0	.	.	.	0.998	0.980*	18		-281	7990.2096	
	12511.436	0															7990.4900	
	12510.166	0															7991.3012	
	12509.493	0															7991.7311	
	12508.672	0B															7992.2556	
1	12508.199	3	19558.257-32066.452	4	2.0-	2.0	2.0-	2.0	-0.145	.905	1050	-0.145	0.910*	1055		-14	7992.5578	
1	12507.730	1	31046.528-18538.782	-16	2.0-	2.0	2.0-	2.0	1.48	1.60	.12	1.480	1.600*	120	117	109	7992.8575	
1	12507.480	0	19203.415-31710.912	-17	.	.	2.0-	2.0	.	.	.	1.021	0.200	821			7993.0173	
1	12505.847	2	29810.974-17305.142	15	.	.	3.0-	2.0	.	.	.	1.184	0.000*	0		-112	7994.0610	
	12504.965	2															7994.6249	
	12504.353	0															7995.0162	
1	12504.079	0	29108.265-16604.786	0	.	.	5.0-	6.0	.	.	.	1.210	0.950*	260		-25	7995.1913	
1	12503.365	1C	20306.482-32809.844	3	.	.	4.0-	4.0	.	.	.	1.123	0.900	223		-207	7995.6479	
	12502.850	0															7995.9773	
	12502.694	0															7996.0770	
1	12501.874	3	33174.265-20672.390	-1	.	.	2.0-	1.0	.	.	.	0.864	0.000*	0		195	7996.6015	
	12501.477	0															7996.8554	
	12501.302	2															7996.9674	
1	12500.385	1	22219.737-34720.110	12	.	.	4.0-	4.0	.	.	.	0.750	1.030	280		-249	7997.5540	
1	12499.466	3	12159.465-24658.931	0	4.0-	4.0	4.0-	4.0	.	.	.244	0.844	1.080	236		-063	7998.1420	
1	12499.121	1H	22982.904-35482.018	7	.	.	2.0-	3.0	.	.	.	1.257	1.679	422		-266	7998.3628	Hazy
1	12498.316	5	19074.292-31572.610	-2	2.0-	1.0	2.0-	1.0	1.532	2.395	.863	1.532	2.403	871	+	-4	7998.8780	
2	12498.098	2	20952.550-33450.655	-7	.	.	1.5-	2.5	.	.	.	0.350	0.941	591		-75	7999.0175	
1	12496.722	3	20306.432-32303.199	5	4.0-	3.0	4.0-	3.0	.	.	.313	1.123	0.825	298		-145	7999.8983	
1	12495.181	3	21263.339-33758.523	-3	5.0-	5.0	5.0-	5.0	.610	.829	.219	0.610	0.830*	220	+	36	8000.8849	
	12494.668	1															8001.2134	
	12493.620	4									.50						8001.8845	DJO 2JOG
1	12493.374	4	15249.635-27743.009	0	2.0-	2.0	2.0-	2.0	.720	.576	.144	0.715	0.568	147		-35	8002.0421	
	12492.923	0															8002.3310	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	12492.741	0																8002.4476		
	12491.647	0																8003.1484		
1	12488.947	0	14692.549-	2203.606	4	.	.	2.0-	1.0	.	.	.	0.292	1.495	1203		192	8004.8786		
1	12488.511	7	16520.962-	29009.483	-10	.	.	5.0-	4.0	.74	.70	.04	0.736	0.695	41	042	37	8005.1581		
1	12487.887	1	18963.921-	31451.814	-6	.	.	4.0-	4.0	.	.	.	1.251	1.080	171		-129	8005.5581		
1	12487.683	3	29810.974-	17323.291	0	3.0-	4.0	3.0-	4.0	1.185	1.250	.065	1.184	1.250*	66	082	122	8005.6889	ISQ	
1	12485.853	4	26163.752-	13677.903	4	0.0-	1.0	0.0-	1.0	.000	1.45	.	0.000	1.442	0	052	47	8006.8622		
1	12485.126	2	17911.977-	30397.106	-3	.	.	5.0-	5.0	.	.	.	1.145	1.005	140	-114	-115	8007.3285		
1	12484.236	4	18602.505-	31086.744	-3	6.0-	5.0	6.0-	5.0	.	.	.118	0.910	0.795	115	196	194	8007.8993		
1	12483.076	2	17911.977-	30395.062	-9	5.0-	4.0	5.0-	4.0	.	.	.225	1.145	0.920	225	-194	-192	8008.6435		
	12482.904	1																8008.7538		
1	12480.557	0	22889.053-	35369.610	0	.	.	4.0-	5.0	.	.	.	1.263	1.120*	143		-139	8010.2599		
1	12479.605	1	18597.584-	31377.193	-4	.	.	5.0-	4.0	.	.	.	1.280	0.973	307	-203	-203	8010.8710		
1	12478.915	6	13726.661-	26205.589	-13	3.0-	3.0	3.0-	3.0	1.149	.700	.449	1.150	0.701	449	-200	-199	8011.3139		
	12478.444	0																8011.6163		
1	12477.355	0	16532.104-	29009.483	-14	.	.	3.0-	4.0	.	.	.	0.300	0.695	395		33	8012.3091		
2	12476.972	5	24276.225-	11799.241	-12	6.5-	5.5	6.5-	5.5	1.43	1.37	.06	1.430	1.373*	57	198	198	8012.5615		
	12476.603	3																8012.7985		
	12475.837	2H																8013.2904	VHAZY	
2	12475.330	4	26201.645-	13726.318	3	.	.	2.5-	2.5	.	.	.	1.036	0.784	252	438	433	8013.6161		
1	12473.592	3	28749.920-	16276.332	4	.	.	2.0-	2.0	.	.	.	1.480	1.880*	400	250	254	8014.7327		
1	12473.421	2	20877.600-	33351.007	14	.	.	7.0-	6.0	.	.	.	1.060	1.240*	180		184	8014.8426		
	12471.466	0																8016.0990		
1	12469.132	2	28214.784-	15745.648	-4	3.0-	3.0	3.0-	3.0	.906	1.145	.239	0.905	1.145	240	165	166	8017.5994		
2	12466.201	4	29630.290-	17163.470	-19	5.5-	4.5	5.5-	4.5	1.13	1.20	.07	1.130	1.200*	70	285	285	8019.0985		
	12465.879	0																8019.6917		
	12465.137	2																-408	8020.1690	
1	12464.402	0	28210.060-	15745.648	-10	.	.	2.0-	3.0	.	.	.	0.865	1.145	280		135	8020.6420		
	12464.184	0																8020.7823		
	12462.194	2																044	8022.0630	
	12461.799	0																	8022.3173	
1	12461.371	0	17911.977-	30373.329	19	.	.	5.0-	4.0	.	.	.	1.145	1.345	200		-313	8022.5929		
1	12460.744	0	12177.963-	24638.713	-6	.	.	1.0-	2.0	.	.	.	0.525	0.000*	0		-405	8022.9965		
	12460.386	0																	8023.2270	
	12459.837	1																033	8023.5806	
	12459.358	0																	8023.8890	
1	12458.339	2	14853.317-	27311.658	-2	.	.	4.0-	5.0	.	.	.	0.786	1.035	249		-9	8024.5453		
1	12457.387	2	16888.909-	29346.299	-3	.	.	6.0-	7.0	.	.	.	1.098	1.200*	102	-064	-72	8025.1586		
1	12456.376	1H	26301.732-	38758.100	8	.	.	5.0-	5.0	.	.	.	1.060	1.530*	470	-098	-92	8025.8099	VHAZY	
	12455.498	0																	8026.3757	
1	12455.249	0	23909.585-	36364.850	-16	.	.	5.0-	4.0	.	.	.	1.242	1.080*	162		-97	8026.5361		
	12452.978	0																	8027.9999	
2	12452.021	3	29197.755-	16745.720	-14	2.5-	2.5	2.5-	2.5	.983	1.662	.679	0.989	1.671	682	354	344	8028.6169		
1	12451.076	2H	18591.122-	31042.204	-6	4.0-	3.0	4.0-	3.0	.965	1.010	.045	0.965	1.010	45	-068	-70	8029.2263		
1	12450.412	0	19426.512-	31876.909	15	.	.	3.0-	2.0	.	.	.	1.435	0.000*	0		-111	8029.6545		
1	12449.855	1	19594.767-	32044.652	-30	.	.	0.0-	1.0	.	.	.	0.000	0.800	0		139	8030.0137		
1	12448.692	7	15074.953-	27523.650	0	7.0-	6.0	7.0-	6.0	1.097	1.080	.017	1.097	1.080	17	-117	-119	8030.7639	F	
1	12448.263	0	16734.151-	29182.445	-31	.	.	2.0-	1.0	.	.	.	0.928	0.000*	0		-177	8031.0407		
	12447.767	0																	8031.3607	
1	12447.091	3	11840.715-	24287.814	-8	3.0-	3.0	3.0-	3.0	.	.	.219	0.811	0.585	226		-175	8031.7969		
1	12446.607	8	18591.122-	6144.515	0	4.0-	3.0	4.0-	3.0	.970	1.475	.505	0.965	1.473	508	170	171	8032.1092	F	
	12445.124	0																	8033.0663	
	12444.835	0																	8033.2529	
2	12444.729	3	23171.032-	10726.322	19	4.5-	4.5	4.5-	4.5	1.24	1.39	.150	1.240	1.391*	151	187	187	8033.3213		
1	12442.905	4	20830.616-	33273.528	-7	8.0-	7.0	8.0-	7.0	1.105	1.070	.035	1.110	1.070*	40	-235	-234	8034.4989		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
2	12441.511	1	32763.860	-	20322.349	0	.	.	6.5-	6.5	.	.	.	1.210	1.314*	104	.	.	8035.3991		
1	12440.857	6	16532.104	-	28972.971	-10	3.0-	2.0	3.0-	2.0	.314	.810	.496	0.300	0.794	494	.	3	8035.8215		
	12440.543	1					.	.	.	.	.	.	.	.	.	.	.	.	8036.0244	
1	12439.374	1	19865.603	-	32304.979	-2	.	.	4.0-	4.0	.	.	.	1.100	0.990*	110	.	-292	8036.7796	C2	
1	12439.374	1	18963.921	-	31403.302	-7	.	.	4.0-	5.0	.	.	.	1.251	1.205	46	.	-289	8036.7796	C2	
1	12439.005	2	20043.465	-	32482.465	5	5.0-	4.0	5.0-	4.0	.	.	.415	0.925	1.330*	405	-116	-108	8037.0180		
2	12435.133	5	26162.460	-	13726.318	-9	1.5-	2.5	1.5-	2.5	0.72	0.78	.06	0.710	0.784*	74	419	421	8038.8741		
	12435.706	1					.	.	.	.	.	.	.	.	.	.	.	.	8039.1501	
1	12435.515	1	20043.465	-	32478.986	-6	.	.	5.0-	6.0	.	.	.	0.925	1.110	185	-072	-61	8039.2736		
1	12434.494	8	16734.151	-	4299.659	2	2.0-	2.0	2.0-	2.0	0.930	1.482	.552	0.928	1.482	554	173	175	8039.9337	IS* F	
1	12432.665	2	18346.917	-	30779.585	-3	.	.	2.0-	3.0	.	.	.	1.518	0.860	658	-069	-77	8041.1165		
2	12430.941	1	20044.005	-	32474.965	-19	.	.	1.5-	1.5	.	.	.	0.820	1.150*	330	058	56*	8042.2316		
2	12429.366	2	28715.955	-	16236.582	-17	1.5-	0.5	1.5-	0.5	.875	-0.125	1.00	0.875	-0.122	997	403	405	8043.2507		
1	12428.890	4	16304.260	-	28733.159	-9	4.0-	4.0	4.0-	4.0	1.285	1.035	.250	1.285	1.035	250	-109	-112	8043.5528		
	12428.100	1					049		8044.0701	
	12427.228	0						8044.6345	
	12426.370	0						8045.1900	
	12424.803	0						8046.2014	
1	12423.749	0	18591.122	-	31014.877	-6	4.0-	4.0	4.0-	4.0	.965	1.174	.209	0.965	1.170	205	-121	-119	8046.8872		
	12423.311	0						8047.1710	
1	12421.989	0	27705.804	-	40127.800	-7*	.	.	5.0-	4.0	.	.	.	1.160	1.020*	140	.	.	8048.0274	C2	
1	12421.989	0	25100.538	-	37522.600	-13	.	.	2.0-	3.0	.	.	.	1.430	1.260*	170	.	.	8048.0274	C2	
1	12421.201	0	30319.724	-	17897.917	-6	.	.	3.0-	3.0	.	.	.	1.010	0.450	560	.	-327	8048.1492		
1	12420.836	4	21600.100	-	9179.262	-2	6.0-	5.0	6.0-	5.0	1.38	1.45	.07	1.390	1.454	64	192	192	8048.7745		
	12419.998	0					-230		8049.3175	
	12416.831	0						8051.3706	
	12415.820	0						8052.0262	
1	12415.276	2	18046.108	-	30461.399	-15	4.0-	5.0	4.0-	5.0	.69	.99	.30	0.694	0.990	296	040	32	8052.3790		
2	12414.355	1	43370.680	-	30956.365	40	.	.	2.5-	2.5	.	.	.	1.265	0.646	619	+		8052.9764		
1	12414.143	1	28590.482	-	16276.332	-7	1.0-	2.0	1.0-	2.0	1.186	1.879	.692	1.195	1.880*	685	237	234	8053.1139		
	12413.896	0						8053.2742	
1	12413.288	0	18963.921	-	31377.193	16	.	.	4.0-	4.0	.	.	.	1.251	0.973	278	.	-186	8053.6686		
	12412.735	0						8054.0274	
1	12412.136	3	22088.306	-	34500.445	-3	6.0-	6.0	6.0-	6.0	1.060	1.036	.024	1.060	1.030	30	.	-9	8054.4161		
1	12411.781	2	33829.570	-	21417.765	-24	.	.	5.0-	4.0	.	.	.	1.175	0.802	373	.	-295	8054.6465		
1	12408.040	3	15424.387	-	27832.430	-3	3.0-	4.0	3.0-	4.0	1.10	.92	.18	1.106	0.920	186	-042	-83	8057.0749		
	12406.828	0					+		8057.8230	
	12406.613	0						8058.0017	
	12405.843	0						8058.5018	
1	12405.469	1	27334.422	-	39739.870	21*	.	.	7.0-	6.0	.	.	.	1.240	1.140*	100	+	-25	8058.7447		
1	12404.888	3	12177.963	-	24582.849	-2	1.0-	2.0	1.0-	2.0	.52	.64	.12	0.525	0.640	115	-038	-41	8059.1222		
1	12403.783	2	22176.323	-	9772.532	-3	1.0-	0.0	1.0-	0.0	1.21	.000	.	1.210	0.000*	0	-059	-49	8059.8369		
	12402.969	2					-147		8060.3691	
1	12402.090	4	20709.458	-	33111.557	-9	3.0-	2.0	3.0-	2.0	1.240	1.315	.075	1.240	1.315	75	.	43	8060.9404	SO	
1	12401.434	5	16823.909	-	29290.355	-12	6.0-	6.0	6.0-	6.0	1.105	.920	.185	1.098	0.920	178	-202	-201	8061.3668		
1	12400.891	0	17615.482	-	30016.377	-4	.	.	2.0-	2.0	.	.	.	1.450	1.140	310	.	-263	8061.7198		
1	12400.707	0	20709.458	-	33110.165	0	.	.	3.0-	4.0	.	.	.	1.240	1.220*	20	.	-23	8061.8394		
2	12400.176	0	19277.180	-	31677.390	-34	.	.	3.5-	2.5	.	.	.	0.847	0.675	172	.	-29	8062.1846		
1	12399.398	0	24437.792	-	36837.190	0*	.	.	4.0-	5.0	.	.	.	1.500	0.965*	535	.	.	8062.6905		
2	12399.128	1	33457.050	-	21057.925	3	3.5-	2.5	3.5-	2.5	.	.	.590	1.002	1.590	588	229	228	8062.8661		
	12398.247	1B					076		8063.4390	
	12397.842	0						8063.7024	
1	12397.249	4	19074.292	-	31471.542	-1	2.0-	1.0	2.0-	1.0	1.54	2.20	.66	1.532	2.188	656	099	96	8064.0881		
2	12396.666	2	26330.020	-	14433.351	-3	0.5-	1.5	0.5-	1.5	.	.	2.01	-0.097	1.925	2022	348	350	8064.4674		
1	12396.207	1	18147.975	-	30544.187	-5	3.0-	3.0	3.0-	3.0	.	.	.11	1.049	0.946	103	.	-161	8064.7660		

C	HA	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	G6	G2	G1	G6	IS	IS			
1	12393.	953	0	19426.512	-	31820.494	-29	.	.	3.0-	4.0	.	.	.	1.435	1.240	195	.	-200	8066.2327		
1	12393.	539	3	26735.491	-	14341.947	-5	2.0-	2.0	2.0-	2.0	1.07	.86	.21	1.062	0.852	210	297	294	8066.5021		
1	12392.	493	6	19236.116	-	31628.619	-10	7.0-	6.0	7.0-	6.0	1.158	1.110	.048	1.155	1.110	45	-164	-161	8067.1830		
1	12390.	683	1	21600.100	-	33990.730	8	.	.	6.0-	6.0	.	.	.	1.390	0.920*	470	.	-167	8068.3582		
1	12390.	513	1	11840.715	-	24231.226	2	.	.	3.0-	2.0	.	.	.	0.811	0.411	400	.	-76	8068.4721		
1	12388.	422	2	20540.110	-	32928.540	-8	3.0-	2.0	3.0-	2.0	.824	1.076	.252	0.830	1.060*	230	+	24	8069.8340		
	12387.	750	1					8070.2717	
	12387.	420	0					8070.4867	
1	12387.	270	1	21337.573	-	33724.837	6	.	.	4.0-	3.0	.	.	.	1.137	1.160	23	.	-182	8070.5845		
1	12385.	184	4	16520.962	-	28905.150	-2	5.0-	5.0	5.0-	5.0	.74	1.12	.38	0.736	1.105	369	.	-12	8071.9425		
1	12384.	870	0	23207.126	-	35591.995	1	.	.	8.0-	8.0	.	.	.	1.135	1.105	30	.	24	8072.1484		
	12384.	436	1					-299	.	.	8072.4313	
	12383.	940	1C					8072.7546	HAZY
2	12383.	395	1C	32210.400	-	19227.020	15	.	.	2.5-	1.5	.	.	.	1.339	1.733	394	.	315	8073.1099	C2	
1	12383.	395	1C	34093.140	-	21709.745	0	.	.	3.0-	3.0	.	.	.	1.053	0.980	73	.	-245	8073.1099	C2	
	12383.	096	1H					-124	.	.	8073.3049	
	12381.	725	0					8074.1988	
2	12379.	852	1	24387.350	-	12007.503	-5	.	.	1.5-	1.5	.	.	.	0.955	0.019	974	505	575	8075.4204		
1	12378.	500	1	20984.195	-	33362.705	-10	.	.	6.0-	7.0	.	.	.	1.319	1.140*	179	.	-190	8076.3024		
1	12377.	858	3	16595.109	-	28972.971	-4	3.0-	2.0	3.0-	2.0	1.00	.80	.20	0.999	0.794	205	-170	-168	8076.7213		
1	12377.	208	0	19865.603	-	32242.810	1	.	.	4.0-	5.0	.	.	.	1.100	1.215	115	.	-304	8077.1454		
1	12376.	686	1	23814.130	-	36190.820	-4	.	.	6.0-	5.0	.	.	.	0.890	1.030	140	.	-	8077.4861		
	12376.	152	2					+	.	.	8077.8346	
	12375.	054	1					8078.5514	
	12374.	240	2					-135	.	.	8079.0828	
	12373.	556	0					8079.5294	
1	12372.	575	0	22176.323	-	34548.900	-2	.	.	1.0-	2.0	.	.	.	1.210	0.850*	360	.	62	8080.1700		
1	12371.	977	0	25662.969	-	38034.960	-14	.	.	5.0-	6.0	.	.	.	1.330	1.140*	190	.	-211	8080.5606		
	12370.	790	0					-186	.	.	8081.3359	
	12370.	067	1					8081.8082	
1	12369.	935	1	16834.379	-	29204.308	6	5.0-	5.0	5.0-	5.0	.	.	.061	0.961	0.896	65	-208	-196	8081.8945		
	12369.	536	1				834	.	.	.	-128	.	.	8082.9393	DJO 2J06
	12367.	765	1					+	.	.	8083.3511	
	12366.	253	1					-070	.	.	8084.3009	
	12365.	649	0					8084.6957	
	12363.	600	0					-144	.	.	8086.0356	
	12362.	720	1					+	.	.	8086.6112	
	12361.	260	0					8087.5663	
1	12360.	942	1	20043.465	-	32404.416	-9	5.0-	5.0	5.0-	5.0	.925	1.055	.130	0.925	1.055	130	075	76	8087.7744		
1	12360.	312	1	20990.684	-	33351.007	-11	.	.	5.0-	6.0	.	.	.	1.308	1.240*	68	.	-28	8088.1866	DJO CQ	
2	12359.	868	3	29523.355	-	17163.470	-17	5.5-	4.5	5.5-	4.5	1.165	1.185	.020	1.165	1.200	35	332	332	8088.4772		
	12356.	741	4					3.0-	2.0	.	.	.844	1.052	.208	.	.	.	-189	.	.	8090.5240	
1	12355.	884	1	21031.258	-	33387.151	-9	.	.	2.0-	2.0	.	.	.	1.455	1.288	167	+	25	8091.0852		
1	12353.	456	2	17500.977	-	29854.442	-9	1.0-	1.0	1.0-	1.0	.	.	1082	2.258	1.180*	1078	-124	-123	8092.6755		
2	12352.	998	1	22541.470	-	10188.463	-9	.	.	1.5-	0.5	.	.	.	0.420	2.402*	1982	.	113	8092.9755		
1	12352.	740	0	21218.180	-	33570.935	-15	.	.	3.0-	4.0	.	.	.	0.860	1.130*	270	.	-151	8093.1445		
	12352.	357	0					8093.3955	
1	12350.	969	3	19558.257	-	31909.212	14	2.0-	1.0	2.0-	1.0	.	.	1002	-0.145	0.888	1033	175	173	8094.3050	2 LNS	
1	12350.	959	3	18046.108	-	30397.106	-29	4.0-	5.0	4.0-	5.0	.71	1.02	.31	0.694	1.005	311	125	117	8094.3050	2 LNS	
	12349.	560	5					5.5-	6.5	.	.	.81	.99	.175	.	.	.	055	.	.	8095.2285	JQ SI
	12349.	122	0					8095.5156	
1	12348.	947	0	18591.122	-	30940.068	1	.	.	4.0-	5.0	.	.	.	0.965	1.080	115	.	-73	8095.6304		
	12347.	721	0					8096.4342	
2	12347.	375	1	26643.435	-	38990.840	-30	.	.	5.5-	4.5	.	.	.	1.420	1.105*	315	.	-188	8096.6611		
1	12347.	087	1	28951.847	-	16604.786	26	.	.	5.0-	6.0	.	.	.	1.290	0.950*	340	-076	-83	8096.8499	CQ	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	12346.555	0																	8097.1988	
1	12345.967	2	13726.661	-	26072.627	1	3.0-	2.0	3.0-	2.0	.	.	.342	1.150	1.500*	350	+369	-368	8097.5845	
	12345.498	2																	8097.8921	
	12345.199	3																	8098.0882	
1	12344.813	0	24613.274	-	36958.090	-3*	.	.	5.0-	5.0	.	.	.	1.160	1.000	160		-61	8098.3414	
2	12344.295	2	26070.615	-	13726.318	-2	3.5-	2.5	3.5-	2.5	1.125	.790	.335	1.119	0.784	335	352	352	8098.6813	
	12343.108	0																	8099.4601	
1	12342.433	3	25870.685	-	13528.246	-6	2.0-	1.0	2.0-	1.0	1.180	-0.590	1770	1.170	-0.590*	1760	156	156	8099.9030	
1	12341.838	6	16155.109	-	28496.950	-3	5.0-	4.0	5.0-	4.0	.948	.819	.129	0.948	0.810	138	-201	-201	8100.2935	
2	12341.519	1	27830.060	-	15438.530	-11	.	.	2.5-	3.5	.	.	.	1.216	1.057	159		321	8100.5029	
2	12339.465	1	27828.005	-	15488.530	-10	.	.	4.5-	3.5	.	.	.	1.410	1.057*	353		384	8101.8513	
1	12338.422	9	6313.866	-	18652.287	1	4.0-	3.0	4.0-	3.0	.490	.825	.335	0.487	0.822	335	-133	-134	8102.5362	F
1	12337.560	3	18602.505	-	30940.068	-3	.	.	6.0-	5.0	.	.	.	0.910	1.080	170	133	140	8103.1023	
1	12336.861	0	20984.195	-	33321.067	-11	.	.	6.0-	5.0	.	.	.	1.319	1.200*	119		-195	8103.5614	
1	12336.247	7	15406.760	-	27743.009	-2	1.0-	2.0	1.0-	2.0	.888	.568	.320	0.890	0.568	322	040	36	8103.9647	PB F
2	12334.007	3	31000.010	-	18666.006	3	1.5-	2.5	1.5-	2.5	1.670	1.365	.305	1.669	1.365	304	296	295	8105.4365	
2	12333.297	1	26766.650	-	14433.351	-2	2.5-	1.5	2.5-	1.5	.	.	.877	1.058	1.925	867	337	338	8105.9031	
1	12331.748	0	23281.721	-	35613.490	-21	.	.	5.0-	5.0	.	.	.	1.235	1.090*	145		-50	8106.9213	
	12331.417	0																	8107.1389	
	12330.900	0																	8107.4789	
1	12330.602	0	20306.482	-	32637.106	-22	.	.	4.0-	3.0	.	.	.	1.123	0.820*	303		-165	8107.6748	
2	12330.334	1	24337.845	-	12007.503	-8	2.5-	1.5	2.5-	1.5	.896	-0.024	.920	0.900	-0.019	919	408	408	8107.8510	
	12330.144	1											.93						8107.9760	DJO 2JOG
	12328.737	0																	8108.9013	
	12328.389	0																	8109.1302	
1	12327.207	1	18046.108	-	30373.329	-14	.	.	4.0-	4.0	.	.	.	0.694	1.345	651		-81	8109.9077	
	12326.674	1															270		8110.2584	
1	12325.703	6	18046.108	-	30371.819	-8	4.0-	3.0	4.0-	3.0	.695	.645	.050	0.694	0.640	54	-053	-58	8110.8973	
2	12325.089	2	33867.535	-	21542.435	-11	.	.	1.5-	2.5	.	.	.	1.670	1.279*	391	324	327	8111.3014	
	12324.590	0																	8111.6298	
1	12324.167	2H	20709.458	-	33033.638	-13	3.0-	3.0	3.0-	3.0	.	.	.330	1.240	0.910	330	-032	-36	8111.9082	HAZY
	12322.949	1															311		8112.7100	
	12322.727	1															-174		8112.8561	
	12322.056	0																	8113.2979	
	12321.526	2					3.5-	4.5			1.328	1.490	.162						8113.6469	JQ 2LNSQ
1	12321.526	2	26633.286	-	38954.840	-28	.	.	1.0-	2.0	.	.	.	1.124	1.020*	104	143		8113.6469	CQ 2LNSQ
	12320.958	0																	8114.0144	
	12319.339	0																	8115.0873	
	12319.107	0																	8115.2401	
1	12318.621	4	15424.387	-	27743.009	-1	3.0-	2.0	3.0-	2.0	1.10	.595	.505	1.106	0.568	538	-034	-28	8115.5603	
1	12316.023	3	33144.500	-	20828.475	-2	.	.	4.0-	4.0	.	.	.	1.052	0.352	700	-084	-77*	8117.2722	
1	12315.390	6	16838.909	-	29204.303	-9	6.0-	5.0	6.0-	5.0	1.093	.891	.202	1.098	0.896	202	-224	-221	8117.6895	
1	12314.408	4	19456.402	-	31810.821	-11	.	.	3.0-	2.0	.	.	.	1.555	0.865	690	-128	-130	8118.3368	
1	12313.568	6	16520.962	-	28334.535	-5	5.0-	5.0	5.0-	5.0	.745	.985	.240	0.736	0.978	242	048	55	8118.8906	
	12311.626	1																	8120.1713	
1	12311.104	2	18147.975	-	30459.091	-12	.	.	3.0-	2.0	.	.	.	1.049	1.255	206	-299	-307	8120.5156	
	12310.848	2																	8120.6844	
2	12309.134	0	17296.905	-	29606.060	-21	.	.	4.5-	4.5	.	.	.	0.494	0.790	296		-139	8121.8152	
2	12307.749	0	32630.100	-	20322.349	-2	.	.	5.5-	6.5	.	.	.	1.030	1.314*	234		411*	8122.7292	
1	12307.588	1	21263.339	-	33570.935	-8	.	.	5.0-	4.0	.	.	.	0.610	1.130*	520	108	106	8122.8354	
1	12306.890	1	30204.810	-	17897.917	-3	.	.	3.0-	3.0	.	.	.	1.215	0.450	765		-291	8123.2961	
	12306.440	0																	8123.5932	
1	12305.672	3	20934.195	-	33289.869	-2	.	.	6.0-	5.0	.	.	.	1.319	1.095	224	-167	-139	8124.1002	
1	12305.328	4	20877.600	-	33182.933	-5	7.0-	6.0	7.0-	6.0	1.060	1.040	.020	1.060	1.050*	10		56	8124.3273	
	12304.739	2																	8124.7162	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	12304.401	2	15424.387-27728.796		-8	3.0-	3.0	3.0-	3.0	1.106	1.062	.044	1.106	1.060	46	-128	-123	8124.9394	
	12304.244	2																8125.0430	
1	12303.973	2	25499.501-37803.470		4	.	.	9.0-	9.0	.	.	.	1.200	1.220*	20		41	8125.2220	
1	12303.659	2	27781.032-40084.697		-6	.	.	6.0-	6.0	.	.	.	1.250	1.510*	260		-70	8125.4294	
	12301.699	0																8126.7240	
	12301.275	1																8127.0041	
1	12299.921	2	14737.788-27037.718		-9	3.0-	2.0	3.0-	2.0	.815	1.299	.484	0.815	1.300*	485	-159	-342	8127.8987	
	12298.591	2																8128.7777	
2	12297.311	0	32555.705-44853.015		1	.	.	1.5-	2.5	.	.	.	1.269	0.920*	349			8129.6238	
	12297.026	0																8129.8122	
1	12295.450	9	16595.109- 4299.659		0	3.0-	2.0	3.0-	2.0	0.996	1.479	.483	0.999	1.482	483	148	151	8130.8543	IS* F
1	12294.705	0	21812.682-34107.378		9	.	.	4.0-	3.0	.	.	.	1.040	1.160*	120		-56	8131.3470	
2	12294.506	2	29640.245-16745.720		-19	.	.	1.5-	2.5	.	.	.	1.447	1.671	224	306	320	8131.4786	
2	12293.829	0	29457.315-17163.470		-16	.	.	4.5-	4.5	.	.	.	1.230	1.200	30		321*	8131.9264	
	12293.493	0																8132.1486	
1	12291.829	2	21307.390-33599.280		-1	.	.	1.0-	2.0	.	.	.	2.360	1.606*	754	-041	-35	8133.2098	
1	12291.340	2	26633.226-14341.947		1	.	.	1.0-	2.0	.	.	.	1.124	0.852	272	093	90	8133.5731	
1	12290.679	4	19281.917-31572.610		-14	2.0-	1.0	2.0-	1.0	1.825	2.417	.592	1.822	2.403	581	-175	-183	8134.0105	2LNS
1	12290.679	4	20065.327- 7774.653		5	3.0-	4.0	3.0-	4.0	.994	1.463	.469	0.998	1.463	465	179	186	8134.0105	2 LNS
1	12289.556	2	28565.887-16276.332		1	2.0-	2.0	2.0-	2.0	.922	1.880	.958	0.911	1.880*	969	104	104	8134.7538	
1	12287.380	1	29610.675-17323.291		-4	4.0-	4.0	4.0-	4.0	1.020	1.250	.230	1.020	1.250*	230	197	197	8136.1944	
	12286.975	1																8136.4626	
	12286.837	1														153		8136.5540	
	12286.629	0																8136.6917	
1	12284.596	3	18997.584-31192.179		1	5.0-	4.0	5.0-	4.0	1.285	1.197	.088	1.280	1.210*	70	-294	-297	8138.0383	
1	12283.717	1	20385.328-32669.040		5	.	.	2.0-	3.0	.	.	.	1.911	1.000*	911		72	8138.6207	
1	12283.412	1	29588.570-17305.142		-16	.	.	3.0-	2.0	.	.	.	1.165	0.000*	0	114	110	8138.8227	
1	12281.967	0	25959.849-13677.903		21	.	.	1.0-	1.0	.	.	.	1.037	1.442	405	-054	-57	8139.7803	
	12280.736	0																8140.5962	
	12279.950	0																8141.1173	
1	12279.033	1	15956.888-28135.924		-3	.	.	1.0-	2.0	.	.	.	1.103	1.101	2	-300	-304	8141.7253	
1	12278.708	0	23100.887-35379.603		-8	.	.	3.0-	3.0	.	.	.	1.520	1.165	355		105	8141.9408	
2	12277.056	3	30794.930-18517.872		-2	1.5-	0.5	1.5-	0.5	1.085	2.775	1690	1.084	2.755	1671	298	300	8143.0363	
1	12276.515	0	23281.721-35558.235		1	.	.	5.0-	4.0	.	.	.	1.235	0.990	245		-16	8143.3952	
2	12276.157	2	35525.910-23249.745		-8	4.5-	4.5	4.5-	4.5	1.175	1.475	.300	1.176	1.475	299	352	344*	8143.6327	
	12275.247	1B																8143.8383	B
	12275.012	0																8144.3923	
1	12274.028	0	22033.306-34362.360		-26	.	.	6.0-	5.0	.	.	.	1.060	1.120*	60		71	8145.0452	
	12273.717	0																8145.2516	
1	12273.497	2	22719.949-34993.452		-6	.	.	4.0-	4.0	.	.	.	1.070	1.213	143	+	36	8145.3976	
	12271.620	0																8146.6435	
1	12271.236	4	22509.712-10238.473		-3	5.0-	6.0	5.0-	6.0	1.288	1.432	.144	1.287	1.431	144	122	124	8146.8984	IS* F
1	12270.728	0	20306.482-32577.204		6	.	.	4.0-	4.0	.	.	.	1.123	0.980*	143		-267	8147.2357	
1	12270.249	0	21227.793-33498.071		-29	.	.	4.0-	3.0	.	.	.	1.346	0.770	576		-83	8147.5538	
	12270.070	1																8147.6726	
1	12269.732	2	20540.110-32809.844		-2	.	.	3.0-	4.0	.	.	.	0.830	0.900*	70	+	18	8147.8971	
	12269.030	0																8148.3633	
1	12268.803	1	20043.465- 7774.653		-4	.	.	5.0-	4.0	.	.	.	0.925	1.463	538	-046	-52	8148.5107	
1	12268.255	1	17081.874-29350.139		-10	.	.	4.0-	3.0	.	.	.	1.217	0.910	307	-195	-189	8148.8780	
1	12267.645	2	18672.411-30940.068		-12	.	.	6.0-	5.0	.	.	.	1.190	1.080*	110	-086	-91	8149.2832	
1	12266.923	2	21337.573-33604.497		-1	.	.	4.0-	3.0	.	.	.	1.137	1.210	73	-123	-123	8149.7629	
1	12264.708	0	27068.524-39333.250		-18	.	.	3.0-	2.0	.	.	.	0.960	0.995	35		151	8151.2347	
	12263.141	0																8152.2763	
	12262.602	1																8152.6346	
1	12261.535	0	20043.465-32304.979		21	.	.	5.0-	4.0	.	.	.	0.925	0.990*	65		-63	8153.3441	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
								J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
				12260.822		0																
1	12260.575	0		20457.704-32718.268	11				0.0-1.0							0.000	0.600*	0		88	8153.8182	
1	12260.244	3		12322.613-24532.849	8				2.0-2.0							1.036	0.640	396	-041	-45	8153.9825	
1	12258.099	1		20697.436-32955.538	-3				7.0-6.0							1.250	1.265	15		-323	8154.2026	
	12255.413	2																		-083	8155.6295	
	12254.531	0																			8157.4170	
	12254.228	0																			8158.0041	
1	12252.549	2		19558.257-31810.821	-15				2.0-2.0							-0.145	0.865	1010	121	117	8158.2058	
	12252.090	0																			8159.3238	
1	12250.983	0		23004.649-35255.665	-33				5.0-4.0							1.196	1.080*	116		-221	8159.6294	
	12248.762	1																			8160.3667	
1	12248.157	1		29810.974-42059.140	-9				3.0-4.0							1.184	1.060	124		083	8161.8464	
1	12247.105	2		18147.975-30395.062	18				3.0-4.0							1.049	0.920	129	-199	-194	8162.2496	
1	12245.409	3		24970.474-37215.900	-17				4.0-4.0							1.460	1.485*	25	-005	-30	8162.9507	
	12242.570	0																			8164.0813	
	12242.397	0																			8165.9745	
1	12241.823	1		26516.261-38758.100	-16				5.0-5.0							1.200	1.530*	330	-154	-156	8166.0899	
1	12241.005	0		22429.984-34670.995	-6				4.0-5.0							1.279	1.010*	269		13	8166.4728	
	12240.619	1																		-091	8167.0185	
	12240.250	1																			8167.2761	
2	12238.498	2		34738.755-22500.225	-32	6.5-	5.5	6.5-	5.5	1.275	1.555	.280				1.270	1.555	285		342 341	8167.5223	
1	12238.060	1		19865.603-32103.687	-24				4.0-4.0							1.100	1.040	60	-189	-187	8168.6915	
	12237.025	0																			8168.9839	
2	12236.265	1		18720.075-30956.365	-25				3.5-2.5							1.060	0.646	414		-66	8169.6748	
	12236.030	0																			8170.1822	
1	12235.805	1		16520.962-28756.769	-2				5.0-5.0							0.736	1.165	429		-64	8170.3391	
1	12235.095	3		21307.390-33542.506	-21				1.0-2.0							2.360	1.123*	1237		13	8170.4894	
1	12234.691	2		18963.921-31198.642	-30				4.0-3.0							1.251	1.070	181	-113	-110	8170.9635	
1	12233.498	3		27979.161-15745.648	-15				2.0-3.0	1.19	1.15	.04				1.186	1.145	41	129	126	8171.2333	
1	12232.444	7		16532.104-4299.659	-1				3.0-2.0	0.303	1.483	1180				0.300	1.482	1182		-20	8172.0302	
2	12231.634	2		17733.709-5502.060	-15				0.5-1.5							-0.510	1.169*	1679	202	201	8172.7343	F
	12231.385	1																			8173.2755	
1	12230.437	1		21603.247-33833.699	-15				2.0-2.0							0.060	0.930*	870		-116	8173.4419	
1	12230.344	3		26572.296-14341.947	-5				2.0-2.0							1.014	0.852	162	243	236	8174.0755	
2	12227.899	1		32841.375-45069.320	-46				1.5-2.5							1.234	0.730*	504	-134		8174.1376	
1	12227.393	2H		21263.339-33490.744	-12				5.0-5.0							0.610	1.084*	474		38	8175.7721	HAZY
2	12226.563	0		34028.695-21862.135	3				2.5-2.5							1.340	1.320*	20		227*	8176.1104	HAZY
	12226.191	0																			8176.6654	
1	12225.348	1		18147.975-30373.329	-6				3.0-4.0							1.049	1.345	296	-313	-315	8176.9142	
1	12223.840	0		18147.975-30371.819	-4				3.0-3.0							1.049	0.640	409		-292	8177.4781	
1	12223.273	2H		17045.776-29269.059	-10				1.0-1.0							1.474	1.110*	364	078	72	8178.4869	HAZY
2	12220.202	4		29259.700-17039.487	-11	1.5-	1.5	1.5-	1.5	1.251	1.356	.105				1.250	1.354	104	271	273	8178.8663	
1	12219.079	2		20709.458-32928.540	-3				3.0-2.0							1.240	1.060*	180		20	8180.9217	
1	12218.697	4		19059.958-31278.667	-12	5.0-	5.0	5.0-	5.0	1.380	1.015	.365				1.375	1.010*	365	-117	-120	8181.6735	
	12218.276	0																			8181.9293	
1	12217.460	1		22837.092-35054.565	-13				3.0-3.0							1.110	0.998*	112		-177	8182.2113	
	12216.942	1																			8182.7577	
	12216.019	1																			8183.1047	
2	12214.786	1		32041.795-19827.020	11				1.5-1.5							0.981	1.733	752	202	171	8183.7230	
	12214.229	0																			8184.5491	
1	12213.607	0		21350.311-33563.924	-6				2.0-1.0							0.350	0.430*	80		-192	8184.9223	
1	12212.433	7		18602.505-30814.939	-1	6.0-	5.0	6.0-	5.0	.919	1.120	.201				0.910	1.111	201		2	8185.3392	
1	12212.193	2		16520.962-28733.159	-4				5.0-4.0							0.736	1.035	299		106	8186.1260	F
	12211.771	1																			8186.2869	
	12211.477	2																			8186.5698	
																					8186.7669	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2 - J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS					
	12211.322	0																	8186.8708		
	12210.063	1																	8187.7150		
1	12209.809	2	19203.415	-	31413.230	-6	.	.	2.0-	3.0	.	.	.	1.021	0.742	279	-099	-97	8187.8853		
2	12209.552	1	30727.440	-	18517.872	-16	.	.	1.5-	0.5	.	.	.	1.208	2.755	1547		341	8188.0577		
1	12207.303	1	22416.990	-	34624.299	-1	.	.	2.0-	2.0	.	.	.	1.675	1.150*	525		-32	8189.5628		
1	12207.157	1	20065.327	-	32272.487	-3	.	.	3.0-	3.0	.	.	.	0.998	0.000*	0		-301	8189.6641	C2	
1	12207.157	1	23274.858	-	35432.018	-3	.	.	4.0-	3.0	.	.	.	1.604	1.679	75		-78	8189.6641	C2	
2	12206.739	3	14221.716	-	2014.966	-11	0.5-	1.5	0.5-	1.5	-0.114	1.880	1994	-0.108	1.881	1989		203	204	8189.9446	
	12206.247	2																-062		8190.2747	
1	12205.831	3	12159.465	-	24365.295	-1	4.0-	3.0	4.0-	3.0	.	.	.623	0.844	1.475	631	-394	-391	8190.5538		
1	12205.221	1	27415.500	-	39620.765	-44	.	.	5.0-	6.0	.	.	.	1.370	0.965*	405		24	8190.9632		
	12205.012	1																		8191.1034	
1	12202.402	7	18346.917	-	6144.515	0	2.0-	3.0	2.0-	3.0	1.52	1.47	.05	1.518	1.473	45	071	75	8192.8555	F	
1	12201.293	1	17911.977	-	30113.280	-10	.	.	5.0-	6.0	.	.	.	1.145	1.050	95		-120	8193.6001		
1	12201.049	2	16532.104	-	28733.159	-6	.	.	3.0-	4.0	.	.	.	0.300	1.035	735	105	102	8193.7640		
	12200.531	0																		8194.0783	
1	12200.075	0	19059.958	-	31260.046	-13	.	.	5.0-	6.0	.	.	.	1.375	1.210*	165		-386	8194.4182		
1	12199.763	0	23413.710	-	35613.490	-17	.	.	4.0-	5.0	.	.	.	0.000	1.090*	0		-148	8194.6277		
1	12199.580	1	24347.551	-	36547.135	-4	.	.	3.0-	4.0	.	.	.	1.300	1.080*	220			8194.7506		
	12199.350	4																-178		8194.9051	
2	12199.185	6	24206.690	-	12007.503	-2	1.5-	1.5	1.5-	1.5	.880	0.002	.882	0.863	0.019	882	266	267	8195.0160		
1	12198.683	3	16595.109	-	28793.800	-8	.	.	3.0-	3.0	.	.	.	0.999	1.083	84	-249	-255	8195.3532		
	12197.519	1																		8196.1353	
	12196.427	0																		8196.8692	
	12196.049	0																		8197.1232	
	12195.357	0																		8197.5883	
2	12194.917	0	27830.060	-	40025.010	-33	.	.	2.5-	3.5	.	.	.	1.216	0.900	316		-110	8197.8841		
1	12194.623	2	28470.960	-	16276.332	-5	2.0-	2.0	2.0-	2.0	1.105	1.880	.775	1.104	1.880*	776	111	103	8198.0818		
	12194.354	0																		8198.2626	
1	12193.620	2	19074.292	-	31267.919	-7	2.0-	3.0	2.0-	3.0	.	.	.464	1.532	1.080	452	091	87	8198.7561		
	12193.354	1																		8198.9350	
1	12192.686	0	16304.260	-	28496.950	-4	.	.	4.0-	4.0	.	.	.	1.285	0.810	475		-205	8199.3842		
	12192.500	1																		8199.5092	
1	12192.199	2	21350.311	-	33542.506	4	2.0-	2.0	2.0-	2.0	.	.	.784	0.350	1.123*	773	-141	-149	8199.7117		
	12190.693	0																		8200.7213	
1	12189.635	6H	19281.917	-	31471.542	10	2.0-	1.0	2.0-	1.0	1.828	2.194	.366	1.822	2.188	366	-079	-83	8201.4364		
	12189.896	2																	-045	8201.9337	
	12183.275	1																		8202.3516	
2	12182.671	2	19466.530	-	7278.862	3	4.5-	4.5	4.5-	4.5	1.151	1.545	.394	1.151	1.545	394	137	139	8202.7581		
1	12183.086	2	14292.176	-	26476.068	-6	.	.	5.0-	4.0	.	.	.	0.970	1.605	635	-401	-398	8205.3063		
1	12133.522	1	21420.983	-	33604.497	8	.	.	3.0-	3.0	.	.	.	1.663	1.210	453	+	23	8205.5515		
	12183.319	1																		8205.6882	
1	12182.556	0	15249.635	-	27432.195	-4	.	.	2.0-	1.0	.	.	.	0.715	1.130*	415	-348	-354	8206.2021		
	12181.135	0																		8207.1594	
1	12180.583	2	14025.007	-	26205.589	1	.	.	4.0-	3.0	.	.	.	0.975	0.701	274		-198	8207.5314		
1	12179.904	0	32118.980	-	19939.052	-24	.	.	4.0-	3.0	.	.	.	1.039	0.000*	0		161	8207.9889		
	12179.836	0																		8208.0347	
1	12178.813	1	22219.737	-	34398.550	0	4.0-	4.0	4.0-	4.0	.	.	.13	0.750	0.870*	120	+	19	8208.7242		
2	12178.594	4	33721.040	-	21542.435	-11	1.5-	2.5	1.5-	2.5	1.22	1.28	.06	1.228	1.279	51	350	336	8208.8718		
1	12177.963	7	12177.963	-	0.000	0	1.0-	0.0	1.0-	0.0	0.521	0.000		0.525	0.000	0	187	191	8209.2971	F	
	12177.419	0																		8209.6639	
	12176.544	1																		8210.2538	
1	12175.973	1	20306.482	-	32482.465	-10	.	.	4.0-	4.0	.	.	.	1.123	1.330*	207	-350	-332	8210.6389		
1	12175.802	0	26516.261	-	38692.075	-12	.	.	5.0-	5.0	.	.	.	1.200	1.170*	30			8210.7542		
	12175.604	0																		8210.8877	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	12175.079	2	16834.379	-	29009.483	-25	.	.	5.0-	4.0	.	.	.	0.961	0.695	266	-154	-155	8211.2418		
	12173.922	0					.	.			.	.	.						8212.0221	
1	12172.930	1	23037.432	-	35210.360	2	.	.	1.0-	2.0	.	.	.	0.870	1.180*	310	-198	-213	8212.6914		
	12172.363	0					.	.			.	.	.						8213.0739	
1	12170.718	5	17554.704	-	29725.422	0	8.0-	7.0	8.0-	7.0	1.195	1.250	.055	1.170	1.220*	50	-316	-316	8214.1840	F	
1	12170.217	4	18147.975	-	30318.195	-3	.	.	3.0-	2.0	.	.	.	1.049	0.940	109	-237	-231	8214.5222		
1	12169.714	4	9336.801	-	21556.538	-23	5.0-	4.0	5.0-	4.0	.800	1.290	.490	0.801	1.290	489	-412	-413	8214.8617		
1	12168.229	1	22719.949	-	34833.198	-20	.	.	4.0-	5.0	.	.	.	1.070	1.070	0		41	8215.8642		
1	12167.694	2H	22182.030	-	34349.740	-16	.	.	2.0-	1.0	.	.	.	1.295	0.810*	485		60	8216.2255		
1	12166.798	2H	23315.209	-	35482.018	-11	.	.	2.0-	3.0	.	.	.	1.335	1.679	344	-083	-88	8216.8305		
1	12166.459	0	18147.975	-	30314.443	-9	.	.	3.0-	3.0	.	.	.	1.049	1.140*	91		-303	8217.0595		
1	12166.151	0	12322.613	-	24483.767	-3	.	.	2.0-	1.0	.	.	.	1.036	0.000*	0		-333	8217.2675		
2	12165.742	0	33457.050	-	21291.350	42	.	.	3.5-	4.5	.	.	.	1.002	1.590	588		210	8217.5438		
1	12165.507	0	22829.053	-	35054.565	-5	.	.	4.0-	3.0	.	.	.	1.263	0.998	265		-163	8217.7025		
1	12165.120	0	23304.649	-	35169.790	-21	.	.	5.0-	6.0	.	.	.	1.196	1.120*	76		-202	8217.9639		
1	12164.305	3	18046.108	-	30210.416	-3	4.0-	4.0	4.0-	4.0	.71	1.16	.45	0.694	1.160*	466		-22	8218.5145		
1	12163.865	2	27909.524	-	15745.648	-10	4.0-	3.0	4.0-	3.0	1.27	1.13	.14	1.270	1.145*	125	162	171	8218.8111		
	12163.135	0					.	.			.	.	.						8219.3044	
1	12162.461	0	19776.904	-	31939.345	20	.	.	6.0-	6.0	.	.	.	1.012	1.200*	188		-342	8219.7606		
1	12161.733	4	18602.505	-	30764.244	-6	.	.	6.0-	6.0	.	.	.	0.910	0.975	65		0	8220.2526		
1	12159.915	0	20697.436	-	32857.357	-6	.	.	7.0-	6.0	.	.	.	1.250	1.101	149		-206	8221.4816	C2	
1	12159.915	0	17911.977	-	30071.890	2	.	.	5.0-	5.0	.	.	.	1.145	1.290*	145		-305	8221.4816	C2	
1	12158.301	2	21337.573	-	9179.262	-10	.	.	4.0-	5.0	.	.	.	1.137	1.454	317	118	120	8222.5730	HAZY	
	12157.951	0					.	.			.	.	.						8222.8097	
	12157.451	0					.	.			.	.	.						8223.1479	
	12156.950	0					.	.			.	.	.						8223.4868	
1	12155.291	5	21263.339	-	33418.637	-7	5.0-	5.0	5.0-	5.0	.626	.891	.265	0.610	0.872*	262	+	11	8224.6092		
1	12154.246	1	24437.792	-	36592.070	-32	.	.	4.0-	3.0	.	.	.	1.500	1.300*	200		-163	8225.3163		
	12153.295	1								+			8225.9599	
1	12152.654	2	19558.257	-	31710.912	-1	2.0-	2.0	2.0-	2.0	-0.155	.200	.355	-0.145	0.200	345	-305	-301	8226.3938		
	12151.748	3					.	.			.	.	.						8227.0072	
1	12151.383	3	22509.712	-	34661.105	-10	.	.	5.0-	4.0	.	.	.	1.287	1.100	187	-092	-94	8227.2543		
1	12149.953	0	21420.983	-	33570.935	1	.	.	3.0-	4.0	.	.	.	1.663	1.130*	533		36	8228.2226		
1	12149.634	0	29914.927	-	17765.281	-12	.	.	3.0-	3.0	.	.	.	1.194	1.680*	486		292	8228.4387		
1	12148.470	2	20065.327	-	32213.814	-17	.	.	3.0-	2.0	.	.	.	0.998	0.725	273		-68	8229.2271		
1	12146.916	3	23207.126	-	35354.050	-8	.	.	8.0-	7.0	.	.	.	1.135	0.000*	0	076	78	8230.2799		
1	12145.928	3	15424.387	-	27570.322	-7	3.0-	3.0	3.0-	3.0	1.106	1.269	.163	1.106	1.265	159		-343	8230.9493	2LNS	
1	12145.928	4	12177.963	-	24323.884	7	1.0-	1.0	1.0-	1.0	.52	.80	.28	0.525	0.800*	275	-198	-196	8230.9493	2LNS	
1	12145.558	3	19865.603	-	32011.173	-12	.	.	4.0-	3.0	.	.	.	1.100	1.140*	40	-174	-177	8231.2001		
1	12142.614	1B	22219.737	-	34352.350	-9	.	.	4.0-	5.0	.	.	.	0.750	1.120*	79		79	8233.1958		
1	12142.544	2B	18672.411	-	30814.939	16	.	.	6.0-	5.0	.	.	.	1.190	1.111*	370	-229	-229	8233.2432		
	12141.400	2					.	.			.	.	.						8234.0190	
1	12140.260	2	16155.109	-	28295.380	-11	.	.	5.0-	4.0	.	.	.	0.948	1.155	207	-185	-185	8234.7922		
1	12139.120	7	22377.599	-	10238.473	-6	7.0-	6.0	7.0-	6.0	1.074	1.429	.355	1.076	1.431	355	188	187	8235.5655	IS* F	
	12138.406	2					.	.			.	.	.						8236.0500	
1	12138.045	3	16595.109	-	28733.159	-5	.	.	3.0-	4.0	.	.	.	0.999	1.035	36	-066	-69	8236.2949		
	12137.103	1					.	.			.	.	.						8236.9342	
1	12135.567	0	26149.533	-	35285.120	-15	.	.	4.0-	5.0	.	.	.	1.360	1.145*	215			8237.9767		
1	12135.392	2	24456.635	-	36592.070	-43	.	.	3.0-	3.0	.	.	.	1.000	1.300*	300	-190	-47	8238.0955		
	12134.371	0					.	.			.	.	.						8238.7887	
	12134.143	0					.	.			.	.	.						8238.9435	
	12132.878	1					.	.			.	.	.						8239.8025	
1	12132.163	0	27643.693	-	39775.870	-14	.	.	4.0-	4.0	.	.	.	1.310	0.985*	325		67	8240.2881		
1	12131.907	0	22416.990	-	34548.900	-3	.	.	2.0-	2.0	.	.	.	1.675	0.850*	825		85	8240.4620		
1	12131.311	0	19281.917	-	31413.230	-2	.	.	2.0-	3.0	.	.	.	1.822	0.742	1080		-103	8240.8669		

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C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1											G2	G1	DG	G2	G1	DG	IS	IS
	12131.035	1																	8241.0543		
	12130.430	2																	8241.4654		
	12130.130	0																	8241.6692		
1	12129.784	1	12351.522	-24481.313	-7			6.0-	6.0					0.995	0.000*	0	-251	-251	8241.9043		
2	12128.920	2	30794.930	-18666.006	-4			1.5-	2.5					1.084	1.365	281		224	8242.4914	C2	
1	12128.920	2	20540.110	-32669.040	-10			3.0-	3.0					0.830	1.000*	170		50	8242.4914	C2	
1	12128.346	7	12159.465	-24287.814	-3		4.0-	3.0	4.0-	3.0	.847	.593	.254	0.844	0.585	259	-174	-174	8242.8815	F	
1	12123.840	2	21337.573	-33461.419	-6			4.0-	3.0					1.137	0.950*	187	-254	-241	8245.9451		
1	12123.531	3	20521.579	-32645.106	4			6.0-	5.0					1.246	1.135	111	-259	-253	8246.1553		
	12123.214	0																	8246.3709		
1	12122.850	0	22377.599	-34500.445	4			7.0-	6.0					1.076	1.030	46		-246	8246.6185		
1	12122.404	0	17031.874	-29204.308	-30			4.0-	5.0					1.217	0.896	321		-213	8246.9219		
1	12122.203	0	19059.958	-31182.179	-18			5.0-	4.0					1.375	1.210*	165		-297	8247.0586		
1	12121.515	1	21420.983	-33542.506	-8			3.0-	2.0					1.663	1.123	540		-34	8247.5267		
1	12119.454	0	20990.684	-33110.165	-17			5.0-	4.0					1.308	1.220*	88	-243	-245	8248.9225		
1	12117.279	4	18997.534	-31014.877	-14		5.0-	4.0	5.0-	4.0	1.285	1.172	.113	1.280	1.170	110	-141	-141	8250.4100		
1	12116.666	2	14853.317	-26969.979	4			4.0-	3.0					0.786	0.000*	0	-304	-302	8250.8274		
1	12114.541	4	18046.108	-30160.664	-15			4.0-	4.0					0.694	1.030	336	041	48	8252.2746		
1	12113.974	2	15856.838	-27970.881	-19			1.0-	2.0					1.103	0.194	909	-158	-159	8252.6609		
1	12112.587	2	11840.715	-23953.307	-5		3.0-	2.0	3.0-	2.0	.810	1.267	.457	0.811	1.265	454	-386	-391	8253.6059		
	12107.904	0																	8256.7982		
1	12107.424	0	19959.027	-32066.452	-1			1.0-	2.0					0.760	0.910*	150		60	8257.1255		
	12106.804	0																	8257.5484		
	12106.294	0																	8257.8962		
1	12105.977	3	22518.312	-34624.299	-10			2.0-	2.0					1.350	1.150*	200		-40	8258.1125		
	12104.301	2																	-064	8259.2559	
	12101.533	1																	-447	8261.1451	
	12100.031	1																	-018	8262.1706	
1	12099.513	2	19074.292	-31173.814	-9			2.0-	1.0					1.532	0.450*	1082	029	24	8262.5243		
1	12099.111	1	14737.783	-26836.911	-12			3.0-	2.0					0.815	1.260*	445	-308	-312	8262.7988		
	12098.540	0																		8263.1888	
	12098.366	0																		8263.3076	
1	12096.281	1	21737.407	-33833.699	-11			3.0-	2.0					1.026	0.930	96		-26	8264.7320		
2	12094.916	1	34595.165	-22500.225	-24		6.5-	5.5	6.5-	5.5			.385	1.160	1.555*	395	567	568	8265.6647		
	12094.455	0																		8265.9798	
2	12093.533	1	30759.570	-18666.006	-26			2.5-	2.5					1.220	1.365	145	367	361	8266.6065		
	12092.237	0																		8267.4754	
2	12092.038	1	33634.550	-21542.435	-17			1.5-	2.5					1.230	1.279*	49	339	339*	8267.5910		
1	12091.803	0	18572.411	-30764.244	-30			6.0-	6.0					1.190	0.975*	215		-231	8267.7927		
	12091.370	0																		8268.0887	
1	12090.950	3	19865.603	-7774.653	0			4.0-	4.0					1.100	1.463	363	177	177	8268.3760	IS* F	
	12089.935	0																		8269.7541	
	12089.693	0																		8269.9197	
1	12087.842	3	18046.108	-30133.953	-3		4.0-	3.0	4.0-	3.0	.695	1.200	.505	0.694	1.200*	506	-039	-40	8270.5019		
2	12086.847	0	33629.300	-21542.435	-18			2.5-	2.5					1.242	1.279	37	208	224	8271.1828		
	12085.001	1																	440	8271.7617	
	12085.645	2																		8272.0054	
	12085.422	2																		8272.1580	
1	12082.843	1	22038.306	-34171.155	-6			6.0-	5.0					1.060	1.230	170		152	8273.9237		
1	12082.595	2	14737.788	-26820.380	3			3.0-	2.0					0.815	1.160	345	-296	-295	8274.0935		
	12078.816	1																		8276.6821	
	12078.231	0																		8277.0830	
1	12077.923	5	20877.600	-32955.533	-10		7.0-	6.0	7.0-	6.0	1.065	1.270	.205	1.060	1.265*	205	-098	-98	8277.2907		
1	12076.619	1	18591.122	-30667.769	-28			4.0-	4.0					0.965	1.265	300	-260	-263	8278.1879		
	12076.478	0																		8278.2845	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES		
		12076.366	1																		8278.3613		
		12076.009	2																			8278.6060	
1		12073.200	1	14763.705	-	26836.911	-6	.	.	1.0-	2.0	.	.	.	-0.066	1.260*	1326	-312	-313		8280.5322		
1		12071.196	1	18578.669	-	30649.282	-17	.	.	1.0-	0.0	.	.	.	1.932	0.000	0	+	19		8281.9069		
		12070.174	0																			8282.6081	
1		12068.821	7	14292.176	-	26360.997	0	.	.	5.0-	5.0	.971	.798	.	0.970	0.796	174	-243	-244		8283.5367	F	
		12067.114	2																			8284.7084	
		12065.165	1																			8286.0468	
1		12064.062	4	17911.977	-	29976.039	0	5.0-	4.0	5.0-	4.0	1.143	1.070	.073	1.145	1.070	75	-172	-172		8286.8043	F	
1		12063.334	1	24613.274	-	36676.620	-12	.	.	5.0-	4.0	.	.	.	1.160	1.150*	10	-147	-147		8287.3044		
		12062.007	0																			8288.2162	
1		12060.532	1	23281.721	-	35342.260	-7	.	.	5.0-	4.0	.	.	.	1.235	1.110	125	-	23		8289.2298		
		12059.601	0																			8289.8697	
1		12059.135	7	11747.245	-	23806.381	-1	0.0-	1.0	0.0-	1.0	.000	.090	.	0.000	0.094	0	-125	-120		8290.1901	F	
1		12058.804	8	14292.176	-	26350.982	-2	5.0-	4.0	5.0-	4.0	.975	.800	.175	0.970	0.796	174	-148	-144		8290.4176	F	
1		12057.959	1	14912.011	-	26959.979	-9	.	.	4.0-	3.0	.	.	.	0.496	0.000*	0	-203	-205		8290.9986		
		12057.661	0																			8291.2035	
		12057.419	1																			8291.3699	
1		12056.523	1	16304.260	-	28360.802	-19	.	.	4.0-	3.0	.	.	.	1.285	0.887	398	-133	-133		8291.9861		
		12055.258	0																			8292.4366	
		12054.070	1																			8293.6736	
2		12053.631	2	27542.165	-	15488.530	-4	2.5-	3.5	2.5-	3.5	.934	1.058	.124	0.934	1.057	123	440	440*		8293.9756		
1		12053.256	3	12177.963	-	24231.226	-7	.	.	1.0-	2.0	.	.	.	0.525	0.411	114	-077	-74		8294.2337		
1		12051.214	1	20521.579	-	32572.811	-18	.	.	6.0-	5.0	.	.	.	1.246	1.010*	236	-249	-259		8295.6391		
		12050.469	4									.96	.	.								8296.1519	f
		12049.188	1																			8297.0339	
1		12048.520	3	21227.793-	9	179.262	-11	4.0-	5.0	4.0-	5.0	.	.	.12	1.346	1.454	108	075	77		8297.4940		
		12046.695	0																			8298.7510	
1		12046.554	1	26606.405	-	38652.990	-31	.	.	5.0-	4.0	.	.	.	1.130	1.090*	40				8298.8481	C2	
1		12046.554	1	24091.173	-	36137.730	-3	.	.	3.0-	2.0	.	.	.	1.245	1.525	280		2		8298.8481	C2	
		12045.733	1																			8299.4137	
1		12045.195	1	19074.292	-	31119.494	-7	.	.	2.0-	2.0	.	.	.	1.532	0.814	718	-	-24		8299.7844		
		12044.273	2C																			8300.4198	
1		12043.500	5	12159.465	-	24202.966	-1	4.0-	5.0	4.0-	5.0	.846	1.014	.168	0.844	1.012	168		-2		8300.9526	F	
1		12042.676	1	12322.613	-	24365.295	-6	.	.	2.0-	3.0	.	.	.	1.036	1.475	439		-394		8301.5205		
1		12042.481	3	18897.584	-	30940.068	-3	.	.	5.0-	5.0	.	.	.	1.280	1.080	200	-099	-95		8301.6550		
		12041.151	0																			8302.5719	
2		12040.612	2	30802.205	-	18761.580	-13	.	.	4.5-	5.5	.	.	.	1.160	1.296*	136	221	227		8302.9436		
		12040.019	0																			8303.3525	
1		12039.532	0	20385.328	-	32424.890	-30	.	.	2.0-	1.0	.	.	.	1.911	1.770*	141		-3		8303.6884		
		12038.651	2																			8304.2961	
2		12038.520	2	19317.370-	7	278.862	12	4.5-	4.5	4.5-	4.5	1.226	1.548	.322	1.225	1.545	320	160	160		8304.3864		
1		12038.015	0	24012.505	-	36050.540	-20	.	.	6.0-	6.0	.	.	.	1.248	0.830*	418		-39		8304.7348		
1		12037.843	0	24090.570	-	36128.425	-12	.	.	7.0-	7.0	.	.	.	1.130	1.060	70		109		8304.8535		
1		12036.839	0	21350.311	-	33387.151	-1	.	.	2.0-	2.0	.	.	.	0.350	1.288*	938		-200		8305.5462		
1		12036.609	0	29341.761	-	17305.142	-10	.	.	2.0-	2.0	.	.	.	1.184	0.000*	0	-	-31		8305.7049		
		12036.265	1																			8305.9423	
		12035.926	0																			8306.1762	
1		12033.671	1	21337.573	-	33371.251	-7	.	.	4.0-	3.0	.	.	.	1.137	1.113	24	-148	-147		8307.7327		
1		12032.027	3	22219.737	-	34251.764	0	4.0-	4.0	4.0-	4.0	.750	1.015	.265	0.750	1.005	255		8		8308.8679		
1		12031.715	5	15074.958	-	27105.673	0	7.0-	6.0	7.0-	6.0	1.097	1.040	.057	1.097	1.040	57	-123	-123		8309.0833	SI	
1		12030.964	9	9396.801	-	21417.765	0	.	.	5.0-	4.0	.80	.80	.	0.801	0.802	1	062	36		8309.6020	F	
1		12029.443	5	16532.104	-	28561.548	-1	.	.	3.0-	2.0	.	.	.	0.300	0.784	484	038	38		8310.6527	IS*	
		12028.652	2																			8311.1992	
1		12027.265	3	22719.717	-	34746.981	1	.	.	9.0-	8.0	.	.	.	1.200	0.000*	0	-078	-78		8312.1576		

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	12026.772	1		19059.958-31086.744		-14	.	.	.	5.0-	5.0	.	.	.	1.375	0.795	580	-	-41	8312.4984		
	12026.533	1					8312.6636	
1	12025.425	1		15406.760-27432.195		-10	.	.	.	1.0-	1.0	.	.	.	0.890	1.130*	240	-282	-283	8313.4295		
1	12024.880	0		18346.917-30371.819		-22	.	.	.	2.0-	3.0	.	.	.	1.518	0.640	878		-176	8313.8063		
1	12023.661	0		25192.231-37215.900		-8	.	.	.	4.0-	4.0	.	.	.	1.768	1.485	283	142	127	8314.6492		
1	12022.341	0		16304.260-28326.610		-9	.	.	.	4.0-	4.0	.	.	.	1.285	1.260*	25		-332	8315.5621		
1	12022.152	0		22518.312-34540.469		-5	.	.	.	2.0-	3.0	.	.	.	1.350	0.888	462		-24	8315.6928		
	12019.644	2					8317.4280	
1	12018.556	2		30645.856-12627.231		-9	.	.	.	2.0-	1.0	.	.	.	1.541	0.000*	0	144	150	8318.1740		
1	12018.414	1		23909.585-35928.010		-11	.	.	.	5.0-	4.0	.	.	.	1.242	0.960	282	-	-67	8318.2792		
	12015.765	1					8320.1130	
1	12015.364	3		22719.949-34735.314		-1	.	.	.	4.0-	3.0	.	.	.	1.070	0.899	171	-	-24	8320.3907		
	12014.483	2					8321.0008	
1	12013.366	2		23550.352-35563.728		-10	.	.	.	3.0-	3.0	.	.	.	1.090	1.204*	114	-166	-169	8321.7745		
	12012.645	0					8322.2740	
	12012.155	0					8322.6135	
	12011.753	2					141			8322.8920	
1	12008.563	1		28156.938-40165.495		6	.	.	.	6.0-	7.0	.	.	.	1.335	1.120	215		23	8325.1030		
1	12006.733	0		25209.162-37215.900		-5	.	.	.	5.0-	4.0	.	.	.	1.140	1.485*	345		-224	8326.3718		
1	12006.275	3		16734.151-28740.433		-7	.	.	.	2.0-	3.0	.93	.97	.04	0.928	0.970	42	-253	-255	8326.6895		
	12004.188	1B					8328.1371	
1	12004.110	3B		19281.917-31286.029		-2	.	.	.	2.0-	2.0	.	.	.	1.822	1.280	542		-66	8328.1912		
1	12003.460	6		18147.975-6144.515		0	.	.	.	3.0-	3.0	1.052	1.473	.421	1.049	1.473	424	190	191	8328.6422	F	
1	12002.377	1		21031.258-33033.638		-3	.	.	.	2.0-	3.0	.	.	.	1.455	0.910	545	026	48	8329.3937		
1	12001.276	0		12322.613-24323.884		5	.	.	.	2.0-	1.0	.	.	.	1.036	0.800*	236	-198	-200	8330.1579		
1	12000.152	2		16834.379-28834.535		-4	.	.	.	5.0-	5.0	.	.	.	0.961	0.978	17	-137	-137	8330.9381		
1	11998.125	3		14292.176-26290.302		-1	.	.	.	5.0-	5.0	.	.	.	0.970	1.125	155	-369	-370	8332.3456	F	
	11996.043	1					8333.7917	
1	11995.260	4		19203.415-31198.642		33	2.0-	3.0	2.0-	3.0	1.02	1.07	.05	1.021	1.070	49	-080	-85	8334.3357	F		
1	11994.714	3		21218.180-33212.897		-3	3.0-	4.0	3.0-	4.0	.861	1.100	.239	0.860	1.110*	250	-150	-148	8334.7151			
1	11991.115	1		16304.260-28295.380		-5	.	.	.	4.0-	4.0	.	.	.	1.285	1.155	130	-192	-189	8337.2167		
	11989.675	0					8338.2180	
	11989.450	0					8338.3745	
2	11989.115	3		23788.355-11799.241		1	6.5-	5.5	6.5-	5.5	1.323	1.373	.050	1.325	1.373	48	192	196	8338.6075			
	11988.745	1					8338.8648	
1	11985.968	0		18147.975-30133.953		-10	.	.	.	3.0-	3.0	.	.	.	1.049	1.200*	151	-133	-274	8340.7969	ISQ	
1	11982.834	4		25660.792-13677.903		-5	1.0-	1.0	1.0-	1.0	1.15	1.44	.29	1.146	1.442	296	-038	-46	8342.9435	IS* PB F		
1	11981.984	1		19236.116-31218.105		-5	.	.	.	7.0-	8.0	.	.	.	1.155	1.155	0		-207	8343.5702		
	11981.668	1					8343.7902	
1	11950.643	1		26844.163-32824.820		-14	.	.	.	4.0-	3.0	.	.	.	1.020	0.832	188		-64	8344.5041		
1	11979.752	4		20877.600-32857.357		-5	7.0-	6.0	7.0-	6.0	1.06	1.10	.04	1.060	1.101*	41	+	19	8345.1247	F		
	11978.771	1					215			8345.8081	
1	11978.234	1		23274.858-35253.102		-10	.	.	.	4.0-	5.0	.	.	.	1.604	1.110*	494		-38	8346.1823		
1	11975.985	5		16520.962-22496.950		-2	5.0-	4.0	5.0-	4.0	.74	.81	.07	0.736	0.810	74	+	13	8347.7490	F		
	11975.437	1					149			8348.0968	
1	11974.210	3H		22182.030-34156.245		-5	.	.	.	2.0-	1.0	.	.	.	1.295	1.305	10	+	-11	8348.9871	HAZY	
1	11973.953	4		20043.465-32017.434		-16	.	.	.	5.0-	4.0	.	.	.	0.925	1.020*	95	+	-9	8349.1663		
1	11972.285	1		8768.139-20741.029		-5	.	.	.	2.0-	2.0	.	.	.	0.352	0.000*	0		-392	8349.9110		
1	11967.765	4		22160.184-34127.955		-6	8.0-	8.0	8.0-	8.0	1.230	1.186	.044	1.230	1.185	45	-136	-142	8353.4833	F		
2	11966.329	4		28252.945-16285.582		-34	0.5-	0.5	0.5-	0.5	.925	0.117	1042	0.920	0.122	1042		295	8354.4857			
1	11965.198	3		12522.613-24287.814		-3	2.0-	3.0	2.0-	3.0	1.015	.578	.437	1.036	0.585	451	-174	-177	8355.2754	F		
1	11961.850	1		21218.180-33180.043		-13	.	.	.	3.0-	2.0	.	.	.	0.860	1.790*	930	-203	-194	8357.6140		
2	11961.221	0		33019.160-21057.925		-14	.	.	.	3.5-	2.5	.	.	.	1.160	1.590	430		291	8358.0535		
1	11960.661	1		21603.247-33563.924		-16	.	.	.	2.0-	1.0	.	.	.	0.060	0.430*	370	-142	-130	8358.4448		
	11957.326	4H					1.3	.	.	.	-050			8360.7761	SI 2JDG

C	WAVELENGTH	I	T2	-	T1	O-C	OBS			OBS			TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2 - J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	11957.166	1	22719.949-34677.111			4	.	.	4.0- 4.0	.	.	.	1.070	1.080	10		-4	8360.8880	
	11956.374	1					.	.		.	.	.				124		8361.4418	
	11956.116	0					.	.		.	.	.				234		8361.6222	
1	11955.903	0	23413.710-35359.610			3	.	.	4.0- 5.0	.	.	.	0.000	1.120*	0		-76	8361.7712	239Q
1	11955.665	1	19776.904-31732.582			-13	.	.	6.0- 5.0	.	.	.	1.012	1.049	37		-245 -234	8361.9377	
	11955.172	1					.	.		.	.	.						8362.2825	
1	11953.059	4	18591.122-30544.187			-6	.	.	4.0- 3.0	.97	.97	.	0.965	0.946	19		-141 -141	8363.7607	F
	11951.923	2					.	.		.	.	.						8364.5557	
1	11949.523	0	21263.339-33212.897			-35	.	.	5.0- 4.0	.	.	.	0.610	1.110*	500	109	109	8366.2357	
1	11947.358	0	22181.368-34128.739			-13	.	.	3.0- 3.0	.	.	.	0.780	1.106*	326		-43	8367.7517	
1	11946.724	0	22181.368-34128.094			-2	.	.	3.0- 4.0	.	.	.	0.780	0.000*	0		-18	8368.1958	
	11945.762	4W					.	.		.	.	.						8368.8697	
1	11945.623	7	16888.909-28834.535			-3	6.0-	5.0	6.0- 5.0	1.104	0.984	.120	1.098	0.978	120		-160 -162	8368.9671	F
	11944.700	1					.	.		.	.	.						8369.6138	
1	11944.379	0	21307.390-33251.780			-11	.	.	1.0- 2.0	.	.	.	2.360	1.465*	895		39	8369.8387	
	11943.043	0					.	.		.	.	.						8370.7750	
1	11942.777	1	27536.236-39479.000			13	.	.	3.0- 3.0	.	.	.	1.355	0.970	385			8370.9614	
2	11942.345	5	15178.115- 3235.770			0	0.5-	0.5	0.5- 0.5	-0.090	.299	.389	-0.085	0.299	384	449	449	8371.2643	IS* F
	11941.611	2					.	.		.	.	.						8371.7788	
1	11941.132	1	22719.949-34661.105			-24	.	.	4.0- 4.0	.	.	.	1.070	1.100	30		85	8372.1146	
1	11939.442	1	28214.784-16276.332			-10	.	.	3.0- 2.0	.	.	.	0.905	1.880*	975	175	172	8374.0011	
	11937.081	0					.	.		.	.	.						8374.9558	
	11936.843	0					.	.		.	.	.						8375.1228	
	11933.537	0					.	.		.	.	.						8377.4430	
	11931.018	0					.	.		.	.	.						8379.2118	
1	11929.925	2	18016.108-29976.039			-6	.	.	4.0- 4.0	.	.	.	0.694	1.070	376	054	60	8379.9795	
1	11928.425	3	13726.661-25655.090			-4	.	.	3.0- 4.0	1.150	1.165	.015	1.150	1.165	15		-287 -295	8381.0332	
1	11927.194	2	17045.776-28972.971			-1	.	.	1.0- 2.0	.	.	.	1.474	0.794	680		68	8381.8982	
	11926.734	1					.	.		.	.	.						8382.2215	
2	11925.717	4	22652.035-10726.322			4	3.5-	4.5	3.5- 4.5	1.19	1.39	.20	1.185	1.391	206		183	8382.9363	
2	11924.749	0	30590.765-18666.006			-10	.	.	2.5- 2.5	.	.	.	0.900	1.365	465		324*	8383.6168	F2.6JQSI
	11923.040	4					7.0-	8.0		.	.	.170						8384.8185	
1	11922.824	2	10485.922-22409.753			-7	1.0-	2.0	1.0- 2.0	.355	1.413	1058	0.355	1.413	1058		-393	8384.9704	
1	11919.594	0	21263.339-33182.933			0	.	.	5.0- 6.0	.	.	.	0.610	1.050*	440	106	110	8387.2426	
	11918.778	1					.	.		.	.	.						8387.8168	
1	11917.352	2	18897.584-30814.939			-3	5.0-	5.0	5.0- 5.0	1.285	1.120	.165	1.280	1.111	169		-213 -233	8388.8205	
	11916.813	2					.	.		.	.	.						8389.1999	
	11916.772	3H					.	.		.	.	.						8389.2288	
1	11915.657	1	26283.495-38199.170			-18	.	.	7.0- 6.0	.	.	.	1.080	1.068	12		-2	8390.0138	
1	11915.003	3	13517.647-25432.655			0	2.0-	2.0	2.0- 2.0	.887	1.277	.390	0.892	1.281	389		26	8390.4708	
1	11914.310	1	22719.717-34634.053			-26	.	.	9.0- 8.0	.	.	.	1.200	0.000*	0		-193 -183	8390.9624	SIGMA*
1	11913.958	0	28690.482-16776.530			6	.	.	1.0- 1.0	.	.	.	1.195	0.000*	0		235	8391.2103	
	11913.773	1					.	.		.	.	.						8391.3406	
2	11912.601	2	31739.610-19827.020			11	2.5-	1.5	2.5- 1.5	.	.	.555	1.170	1.733*	563	310	310	8392.1662	
1	11912.155	3	21812.682-33724.837			0	4.0-	3.0	4.0- 3.0	.	.	.12	1.040	1.160	120		-065 -70	8392.4804	
	11911.539	0					.	.		.	.	.						8392.9144	
1	11911.355	1C	22182.030-34093.375			10	.	.	2.0- 1.0	.	.	.	1.295	1.310*	15		82	8393.0440	HVLQ
	11911.038	2					.	.		.	.	.						8393.2674	
1	11903.612	8	12322.613-24231.226			-1	2.0-	2.0	2.0- 2.0	1.034	0.409	.625	1.036	0.411	625		-081 -78	8394.9773	F
	11906.997	5					6.0-	7.0		.	.	.09						8396.1159	JQf=2.05
1	11905.545	1	27651.193-15745.648			0	.	.	2.0- 3.0	.	.	.	1.570	1.145	425	173	174	8397.1399	
1	11905.113	0	25617.477-37522.600			-10	.	.	2.0- 3.0	.	.	.	1.360	1.260*	100			8397.4446	CQ
1	11904.764	1	20055.327-31970.100			-9	.	.	3.0- 4.0	.	.	.	0.998	1.100*	102		-199 -202	8397.6908	
1	11904.379	0	20306.482-32210.885			-24	.	.	4.0- 4.0	.	.	.	1.123	0.995	128		-88	8397.9624	
1	11904.143	3	8763.139-20672.283			-1	2.0-	2.0	2.0- 2.0	.362	1.432	1070	0.362	1.430*	1068		-419 -417	8398.1289	F

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
		11903.967	0																			
1		11901.593	4	12046.108-	6144.515	0	4.0-	3.0	4.0-	3.0	.700	1.473	.773	0.694	1.473	779	-040	-43	8398.2531			
1		11898.776	6	16234.379-	28733.159	-4	5.0-	4.0	5.0-	4.0	.96	1.03	.07	0.961	1.035	74	-086	-86	8399.9283	IS*	F	
1		11898.057	1	23705.495-	35603.582	-20	.	.	7.0-	6.0	.	.	.	1.277	1.070*	207	-181	-188	8401.9169	IS*	F	
1		11896.629	2	19074.292-	30970.926	-5	2.0-	1.0	2.0-	1.0	1.538	.276	1262	1.532	0.295	1237	043	37	8402.4176			
1		11894.095	3	19558.257-	31452.362	-10	2.0-	1.0	2.0-	1.0	-0.147	.850	.997	-0.145	0.852	997	158	159	8403.4332			
		11893.350	1																8405.2236			
1		11891.918	1H	19231.917-	31173.814	21	.	.	2.0-	1.0	.	.	.	1.822	0.450*	1372		-155	8405.7430			
		11890.948	0																8406.7623			
1		11890.618	0	21600.100-	33490.744	-26	.	.	6.0-	5.0	.	.	.	1.390	1.084	306		-250	8407.4481			
		11889.511	1B																8407.6814			
		11889.428	2B																8408.4642			
2		11887.786	1	25614.115-	13726.318	-11	.	.	3.5-	2.5	.	.	.	1.480	0.784*	696	457	440	8408.5229			
1		11887.628	0	22219.737-	34107.378	-13	.	.	4.0-	3.0	.	.	.	0.750	1.160*	410	+	9	8409.6844			
1		11886.119	6	15856.888-	27743.009	-2	1.0-	2.0	1.0-	2.0	1.103	0.566	.537	1.103	0.568	535	036	24	8409.7961		F	
		11885.530	1																8410.8638		F	
1		11885.376	3	22160.184-	34045.560	0	8.0-	7.0	8.0-	7.0	1.23	1.18	.05	1.230	1.170*	60	-170	-171	8411.2452	IS*	F	
		11884.261	1																8411.3896		F	
		11882.834	2																8412.1788			
1		11880.096	2	19059.958-	30940.068	-14	.	.	5.0-	5.0	.	.	.	1.375	1.080	295	-328		8413.1890			
		11879.837	2																8415.1280			
		11879.361	0																8415.3114			
1		11879.048	1	13726.661-	25605.707	2	.	.	3.0-	4.0	.	.	.	1.150	1.160	10		-187	8415.6486			
		11878.653	1																8415.8704			
1		11878.623	0	26374.994-	38253.110	-28	.	.	4.0-	4.0	.	.	.	0.000	0.920*	0		-4	8416.1467			
1		11877.856	0	28482.680-	15504.786	-38	.	.	6.0-	6.0	.	.	.	1.180	0.950*	230		-35	8416.5506			
1		11876.742	1C	19594.767-	31471.542	-33	0.0-	1.0	0.0-	1.0	.000	2.187		0.000	2.188	0	192	197	8416.7150			
1		11875.325	0	21337.573-	33212.897	1	.	.	4.0-	4.0	.	.	.	1.137	1.110*	27	-115	-107	8417.5044			
1		11874.209	1	16304.260-	28178.473	-4	.	.	4.0-	3.0	.	.	.	1.285	0.000*	0		-387	8418.5088			
2		11873.707	3	20511.945-	8638.233	-5	4.5-	5.5	4.5-	5.5	1.304	1.514	.210	1.310	1.514	204	164	169	8419.3001			
1		11873.160	1	20984.195-	32857.357	-2	.	.	6.0-	6.0	.	.	.	1.319	1.101	218		-210	8419.6560			
1		11872.668	1H	21307.390-	33180.043	15	.	.	1.0-	2.0	.	.	.	2.360	1.790*	570	034	40	8420.0439			
		11871.459	0																8420.3928			
		11370.237	0																8421.2504			
		11870.026	0																8422.1173			
		11869.612	0																8422.2670			
		11869.230	2	18346.917-	30216.163	-16	2.0-	2.0	2.0-	2.0	1.524	1.154	.370	1.518	1.143	375	-101	-108	8422.5608			
		11867.700	0																8422.8319			
1		11867.091	1	21737.407-	33604.497	1	3.0-	3.0	3.0-	3.0	.	.	.187	1.026	1.210	184		60	8423.9177			
2		11863.044	3	15698.815-	3235.770	-1	1.5-	0.5	1.5-	0.5	1.067	.284	.783	1.079	0.299	780	428	429	8424.3501			
		11862.308	0																8427.2240			
1		11261.872	3H	21737.407-	33599.280	-1	3.0-	2.0	3.0-	2.0	.	.	.576	1.026	1.606	580	-041	-45	8427.7469			
2		11861.403	0	34361.635-	22500.225	-7	.	.	5.5-	5.5	.	.	.	1.222	1.555	333		174	8428.0566			
1		11859.514	4	19426.512-	31236.029	-3	3.0-	2.0	3.0-	2.0	1.435	1.275	.16	1.435	1.280	155	+	13	8428.3899			
1		11858.890	6	18602.505-	30461.399	-4	6.0-	5.0	6.0-	5.0	.92	1.00	.078	0.910	0.990	80	+	31	8429.7324		F	
1		11857.712	0	27651.193-	39508.910	-5	.	.	2.0-	3.0	.	.	.	1.570	0.870	700			8430.1759		F	
1		11857.712	0	18346.917-	30204.635	-6	.	.	2.0-	1.0	.	.	.	1.518	0.590*	928		-95	8431.0134	C2		
2		11856.690	1	32032.585-	20175.895	0	.	.	4.5-	3.5	.	.	.	1.335	1.515	180	282	285	8431.0134	C2		
1		11854.960	3	19553.257-	31413.230	-13	.	.	2.0-	3.0	.	.	.	-0.145	0.742	887	108	110	8431.7401			
1		11853.927	6	11747.245-	23601.171	1	0.0-	1.0	0.0-	1.0	.000	0.568		0.000	0.565	0	-268	-268	8432.9706		F	
		11852.461	0																8433.7055		F	
1		11852.150	0	22818.840-	34670.995	-5	.	.	6.0-	5.0	.	.	.	1.335	1.010*	325		-208	8434.7486			
1		11851.444	9	12351.522-	24202.966	0	.	.	6.0-	5.0	.98	1.01	.03	0.995	1.012	17	-	-8	8434.9700			
2		11850.488	1	22038.950-	10183.463	1	.	.	0.5-	0.5	.	.	.	0.344	2.402	2058		-98	8435.4724		F	
		11350.243	2																8436.1530			
																			8436.3274			

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
	11847.781	0																8438.0805	
2	11847.468	3	33389.920-21542.435	-17	1.5-	2.5	1.5-	2.5	.942	1.281	.339	0.943	1.279	336	252	253	8438.3034		
1	11846.752	1	32519.048-20672.283	-13	2.0-	2.0	2.0-	2.0	.	.	.55	0.880	1.430*	550	135	140	8438.8134		
	11843.027	0																8441.4677	
2	11842.678	1	26535.775-14693.090	-7	0.5-	0.5	0.5-	0.5	-0.070	.840	.910	-0.071	0.840	911	069	69*	8441.7164		
	11842.159	0																8442.0364	
	11842.007	0																8442.1948	
1	11841.402	0	19426.512-31267.919	-5	.	.	3.0-	3.0	.	.	.	1.435	1.080	355	-	-13	8442.6261		
	11841.136	1																8442.8158	
	11839.887	0																8443.7064	
1	11838.788	4	19203.415-31042.204	-1	.	.	2.0-	3.0	1.02	1.01	.01	1.021	1.010	11	-050	-50	8444.4902	F	
1	11838.174	0	23289.640-40127.800	14*	.	.	3.0-	4.0	.	.	.	1.130	1.020*	110			8444.9282		
1	11837.572	1	19281.917-31119.494	-5	.	.	2.0-	2.0	.	.	.	1.822	0.814	1008	-212	-203	8445.3577		
	11834.931	3							1.15	.	.30				-136		8447.2423	SI 2JDGF	
	11834.716	0															8447.3958		
1	11834.434	0	26105.952-37940.455	-19	.	.	2.0-	3.0	.	.	.	1.165	1.170*	5		-129	8447.5614		
	11833.563	0																8448.2153	
1	11832.983	0	19236.116-31069.124	-25	.	.	7.0-	8.0	.	.	.	1.155	1.135	20		-58	8448.6329		
	11832.405	0																8449.0457	
1	11832.011	3	19865.603-31697.633	-19	4.0-	4.0	4.0-	4.0	.	.	.10	1.100	1.187	87	-115	-116	8449.3270		
1	11830.040	0	23314.130-35644.180	-10	.	.	6.0-	7.0	.	.	.	0.890	1.070*	180		78	8450.7347		
1	11829.707	1	21350.311-33180.043	-25	.	.	2.0-	2.0	.	.	.	0.350	1.790*	1440	-140	-122	8450.9726		
1	11828.666	1	16532.104-28360.802	-32	.	.	3.0-	3.0	.	.	.	0.300	0.887	587	079	81	8451.7164		
1	11828.382	0	23735.353-35563.728	7	.	.	2.0-	3.0	.	.	.	0.935	1.204*	269		-167	8451.9193		
1	11828.055	0	18147.975-29976.039	-9	.	.	3.0-	4.0	.	.	.	1.049	1.070	21		-174	8452.1530		
1	11827.393	3	16734.151-28561.548	-4	.	.	2.0-	2.0	.	.	.	0.928	0.784	144	-156	-157	8452.6261	IS* F	
1	11825.742	1	21263.339-33089.092	-11	.	.	5.0-	5.0	.	.	.	0.610	1.069*	459		-11	8453.8061		
1	11824.285	0	17081.874-28906.150	9	.	.	4.0-	5.0	.	.	.	1.217	1.105	112		-221	8454.8478		
2	11824.069	1	28110.650-16286.582	1	.	.	1.5-	0.5	.	.	.	0.899	0.122	1021	349	345	8455.0023		
2	11822.589	0	36326.420-48149.055	-46	.	.	2.5-	3.5	.	.	.	1.099	0.980*	119			8456.0607		
	11822.273	0																8456.2867	
2	11821.892	0	34482.680-46304.585	-13	.	.	2.5-	2.5	.	.	.	1.307	0.980*	327			8456.5593		
1	11821.157	1	22719.717-34540.880	-6*	.	.	9.0-	8.0	.	.	.	1.200	1.270*	70	-232	-251	8457.0851		
1	11820.502	2C	22719.949-34540.469	-18	.	.	4.0-	3.0	.	.	.	1.070	0.888	182	-040	-29	8457.5537		
	11819.273	1																8458.4331	
1	11818.543	0	21600.100-33418.637	6	.	.	6.0-	5.0	.	.	.	1.390	0.872	518		-277	8458.9556		
1	11817.700	3	16155.109-27972.815	-6	.	.	5.0-	4.0	.	.	.	0.948	0.979	31	-080	-83	8459.5590	F	
1	11816.800	3	18297.584-30714.385	-1	.	.	5.0-	4.0	.	.	.	1.280	1.150	130	-106	-107	8460.2033		
	11815.695	0																8460.9945	
1	11815.438	1	21218.180-33033.638	-20	.	.	3.0-	3.0	.	.	.	0.860	0.910	50		-249	8461.1786		
2	11814.961	4	17532.937- 5717.976	0	3.5-	3.5	3.5-	3.5	1.232	1.586	.354	1.238	1.596	358	190	187	8461.5202	IS* F	
1	11813.986	1	16304.260-28118.262	-16	.	.	4.0-	3.0	.	.	.	1.285	1.250*	35	-038	-35	8462.2185		
2	11810.942	3	22537.265-10726.322	-1	5.5-	4.5	5.5-	4.5	1.318	1.392	.074	1.315	1.391	76	192	192	8464.3994	IS* F	
1	11809.744	3	20540.110-32349.853	1	.	.	3.0-	2.0	.	.	.	0.830	0.000*	0	-040	-40	8465.2581	F	
2	11808.788	3	15778.634- 3569.846	0	.	.	1.5-	2.5	.	.	.	1.133	1.670	537	162	158	8465.9434	IS* F	
1	11806.986	3	12159.465-23956.450	1	.	.	4.0-	3.0	.	.	.	0.844	0.760	84	-164	-163	8467.2355	F	
1	11805.981	1	18591.122-30397.106	-3	.	.	4.0-	5.0	.	.	.	0.965	1.005	40		-97	8467.9563		
2	11805.835	2	21048.190- 9242.356	1	.	.	2.5-	3.5	.	.	.	1.030	1.369*	339	153	153	8468.0610	IS* F	
1	11805.642	2	16520.962-28326.610	-6	.	.	5.0-	4.0	.	.	.	0.736	1.260*	524	-107	-114	8468.1994	IS* F	
1	11804.926	7	20384.195- 9179.262	-7	6.0-	5.0	6.0-	5.0	1.316	1.451	.135	1.319	1.454	135	187	187	8468.7131	F	
1	11803.936	3	18591.122-30395.062	-4	.	.	4.0-	4.0	.	.	.	0.965	0.920	45	-174	-174	8469.4233	F	
	11803.026	0																8470.0763	
1	11802.302	6	14853.317-26655.622	-3	4.0-	3.0	4.0-	3.0	.79	1.01	.22	0.786	1.015	229	-108	-109	8470.5959	F	
	11801.970	2																8470.8342	
1	11798.972	7	15074.958-26873.930	0	7.0-	6.0	7.0-	6.0	1.095	1.130	.035	1.097	1.125	28	-057	-57	8472.9866	F	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	11797.202	2	20306.482	-	32103.687	-3	.	.	4.0-	4.0	.	.	.	1.123	1.040	83	-188	-182	8474.2578		
	11795.890	1															-098		8475.2004		
1	11794.598	9	18602.505	-	30397.106	-3	6.0-	5.0	6.0-	5.0	.910	1.004	.094	0.910	1.005	95	115	116	8476.1288	F	
	11792.952	0																	8477.3118		
1	11791.596	8	17554.704	-	29346.299	1	8.0-	7.0	8.0-	7.0	1.17	1.20	.03	1.170	1.200*	30	-081	-80	8478.2867	F	
1	11790.781	0	23578.836	-	35369.610	7	.	.	5.0-	5.0	.	.	.	1.120	1.120*	0	+	12	8478.8727		
1	11790.176	0	24347.551	-	36137.730	-3	.	.	3.0-	2.0	.	.	.	1.300	1.525*	225	-076	-72	8479.3078		
1	11789.625	5	19496.402	-	31296.029	-2	3.0-	2.0	3.0-	2.0	1.545	1.272	.273	1.555	1.280	275	-100	-100	8479.7041	F	
1	11789.354	1	28565.887	-	16776.530	-3	.	.	2.0-	1.0	.	.	.	0.911	0.000*	0		105	8479.8990		
1	11789.042	1	24381.050	-	36170.110	-18*	.	.	5.0-	4.0	.	.	.	1.450	0.942*	508		71	8480.1235		
	11787.050	1																	8481.5566		
1	11786.768	1	21703.960	-	33490.744	-16	.	.	5.0-	5.0	.	.	.	1.120	1.084	36		-222	8481.7595		
	11785.716	2H																-130	8482.5166		
	11783.853	2																+	8483.8577		
	11782.444	3																	207	8484.8722	SI 2JDG
1	11781.542	2	20697.436	-	32478.986	-8	.	.	7.0-	6.0	.	.	.	1.250	1.110	140	-301	-299	8485.5218		
1	11780.978	4	28325.761	-	16604.786	3	.	.	6.0-	6.0	.	.	.	1.025	0.950*	75	004	20	8485.9281	DJO F	
1	11780.691	2	18591.122	-	30371.819	-6	4.0-	3.0	4.0-	3.0	.	.	.320	0.965	0.640	325	-272	-272	8486.1348	F	
1	11780.482	1	15356.833	-	27637.377	-7	.	.	1.0-	1.0	.	.	.	1.103	1.280	177		-179	8486.2854		
2	11778.818	5	19277.180	-	7498.364	2	3.5-	2.5	3.5-	2.5	.842	1.316	.474	0.847	1.321	474	094	95	8487.4842	IS* F	
	11773.593	2																	8487.6464		
	11776.924	0																	8488.8060		
1	11776.540	4H	23207.126	-	34983.667	-1	8.0-	7.0	8.0-	7.0	1.135	1.060	.075	1.135	1.060	75	163	163	8489.1260	SI F	
1	11775.344	3	12177.963	-	23953.307	0	1.0-	2.0	1.0-	2.0	.539	1.276	.737	0.525	1.265	740	-386	-389	8489.9882	IS* F	
1	11774.417	4	16520.962	-	28295.380	-1	.	.	5.0-	4.0	.	.	.	0.736	1.155	419	034	29	8490.6567	IS* F	
1	11773.907	1	18147.975	-	29921.899	-17	.	.	3.0-	2.0	.	.	.	1.049	1.070*	21		-282	8491.0244		
1	11773.420	4	25497.501	-	37272.921	0	9.0-	8.0	9.0-	8.0	1.200	1.175	.025	1.200	1.175	25	054	56	8491.3757	SI F	
1	11771.514	5	19496.402	-	31267.919	-3	3.0-	3.0	3.0-	3.0	1.555	1.090	.465	1.555	1.080	475	-125	-126	8492.7506	F	
1	11770.181	3	18897.584	-	30667.769	-4	.	.	5.0-	4.0	.	.	.	1.280	1.265	15	-290	-285	8493.7124	F	
	11769.278	1																	8494.3641		
2	11768.290	3	26201.645	-	14433.351	-4	.	.	2.5-	1.5	.	.	.	1.036	1.925	889	431	413	8495.0772		
1	11767.510	2	19203.415	-	30970.926	-1	.	.	2.0-	1.0	.	.	.	1.021	0.295	726		-136	8495.6403	F	
1	11767.350	6	23207.126	-	34974.486	0	.	.	8.0-	7.0	1.135	1.135		1.135	1.135	0	079	78	8495.7486	F	
1	11765.679	2	16595.109	-	28360.802	-14	.	.	3.0-	3.0	.	.	.	0.999	0.887	112	-093	-90	8496.9624		
	11765.102	0																	8497.3792		
1	11764.784	0	20990.684	-	32755.472	-4	.	.	5.0-	4.0	.	.	.	1.308	1.005	303		-304	8497.6088		
1	11764.498	2	27975.402	-	39739.870	30*	.	.	7.0-	6.0	.	.	.	1.017	1.140	123	-045	-36	8497.8154		
	11760.622	2																	8500.6161	F	
1	11760.172	9	21998.645	-	10238.473	0	7.0-	6.0	7.0-	6.0	1.268	1.430	.162	1.269	1.431	162	178	178	8500.9414	F	
1	11759.733	1	24090.570	-	35350.314	-11	.	.	7.0-	6.0	.	.	.	1.130	1.040*	90		50	8501.2587		
1	11758.926	2	19776.904	-	31535.835	-5	.	.	6.0-	5.0	.	.	.	1.012	1.020	8		-306	8501.8422	F	
1	11758.506	1	28482.630	-	40241.170	16	.	.	6.0-	7.0	.	.	.	1.180	1.175*	5		-76	8502.1458		
1	11758.252	2	26894.711	-	38652.990	-27	.	.	3.0-	4.0	.	.	.	1.465	1.090*	375			8502.3295	C2	
1	11753.252	2	21812.682	-	33570.935	-1	.	.	4.0-	4.0	.	.	.	1.040	1.130*	90		2	8502.3295	C2	
1	11757.627	2	25371.952	-	37129.590	-1	.	.	6.0-	5.0	.	.	.	1.165	1.010	155		37	8502.7815		
	11757.472	1																-218	8502.8935		
	11756.617	0																	8503.5119		
	11755.993	0																	-148	8503.9633	
1	11755.658	1	19426.512	-	31182.179	-9	.	.	3.0-	4.0	.	.	.	1.435	1.210*	225	-173	-182	8504.2056		
1	11755.151	0	20065.327	-	31820.494	-16	.	.	3.0-	4.0	.	.	.	0.998	1.240	242		-311	8504.5724		
	11754.506	1																	8505.0391		
	11753.291	1																	8505.9183		
1	11751.832	3	19959.027	-	31710.912	-3	1.0-	2.0	1.0-	2.0	.764	.200	.564	0.760	0.200*	560	-224	-227	8506.9381	IS* F	
	11751.702	0																	8507.0684		
1	11751.559	0	24613.274	-	36364.850	-17	.	.	5.0-	4.0	.	.	.	1.160	1.080*	80		-6	8507.1719	C2	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	11751.559	0	23100.887-34852.445		1	.	.	3.0-	3.0	.	.	.	1.520	1.230	290		55	8507.1719	C2	
	11751.147	1C				.	.			.	.	.						8507.4702	
1	11750.912	0	21600.100-33351.007		5	.	.	6.0-	6.0	.	.	.	1.390	1.240*	150		-50	8507.6403		
	11749.417	0				.	.			.	.	.						8508.7229	
	11748.890	0				.	.			.	.	.						8509.1045	
2	11746.064	0	41062.170-29316.115		9	.	.	1.5-	2.5	.	.	.	1.425	1.140	285			8511.1518		
1	11745.472	0	26872.321-33617.815		-22	.	.	1.0-	1.0	.	.	.	2.690	1.035*	1655		42	8511.5807		
	11744.948	0				.	.			.	.	.						8511.9605	
	11744.649	0				.	.			.	.	.						8512.1772	
1	11743.609	7	14912.011-26655.622		-2	4.0-	3.0	4.0-	3.0	.491	1.010	.519	0.496	1.015	519		-12	8512.9310	F	
	11742.248	1				.	.			.	.	.						8513.9177	
1	11741.848	3	27447.115-39188.962		1	.	.	10.0-	11.0	.	.	.	0.000	0.000*	0	016	15	8514.2078	F	
	11741.140	1				.	.			.	.	.						8514.7212	
2	11740.693	4	17242.750- 5502.060		3	2.5-	1.5	2.5-	1.5	1.21	1.17	.04	1.200	1.169*	31	188	189	8515.0454	F	
	11740.392	2				.	.			.	.	.						8515.2637	
1	11739.518	0	18578.669-30318.195		-8	.	.	1.0-	2.0	.	.	.	1.932	0.940	992		30	8515.8976		
	11739.180	0				.	.			.	.	.						8516.1428	
1	11738.508	2	14692.549-26431.101		-44	2.0-	3.0	2.0-	3.0	.29	.81	.52	0.292	0.807	515	-257	-261	8516.6303	SIGMA*PB	
	11735.594	2				.	.			.	.	.						8518.7451	
1	11735.235	2	20597.436-32432.680		-9	.	.	7.0-	7.0	.	.	.	1.250	1.140	110	-168	-171	8519.0057		
1	11734.655	1	17615.432-29350.139		-2	.	.	2.0-	3.0	.	.	.	1.450	0.910	540	-124	-130	8519.4267		
	11733.650	0				.	.			.	.	.				-469		8520.1564	
	11733.196	0				.	.			.	.	.						8520.4861	
2	11731.397	3	23738.900-12007.503		0	2.5-	1.5	2.5-	1.5	.675	0.018	.693	0.679	0.019	698	268	271	8521.7927	IS* F	
	11731.129	1				.	.			.	.	.				-304		8521.9874	B
2	11730.671	3	28894.140-17163.470		1	3.5-	4.5	3.5-	4.5	1.009	1.195	.186	1.009	1.200	191	309	309	8522.3201	IS* F	
	11730.342	0				.	.			.	.	.						8522.5592	
	11730.011	0				.	.			.	.	.						8522.7997	
	11729.487	0				.	.			.	.	.						8523.1804	
	11725.507	0				.	.			.	.	.						8526.0735	
1	11725.245	0	17911.977-29637.242		-20	.	.	5.0-	6.0	.	.	.	1.145	1.020	125		-204	8526.2640		
	11724.933	1				.	.			.	.	.						8526.4872	
1	11724.693	4	18672.411-30397.106		-2	6.0-	5.0	6.0-	5.0	1.203	1.023	.180	1.190	1.005*	185	-115	-115	8526.6654	F	
1	11723.304	1	18591.122-30314.443		-17	.	.	4.0-	3.0	.	.	.	0.965	1.140*	175		-283	8527.6756		
	11722.735	1				.	.			.	.	.						8528.0896	
1	11721.747	5	19496.402- 7774.653		-2	3.0-	4.0	3.0-	4.0	1.550	1.460	.090	1.555	1.463	92	188	188	8528.8084	F	
1	11719.303	3	25397.206-13677.903		0	.	.	1.0-	1.0	.	.	.	0.776	1.442	666	-032	-45	8530.5870	IS* F	
1	11718.547	0	23763.470-35482.018		-1	.	.	4.0-	3.0	.	.	.	0.970	1.679*	709		-174	8531.1374		
1	11717.321	0	17045.776-28763.085		12	.	.	1.0-	0.0	.	.	.	1.474	0.000	0		26	8532.0300		
2	11715.947	0	31542.950-19827.020		17	.	.	1.5-	1.5	.	.	.	1.026	1.733	707			8533.0306		
	11715.415	0				.	.			.	.	.						8533.4181	
1	11714.128	5	19872.154-31586.283		-1	9.0-	8.0	9.0-	8.0	1.199	1.044	.155	1.199	1.053	146	-112	-112	8534.3556	F	
1	11712.223	1W	26009.000-37721.235		-12	.	.	3.0-	4.0	.	.	.	0.870	1.180*	310		-72	8535.7438		
1	11711.916	0	17081.874-28793.800		-10	.	.	4.0-	3.0	.	.	.	1.217	1.083	134	-299	-289	8535.9675		
1	11711.732	0	23281.721-34993.452		1	.	.	5.0-	4.0	.	.	.	1.235	1.213	22		8	8536.1016		
1	11711.716	0	14737.788-26449.501		3	.	.	3.0-	3.0	.	.	.	0.815	0.940*	125		-276	8536.1133		
	11710.294	2				.	.			.	.	.						8537.1498	
1	11709.645	0	19558.257-31267.919		-17	.	.	2.0-	3.0	.	.	.	-0.145	1.080	1225		121	8537.6230		
1	11708.787	1W	19496.402-31205.200		-11	.	.	3.0-	2.0	.	.	.	1.555	1.090*	465	-170	-170	8538.2486		
1	11705.993	5	13726.661-25432.655		-1	3.0-	2.0	3.0-	2.0	1.15	1.27	.12	1.150	1.281	131	+	13	8540.2866	F	
1	11705.552	2	21263.339-32968.906		-15	.	.	5.0-	4.0	.	.	.	0.610	1.115*	505		083	76	8540.6083	
	11703.812	1									-234	8541.8780	
1	11702.813	2	27979.161-16276.332		-16	.	.	2.0-	2.0	.	.	.	1.186	1.880*	694		133	132	8542.6072	
	11701.514	2									+	8543.5555	
1	11700.273	3	16595.109-28295.380		2	.	.	3.0-	4.0	.	.	.	0.999	1.155	156	-139	-146	8544.4617	IS* F	

C	HAVERN	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS			
1	11698.266	2	21998.645-33696.921	-10	.	.	.	.	7.0-	6.0	.	.	.	.	1.269	1.100*	169	-	-66	8545.9277	
1	11693.093	2	22429.924-34128.694	-17	.	.	.	.	4.0-	4.0	.	.	.	.	1.279	0.000*	0	-	-5	8546.0540	C2
1	11698.093	2	25717.388-37415.495	-14	.	.	.	.	5.0-	5.0	.	.	.	.	0.970	0.980*	10	-	-12	8546.0540	C2
	11696.932	1			1.0-	2.0														8546.8658		
1	11693.414	6	9724.351-21417.765	0	3.0-	4.0	3.0-	4.0	.444	.804	.304	0.442	0.802	360	+		40			8549.4737	F	
1	11692.970	1	19426.512-31119.494	-12	.	.	.	.	3.0-	2.0					1.435	0.814	621	-126	-124	8549.7983	
1	11691.026	6	13517.647-25203.672	1	2.0-	2.0	2.0-	2.0	0.887	0.489	.398	0.892	0.490	402	-		-040	-37		8551.2200	F	
1	11690.528	1	21420.983-33111.557	14	.	.	.	.	3.0-	2.0					1.663	1.315	348	+	17	8551.5404	
1	11689.765	2	21600.100-33289.869	-4	.	.	.	.	6.0-	5.0					1.390	1.095	295	-148	-144	8552.1424	IS* F
	11689.401	0																		8552.4087		
1	11689.098	2	20043.465-31732.582	-19	.	.	.	.	5.0-	5.0					0.925	1.049	124		9	8552.6304	
2	11687.311	2	15657.156-3969.846	1	.	.	.	.	2.5-	2.5					1.000	1.670	670	170	159	8553.9381	IS* F
1	11687.010	2	21031.258-32718.268	0	.	.	.	.	2.0-	1.0					1.455	0.600*	855	117	111	8554.1585	IS* F
	11685.732	1																		8554.3619		
	11685.603	1																130			8555.1884	F
1	11685.364	2	21812.682-33498.071	-25	.	.	.	.	4.0-	3.0					1.040	0.770	270		-14	8555.3634	
1	11685.225	2	23231.721-34966.946	0	.	.	.	.	5.0-	4.0					1.235	1.025	210	-092	-90	8555.4652	F
1	11683.320	0	21350.311-33033.638	-7	.	.	.	.	2.0-	3.0					0.350	0.910*	560		-177	8556.8602	C2
1	11683.320	0	25839.917-37523.250	-13	.	.	.	.	6.0-	6.0					1.250	1.055	195		-60	8556.8602	C2
2	11682.686	1	22409.025-10726.322	-17	.	.	.	.	5.5-	4.5					1.205	1.391	186	+	185	8557.3245	CQ
2	11679.165	1	19277.180-30956.365	-20	.	.	.	.	3.5-	2.5					0.847	0.646	201		-33	8559.9044	
	11678.949	0																		8560.0627		
1	11677.936	5	20306.482-31984.470	-2	4.0-	3.0	4.0-	3.0	1.12	1.09	.03	1.123	1.090	33	-		-084	-84		8560.7686	F	
2	11677.329	4	25403.645-13726.318	2	2.5-	2.5	2.5-	2.5	1.025	.778	.247	1.029	0.784	245			354	348		8561.2502	IS*2LNSF	
1	11677.329	4	16155.109-27832.430	8	.	.	.	.	5.0-	4.0					0.948	0.920	28	-092	-90	8561.2502	2LNS F
	11676.952	0																		8561.5267		
1	11676.806	0	23578.836-35255.665	-23	.	.	.	.	5.0-	4.0					1.120	1.080*	40		-62	8561.6337	
1	11676.375	2	22416.990-34093.375	-10	.	.	.	.	2.0-	1.0					1.675	1.310*	365	+	15	8561.9497	
2	11675.376	2	30193.265-18517.872	-17	.	.	.	.	1.5-	0.5					1.364	2.755	1391	315	322	8562.6823	
2	11675.080	2	28838.570-17163.470	-20	.	.	.	.	3.5-	4.5					0.845	1.200	355	268	269	8562.8994	
2	11671.257	3	15641.100-3969.846	3	.	.	.	.	3.5-	2.5					1.040	1.670*	630	171	171	8565.7043	F
1	11670.214	5	22088.306-33758.523	-3	.	.	.	.	6.0-	5.0					1.060	0.830	230	-	-11	8566.4698	F
1	11669.470	2	20654.712-32324.169	13	.	.	.	.	1.0-	0.0					0.200	0.000	0	081	87	8567.0160	CQ
1	11668.846	2	26150.730-37819.580	-4*	.	.	.	.	8.0-	7.0					0.000	1.110*	0	049	50	8567.4741	ISQ
1	11667.359	0	30974.813-19307.447	-7	.	.	.	.	3.0-	4.0					1.050	0.000*	0		33	8568.5660	
1	11667.044	1	26009.000-14341.947	-9	.	.	.	.	3.0-	2.0					0.870	0.852*	18	162	173	8568.7974	
1	11666.345	1	23004.649-34670.995	-1	.	.	.	.	5.0-	5.0					1.196	1.010*	186	-173	-175	8569.3108	
1	11664.853	3	12351.522-24016.378	-3	6.0-	5.0	6.0-	5.0	.991	1.558	.567	0.995	1.560	565	-		-388	-389		8570.4069	F	
1	11663.617	2	20306.482-31970.100	-1	.	.	.	.	4.0-	4.0					1.123	1.100*	23	-189	-188	8571.3151	IS* F
1	11662.569	2	16834.379-28496.950	-2	.	.	.	.	5.0-	4.0					0.961	0.810	151	-181	-179	8572.0853	F
1	11661.433	3	22509.712-34171.155	-10	.	.	.	.	5.0-	5.0					1.287	1.230	57	-	-22	8572.9204	
1	11658.399	1	30995.841-19337.431	-11	2.0-	1.0	2.0-	1.0	1.47	2.41	.94	1.470	2.410*	940			128	133		8575.1514		
1	11657.350	0	24970.474-35627.825	-1	.	.	.	.	4.0-	4.0					1.460	0.980*	480		49	8575.9230	C2
1	11657.350	0	22176.323-33833.699	-26	.	.	.	.	1.0-	2.0					1.210	0.930*	280		-45	8575.9230	C2
	11656.977	0																		8576.1975		
	11656.424	0																		8576.6043		
1	11656.189	0	24381.050-36037.220	19	.	.	.	.	5.0-	5.0					1.450	1.155*	295			8576.7772	
	11655.949	0																		8576.9538		
	11655.421	0																		8577.3424		
	11654.377	0																		8578.1107		
1	11653.628	0	26149.538-37803.250	-24	.	.	.	.	4.0-	3.0					1.360	1.081*	279		-20	8578.6179	
	11652.859	0																		8579.2208		
1	11652.431	2H	18672.411-30324.858	-16	.	.	.	.	6.0-	7.0					1.190	1.170*	20		-129	8579.5433	
1	11651.857	7	19426.512-7774.653	-2	3.0-	4.0	3.0-	4.0	1.43	1.46	.03	1.435	1.463	28			074	75		8579.9660	F	
1	11651.285	2	17031.874-28733.159	0	.	.	.	.	4.0-	4.0					1.217	1.035	182	-102	-103	8580.3872	

C	HAVENTUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	11649.229	3	16223.909-28533.138			0	.	.	6.0-	7.0	.	.	.	1.098	1.060	38	-193	-191	8581.9016	IS* F	
1	11648.733	3	21812.682-33461.419			-4	.	.	4.0-	3.0	.	.	.	1.040	0.950*	90	-124	-129	8582.2670	IS* F	
1	11647.283	4	32613.160-27970.881			4	3.0-	2.0	3.0-	2.0	.269	.194	.075	0.270	0.194*	76	061	61	8583.3354	HAZY F	
1	11645.346	2H	27975.402-32620.765			-17	.	.	7.0-	6.0	.	.	.	1.017	0.965	52		-38	8584.7631	C2	
1	11645.346	2H	32618.160-27972.815			1	.	.	3.0-	4.0	.	.	.	0.270	0.979*	709		-74	8584.7631	C2	
	11645.116	1					8584.9327		
1	11643.840	3	12322.613-23966.450			3	.	.	2.0-	3.0	.	.	.	1.036	0.760	276	-165	-166	8585.8735	F	
1	11643.176	2	13517.647-25160.827			-4	.	.	2.0-	3.0	.	.	.	0.892	0.800	92		-10	8586.3631		
1	11642.930	2	30361.813-18718.882			-1	.	.	2.0-	2.0	.	.	.	1.044	0.504	540	+	-258	8586.5445	CQ F	
	11642.789	0					8586.6485		
	11642.591	0					-130	8586.7946		
2	11642.435	2	31964.795-20322.349			-11	.	.	6.5-	6.5	.	.	.	1.189	1.314	125			8586.9096		
	11641.593	0					8587.5307		
1	11641.281	1	39618.160-27976.881			2	.	.	3.0-	3.0	.	.	.	0.270	1.080*	810	+	-12	8587.7608		
	11640.823	0					8588.0987		
1	11640.378	0	19558.257-31198.642			-7	.	.	2.0-	3.0	.	.	.	-0.145	1.070	1215		122	8588.4270		
	11638.985	0					8589.4549		
1	11637.908	0	22518.312-34156.245			-25	.	.	2.0-	1.0	.	.	.	1.350	1.305	45		-86	8590.2498		
1	11637.485	1	18578.669-30216.163			-9	.	.	1.0-	2.0	.	.	.	1.932	1.143	789		37	8590.5621		
2	11637.091	0	31485.455-43122.525			21	.	.	1.5-	2.5	.	.	.	1.300	0.000*	0			8590.8529	C2	
2	11637.091	0	41243.080-29606.060			71	.	.	3.5-	4.5	.	.	.	1.145	0.790	355			8590.8529	C2	
1	11636.802	3	28241.585-16604.786			3	.	.	5.0-	6.0	.	.	.	1.180	0.950*	230		-21	8591.0663	F	
	11636.474	1					8591.3084		
	11635.157	0					+	8592.2809		
	11634.944	0					8592.4382		
1	11633.845	4	21737.407-33371.251			1	3.0-	3.0	3.0-	3.0	1.033	1.120	.087	1.026	1.113	87	040	36	8593.2499	IS* F	
1	11633.272	0	23578.836-35212.127			-19	.	.	5.0-	6.0	.	.	.	1.120	1.130*	10		53	8593.6732		
1	11632.926	0	30225.210-41853.135			1	.	.	2.0-	3.0	.	.	.	1.300	1.090	210			8593.9288		
1	11632.290	0	20065.327-31697.633			-16	.	.	3.0-	4.0	.	.	.	0.998	1.187	189		-125	8594.3986		
1	11631.509	1	30974.813-19343.298			-6	.	.	3.0-	3.0	.	.	.	1.050	1.135*	85	302	309	8594.9757		
	11630.934	0					+	8595.4006		
1	11630.695	2	12322.613-23953.307			1	2.0-	2.0	2.0-	2.0	1.030	1.263	.233	1.036	1.265	229	-387	-393	8595.5773	F	
1	11630.082	4	14025.007-25655.090			-1	4.0-	4.0	4.0-	4.0	.980	1.167	.187	0.975	1.165	190	-296	-294	8596.0303	F	
1	11629.510	0	25371.962-37001.490			-18	.	.	6.0-	6.0	.	.	.	1.165	1.035	130		-4	8596.4531		
1	11628.417	9	12177.963-23806.381			-1	1.0-	1.0	1.0-	1.0	.518	.087	.431	0.525	0.094	431	-122	-123	8597.2611	F	
1	11626.646	5	16734.151-28360.802			-5	2.0-	3.0	2.0-	3.0	.93	.89	.04	0.928	0.887	41	-112	-114	8598.5707	F	
1	11626.396	4	19776.904-31493.302			-2	6.0-	5.0	6.0-	5.0	1.012	1.204	.192	1.012	1.205	193	-307	-307	8598.7556	IS* F	
1	11625.906	0H	27837.955-39513.870			-9*	.	.	1.0-	1.0	.	.	.	0.870	0.965*	95		-108	8599.1180	HAZY C2	
1	11625.906	0H	25617.477-37243.390			-7	.	.	2.0-	3.0	.	.	.	1.360	1.300*	60			8599.1180	HAZY C2	
	11625.154	0H					8599.6743		
1	11623.776	0C	32296.170-20672.390			-4*	.	.	1.0-	1.0	.	.	.	0.935	0.000*	0		189	8600.6938		
	11623.117	0					8601.1814		
2	11622.304	0	31798.195-20175.895			4	.	.	4.5-	3.5	.	.	.	1.290	1.515*	225		358	8601.7831		
1	11622.077	0	32294.378-20672.283			-18	.	.	2.0-	2.0	.	.	.	1.016	1.430*	414		183	8601.9511		
	11619.622	2					8603.7685		
1	11619.269	2H	27563.217-39182.490			-4	.	.	1.0-	2.0	.	.	.	0.745	0.990*	245		-21	8604.0299	HAZY C2	
1	11619.269	2H	18591.122-30210.416			-25	.	.	4.0-	4.0	.	.	.	0.965	1.160*	195		-236	8604.0299	HAZY C2	
	11618.973	2					8604.2491		
1	11618.605	0	27755.977-39374.580			2	.	.	3.0-	3.0	.	.	.	1.370	0.885	485			8604.5216		
	11618.412	0					8604.6646		
1	11617.904	3	25959.849-14341.947			2	1.0-	2.0	1.0-	2.0	1.035	.843	.192	1.037	0.852	185	188	188	8605.0408	IS* F	
1	11617.189	2	21737.407-33354.592			4	.	.	3.0-	3.0	.	.	.	1.026	0.000*	0	079	83	8605.5704		
1	11615.556	4	19558.257-31173.814			-1	2.0-	1.0	2.0-	1.0	-0.145	.460	.605	-0.145	0.450*	595	062	58	8606.7803	IS* F	
	11614.111	3					122		8607.8511	F
	11613.863	3						8608.0349	IIQ F

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	11613.330	OB	15424.387-27037.718			-1	.	.	3.0-	2.0	.	.	.	1.106	1.300*	194		-336	8608.4300	C2	
1	11613.330	OB	23274.853-34288.198			-10	.	.	4.0-	5.0	.	.	.	1.604	1.070	534		47	8608.4300	C2	
1	11613.250	1B	25109.417-35722.663			4	.	.	8.0-	9.0	.	.	.	1.090	1.110*	20		-176	8608.4893	SIGMA*	
1	11613.185	3	22377.599-33990.780			4	.	.	7.0-	6.0	.	.	.	1.076	0.920*	156	-165	-163	8608.5375		
2	11612.904	1	32670.835-21057.925			-6	2.5-	2.5	2.5-	2.5	1.360	1.585	.225	1.361	1.590	229		257	8608.7458		
1	11612.651	0	21420.983-33033.638			-4	.	.	3.0-	3.0	.	.	.	1.663	0.910	753		-62	8608.9333		
	11612.031	0								8609.3930	
2	11610.682	1	28774.175-17163.470			-23	.	.	3.5-	4.5	.	.	.	1.140	1.200*	60	375	372	8610.3933		
	11608.563	0								8611.9650	
1	11608.117	3	13517.647-25125.763			1	2.0-	1.0	2.0-	1.0	.895	.325	.570	0.892	0.314	578	-024	-24	8612.2959	IS*	
1	11607.138	1H	22671.890-34279.010			18	.	.	1.0-	1.0	.	.	.	0.599	1.710*	1111		-243	8613.0223	F	
1	11603.820	6	16532.104-23135.924			0	3.0-	2.0	3.0-	2.0	.301	1.100	.799	0.300	1.101*	801	-155	-153	8615.4851	F	
1	11602.062	5	20830.616-32432.680			-2	8.0-	7.0	8.0-	7.0	1.11	1.13	.02	1.110	1.140*	30	-180	-180	8616.7906	F	
1	11601.383	8	20877.600-32478.986			-3	7.0-	6.0	7.0-	6.0	1.060	1.110	.050	1.060	1.110*	50	-075	-74	8617.2949	F	
	11600.814	0								8617.7176	
1	11600.133	0	26301.732-37901.880			-15	.	.	5.0-	4.0	.	.	.	1.060	1.166*	106		-13	8618.2235		
	11599.987	0								8618.3319	
1	11599.420	0	24437.792-36037.220			-8	.	.	4.0-	5.0	.	.	.	1.500	1.155*	345			8618.7532		
1	11599.140	0	20385.328-31984.470			-2	.	.	2.0-	3.0	.	.	.	1.911	1.090	821		163	8618.9613		
	11597.239	1								8620.3741	
	11597.112	0								8620.4685	
1	11596.182	7	14853.317-26449.501			-2	4.0-	3.0	4.0-	3.0	.776	.920	.144	0.786	0.940*	154	-202	-202	8621.1599	PB F	
	11595.723	1								8621.5011	
1	11594.008	1	21263.339-32857.357			-10	.	.	5.0-	6.0	.	.	.	0.610	1.101*	491		73	8622.7764		
1	11593.650	3	25121.896-13528.246			0	1.0-	1.0	1.0-	1.0	1.440	0.590	2030	1.444	0.590*	2034	173	175	8623.0427	F	
2	11592.715	1	27879.305-16286.582			-8	0.5-	0.5	0.5-	0.5	.800	0.120	.920	0.802	0.122	924		347	8623.7382		
1	11591.665	0	21218.180-32309.844			1	.	.	3.0-	4.0	.	.	.	0.860	0.900	40		-199	8624.5193		
1	11591.381	1	25681.552-37272.921			12	.	.	7.0-	8.0	.	.	.	1.039	1.175	136		-151	8624.7306		
	11590.056	3								8625.7166	
1	11588.984	3	24216.272-35805.270			-14	.	.	6.0-	5.0	.	.	.	1.005	1.075	70		-118	8626.5145		
1	11588.365	2	19426.512-31014.877			0	.	.	3.0-	4.0	.	.	.	1.435	1.170	265		-26	8626.9753	F	
	11588.024	0								8627.2292	
1	11587.511	1	30905.445-19317.922			-12	.	.	6.0-	5.0	.	.	.	0.000	0.000*	0		-62	8627.6111	CQ F	
2	11587.130	0	33784.830-22197.670			-30	.	.	4.5-	3.5	.	.	.	1.070	1.530	460			8627.8948		
1	11586.944	0	20457.704-32044.652			-4	.	.	0.0-	1.0	.	.	.	0.000	0.800	0		123	8628.0333		
1	11586.215	2	19865.603-31451.814			4	.	.	4.0-	4.0	.	.	.	1.100	1.080	20		-133	8628.5762	F	
	11586.176	3								8628.6053	
1	11586.131	2	25371.962-36958.090			3*	.	.	6.0-	5.0	.	.	.	1.165	1.000	165		-42	8628.6388	F	
1	11585.169	2	20043.465-31628.619			15	.	.	5.0-	6.0	.	.	.	0.925	1.110	185		86	8629.3553		
1	11585.008	2	22307.633-33892.650			-9	.	.	3.0-	3.0	.	.	.	1.434	1.060	374		-108	8629.4752	F	
1	11584.050	8	6313.866-17397.917			-1	4.0-	3.0	4.0-	3.0	.485	.45	.035	0.487	0.450	37	051	45	8630.1888	F	
1	11583.361	2	16595.109-28178.473			-3	.	.	3.0-	3.0	.	.	.	0.999	0.000*	0		-344	8630.7022		
	11582.668	2								8631.2186	F
	11581.444	0								8632.1308	
2	11581.135	1	33123.580-21542.435			-10	.	.	2.5-	2.5	.	.	.	1.285	1.279	6		418*	8632.3611		
1	11578.208	1	21350.311-32928.540			-21	.	.	2.0-	2.0	.	.	.	0.350	1.060*	710		-121	8634.5434		
1	11577.782	7	14853.317-26431.101			-2	.	.	4.0-	3.0	.78	.78		0.786	0.807	21	-186	-186	8634.8611	PB F	
	11577.539	2								8635.0423	F
1	11576.801	0	21603.247-33130.043			5	.	.	2.0-	2.0	.	.	.	0.060	1.790*	1730		-60	8635.5928		
1	11576.168	2	19203.415-30779.535			-2	2.0-	3.0	2.0-	3.0	.	.	.165	1.021	0.860	161	-154	-153	8636.0650	SO F	
1	11575.725	0	25064.653-36640.400			-22	.	.	3.0-	3.0	.	.	.	0.930	1.035	55		40	8636.3955		
1	11575.572	0	25839.917-37415.495			-6	.	.	6.0-	5.0	.	.	.	1.250	0.980	270		-134	8636.5097		
1	11575.405	0	21227.793-32803.199			-1	.	.	4.0-	3.0	.	.	.	1.346	0.825	521		-62	8636.6343		
1	11575.064	0	22518.312-34093.375			1	.	.	2.0-	1.0	.	.	.	1.350	1.310*	40	+	7	8636.8887		
2	11571.283	2	17073.340-5502.060			3	1.5-	1.5	1.5-	1.5	.570	1.175	.605	0.576	1.169	593	191	186	8639.7109	IS* F	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS - J1	TERM J2	TERM - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
2	11571.033	3	27059.565-15488.530	-2	4.5- 3.5	4.5- 3.5	1.03	1.07	.04	1.030	1.057*	27	246	246	8639.8975	SO IS*	F		
1	11570.745	3	15249.635-26820.380	0	2.0- 2.0	2.0- 2.0	.715	1.159	.444	0.715	1.160	445	-296	-296	8640.1126	PB	F		
1	11569.538	1	18591.122-30160.664	-4	. . .	4.0- 4.0	. . .	. . .	. . .	0.965	1.030	65	-168	-166	8641.0140		
	11568.424	2													8641.8461				
	11567.621	0													8642.4460				
1	11566.944	0	17615.482-29182.445	-19	. . .	2.0- 1.0	. . .	. . .	. . .	1.450	0.000*	0		-128	8642.9518		
	11566.776	1													8643.0774				
	11565.702	2													8643.8800		F		
1	11563.808	2	18397.584-30461.399	-7	. . .	5.0- 5.0	. . .	. . .	. . .	1.280	0.990	290		-204	8645.2957		F
1	11563.227	7	20877.600-32440.827	0	7.0- 6.0	7.0- 6.0	1.06	1.12	.06	1.060	1.120*	60	-016	-16	8645.7301	IS*	F		
	11561.947	2													8646.6873				
1	11561.234	3	19558.257-31119.494	-3	2.0- 2.0	2.0- 2.0	-0.145	.805	.950	-0.145	0.814	959	+	10	8647.2205		F		
	11561.046	2													8647.3611				
	11560.587	0													8647.7045				
1	11560.227	0	23100.837-34661.105	9	. . .	3.0- 4.0	. . .	. . .	. . .	1.520	1.100	420		194	8647.9738		
	11559.948	0													8648.1825				
2	11559.176	1	33756.860-22197.670	-14	3.5- 3.5	3.5- 3.5	1.272	1.531	.259	1.272	1.530	258	249	253	8648.7601				
1	11558.568	4	21812.682-33371.251	-1	4.0- 3.0	4.0- 3.0	1.050	1.124	.074	1.040	1.113	73	-030	-35	8649.2150	IS*	F		
	11558.127	3													8649.5450		F		
1	11557.229	2	15856.898- 4299.659	0	1.0- 2.0	1.0- 2.0	1.102	1.482	.380	1.103	1.482	379	135	131	8650.2171		F		
1	11555.486	2	23814.130-35369.610	6	. . .	6.0- 5.0	. . .	. . .	. . .	0.890	1.120*	230	058	58	8651.5219	IS*	F
1	11555.076	5	20877.600-32432.680	-4	7.0- 7.0	7.0- 7.0	. . .	. . .	.080	1.060	1.140*	80	049	54	8651.8289		F
1	11553.231	1H	25074.585-36627.825	-9	. . .	4.0- 4.0	. . .	. . .	. . .	1.507	0.980	527		155	8653.2105	C2	
1	11553.231	1H	23413.710-34966.946	-5	. . .	4.0- 4.0	. . .	. . .	. . .	0.000	1.025*	0		-188	8653.2105	C2	
	11552.248	0H											247		8653.9469				
1	11547.627	4	19265.603-31413.230	0	4.0- 3.0	4.0- 3.0	1.101	.747	.354	1.100	0.742	358	-132	-126	8657.4099	IS*	F		
1	11545.804	3	19496.402-31042.204	2	3.0- 3.0	3.0- 3.0	1.545	1.010	.535	1.555	1.010	545	-088	-90	8658.7769		F		
1	11545.332	0	28868.619-17323.291	4	. . .	5.0- 4.0	. . .	. . .	. . .	1.085	1.250*	165		214	8659.1309		
1	11545.151	0	24824.706-36359.870	-13	. . .	4.0- 5.0	. . .	. . .	. . .	1.145	1.069	76		-180	8659.2666		
1	11544.682	0	25083.129-36627.825	-14	. . .	5.0- 4.0	. . .	. . .	. . .	1.160	0.980*	180		-174	8659.6184		
1	11544.209	1	22088.306-33632.520	-5	. . .	6.0- 5.0	. . .	. . .	. . .	1.060	1.305	245		64	8659.9732		
2	11543.439	0	28481.495-40025.010	-26	. . .	4.5- 3.5	. . .	. . .	. . .	1.070	0.900*	170		-110	8660.5134		
	11542.895	0													8660.9590				
1	11541.906	0	21812.682-33354.592	-4	. . .	4.0- 3.0	. . .	. . .	. . .	1.040	0.000*	0		12	8661.7012		
1	11541.658	0	38485.490-26943.829	-3*	. . .	4.0- 5.0	. . .	. . .	. . .	1.145	1.220	75			8661.8873		
1	11540.814	3	16595.109-28135.924	-1	. . .	3.0- 2.0	. . .	. . .	. . .	0.999	1.101	102	-298	-324	8662.5207	IS*	F
	11540.257	1													8662.9389				
1	11539.859	3	23207.126-34746.981	4	. . .	8.0- 8.0	. . .	. . .	. . .	1.135	0.000*	0	165	164	8663.2376		F
2	11538.940	2	32283.420-43822.335	25	. . .	2.5- 2.5	. . .	. . .	. . .	1.045	0.950*	95	-044	-44*	8663.9276		F
1	11537.428	9	14912.011-26449.501	-2	4.0- 3.0	4.0- 3.0	.492	.948	.456	0.496	0.940*	444	-104	-105	8665.0180	PB	F		
	11536.058	0													8666.0921				
2	11530.913	2	30292.495-18761.580	-2	6.5- 5.5	6.5- 5.5	1.123	1.296	.173	1.123	1.296	173	312	312	8669.9588	IS*	F		
1	11530.614	1	19426.512-30957.140	-14	. . .	3.0- 2.0	. . .	. . .	. . .	1.435	0.930	455	-120	-115	8670.1837		
1	11528.736	2	25870.685-14341.947	-2	. . .	2.0- 2.0	. . .	. . .	. . .	1.170	0.852	318	156	156	8671.5960	IS*	F
1	11528.166	6	16304.260-27832.430	-4	4.0- 4.0	4.0- 4.0	. . .	. . .	.357	1.285	0.920	365	-090	-94	8672.0248		F
1	11528.127	4	19236.116-30764.244	-1	7.0- 6.0	7.0- 6.0	. . .	. . .	.17	1.155	0.975	180	-238	-240	8672.0541		
2	11527.779	0	33339.920-21852.135	-6	. . .	1.5- 2.5	. . .	. . .	. . .	0.943	1.320*	377		222	8672.3159		
1	11527.449	0	30066.252-18538.782	-21	. . .	1.0- 2.0	. . .	. . .	. . .	0.476	1.600	1124		78	8672.5642		
1	11526.339	5	20540.110-32066.452	-3	3.0- 2.0	3.0- 2.0	.83	.83	.05	0.830	0.910*	80	-020	-20	8673.3994	IS*	F		
	11525.695	0													8673.8840				
2	11524.782	0	17242.750- 5717.976	8	. . .	2.5- 3.5	. . .	. . .	. . .	1.200	1.596*	396		169	8674.5711		
1	11523.895	0	20385.323-31909.212	11	. . .	2.0- 1.0	. . .	. . .	. . .	1.911	0.823	1023		189	8675.2388		
1	11523.151	4	15595.109-28118.262	-2	3.0- 3.0	3.0- 3.0	.995	1.250	.255	0.999	1.250*	251	5	8	8675.7990	IS*	F		
2	11522.620	1	28586.100-17163.470	-10	. . .	5.5- 4.5	. . .	. . .	. . .	1.290	1.200*	90	414	377	8676.1988		
1	11522.263	1	26664.150-38186.420	-7	. . .	6.0- 5.0	. . .	. . .	. . .	1.135	0.952	183	-	-15	8676.4676		

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	11519.025	7	14912.011-26431.101		-2	4.0-	3.0	4.0-	3.0	.496	.807	.311	0.496	0.807	311	-088	-89	8678.8591	PB F
1	11513.472	3	11840.715-23359.187		0	3.0-	3.0	3.0-	3.0			.22	0.811	1.030*	219	-376	-374	8679.3232	F
1	11515.919	2	21350.311-32866.230		0			2.0-	1.0	.35	.35		0.350	0.320*	30		-190	8681.2474	F
1	11515.665	2	29088.272-17572.608		1	3.0-	2.0	3.0-	2.0	1.005	.545	.460	1.005	0.555	450	147	133	8681.4389	IS* F
1	11514.577	1	23004.649-34519.250		-24			5.0-	5.0				1.196	1.170*	26	-126	-126	8682.2592	
1	11514.003	2	20305.482-31820.494		-4			4.0-	4.0				1.123	1.240	117	-297	-297	8682.6882	
1	11513.783	2	16155.109-27668.890		2			5.0-	5.0				0.948	1.312	364	-133	-274	8682.8579	ISQ F
1	11513.013	3	24090.570-35603.582		1	7.0-	6.0	7.0-	6.0	1.13	1.07	.06	1.130	1.070*	60	037	44	8683.4386	F
1	11511.592	2	19865.603-31377.193		2	4.0-	4.0	4.0-	4.0			.130	1.100	0.973	127	-188	-190	8684.5105	IS* F
1	11510.773	4	18602.505-30113.280		-2	6.0-	6.0	6.0-	6.0	.910	1.052	.142	0.910	1.050	140	105	111	8685.1284	IS* F
1	11503.719	5	12159.465-23668.184		0	4.0-	4.0	4.0-	4.0			.083	0.844	0.940*	96	-110	-110	8686.6785	PB F
1	11503.603	4	18066.108-29554.716		-5			4.0-	3.0				0.694	0.831	137		43	8686.7661	F
1	11507.679	3	14853.317-26350.997		-1			4.0-	5.0	.81	.81		0.786	0.796	10	-171	-171	8687.4636	F
1	11506.630	3	22377.599-33884.230		-1	7.0-	7.0	7.0-	7.0			.024	1.076	1.105	29	-325	-326	8688.2555	IS* F
	11505.987	0																8688.7411	
	11505.349	2								1.11								8689.2229	F TRIPL
1	11505.102	3	22219.737-33724.837		2	4.0-	3.0	4.0-	3.0			.410	0.750	1.160	410		-5	8689.4094	F
1	11504.357	3	20709.458-32213.814		1	3.0-	2.0	3.0-	2.0	1.242	.726	.516	1.240	0.725	515	167	167	8689.9722	IS* F
	11502.353	2																8691.4862	F
1	11501.760	9	19776.904-31278.667		-3	6.0-	5.0	6.0-	5.0	1.012	1.011	.001	1.012	1.010*	2	-122	-121	8691.9343	F
1	11500.902	2	16304.260-27805.163		-1	4.0-	5.0	4.0-	5.0			.246	1.285	1.024	261	-153	-151	8692.5827	IS* F
	11497.667	1B														278		8695.0285	
1	11497.471	1	18297.584-30395.062		-7			5.0-	4.0				1.280	0.920	360	-196	-196	8695.1767	
1	11497.050	1C	16155.109-27652.180		-21			5.0-	6.0				0.948	1.250	302		-389	8695.4951	
1	11496.225	2	25113.744-35609.983		-14			6.0-	7.0				1.302	1.195	107	10	-1	8696.1191	IS* F
1	11494.931	1	25717.338-37212.310		9			5.0-	5.0				0.970	0.990*	20		-8	8697.0981	
	11492.704	1H																8698.7834	
1	11492.223	2	16834.379-28326.610		-3			5.0-	4.0				0.961	1.260*	299	-304	-306	8699.1437	IS* F
1	11491.978	2	18591.122-30083.102		-2			4.0-	5.0				0.965	1.150*	185	-103	-197	8699.3329	ISQ F
1	11489.905	2	12159.465-23649.372		-2			4.0-	4.0				0.844	0.000*	0		-359	8700.9024	F
1	11486.900	0	24534.240-36021.165		-25			2.0-	3.0				0.000	1.048*	0		37	8703.1786	
	11486.542	0																8703.4499	
2	11486.253	0	32544.185-21057.925		-7			3.5-	2.5				1.130	1.590	460		216	8703.6689	
	11485.903	0																8703.9341	
1	11484.367	0	22671.890-34156.245		12			1.0-	1.0				0.599	1.305	706		-239	8705.0982	
1	11483.768	6	12322.613-23806.381		0	2.0-	1.0	2.0-	1.0	1.039	.097	.942	1.036	0.094	942	-127	-127	8705.5523	F
1	11483.130	1	19776.904-31260.046		-12			6.0-	6.0				1.012	1.210*	198		-387	8706.0360	
	11482.102	3																8706.8154	F
1	11482.011	7	13726.661-25208.672		0	3.0-	2.0	3.0-	2.0	1.146	.481	.665	1.150	0.490	660	-047	-50	8706.8844	IS* F
	11481.753	2H																8707.0801	F
1	11480.595	6	18602.505-30083.102		-2	6.0-	5.0	6.0-	5.0	.92	1.15	.23	0.910	1.150*	240	10	16	8707.9583	IS* F
2	11480.087	1	28225.815-16745.720		-8			3.5-	2.5				1.200	1.671*	471		298	8708.3437	
1	11479.622	0	27755.977-16276.332		-23			3.0-	2.0				1.370	1.880*	510		130	8708.6964	
1	11473.966	0	21703.960-33182.933		-7			5.0-	6.0				1.120	1.050	70		-150	8709.1941	
1	11478.815	1	23281.721-34760.532		4			5.0-	6.0				1.235	1.140*	95		36	8709.3087	
1	11478.279	0	28569.792-40048.030		-9*			3.0-	3.0				1.245	1.005	240			8709.7154	
1	11477.315	0	20540.110-32017.434		-9			3.0-	4.0				0.830	1.020*	190		-8	8710.4469	
1	11477.161	0	23720.664-35197.829		-4			3.0-	3.0				0.790	1.030*	290	+	9	8710.5638	
1	11477.027	2	18147.975-29625.003		-1			3.0-	2.0				1.049	0.910*	139	-199	-199	8710.6655	IS* F
	11476.437	1																8711.1133	
	11476.235	0																8711.2666	
	11475.637	0																8711.7206	
1	11472.555	2	24091.173-35563.728		0			3.0-	3.0				1.245	1.204	41	-117	-117	8714.0609	F
1	11472.266	0	21337.573-32809.844		-5			4.0-	4.0				1.137	0.900	237		-158	8714.2804	
	11471.936	0																8714.5311	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	11470.967	5	17615.432-	6144.515	0	.	.	2.0-	3.0	1.46	1.47	.01	1.450	1.473	23	123	124	8715.2673	F	
1	11469.875	0	19074.292-	30514.187	-20	.	.	2.0-	3.0	.	.	.	1.532	0.946	586	.	52	8716.0970		
1	11469.383	6	18602.505-	30071.890	-2	6.0-	5.0	6.0-	5.0	.92	1.28	.36	0.910	1.290*	380	-076	-74	8716.4709	F	
1	11467.798	2	14737.788-	26205.531	-3	.	.	3.0-	3.0	.	.	.	0.815	0.701	114	-198	-197	8717.6756	F	
1	11465.487	4	21703.960-	10238.473	0	.	.	5.0-	6.0	.	.	.	1.120	1.431	311	163	163	8719.4328	F	
1	11464.292	3	23705.495-	35169.790	-3	.	.	7.0-	6.0	.	.	.	1.277	1.120*	157	.	-251	8720.3417	DJ1	
1	11462.661	0	22429.954-	33392.650	-5	.	.	4.0-	3.0	.	.	.	1.279	1.060	219	.	5	8721.5825		
1	11460.999	2	16834.379-	28295.380	-2	.	.	5.0-	4.0	.	.	.	0.961	1.155	194	-161	-163	8722.8472	IS* F	
1	11460.736	3	19496.402-	30957.140	-2	3.0-	2.0	3.0-	2.0	1.552	.978	.574	1.555	0.980	575	-228	-228	8723.0474	F	
	11460.269	1H																8723.4029	HAZY	
1	11459.444	2H	30766.862-	19307.447	29	.	.	5.0-	4.0	.	.	.	0.950	0.000*	0	.	-115	8724.0309		
	11458.919	1																8724.4306		
1	11456.632	0	20984.195-	32440.827	0	.	.	6.0-	6.0	.	.	.	1.319	1.120*	199	-245	-245	8726.1722		
1	11455.255	0	20521.579-	31976.844	-10	.	.	6.0-	7.0	.	.	.	1.246	1.095	151	-167	-167	8727.2212	IS*	
	11454.195	3										1034				-025		8728.0288	DJ0 2JD6	
	11453.405	0																8728.6308		
	11452.199	2																8729.5500	GHOSTQ F	
1	11451.848	8	16520.962-	27972.815	-5	5.0-	4.0	5.0-	4.0	.737	.980	.243	0.736	0.979	243	131	131	8729.8176	F	
1	11451.420	2	6313.866-	17765.281	5	.	.	4.0-	3.0	.	.	.	0.487	1.680*	1193	.	-397	8730.1439	F	
1	11449.323	2	25371.962-	36321.290	-5	.	.	6.0-	5.0	1.16	1.16	.00	1.165	1.162	3	-062	-62	8731.7428	F	
1	11448.985	6	14912.011-	26360.997	-1	4.0-	5.0	4.0-	5.0	.49	.80	.31	0.496	0.796	300	-071	-74	8732.0006	F	
1	11444.777	2	16532.104-	27976.881	0	.	.	3.0-	3.0	.	.	.	0.300	1.080	780	066	65	8735.2112	IS* F	
1	11444.323	2	16734.151-	28178.473	1	.	.	2.0-	3.0	.	.	.	0.928	0.000*	0	-370	-368	8735.5577	IS* F	
1	11443.099	2	23550.352-	34993.452	-1	.	.	3.0-	4.0	.	.	.	1.090	1.213*	123	+	45	8736.4921	F	
1	11442.635	3	21737.407-	33180.043	-1	.	.	3.0-	2.0	.	.	.	1.026	1.790*	764	35	30	8736.8464	IS* F	
1	11442.481	5	16155.109-	27597.590	0	.	.	5.0-	4.0	.96	.96	.	0.948	0.930	18	-101	-105	8736.9640	F	
1	11441.676	7	9336.801-	20828.475	2	5.0-	4.0	5.0-	4.0	.802	.353	.449	0.801	0.352	449	-191	-191	8737.5787	F	
2	11441.201	0	18720.075-	7278.862	-12	.	.	3.5-	4.5	.	.	.	1.060	1.545	485	.	112	8737.9414		
1	11440.867	3	18672.411-	30113.280	-2	.	.	6.0-	6.0	.	.	.	1.190	1.050*	140	-120	-120	8738.1965	F	
	11440.002	2															-083	8738.8572	IS* F	
1	11438.969	4	14912.011-	26350.982	-2	.	.	4.0-	4.0	.	.	.	0.496	0.796	300	25	26	8739.6464	IS* F	
1	11438.777	7	16532.104-	27970.881	0	3.0-	2.0	3.0-	2.0	.300	.202	.098	0.300	0.194	106	-010	-8	8739.7931	IS* F	
	11438.178	2															-088	8740.2508	F	
1	11435.253	0	16202.112-	27637.377	-12	.	.	0.0-	1.0	.	.	.	0.000	1.280	0	.	-162	8742.4865		
1	11434.166	5	13726.661-	25160.827	0	3.0-	3.0	3.0-	3.0	1.149	.801	.348	1.150	0.800	350	-031	-23	8743.3176	F	
	11433.864	0																8743.5485		
1	11433.471	3	13517.647-	24951.118	0	.	.	2.0-	3.0	.	.	.	0.892	0.840	52	-025	-23	8743.8491	IS* F	
	11432.964	0																8744.2368		
1	11432.749	0	29299.312-	40732.070	-9	.	.	1.0-	2.0	.	.	.	1.307	1.040*	267	.	.	8744.4012		
1	11431.887	2	28036.676-	16604.786	-3	.	.	6.0-	6.0	.	.	.	1.216	0.950*	266	.	-19	8745.0606	F	
1	11431.711	2	11747.245-	23178.955	1	0.0-	1.0	0.0-	1.0	0.00	1.13	.	0.000	1.130*	0	.	-413	8745.1952	F	
1	11430.151	4	15406.760-	26836.911	0	1.0-	2.0	1.0-	2.0	.880	1.250	.370	0.890	1.260*	370	-244	-242	8746.3888	HKPB F	
2	11427.563	3	26916.090-	15488.530	3	.	.	2.5-	3.5	.	.	.	1.040	1.057*	17	367	367	8748.3696	IS* F	
1	11426.930	3	23207.126-	34634.053	3	.	.	8.0-	8.0	.	.	.	1.135	0.000*	0	060	59	8748.8542	F	
2	11425.408	0	20063.650-	8638.233	-9	.	.	4.5-	5.5	.	.	.	1.049	1.514	465	101	99	8750.0197		
	11424.707	2															+	8750.5566	F	
1	11424.532	2	16304.260-	27728.796	-4	.	.	4.0-	3.0	.	.	.	1.285	1.060	225	-128	-134	8750.6906	IS* F	
	11424.016	0																8751.0859		
1	11423.209	6	12177.963-	23601.171	1	1.0-	1.0	1.0-	1.0	.525	.565	.040	0.525	0.565	40	-271	-271	8751.7041	F	
1	11420.206	0	20984.195-	32404.416	-15	.	.	6.0-	5.0	.	.	.	1.319	1.055	264	.	-166	8754.0054		
2	11419.392	4	23426.895-	12007.503	0	2.5-	1.5	2.5-	1.5	1.343	-0.017	1360	1.340	-0.019	1359	383	383	8754.6294	IS* F	
	11418.766	0																8755.1094		
1	11417.894	0	21337.573-	32755.472	-5	.	.	4.0-	4.0	.	.	.	1.137	1.005	132	.	-254	8755.7780		
1	11417.240	1	22182.030-	33599.280	-10	.	.	2.0-	2.0	.	.	.	1.295	1.606	311	026	26	8756.2796		
	11415.120	2																8757.9058	F	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	11413.616	2	15405.760-26820.380	-4	.	.	.	.	1.0-	2.0	.	.	.	0.890	1.160	270		-225	8759.0598	F
1	11412.859	2	26283.495-37696.345	9	.	.	.	.	7.0-	6.0	.	.	.	1.080	1.066	14		93	8759.6408	F
1	11412.666	4	19553.257-30970.926	-3	2.0-	1.0	2.0-	1.0	-0.148	.297	.445			-0.145	0.295	440	070	71	8759.7889	F
2	11412.104	0	43943.935-32531.815	-16	.	.	.	.	1.5-	2.5	.	.	.	1.095	1.010*	85			8760.2203	F
1	11410.877	2	21307.390-32718.268	-1	.	.	.	.	1.0-	1.0	.	.	.	2.360	0.600*	1760		48	8761.1623	F
1	11410.689	3	18572.411-30083.102	-2	6.0-	5.0	6.0-	5.0	1.190	1.145	.045			1.190	1.150*	40	-211	-215	8761.3066	F
1	11408.875	2	24149.361-35558.235	1	.	.	.	.	5.0-	4.0	.	.	.	1.262	0.990	272		-36	8762.6997	F
1	11408.789	2	22719.949-34128.739	-1	.	.	.	.	4.0-	3.0	.	.	.	1.070	1.106	36		-21	8762.7657	F
	11408.340	2																	8763.1106	F
1	11408.237	5	22719.717-34127.955	-1	9.0-	8.0	9.0-	8.0	1.200	1.185	.015			1.200	1.185*	15	-143	-144	8763.1897	SI F
1	11405.199	0	21703.960-33110.165	-6	.	.	.	.	5.0-	4.0	.	.	.	1.120	1.220*	100		-239	8764.7555	F
	11405.584	0															124		8765.2281	ISQ
	11402.911	0																	8767.2828	
1	11402.314	5	19865.603-31267.919	-2	4.0-	3.0	4.0-	3.0	1.10	1.09	.01			1.100	1.080	20	-115	-115	8767.7419	F
1	11401.774	2	16734.151-28135.924	1	2.0-	2.0	2.0-	2.0	.93	1.10	.17			0.928	1.101	173	-344	-348	8768.1571	IS* F
1	11401.014	4	14692.549-26093.563	0	2.0-	1.0	2.0-	1.0	.294	-.091	.385			0.292	-0.082	374	-154	-154	8768.7416	F
1	11399.477	2	18672.411-30071.890	-2	6.0-	5.0	6.0-	5.0	1.190	1.295	.105			1.190	1.290*	100	-305	-305	8769.9239	F
1	11398.832	2	19558.257-30957.140	-1	.	.	.	.	2.0-	2.0	.	.	.	-0.145	0.980	1125		19	8770.3817	F
1	11397.157	0	20984.195-32381.372	-20	.	.	.	.	6.0-	5.0	.	.	.	1.319	1.190	129		-308	8771.7091	F
1	11395.984	0	15424.387-26820.380	-9	3.0-	2.0	3.0-	2.0	1.100	1.165	.065			1.106	1.160	54	-284	-289	8772.6120	F
1	11393.620	1	21031.258-32424.890	-12	2.0-	1.0	2.0-	1.0	1.430	1.757	.327			1.455	1.770*	315		55	8774.4322	F
	11391.325	2																	8776.2000	F
1	11391.152	1	20306.482-31697.633	1	.	.	.	.	4.0-	4.0	.	.	.	1.123	1.187	64		-111	8776.3333	F
1	11390.844	2	24091.173-35482.018	-1	.	.	.	.	3.0-	3.0	.	.	.	1.245	1.679	434		-23	8776.5706	F
1	11338.109	2	23578.836-34966.946	-1	.	.	.	.	5.0-	4.0	.	.	.	1.120	1.025*	95		-100	8778.6784	F
1	11337.426	2	22719.949-34107.378	-3	.	.	.	.	4.0-	3.0	.	.	.	1.070	1.160*	90	10	6	8779.2049	IS* F
1	11384.762	2	22219.737-33604.497	2	4.0-	3.0	4.0-	3.0	.750	1.212	.462			0.750	1.210	460	45	54	8781.2592	IS* F
	11383.791	3																	8782.0082	F
2	11382.299	1	28421.805-17039.487	-19	.	.	.	.	2.5-	1.5	.	.	.	0.878	1.354	476	248	258	8783.1594	F
2	11381.088	2	22107.410-10726.322	0	5.5-	4.5	5.5-	4.5	1.364	1.391	.027			1.362	1.391*	29	198	198	8784.0940	F
	11379.380	2																	8785.4124	IS* F
1	11378.376	3	17911.977-29290.355	-2	.	.	.	.	5.0-	6.0	.	.	.	1.145	0.920	225	-200	-199	8786.1876	F
1	11378.291	2	14912.011-26290.302	0	.	.	.	.	4.0-	5.0	.	.	.	0.496	1.125	629		-200	8786.2533	F
1	11375.770	4	16595.109-27970.881	-2	3.0-	2.0	3.0-	2.0	.997	.201	.796			0.999	0.194	805	-176	-179	8788.2004	F
	11374.428	1																	8789.2373	
1	11374.150	2	21737.407-33111.557	0	.	.	.	.	3.0-	2.0	.	.	.	1.026	1.315	289	55	54	8789.4521	IS* F
	11373.255	2																	8790.1438	F
1	11370.616	4H	27975.402-16604.786	0	7.0-	6.0	7.0-	6.0	1.017	.950	.067			1.017	0.950*	67		-067	8792.1839	SI F
1	11368.542	3	16155.109-27523.650	1	5.0-	6.0	5.0-	6.0	.948	1.085	.137			0.948	1.080	132	-110	-112	8793.7879	F
	11365.194	1C																	8796.3784	F
	11364.947	1																	8796.5696	F
1	11364.622	3	16304.260-27658.890	-8	.	.	.	.	4.0-	5.0	.	.	.	1.285	1.312	27	-277	-278	8796.8211	F
1	11364.038	2	25706.036-14341.947	-1	.	.	.	.	2.0-	2.0	.	.	.	1.290	0.852	438		156	8797.2345	F
1	11361.627	4	21600.100-10238.473	0	6.0-	6.0	6.0-	6.0	1.380	1.430	.050			1.390	1.431	41	191	191	8799.1400	F
	11361.359	2																	8799.3476	HAZY F
1	11359.834	2	20043.465-31403.302	-3	5.0-	5.0	5.0-	5.0	.925	1.205	.280			0.925	1.205	280	-070	-64	8800.5289	F
	11354.678	0																	8804.5251	
1	11353.317	0	29118.602-17765.281	-4	.	.	.	.	4.0-	3.0	.	.	.	1.510	1.680*	170		190	8805.5806	F
1	11352.310	6	14853.317-26205.539	-38	4.0-	3.0	4.0-	3.0	.781	.694	.087			0.786	0.701	85	-123	-123	8806.3617	PB F
1	11347.900	2	20055.327-31413.230	-3	3.0-	3.0	3.0-	3.0	1.000	.744	.256			0.998	0.742	256	-133	-135	8809.7840	IS* F
1	11347.370	2	30056.252-18718.882	0	1.0-	2.0	1.0-	2.0	.475	.520	.045			0.476	0.504	28	-263	-263	8810.1955	IS* F
1	11345.937	0	19372.154-31218.105	-14	.	.	.	.	9.0-	8.0	.	.	.	1.199	1.155	44		-215	8811.3082	F
1	11343.510	2	23909.585-35253.102	-7	.	.	.	.	5.0-	5.0	.	.	.	1.242	1.110*	132	-155	-162	8813.1934	F
	11342.614	2																	8813.8896	F
1	11342.315	6	20521.579- 9179.262	-2	6.0-	5.0	6.0-	5.0	1.244	1.452	.208			1.246	1.454	208	183	183	8814.1220	F

C	WAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
1	11340.770	2	19203.415-30544.187	-2				2.0-	3.0					1.021	0.946	75	-122	-121	8815.3228	F
2	11338.639	3	25064.950-13726.318	-3				1.5-	2.5					0.530	0.784	204	211	208	8816.9795	IS* F
1	11337.146	2	19059.958-30397.106	-2				5.0-	5.0					1.375	1.005	370	-113	-119	8818.1407	F
1	11334.837	2	14737.788-26072.627	-2				3.0-	2.0					0.815	1.500*	685	-363	-366	8819.9370	IS* F
1	11333.899	2	23720.664-35054.565	-2				3.0-	3.0					0.790	0.998*	208		30	8820.6669	F
1	11333.730	5	20043.465-31377.193	2			5.0-	4.0	5.0-	4.0	.93	.98	.05	0.925	0.973	48	35	39	8820.7985	IS* F
1	11333.040	2	19865.603-31198.642	1				4.0-	3.0					1.100	1.070	30	-128	-114	8821.3355	IS* F
1	11330.328	3	22028.306-33418.637	-3			6.0-	5.0	6.0-	5.0	1.060	.870	.190	1.060	0.872	188	-040	-36	8823.4470	IS* F
2	11325.836	4	14561.607-3235.770	-1			1.5-	0.5	1.5-	0.5	1.145	.297	.848	1.149	0.299	850	280	281	8826.9465	F
1	11325.619	0	37615.923-26290.302	-2				5.0-	5.0					1.095	1.125	30		122	8827.1156	F
1	11324.660	2	27643.693-38968.370	-17				4.0-	5.0					1.310	1.065*	245	-025		8827.8631	IS* F
2	11323.241	0	33520.920-22197.670	-9				4.5-	3.5					0.996	1.530	534			8828.9694	F
1	11322.091	2	22719.949-34042.040	0				4.0-	4.0					1.070	0.806	264		84	8829.8662	F
1	11319.324	4	22377.599-33696.921	2			7.0-	6.0	7.0-	6.0	1.075	1.100	.025	1.076	1.100*	24	-082	-75	8832.0247	F
1	11318.847	3	25660.792-14341.947	2				1.0-	2.0					1.146	0.852	294		199	8832.3969	F
2	11318.024	2	28481.495-17163.470	-1				4.5-	4.5					1.070	1.200*	130	321	321	8833.0391	IS* F
	11317.629	2																	8833.3474	DJO F
1	11316.704	3	22181.368-33498.071	1				3.0-	3.0	.785	.785			0.780	0.770*	10	25	26	8834.0694	IS* F
2	11315.102	2	28478.585-17163.470	-13				3.5-	4.5					1.175	1.200	25		321*	8835.3202	F
1	11314.039	8	13517.647-2203.606	-2			2.0-	1.0	2.0-	1.0	.888	1.491	.603	0.892	1.495	603	181	180	8836.1503	F
1	11313.847	4	21263.339-32577.204	-18				5.0-	4.0					0.610	0.980*	370		-2	8836.3002	MVLQ F
1	11313.535	4	14292.176-25505.707	4				5.0-	4.0					0.970	1.160	190	-184	-184	8836.5439	F
	11312.816	3															-246		8837.1055	IS* F
	11312.655	2																	8837.2313	F
	11312.411	2																	8837.4219	F
1	11312.038	3	11840.715-23152.755	-2				3.0-	2.0					0.811	0.580	231	-417	-411	8837.7133	F
1	11311.466	7	16520.962-27832.430	-2			5.0-	4.0	5.0-	4.0	.736	.920	.184	0.736	0.920	184	124	124	8838.1602	F
2	11309.568	0	33309.795-22500.225	-2				5.5-	5.5					1.180	1.555	375		367	8839.6435	F
1	11309.192	1	27054.840-15745.648	0				4.0-	3.0					1.225	1.145	80		153	8839.9374	F
1	11307.533	1	21337.573-32645.106	0				4.0-	5.0	1.13	1.13	.00		1.137	1.135	2		-190	8841.2343	F
2	11305.111	2	23312.615-12007.503	-1			1.5-	1.5	1.5-	1.5			.69	0.680	0.019*	699		413	8843.1285	2LNS F
	11305.111	2																	8843.1285	2LNS F
1	11304.031	5	18046.108-29350.139	0			4.0-	3.0	4.0-	3.0	.687	.899	.212	0.694	0.910	216	36	37	8843.9734	IS* F
1	11302.751	2	29068.029-17765.281	3				2.0-	3.0					1.284	1.680*	396		169	8844.9749	F
1	11300.324	3	16532.104-27832.430	-2			3.0-	4.0	3.0-	4.0	.310	.930	.620	0.300	0.920	620	104	120	8846.8746	IS* F
1	11296.233	2	21737.407-33033.638	2				3.0-	3.0					1.026	0.910	116		-25	8850.0786	F
1	11294.860	2	22429.984-33724.837	7				4.0-	3.0					1.279	1.160	119		-17	8851.1544	F
1	11293.576	6	14912.011-25205.589	-2			4.0-	3.0	4.0-	3.0	.497	.702	.205	0.496	0.701	205	-025	-26	8852.1607	IS* PB F
1	11293.331	4	16304.260-27597.590	1				4.0-	4.0					1.285	0.930	355	-108	-109	8852.3527	F
1	11292.328	2	17911.977-29204.308	-3				5.0-	5.0					1.145	0.896	249		-219	8853.1390	F
1	11285.304	4	19059.958-7774.653	-1			5.0-	4.0	5.0-	4.0	1.373	1.463	.090	1.375	1.463	88	185	190	8858.6493	F
1	11285.201	2	20425.711-31710.912	0				1.0-	2.0					1.340	0.200	1140		-282	8858.7301	F
1	11284.200	2	16520.962-27805.163	-1				5.0-	5.0					0.736	1.024	283		67	8859.5160	F
1	11283.180	2	19496.402-30779.585	-3				3.0-	3.0					1.555	0.860	695	-194	-193	8860.3169	F
	11280.722	2															-040		8862.2475	F
1	11279.405	2	20697.436-31976.844	-3				7.0-	7.0					1.250	1.095	155		-167	8863.2822	F
1	11279.067	0	24742.092-36021.165	-6				4.0-	3.0					0.980	1.048*	68		26	8863.5479	F
1	11278.559	4	12322.613-23601.171	1			2.0-	1.0	2.0-	1.0	1.035	.530	.435	1.036	0.565	471	-273	-275	8863.9471	GQ F
1	11278.325	4	22219.737-33498.071	-9			4.0-	3.0	4.0-	3.0	.72	.75	.03	0.750	0.770	20		51	8864.1310	F
2	11278.118	3	26766.650-15483.530	-2				2.5-	3.5					1.058	1.057	1		358	8864.2937	F
1	11275.769	2	18578.669-29854.442	-4				1.0-	1.0					1.932	1.180*	752		-2	8866.1403	F
1	11275.531	3	25517.477-14341.947	1			2.0-	2.0	2.0-	2.0	1.360	.852	.508	1.360	0.852*	508	125	125	8866.3275	F
1	11270.708	3	20540.110-31810.821	-3			3.0-	2.0	3.0-	2.0	.830	.865	.035	0.830	0.865*	35	108	111	8870.1216	F
2	11269.593	3	20511.945-9242.356	4			4.5-	3.5	4.5-	3.5	1.310	1.369	.059	1.310	1.369	59	191	181	8870.9992	IS* F
1	11268.746	3	14025.007-25293.751	2			4.0-	3.0	4.0-	3.0	.975	.965	.010	0.975	0.965	10	-380	-382	8871.6660	F

C	HA	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HA	LENGTH	NOTES	
		11266.816	2																				
1		11265.944	0	23766.136-35032.090		-10	1.0-	0.0	1.0-	0.0		2.17	0.00		2.162	0.000	0		81*		8873.1857	F	
		11265.292	2																			8873.8725	
2		11264.918	4	23272.420-12007.503		1	2.5-	1.5	2.5-	1.5		.944	-0.026	.970	0.951	-0.019	970	318	319		8874.3861	F	
1		11264.271	3	27269.060-16604.786		-3	.	.	7.0-	6.0		.	.	.	1.250	0.950*	300				8874.6807	F	
1		11263.761	2	9724.351-20988.110		2	.	.	3.0-	4.0		.	.	.	0.442	1.374	932				8875.1905	F	
1		11263.479	3	24090.570-35354.050		-1	.	.	7.0-	7.0		.	.	.	1.130	0.000*	0	072	74		8875.5923	F	
1		11262.984	3	21603.247-32856.230		1	2.0-	1.0	2.0-	1.0		.07	.32	.25	0.060	0.320*	260	-128	-128		8875.8145	F	
1		11260.245	2	28832.853-17572.608		0	.	.	2.0-	2.0		.	.	.	0.000	0.555*	0				8876.2046	IS	
		11257.679	2																			8878.3637	F
1		11256.104	2	23814.130-35070.230		4	.	.	6.0-	5.0		.	.	.	0.890	0.869	21				8880.3874	F	
2		11250.265	2	24976.585-13726.318		-2	3.5-	2.5	3.5-	2.5		.953	.778	.175	0.960	0.784	176	340	340		8881.6300	F	
1		11249.898	2	25591.845-14341.947		0	.	.	3.0-	2.0		.	.	.	0.990	0.852*	138				8886.2397	IS*	
1		11242.730	3	16734.151-27976.881		0	2.0-	3.0	2.0-	3.0		.937	1.091	.154	0.928	1.080	152	-132	-130		8886.5296	F	
1		11240.150	2	19074.292-30314.443		-1	.	.	2.0-	3.0		.	.	.	1.532	1.140*	392				8892.1953	IS*	
		11239.937	3																			8894.2364	F
1		11239.750	2	26283.495-37523.250		-5	.	.	7.0-	6.0		.	.	.	1.080	1.055	25				8894.4050	F	
1		11238.700	3	29901.880-41140.580		0	8.0-	7.0	8.0-	7.0		1.45	1.47	.02	1.450	1.470*	20	055	54		8894.5529	F	
1		11238.632	3M	16304.260-27542.874		18	.	.	4.0-	5.0		.	.	.	1.285	1.270*	15				8895.3839	HAZY	
		11238.344	2																			8895.4378	F
1		11236.728	3	16734.151-27970.881		-2	.	.	2.0-	2.0		.	.	.	0.928	0.194	734	-208	-203		8895.6657	F	
1		11232.749	3	22088.306-33321.067		-12	6.0-	5.0	6.0-	5.0		1.043	1.178	.135	1.060	1.200*	140	034	41		8896.9451	IS*	
1		11232.459	4	24090.570-35323.031		-2	7.0-	6.0	7.0-	6.0		1.13	1.07	.06	1.130	1.090	40	000	1		8900.0966	IS*	
1		11231.233	2	15424.387-26655.622		-2	.	.	3.0-	3.0		.	.	.	1.106	1.015	91				8900.3264	SI	
1		11229.983	2	23763.470-34993.452		1	4.0-	4.0	4.0-	4.0		.980	1.223	.243	1.070	1.213*	243				8901.2980	F	
1		11229.350	1	20306.482-31535.835		-3	.	.	4.0-	5.0		.	.	.	1.123	1.020	103				8902.2888	F	
1		11224.456	5	13726.661-24951.118		-1	3.0-	3.0	3.0-	3.0		1.150	.840	.31	1.150	0.840	310	-036	-36		8902.7906	F	
1		11223.159	3	25499.501-36722.663		-3	.	.	9.0-	9.0		.	.	.	1.200	1.110	90	063	63		8906.6724	F	
2		11221.711	3	18720.075-7498.364		0	3.5-	2.5	3.5-	2.5		1.05	1.31	.265	1.060	1.321	261	128	128		8907.7017	F	
1		11221.325	2	19558.257-30779.585		-3	.	.	2.0-	3.0		.	.	.	-0.145	0.860	1005				8908.8511	IS*	
1		11220.955	2	21812.682-33033.638		-1	.	.	4.0-	3.0		.	.	.	1.040	0.910	130				8909.1575	F	
1		11220.698	3	20065.327-31286.029		-4	3.0-	2.0	3.0-	2.0		1.00	1.28	.28	0.998	1.280	282	-098	-98		8909.4513	F	
2		11220.501	3	28259.990-17039.487		-2	1.5-	1.5	1.5-	1.5		1.263	1.355	.092	1.263	1.354	91	489	446		8909.6554	F	
		11217.838	2																			8909.8118	IS*
		11216.572	1																			8911.9269	F
1		11215.716	2	14763.705-25979.424		-3	1.0-	1.0	1.0-	1.0		-0.069	1.261	1330	-0.066	1.260	1326	-269	-276		8912.9328	F	
1		11213.504	3	17081.874-28295.380		-2	.	.	4.0-	4.0		.	.	.	1.217	1.155	62	-184	-180		8913.6130	F	
1		11210.905	5	16532.104-27743.009		0	3.0-	2.0	3.0-	2.0		.300	.566	.266	0.300	0.568	268	175	175		8915.3714	F	
1		11205.781	3	22181.368-33387.151		-2	3.0-	2.0	3.0-	2.0		.782	1.288	.506	0.780	1.288*	508	-072	-79		8917.4382	F	
		11204.759	2																			8921.5158	PB
1		11202.519	3	22160.184-33362.705		-2	.	.	8.0-	7.0		.	.	.	1.230	1.140*	90	-196	-199		8922.3296	F	
1		11202.164	1	18147.975-29350.139		0	.	.	3.0-	3.0		.	.	.	1.049	0.910	139				8924.1137	F	
		11199.392	2																			8924.3965	F
1		11198.003	2	32186.115-20983.110		-2	.	.	4.0-	4.0		.	.	.	1.212	1.374	162				8926.6054	F	
1		11196.970	5	19872.154-31069.124		0	9.0-	8.0	9.0-	8.0		1.199	1.135	.064	1.199	1.135	64	-066	-66		8927.7126	F	
1		11190.353	2	29028.272-17897.917		-2	.	.	3.0-	3.0		.	.	.	1.005	0.450	555				8928.5363	F	
1		11187.281	3	20385.328-31572.610		-1	2.0-	1.0	2.0-	1.0		1.911	2.401	.490	1.911	2.403	492	042	46		8933.8159	F	
1		11184.433	2	20697.436-31821.871		-2	.	.	7.0-	7.0		.	.	.	1.250	1.120	130				8936.2691	IS*	
2		11177.937	2	13192.903-2014.966		0	2.5-	1.5	2.5-	1.5		.365	1.880	1515	0.372	1.881	1509				8938.5446	F	
		11177.241	3M																			8943.7392	F
1		11174.513	3	22429.984-33604.497		0	4.0-	3.0	4.0-	3.0		1.280	1.215	.065	1.279	1.210	69	045	42		8944.2962	F	
1		11174.304	2	18897.534-30071.890		-2	.	.	5.0-	5.0		1.29	1.29		1.280	1.290*	10	-308	-309		8946.4797	F	
1		11173.224	2	22181.368-33354.592		0	.	.	3.0-	3.0		.	.	.	0.780	0.000*	0				8946.6470	F	
1		11170.801	3	20540.110-31710.912		-1	3.0-	2.0	3.0-	2.0		.83	.20	.63	0.830	0.200*	630	-308	-307		8947.5118	F	
		11170.011	3				4.0-	3.0				1.24	1.20	.04								8949.4526	F
																						8950.0855	F

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	11167.451	2	20709.458-31876.909	0				3.0- 2.0					1.240	0.000*	0	010	13	8952.1372	F
2	11163.123	4	23170.720-12007.503	-29		0.5-	1.5	0.5- 1.5		1.082	0.019	1101	1.082	0.019*	1101	420	421	8955.5559	F
1	11163.165	4	19776.904-33940.068	1		6.0-	5.0	6.0- 5.0		1.01	1.08	.07	1.012	1.030	68	-104	-96	8955.5744	IS* F
1	11160.643	2	23909.585-35070.230	-2				5.0- 5.0					1.242	0.869	373		-23	8957.5981	F
1	11160.466	2	19959.027-31119.494	-1				1.0- 2.0					0.760	0.814*	54		84	8957.7401	F
1	11156.548	4	16155.109-27311.658	-1				5.0- 5.0					0.948	1.035	87	-033	-84	8960.8860	F
	11153.191	2														115		8963.5831	F
1	11151.514	3	22219.737-33371.251	0				4.0- 3.0					0.750	1.113	363	30	30	8964.9311	IS* F
1	11147.906	2	16595.109-27743.009	6				3.0- 2.0					0.999	0.568	431	10	4	8967.8326	IS* F
1	11146.903	2	20425.711-31572.610	4		1.0-	1.0	1.0- 1.0		1.340	2.418	1078	1.340	2.403	1063	50	49	8968.6395	IS* F
1	11146.229	2	20830.616-31976.844	1				8.0- 7.0					1.110	1.095*	15	-176	-176	8969.1818	F
1	11141.276	2	23578.836-34720.110	2				5.0- 4.0					1.120	1.030*	90		-292	8973.1692	F
2	11140.566	3	25573.915-14433.351	2		1.5-	1.5	1.5- 1.5		1.627	1.930	303	1.627	1.925	298	238	219	8973.7411	IS* F
1	11138.714	3	20043.465-31182.179	0				5.0- 4.0					0.925	1.210*	285	-051	-55	8975.2331	IS* F
1	11138.432	2	16834.379-27972.815	-4				5.0- 4.0					0.961	0.979	18		-61	8975.4604	F
1	11135.825	2	14025.007-25160.827	5				4.0- 3.0					0.975	0.800	175		-22	8977.5616	F
	11135.649	2																8977.7035	F
1	11134.855	2	22219.737-33354.592	0				4.0- 3.0					0.750	0.000*	0		77	8978.3437	F
1	11133.418	5	11840.715-22974.132	1		3.0-	3.0	3.0- 3.0		.811	1.147	.336	0.811	1.147	336	-145	-144	8979.5025	F
1	11133.310	2	20065.327-31198.642	-5				3.0- 3.0					0.998	1.070	72		-123	8979.5896	F
1	11131.214	1	16520.962-27652.180	-4				5.0- 6.0					0.736	1.250	514		-175	8981.2805	F
2	11128.969	3	15098.815- 3969.846	0		1.5-	2.5	1.5- 2.5		1.060	1.670	610	1.079	1.670	591	405	403	8983.0923	F
1	11127.217	5	20306.482- 9179.262	-3		4.0-	5.0	4.0- 5.0		1.125	1.454	.329	1.123	1.454	331	170	169	8984.5067	F
	11125.670	2																8985.7560	F
	11125.527	2																8985.8715	F
	11125.290	2																8986.0629	GHOSTQ F
	11125.177	2																8986.1542	GHOSTQ F
1	11124.728	7	15424.387- 4299.659	0		3.0-	2.0	3.0- 2.0		1.099	1.476	.376	1.106	1.482	376	183	183	8986.5168	F
	11124.237	2																8986.9135	GHOSTQ F
1	11124.111	2	28447.410-17323.291	-8*				4.0- 4.0					1.025	1.250*	225		348*	8987.0153	F
	11123.866	2																8987.2132	GHOSTQ F
	11123.726	2																8987.3263	GHOSTQ F
	11123.489	3																8987.5178	GHOSTQ F
1	11123.347	2	29021.267-17897.917	-3				4.0- 3.0					0.000	0.450*	0		-266	8987.6325	GHOSTQ F
1	11122.931	6	18897.584- 7774.653	0		5.0-	4.0	5.0- 4.0		1.285	1.467	.182	1.280	1.463	183	189	190	8987.9687	F
1	11122.192	2	26150.730-37272.921	1				8.0- 8.0					0.000	1.175*	0	015	13	8988.5659	F
1	11121.556	2	24090.570-35212.127	-1				7.0- 6.0					1.130	1.130*	0		77	8989.0799	F
1	11121.066	2	13517.647-24638.713	0				2.0- 2.0					0.892	0.000*	0		-397	8989.4760	F
1	11120.374	3	24648.621-13528.246	-1		0.0-	1.0	0.0- 1.0			-0.58		0.000	0.590*	0	162	162	8990.0354	PB F
1	11115.024	3	21603.247-32718.268	3		2.0-	1.0	2.0- 1.0		.06	.61	.550	0.060	0.600*	540	-049	-52	8994.3626	IS* F
2	11113.782	4	24340.100-13726.318	0		1.5-	2.5	1.5- 2.5		1.025	.784	241	1.025	0.784*	241	603	603	8995.3677	F
1	11113.340	2	22160.184-33273.528	-4				8.0- 7.0					1.230	1.070*	160		-238	8995.7255	F
	11110.548	2						1.0- 0.0		.675	.000							8997.9861	F
1	11107.100	3	15406.760- 4299.659	-1		1.0-	2.0	1.0- 2.0		.895	1.482	.587	0.890	1.482	592	125	119	9000.7793	IS* F
1	11107.041	2	20521.579-31628.619	1				6.0- 6.0					1.246	1.110	136	-154	-152	9000.8271	F
1	11104.126	5	9724.351-20828.475	2		3.0-	4.0	3.0- 4.0		.447	.351	.096	0.442	0.352	90	-187	-187	9003.1900	F
	11100.577	1																9006.0685	F
1	11099.240	2	20877.600-31976.844	-4				7.0- 7.0					1.060	1.095*	35	53	58	9007.1533	IS* F
1	11098.275	4	23578.836-34677.111	0		5.0-	4.0	5.0- 4.0		1.12	1.08	.04	1.120	1.080*	40	-037	-42	9007.9365	IS* F
1	11097.504	3	17911.977-29009.483	-2		5.0-	4.0	5.0- 4.0		1.134	.687	.447	1.145	0.695	450	-178	-178	9008.5623	F
1	11094.612	2	22028.306-33182.933	-15				6.0- 6.0					1.060	1.050	10		63	9010.9106	F
1	11092.342	3	23814.130-34906.470	2		6.0-	5.0	6.0- 5.0		.880	.915	.035	0.890	0.925	35	065	64	9012.7546	PB F
1	11033.740	3	19236.116-30324.858	-2		7.0-	7.0	7.0- 7.0		1.15	1.17	.019	1.155	1.170*	15	-137	-138	9015.6823	F
1	11036.214	4	20355.328-31471.542	0		2.0-	1.0	2.0- 1.0		1.908	2.182	.274	1.911	2.188	277	146	146	9017.7365	F
1	11030.967	2	22513.312-33599.280	-1				2.0- 2.0					1.350	1.606	256	-047	-49	9022.0066	F

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	11079.221	2	24090.570	35169.790	1	.	.	7.0-	6.0	.	.	.	1.130	1.120*	10	-020	-19	9023.4284	F
1	11076.623	6	16520.952	27597.590	0	5.0-	4.0	5.0-	4.0	.736	.928	.192	0.736	0.930	194	111	109	9025.5407	F
2	11071.165	2	28110.650	17039.487	2	1.5-	1.5	1.5-	1.5	.908	1.361	.453	0.899	1.354	455		343	9029.9943	F
	11070.597	2															-099	9030.4658	F
	11067.176	2																9033.2491	F
1	11065.489	2	16532.104	27597.590	3	.	.	3.0-	4.0	.	.	.	0.300	0.930	630	110	105	9034.6263	F
1	11065.205	5	13517.647	24582.849	3	2.0-	2.0	2.0-	2.0	.888	.640	.248	0.892	0.640	252	-030	-33	9034.8582	F
1	11056.200	2	20654.712	31710.912	0	.	.	1.0-	2.0	.200	.200	.000	0.200	0.200	0		-278	9042.2168	F
1	11053.320	2	19059.958	30113.280	-2	.	.	5.0-	6.0				1.375	1.050	325	-125	-124	9044.5729	F
1	11053.011	3	18672.411	29725.422	0	6.0-	7.0	6.0-	7.0	1.190	1.215	.025	1.190	1.220*	30	-306	-306	9044.8257	F
1	11052.534	2	31724.867	20672.283	0	.	.	2.0-	2.0				1.016	1.430*	414		157	9045.1751	F
1	11051.252	3	20830.616	31881.871	-3	8.0-	7.0	8.0-	7.0	1.11	1.12	.01	1.110	1.120*	10	-153	-159	9046.2654	F
1	11047.782	3	19496.402	39544.187	-3	3.0-	3.0	3.0-	3.0	1.535	.946	.589	1.555	0.946	609	-163	-161	9049.1067	F
1	11046.015	2	24759.250	35805.270	-5	.	.	6.0-	5.0				1.098	1.075	23		-115	9050.5543	F
1	11045.835	2	20425.711	31471.542	4	1.0-	1.0	1.0-	1.0	1.340	2.187	.847	1.340	2.188	848	151	149	9050.7018	WEAK PBF
1	11045.004	2	21600.100	32645.106	-2	.	.	6.0-	5.0				1.390	1.135	255		-262	9051.3827	F
1	11041.637	3	21263.339	32304.979	-3	5.0-	4.0	5.0-	4.0	.61	.99	.380	0.610	0.990*	380	-025	-22	9054.1428	F
	11041.409	1																9054.3298	F
2	11038.674	2	29556.550	18517.872	-4	.	.	1.5-	0.5				0.484	2.755	2271		211	9056.5731	F
1	11038.034	3	19776.904	30814.939	-1	.	.	6.0-	5.0				1.012	1.111	99	-234	-234	9057.0983	F
	11036.589	2																9058.2841	F
	11036.494	2																9058.3621	F
1	11035.354	4	17081.874	28118.262	-4	.	.	4.0-	3.0				1.217	1.250*	33	-030	-26	9058.4524	F
1	11034.529	2	23315.209	34349.740	-2	.	.	2.0-	1.0				1.335	0.810*	525		-24	9059.9752	F
	11032.492	2																9061.6480	F
2	11032.139	3	33532.385	22500.225	-21	5.5-	5.5	5.5-	5.5	1.346	1.555	209	1.341	1.555	214		298	9061.9379	F
1	11031.750	2	23281.721	34313.475	-4	.	.	5.0-	6.0				1.235	1.030*	205	53	56	9062.2575	F
1	11031.522	2	22181.368	33212.897	-7	.	.	3.0-	4.0				0.780	1.110*	330	50	45	9062.4448	IS*
	11031.091	2															-020	9062.7988	IS*
1	11027.023	3	13726.661	24753.684	0	3.0-	4.0	3.0-	4.0	1.152	.975	.177	1.150	0.975	175	-178	-180	9066.1422	F
1	11025.170	2	28348.462	17323.291	-1	.	.	4.0-	4.0				0.000	1.250*	0	182	183	9067.6660	F
	11022.293	2															-156	9070.0328	F
1	11021.915	3	16520.962	27542.874	3	.	.	5.0-	5.0				0.736	1.270*	534	-020	-64	9070.3439	IS*
1	11019.009	3	25109.417	36128.425	1	8.0-	7.0	8.0-	7.0	1.087	1.060	.027	1.090	1.060*	30	-128	-126	9072.7360	F
1	11016.677	2	9724.351	20741.029	-1	.	.	3.0-	2.0				0.442	0.000*	0		-392	9074.6565	F
	11016.310	2															000	9074.9588	F
1	11014.797	2	14692.549	25707.348	-2	.	.	2.0-	2.0				0.292	0.720	428		-144	9076.2053	F
1	11014.259	3	20521.579	31535.835	3	.	.	6.0-	5.0				1.246	1.020	226		-301	9076.6487	F
1	11008.857	5	16734.151	27743.009	-1	2.0-	2.0	2.0-	2.0	.929	.565	.364	0.928	0.568	360	-020	-20	9081.1026	IS*
1	11007.397	4	16304.260	27311.658	-1	4.0-	5.0	4.0-	5.0			.235	1.285	1.035	250	-087	-88	9082.3071	F
1	11006.713	3	15424.387	26431.101	-1	3.0-	3.0	3.0-	3.0			.31	1.106	0.807	299	-253	-254	9082.8715	PB
1	11004.829	2	22719.949	33724.837	1	.	.	4.0-	3.0				1.070	1.160	90	-008	-8	9084.3769	IS*
1	11003.220	3	18346.917	29350.139	-2	2.0-	3.0	2.0-	3.0	1.505	.885	.620	1.518	0.910	608	-078	-81	9085.7549	F
	11001.912	2																9086.8351	F
1	11000.989	2	12177.963	23178.955	-3	.	.	1.0-	1.0				0.525	1.130*	605		-416	9087.5975	F
1	11000.784	3	22028.306	33039.092	-2	6.0-	5.0	6.0-	5.0	1.060	1.065	.005	1.060	1.069	9	-059	-58	9087.7668	F
1	11000.690	2	15406.760	26407.449	1	.	.	1.0-	2.0				0.890	0.972	82		-136	9087.8445	F
	11000.559	3															-020	9087.9527	IS*
1	10998.675	3	22181.368	33180.043	0	.	.	3.0-	2.0				0.780	1.790*	1010	000	-1	9089.5094	IS*
1	10998.049	6	16834.379	27832.430	-2	5.0-	4.0	5.0-	4.0	.965	.920	.045	0.961	0.920	41	-068	-68	9090.0268	F
1	10997.399	2	12672.411	29669.807	3	.	.	6.0-	6.0				1.190	1.150*	40		-164	9090.5640	F
1	10995.636	3	21218.180	32213.814	2	.	.	3.0-	2.0				0.850	0.725	135	-045	-46	9092.0216	F
2	10995.012	2	28158.490	17163.470	-8	.	.	5.5-	4.5				1.140	1.200*	60		408	9092.5376	F
1	10994.644	4	16734.151	27728.796	-1	2.0-	3.0	2.0-	3.0	.926	1.058	.132	0.928	1.060	132	-117	-115	9092.8419	F
1	10994.172	2	17911.977	23906.150	-1	.	.	5.0-	5.0				1.145	1.105	40		-227	9093.2323	F

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	10993.543	2																	9093.7526	F
1	10993.279	3	28565.887	-	17572.608	0	2.0-	2.0	2.0-	2.0	.920	.545	.375	0.911	0.555	356	69	70	9093.9710	F
1	10992.703	2	21218.180	-	32210.885	-2	. . .	3.0-	4.0	. . .	. . .	. . .	. . .	0.860	0.995	135	-077	-80	9094.4475	F
1	10990.510	3H	21812.682	-	32803.199	-7	. . .	4.0-	3.0	. . .	. . .	. . .	. . .	1.040	0.825	215		7	9096.2622	F
	10990.228	2																	9096.4956	F
	10989.804	2																	9096.8465	F
	10987.926	3																	9098.4013	F
1	10987.338	4	19776.904	-	30764.244	-2	6.0-	6.0	6.0-	6.0	.935	.980	.045	1.012	0.975	37	-236	-236	9098.8882	F
1	10986.131	2	23004.649	-	33990.780	0	. . .	5.0-	6.0	. . .	. . .	. . .	. . .	1.196	0.920*	276		-118	9099.8879	F
2	10985.946	5	14221.716	-	3235.770	0	0.5-	0.5	0.5-	0.5	-0.12	.30	.42	-0.108	0.299	407	223	223	9100.0411	F
	10985.723	2																	9100.2258	F
1	10985.105	3	22377.599	-	33362.705	-1	. . .	7.0-	7.0	. . .	. . .	. . .	. . .	1.076	1.140*	64	-180	-191	9100.7378	IS*
1	10984.552	3	26730.201	-	15745.648	-1	3.0-	3.0	3.0-	3.0	.950	1.145	.195	0.950	1.145	195	195	195	9101.1960	F
1	10983.436	3	17554.704	-	28533.138	2	8.0-	7.0	8.0-	7.0	1.17	1.07	.10	1.170	1.060*	110	-199	-199	9102.1207	F
	10983.364	2															0		9102.1804	F
1	10983.065	2	15424.387	-	26407.449	3	. . .	3.0-	2.0	. . .	. . .	. . .	. . .	1.106	0.972	134		-200	9102.4282	F
2	10977.678	3	12992.644	-	2014.966	0	2.5-	1.5	2.5-	1.5	.635	1.881	1246	0.643	1.881	1238		163	9106.8950	F
1	10976.881	3	20055.327	-	31042.204	4	3.0-	3.0	3.0-	3.0	1.00	1.01	.01	0.998	1.010	12	-089	-88	9107.5562	F
1	10974.792	2	12177.963	-	23152.755	0	. . .	1.0-	2.0	. . .	. . .	. . .	. . .	0.525	0.580	55	-403	-409	9109.2898	F
	10973.946	3																	9109.9920	F
1	10973.414	2	22377.599	-	33351.007	6	. . .	7.0-	6.0	. . .	. . .	. . .	. . .	1.076	1.240*	164		-46	9110.4337	F
1	10971.410	3	20043.465	-	31014.877	-2	. . .	5.0-	4.0	. . .	. . .	. . .	. . .	0.925	1.170	245	99	101	9112.0978	F
1	10970.782	3	16834.379	-	27805.163	-2	. . .	5.0-	5.0	. . .	. . .	. . .	. . .	0.961	1.024	63	-122	-125	9112.6194	F
2	10970.296	2	25403.645	-	14433.351	2	. . .	2.5-	1.5	. . .	. . .	. . .	. . .	1.029	1.925	896		328	9113.0231	F
1	10969.963	3	12159.465	-	23129.429	-1	. . .	4.0-	5.0	. . .	. . .	. . .	. . .	0.844	1.168	324	-363	-362	9113.2997	F
1	10964.831	3	18672.411	-	29637.242	0	6.0-	6.0	6.0-	6.0	1.189	1.018	.171	1.190	1.020*	170	-202	-204	9117.5652	F
1	10963.372	2	18045.108	-	29009.483	-3	. . .	4.0-	4.0	. . .	. . .	. . .	. . .	0.694	0.695	1	60	54	9118.7785	IS*
1	10963.142	2	26708.790	-	15745.648	0	. . .	3.0-	3.0	. . .	. . .	. . .	. . .	0.855	1.145	290		153	9118.9698	F
	10962.631	2																	9119.3949	F
	10962.372	2																	9119.6103	F
2	10956.444	2	27702.165	-	16745.720	-1	1.5-	2.5	1.5-	2.5	1.123	1.671	.548	1.135	1.671	536	326	333	9124.5445	F
1	10955.952	2	15249.635	-	26205.589	-2	2.0-	3.0	2.0-	3.0	.71	.70	.01	0.715	0.701	14	-198	-198	9124.9543	F
1	10951.563	2	16155.199	-	27106.673	-1	. . .	5.0-	6.0	. . .	. . .	. . .	. . .	0.948	1.040	92		-116	9128.6113	F
1	10950.386	2	15856.883	-	26807.278	-4	1.0-	1.0	1.0-	1.0	. . .	. . .	.555	1.103	0.550	553		-354	9129.5925	F
1	10949.976	3	15249.635	-	4299.659	0	2.0-	2.0	2.0-	2.0	.718	1.473	.755	0.715	1.482	767	192	190	9129.9343	F
1	10949.108	1	24970.474	-	35919.595	-13	. . .	4.0-	5.0	. . .	. . .	. . .	. . .	1.460	1.120*	340		145	9130.6581	F
1	10948.660	1	20990.684	-	31939.345	-1	. . .	5.0-	6.0	. . .	. . .	. . .	. . .	1.308	1.200*	108		-324	9131.0317	F
1	10947.931	3	9724.351	-	20672.283	-1	. . .	3.0-	2.0	. . .	. . .	. . .	. . .	0.442	1.430*	988	-417	-417	9131.6397	F
	10944.407	2																	9134.5800	F
	10944.041	3																	9134.8855	SO
1	10941.268	3	22429.984	-	33371.251	1	4.0-	3.0	4.0-	3.0	. . .	. . .	.167	1.279	1.113	166	20	18	9137.2007	F
	10938.164	2																	9139.7937	F
	10937.923	2																	9139.9950	F
	10937.810	2																	9140.0895	F
1	10937.359	7	17081.874	-	6144.515	0	4.0-	3.0	4.0-	3.0	1.217	1.473	.256	1.217	1.473	256	183	183	9140.4664	F
	10935.737	2																	9140.9862	F
	10935.208	2																	9142.2643	F
2	10934.737	3	27680.460	-	16745.720	-3	2.5-	2.5	2.5-	2.5	1.30	1.67	.37	1.310	1.671*	361	265	284*	9142.6581	F
1	10933.072	2	23416.666	-	34349.740	-2	. . .	2.0-	1.0	. . .	. . .	. . .	. . .	1.320	0.810*	510	-090	-87	9144.0505	F
	10932.560	2																	9144.4787	F
1	10932.269	5	13726.661	-	24658.931	-1	3.0-	4.0	3.0-	4.0	1.150	1.070	.080	1.150	1.080	70	-068	-69	9144.7221	F
1	10931.622	2	21737.407	-	32569.040	-11	. . .	3.0-	3.0	. . .	. . .	. . .	. . .	1.026	1.000*	26	57	57	9145.2634	F
1	10931.183	3	20697.436	-	31623.619	0	7.0-	6.0	7.0-	6.0	1.250	1.110	.140	1.250	1.110	140	-161	-152	9145.6306	F
1	10927.066	3	23314.130	-	34741.198	-2	. . .	6.0-	5.0	. . .	. . .	. . .	. . .	0.890	1.070	180	34	34	9149.0765	F
1	10926.508	2	16304.260	-	27230.768	0	. . .	4.0-	4.0	. . .	. . .	. . .	. . .	1.285	0.000*	0		-410	9149.5437	F

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	10926.110	6	14025.007-24951.118	-1		4.0-	3.0	4.0-	3.0	.982	.840	.142	0.975	0.840	135	-036	-35	9149.8770	F
1	10924.606	2	22429.984-33354.592	-2		.	.	4.0-	3.0	.	.	.	1.279	0.000*	0		65	9151.1367	
	10924.083	1				.	.	.	.	.	.	.	.	.	.	.	.	9151.5748	
1	10922.557	3	17911.977-28834.535	-1		5.0-	5.0	5.0-	5.0	1.145	.978	.167	1.145	0.978	167	-159	-160	9152.8534	
1	10920.076	2	27196.404-16276.332	4		.	.	3.0-	2.0	.	.	.	1.282	1.830*	598		266	9154.9329	
2	10916.813	2	26405.340-15423.530	3		.	.	3.5-	3.5	.	.	.	0.852	1.057	205		315	9157.6692	
1	10916.253	5	16828.909-27805.163	-1		6.0-	5.0	6.0-	5.0	1.127	1.071	.057	1.098	1.024	74	-150	-150	9158.1390	
1	10916.080	2	19059.958-25976.039	-1		.	.	5.0-	4.0	.	.	.	1.375	1.070	305		-176	9158.2842	
1	10913.932	3	19865.603-30779.535	0		4.0-	3.0	4.0-	3.0	1.108	.877	.231	1.100	0.860	240	-181	-182	9160.0447	
2	10908.139	4	24634.455-13726.318	2		3.5-	2.5	3.5-	2.5	.820	.765	.055	0.839	0.784	55	283	283	9164.9513	
1	10904.178	4	14025.007-24929.184	1		4.0-	4.0	4.0-	4.0	.968	1.075	.107	0.975	1.080	105	-151	-152	9168.2806	
	10902.275	2H				.	.	.	.	.	.	.	.	.	.	.	.	9169.8809	
1	10900.637	2	23578.836-34479.473	0		5.0-	4.0	5.0-	4.0	1.128	.944	.184	1.120	0.944*	176	-005	-5	9171.2588	IS*
1	10896.662	3	14025.007-24921.671	-2		.	.	4.0-	5.0	.	.	.	0.975	1.034	59	-105	-105	9174.6044	
1	10896.612	2H	20043.465-30940.068	9		.	.	5.0-	5.0	.	.	.	0.925	1.080	155	140	147	9174.6465	
1	10895.930	3	22377.599-33273.528	1		7.0-	7.0	7.0-	7.0	1.076	1.068	.008	1.076	1.070*	6	-230	-230	9175.2208	
1	10895.003	2	17081.874-27976.881	1		.	.	4.0-	3.0	.	.	.	1.217	1.080	137		-140	9175.9972	
1	10894.033	2	25499.501-36393.534	0		.	.	9.0-	10.0	.	.	.	1.200	1.150*	50		48	9176.8185	
1	10893.965	1	24012.505-34906.470	0		.	.	6.0-	5.0	.	.	.	1.248	0.925	323		-94	9176.8758	
1	10893.098	2	24090.570-34983.667	1		.	.	7.0-	7.0	.	.	.	1.130	1.060	70		159	9177.6062	
1	10892.160	3	20306.482-31198.642	0		.	.	4.0-	3.0	.	.	.	1.123	1.070	53	-109	-109	9178.3965	
1	10891.622	2	19426.512-30318.195	-1		.	.	3.0-	2.0	.	.	.	1.435	0.940	495	-118	-118	9178.7993	
	10891.453	2				.	.	.	.	.	.	.	.	.	.	.	.	9178.9923	
1	10891.072	2	22429.984-33321.067	-11		.	.	4.0-	5.0	.	.	.	1.279	1.200*	79		37	9179.3134	
1	10890.936	4	17031.874-27972.815	-5		4.0-	4.0	4.0-	4.0	1.212	.974	.238	1.217	0.979	238	-078	-78	9179.4281	
1	10888.848	1	20697.436-31586.283	1		.	.	7.0-	8.0	.	.	.	1.250	1.053	197		-95	9181.1883	
1	10887.932	3	19426.512-30314.443	1		3.0-	3.0	3.0-	3.0	.	.	.295	1.435	1.140*	295	-189	-190	9181.9607	
1	10884.549	3	22719.949-33604.497	1		4.0-	3.0	4.0-	3.0	1.088	1.226	.138	1.070	1.210	140	046	51	9184.8145	
1	10883.916	2	24090.570-34974.486	0		.	.	7.0-	7.0	.	.	.	1.130	1.135	5		74	9185.3487	
	10882.896	2				.	.	.	.	.	.	.	.	.	.	.	.	9186.2096	ISQ
2	10878.794	2	20121.145- 9242.356	5		.	.	2.5-	3.5	.	.	.	0.710	1.369*	659		165	9189.6734	
1	10877.162	5	19236.116-30113.280	-2		7.0-	6.0	7.0-	6.0	1.155	1.055	.100	1.155	1.050	105	-128	-129	9191.0522	
2	10875.990	4	16593.963- 5717.976	3		2.5-	3.5	2.5-	3.5	.986	1.588	.602	0.983	1.596	613	160	162	9192.0427	
1	10875.676	3	29209.020-40004.697	-1		7.0-	6.0	7.0-	6.0	1.373	1.501	.128	1.390	1.510*	120	-012	-11	9192.3081	IS* HAZY
1	10874.660	1	27651.193-16776.530	-3		.	.	2.0-	1.0	.	.	.	1.570	0.000*	0	178	181	9193.1669	
1	10873.312	3	21337.573-32210.885	0		4.0-	4.0	4.0-	4.0	1.137	.990	.147	1.137	0.995	142	-040	-39	9194.3066	IS*
1	10872.409	2	22307.633-33180.043	-1		.	.	3.0-	2.0	.	.	.	1.434	1.790*	356	-097	-101	9195.0702	
	10869.229	2				.	.	.	.	.	.	.	.	.	.	.	.	9197.7604	
1	10868.843	2	21703.960-32572.811	-8		.	.	5.0-	5.0	.	.	.	1.120	1.010*	110		-240	9198.0871	C2
1	10868.843	2	22518.312-33387.151	4		.	.	2.0-	2.0	.	.	.	1.350	1.288	62		-52	9198.0871	C2
2	10868.713	3	29630.290-18761.530	3		5.5-	5.5	5.5-	5.5	1.142	1.296	.154	1.130	1.296*	166	+	285	9198.1971	ISQ
1	10867.233	3	22088.306-32955.538	1		6.0-	6.0	6.0-	6.0	1.060	1.263	.203	1.060	1.265	205	-091	-91	9199.4498	
	10866.833	2				.	.	.	.	.	.	.	.	.	.	.	.	9199.7884	IS*
1	10854.743	2	27334.422-33199.170	0		.	.	7.0-	6.0	.	.	.	1.240	1.068*	172	-012	-12	9201.5539	IS*
1	10863.504	2	21350.311-32213.814	1		2.0-	2.0	2.0-	2.0	.35	.73	.38	0.350	0.725*	375	28	26	9202.6076	IS*
1	10862.810	4	12159.465-23022.274	1		4.0-	5.0	4.0-	5.0	.846	.817	.029	0.844	0.817	27	-221	-221	9203.1955	
1	10852.341	2	23415.656-34279.010	-3		.	.	2.0-	1.0	.	.	.	1.320	1.710*	390	-162	-162	9203.5929	
1	10861.506	2	18147.975-29009.483	-2		.	.	3.0-	4.0	.	.	.	1.049	0.695	354	-190	-180	9204.3005	IS*
2	10861.096	3	24587.415-13726.318	-1		+2.5-	2.5	2.5-	2.5	.301	.786	.485	0.302	0.784	482	211	211	9204.6479	
1	10860.043	2	18046.103-28906.150	1		.	.	4.0-	5.0	.	.	.	0.694	1.105	411	-008	5	9205.5404	IS*
1	10856.344	2	12322.613-23178.955	2		.	.	2.0-	1.0	.	.	.	1.036	1.130*	94		-420	9208.6770	
1	10856.190	3	13726.661-24582.849	2		3.0-	2.0	3.0-	2.0	1.155	.646	.509	1.150	0.640	510	-045	-46	9208.8076	IS*
1	10853.279	1	22719.717-33572.999	-3		.	.	9.0-	9.0	.	.	.	1.200	1.160*	40		-335	9211.2775	
2	10851.098	2	31173.370-20322.349	-13		6.5-	6.5	6.5-	6.5	.	.	.148	1.160	1.314*	154		359*	9213.2053	
	10845.784	2				0.0-	1.0	.	.	.00	1.25	.	.	.	.	.	.	9217.6430	JQ PB

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	10844.090	2	24149.361-34993.452	-1	5.0- 4.0	5.0- 4.0	1.28	1.22	.06	1.262	1.213	49	-030	-12	9219.0829	IS*				
1	10841.374	2	18578.669-29420.042	1	. . .	1.0- 1.0				1.932	1.095	837	-040	-40	9221.3925					
1	10841.035	4	23315.209-34156.245	-1	2.0- 1.0	2.0- 1.0	1.338	1.302		1.335	1.305	30	-092	-95	9221.6809					
1	10840.345	2	21263.339-32103.687	-3	. . .	5.0- 4.0				0.610	1.040*	430		83	9222.2679					
1	10836.173	2	16734.151-27570.322	2	. . .	2.0- 3.0				0.928	1.265	337	-334	-335	9225.8185					
1	10834.792	3	22416.990-33251.780	2	2.0- 2.0	2.0- 2.0	1.675	1.465	209	1.675	1.465	210	30	33	9226.9944					
1	10834.510	3	15834.379-27658.890	-1	5.0- 5.0	5.0- 5.0	.961	1.312	.351	0.961	1.312	351	-253	-252	9227.2346					
1	10832.331	3	20043.465-30375.798	-2	5.0- 4.0	5.0- 4.0	.926	1.080	.154	0.925	1.080*	155	-040	-37	9229.0907	IS*				
1	10826.645	2	26572.296-15745.648	-3	. . .	2.0- 3.0				1.014	1.145	131		233	9233.9377					
1	10822.992	3	15249.635-26072.627	0	2.0- 2.0	2.0- 2.0	.715	1.512	.797	0.715	1.500*	785	-369	-367	9237.0544					
1	10821.791	2	19496.402-30318.195	-2	. . .	3.0- 2.0				1.555	0.940	615		-231	9238.0795					
1	10321.180	4	17911.977-28733.159	-2	5.0- 4.0	5.0- 4.0	1.147	1.034	.113	1.145	1.035	110	-110	-109	9238.6011					
1	10816.469	4	18591.122- 7774.653	0	4.0- 4.0	4.0- 4.0	.963	1.458	.495	0.965	1.463	498	169	168	9242.6249					
1	10814.666	5	12159.465-22974.132	-1	4.0- 3.0	4.0- 3.0	.845	1.146	.301	0.844	1.147	303	-144	-143	9244.1659					
1	10813.675	2	22318.840-33632.520	-5	. . .	6.0- 5.0				1.335	1.305	30	-163	-161	9245.0130					
1	10813.559	2	19558.257-30371.819	-3	. . .	2.0- 3.0				-0.145	0.640	785		-45	9245.1122					
	10812.335	2											20		9246.1588	IS*				
1	10808.820	3	25328.907-36137.730	-3	3.0- 2.0	3.0- 2.0	1.340	1.526	.186	1.340	1.525	185	25	23	9249.1656	HAZY				
1	10806.233	3	13517.647-24323.884	1	2.0- 1.0	2.0- 1.0	.90	.81	.09	0.892	0.800*	92	-189	-188	9251.3756					
1	10804.891	4	15872.154-30677.044	1	9.0- 8.0	9.0- 8.0	1.185	1.230	.045	1.199	1.245	46	-346	-347	9252.5289					
1	10804.510	2	28549.792-17765.281	-1	. . .	3.0- 3.0				1.245	1.680*	435		148	9252.8552					
1	10803.100	4	20769.512-31572.610	2	2.0- 1.0	2.0- 1.0	1.068	2.408	1340	1.070	2.403*	1333	077	76	9254.0629					
1	10801.772	3	14853.317-25655.090	-1	4.0- 4.0	4.0- 4.0			.365	0.786	1.165	379	-217	-219	9255.2006					
1	10797.648	2	20654.712-31452.362	-2	1.0- 1.0	1.0- 1.0	.200	.850	.650	0.200	0.852	652	174	182	9258.7355					
1	10795.903	2	24970.474-35766.380	-3	. . .	4.0- 4.0				1.450	1.055*	405	81	82	9260.2320					
1	10790.698	2	16520.962-27311.653	2	. . .	5.0- 5.0				0.736	1.035	299	128	130	9264.6988					
2	10790.557	2	27830.060-17039.487	-16	. . .	2.5- 1.5				1.216	1.354	138		319	9264.8199					
1	10788.720	3	16155.109-26943.829	0	. . .	5.0- 5.0				0.948	1.220	272	-237	-238	9266.3974					
1	10788.426	4	18046.108-28834.535	-1	4.0- 5.0	4.0- 5.0	.695	.975	.280	0.694	0.978	284	073	72	9266.6499					
	10785.328	2													9269.3117					
1	10783.376	2	21227.793-32011.173	-4	. . .	4.0- 3.0				1.346	1.140*	206	-075	-80	9270.9896	IS*				
	10783.255	2													9271.0937					
	10782.880	3H													9271.4161					
1	10781.200	3	15424.387-26205.589	-2	3.0- 3.0	3.0- 3.0			.405	1.106	0.701	405	-191	-191	9272.8608					
1	10780.857	3	22083.396-32869.165	-2	6.0- 5.0	6.0- 5.0	1.054	.910	.144	1.060	0.916	144	-020	-19	9273.1559	IS*				
1	10780.150	2	22539.712-33289.869	-7	. . .	5.0- 5.0				1.287	1.095	192		-77	9273.7640	C2				
1	10780.150	2	19074.292-29854.442	0	. . .	2.0- 1.0				1.532	1.180*	352		-50	9273.7640	C2				
1	10779.956	4	25121.896-14341.947	7	1.0- 2.0	1.0- 2.0	1.426	.843	.583	1.444	0.852	592	174	175	9273.9309					
1	10778.606	4	25109.417-35889.025	-2	8.0- 7.0	8.0- 7.0	1.09	1.05	.04	1.090	1.050*	40	-077	-77	9275.0925					
1	10778.124	3	22719.949-33498.071	2	4.0- 3.0	4.0- 3.0			.295	1.070	0.770	300	45	48	9275.5073	IS*				
1	10777.907	3	12351.522-23129.429	0	. . .	6.0- 5.0				0.995	1.168	173	-368	-368	9275.6940					
1	10777.001	2	23763.470-34540.469	2	. . .	4.0- 3.0				0.970	0.888*	82	-128	-119	9276.4738	IS*				
	10775.993	2													9277.3415					
1	10775.488	2	25631.948-18856.461	1	. . .	5.0- 5.0				0.000	1.325*	0		154	9277.7763					
	10773.753	2											168		9279.2661	ISQ				
1	10772.220	3	18897.584-29669.807	-3	. . .	5.0- 6.0				1.280	1.150	130	-165	-168	9280.5910					
1	10771.472	3	20043.445-30814.939	-2	5.0- 5.0	5.0- 5.0			.193	0.925	1.111	186	10	9	9281.2354	IS*				
1	10770.165	3	13517.647-24287.814	-2	2.0- 3.0	2.0- 3.0			.300	0.892	0.585	307	-164	-165	9282.3618					
1	10769.047	4	22083.396-32857.357	-4	6.0- 6.0	6.0- 6.0	1.06	1.10	.04	1.060	1.101	41	30	26	9283.3254	IS*				
1	10767.526	2	23909.535-34677.111	0	. . .	5.0- 4.0				1.242	1.030	162	-124	-122	9284.6368					
1	10763.210	6	16834.379-27597.590	-1	5.0- 4.0	5.0- 4.0	.967	.931	.036	0.961	0.930	31	-081	-83	9288.3599					
1	10762.189	2	22837.092-33599.230	1	3.0- 2.0	3.0- 2.0	1.110	1.620	.510	1.110	1.606*	496	-253	-257	9289.2411					
1	10761.680	3	26150.730-36912.410	0	. . .	8.0- 7.0				0.000	0.000*	0	-010	-9	9289.6804					
	10760.229	3											-112		9290.9331					
1	10760.128	2	21812.682-32572.811	-1	. . .	4.0- 5.0				1.040	1.010*	30		-84	9291.0203					

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	10759.017	3	18591.122-29350.139			0	4.0-	3.0	4.0-	3.0	.965	.915	.050	0.965	0.910	55	-178	-177	9291.9797	
	10758.144	2																	9292.7338	
1	10757.035	4	20521.579-31278.667			-3	6.0-	5.0	6.0-	5.0	1.240	1.010	.230	1.246	1.010*	236	-117	-116	9293.6486	
1	10755.677	4	20330.616-31555.283			10	8.0-	8.0	8.0-	8.0	1.123	1.053	.070	1.110	1.053*	57	-103	-104	9294.8652	
1	10754.092	2	21263.339-32017.434			-3	.	.	5.0-	4.0	.	.	.	0.610	1.020*	410		32	9296.2352	
1	10752.388	4	14853.317-25605.707			-2	4.0-	4.0	4.0-	4.0	.787	1.159	.372	0.786	1.160	374	-111	-111	9297.7084	
	10751.799	3															169		9298.2177	
1	10751.018	4	20877.600-31628.619			-1	7.0-	6.0	7.0-	6.0	1.06	1.11	.05	1.060	1.110*	50	067	73	9298.8932	
1	10750.555	4	17081.874-27832.430			-1	4.0-	4.0	4.0-	4.0	1.217	.920	.297	1.217	0.920	297	-087	-85	9299.2937	
1	10750.045	2	29566.505-18356.461			0	.	.	5.0-	5.0	.	.	.	0.000	1.325*	0		164	9299.7349	
1	10749.167	2	22219.737-32968.906			-2	.	.	4.0-	4.0	.	.	.	0.750	1.115	365		37	9300.4945	
1	10747.639	5	18046.108-28793.800			-3	4.0-	3.0	4.0-	3.0	.695	1.083	.388	0.694	1.083	389	-063	-63	9301.7735	
	10747.218	2															-010		9302.1811	IS*
1	10746.514	2	22182.030-32928.540			4	.	.	2.0-	2.0	.	.	.	1.295	1.060*	235	103	102	9302.7905	IS*
1	10745.719	5	20984.195-10238.473			-3	6.0-	6.0	6.0-	6.0	1.316	1.431	.115	1.319	1.431	112	186	186	9303.4788	
1	10743.793	2	18602.505-29346.299			-1	.	.	6.0-	7.0	.	.	.	0.910	1.200*	290	162	161	9305.1466	
1	10742.355	3	20709.458-31451.814			-1	3.0-	4.0	3.0-	4.0	.	.	.157	1.240	1.080	160	091	93	9306.3922	
1	10740.103	3	14692.549-25432.655			-3	2.0-	2.0	2.0-	2.0	.	.	.987	0.292	1.281	989	15	14	9308.3436	IS*
1	10739.643	3H	34692.946-23753.307			4	.	.	3.0-	2.0	.	.	.	1.191	1.265	74		154	9308.7423	
1	10739.580	3	23416.666-34156.245			1	2.0-	1.0	2.0-	1.0	1.32	1.31	.01	1.320	1.305*	15	-160	-158	9308.7969	
2	10738.023	2	22537.265-11799.241			-1	.	.	5.5-	5.5	.	.	.	1.315	1.373	58		191	9310.1466	
1	10735.723	4	20306.482-31042.204			1	4.0-	3.0	4.0-	3.0	1.125	1.010	.115	1.123	1.010	113	-074	-74	9312.1412	
	10735.288	2															15		9312.5186	IS*
1	10734.458	2	19231.917-30016.377			-2	.	.	2.0-	2.0	.	.	.	1.822	1.140	682		-296	9313.2386	
1	10734.155	2	19426.512-30160.664			3	.	.	3.0-	4.0	.	.	.	1.435	1.030	405		-73	9313.5015	
1	10733.842	3	22837.092-33570.935			-1	.	.	3.0-	4.0	.	.	.	1.110	1.130*	20	-139	-139	9313.7731	
1	10731.496	3	23550.352-34281.845			3	3.0-	2.0	3.0-	2.0	1.10	.86	.24	1.090	0.850*	240	000	0	9315.8092	PB
1	10729.788	3	15249.635-25979.424			-1	2.0-	1.0	2.0-	1.0	.710	1.260	.550	0.715	1.260	545	-274	-276	9317.2921	
1	10728.677	2	14025.007-24753.684			0	.	.	4.0-	4.0	.975	.975	.000	0.975	0.975	0		-179	9318.2570	
	10725.426	2					3.0-	3.0			.	.	.233						9321.0814	
1	10723.268	1	17081.874-27805.163			-1	.	.	4.0-	5.0	.	.	.	1.217	1.024	193		-142	9322.9399	
1	10722.706	3	25064.653-14341.947			0	.	.	3.0-	2.0	.	.	.	0.980	0.852	128	158	155	9323.4459	
1	10721.431	3	28035.676-38758.100			7	6.0-	5.0	6.0-	5.0	1.216	1.535	.319	1.216	1.530	314	-105	-105	9324.5547	
1	10720.778	3	20043.465-30764.244			-1	.	.	5.0-	6.0	.	.	.	0.925	0.975	50	10	7	9325.1226	SI IS*
1	10718.820	4	16155.109-26873.930			-1	5.0-	6.0	5.0-	6.0	.948	1.136	.188	0.948	1.125	177	-046	-50	9326.8260	
1	10716.471	2	19959.027-30675.497			1	.	.	1.0-	2.0	.	.	.	0.760	0.375*	385		130	9328.8704	
	10714.537	2																	9330.5543	
	10714.254	2																	9330.8008	
1	10713.578	5	13517.647-24231.226			-1	2.0-	2.0	2.0-	2.0	.886	.407	.479	0.892	0.411	481	-072	-66	9331.3895	
2	10713.114	3	26201.645-15438.530			-1	.	.	2.5-	3.5	.	.	.	1.036	1.057	21	429	433	9331.7937	
1	10710.589	2	11840.715-22551.302			2	.	.	3.0-	3.0	.	.	.	0.811	0.000*	0	-393	-404	9333.9936	
2	10709.954	2	24700.905-13990.952			1	.	.	0.5-	1.5	.	.	.	2.025	1.728	297		63	9334.5471	
1	10709.800	3	16520.962-27230.768			-6	.	.	5.0-	4.0	.	.	.	0.735	0.000*	0	-192	-192	9334.6813	
1	10708.492	4	16834.379-27542.874			-3	5.0-	5.0	5.0-	5.0	.953	1.262	.309	0.961	1.270*	309	-256	-256	9335.8215	
1	10703.394	2	20306.482-31014.877			-1	.	.	4.0-	4.0	.	.	.	1.123	1.170	47		-123	9335.9069	
2	10706.541	2	24432.860-13726.318			-1	.	.	3.5-	2.5	.	.	.	1.110	0.784*	326		402	9337.5227	
1	10705.420	2	22837.092-33542.506			6	.	.	3.0-	2.0	.	.	.	1.110	1.123*	13	-205	-209	9338.5005	
1	10702.032	4	20769.512-31471.542			2	2.0-	1.0	2.0-	1.0	1.075	2.202	1127	1.070	2.188*1118		178	176	9341.4568	
1	10701.415	2	23550.352-34251.764			3	.	.	3.0-	4.0	.	.	.	1.090	1.005*	85	15	14	9341.9954	IS*
1	10699.635	2	26516.261-37215.900			-4	.	.	5.0-	4.0	.	.	.	1.200	1.485*	285	-124	-126	9343.5496	
1	10699.330	4	15074.958-25774.288			0	7.0-	6.0	7.0-	6.0	1.096	.923	.173	1.097	0.915	182	-198	-198	9343.8159	
1	10695.658	2	28268.265-17572.608			1	1.0-	2.0	1.0-	2.0	.	.	.705	1.252	0.555	697		52	9347.0238	
1	10694.865	5	14737.788-25432.655			-2	3.0-	2.0	3.0-	2.0	.815	1.281	.466	0.815	1.281	466	15	15	9347.7169	IS*
1	10694.322	6	18046.108-28740.433			-3	4.0-	3.0	4.0-	3.0	.695	.970	.275	0.694	0.970	276	-040	-39	9348.1915	IS*
1	10693.694	3	14912.011-25605.707			-2	.	.	4.0-	4.0	.	.	.	0.496	1.160	664	-010	-14	9348.7405	IS*

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	10692.271	2	23004.649-33696.921	-1	.	.	.	5.0-	6.0	.	.	.	.	.	1.196	1.100*	96	-030	-30	9349.9847	IS*
1	10690.391	2	18578.669-29269.059	1	.	.	.	1.0-	1.0	.	.	.	.	.	1.932	1.110*	822	55	55	9351.6290	IS*
2	10689.511	3	30865.395-20175.895	11	3.5-	3.5	3.5-	3.5	3.5	1.309	1.500	191	.	.	1.328	1.515	187	217	225	9352.3989	IS*
1	10689.272	2	16834.379-27523.650	1	.	.	.	5.0-	6.0	.	.	.	.	.	0.961	1.080	119	.	-90	9352.6080	
1	10687.847	3	13602.505-29290.355	-3	6.0-	6.0	6.0-	6.0	6.0	.915	.920	.005	.	.	0.910	0.920	10	32	32	9353.8549	IS*
1	10686.804	2	15406.760-26093.563	1	.	.	.	1.0-	1.0	.	.	.	.	.	0.890	0.082	972	.	-83	9354.7679	
1	10686.431	3	28504.353-17897.917	-5	.	.	.	4.0-	3.0	.	.	.	.	.	0.920	0.450*	470	-244	-247	9355.0944	
1	10686.336	4	19355.603- 9179.262	-5	4.0-	5.0	4.0-	5.0	5.0	1.099	1.454	.355	.	.	1.100	1.454	354	176	174	9355.1775	
1	10684.492	1	19776.904-30461.399	-3	.	.	.	6.0-	5.0	.	.	.	.	.	1.012	0.990	22	.	-205	9356.7921	
2	10679.133	2	19317.370- 8638.233	-4	.	.	.	4.5-	5.5	.	.	.	.	.	1.225	1.514	289	.	153	9361.4876	
1	10678.583	2	19865.603-30544.137	-1	.	.	.	4.0-	3.0	.	.	.	.	.	1.100	0.946	154	-152	-150	9361.9697	
1	10677.104	3	23207.126-33834.230	0	.	.	.	8.0-	7.0	.	.	.	.	.	1.135	1.105	30	-093	-94	9363.2666	
1	10675.739	2	21737.407-32413.146	0	3.0-	3.0	3.0-	3.0	3.0	1.025	.995	.030	.	.	1.026	0.995	31	-065	-66	9364.4637	
1	10673.888	3	18672.411-29345.299	0	6.0-	7.0	6.0-	7.0	7.0	1.19	1.20	.01	.	.	1.190	1.200*	10	-074	-70	9366.0877	
1	10672.929	3	23578.836-34251.764	1	5.0-	4.0	5.0-	4.0	4.0	1.130	1.007	.123	.	.	1.120	1.005*	115	-036	-33	9366.9293	IS*
1	10670.919	3	20043.465-30714.385	-1	.	.	.	5.0-	4.0	.	.	.	.	.	0.925	1.150	225	135	135	9368.6936	
1	10670.753	5	12351.522-23022.274	1	6.0-	5.0	6.0-	5.0	5.0	.990	.820	.170	.	.	0.995	0.817	178	-226	-227	9368.8394	
1	10668.947	2	14763.705-25432.655	-3	1.0-	2.0	1.0-	2.0	2.0	-0.061	1.295	1356	.	.	-0.066	1.281	1347	16	14	9370.4253	IS*
1	10661.704	3	23207.126-33868.834	-4	.	.	.	8.0-	9.0	.	.	.	.	.	1.135	1.165	30	-010	-16	9376.7911	IS*
2	10661.040	4	24387.360-13726.318	-2	1.5-	2.5	1.5-	2.5	2.5	.960	.788	.172	.	.	0.955	0.784	171	575	573	9377.3751	
1	10660.389	3	24188.639-13528.246	-4	1.0-	1.0	1.0-	1.0	1.0	.66	-0.59	1.25	.	.	0.667	0.590*	1257	148	148	9377.9478	
1	10658.730	4	21218.180-31876.909	1	.	.	.	3.0-	2.0	.875	.960	.085	.	.	0.860	0.000*	0	-200	-200	9379.4074	
1	10658.531	2	20540.110-31193.642	-1	.	.	.	3.0-	3.0	.	.	.	.	.	0.830	1.070*	240	.	116	9379.5826	
1	10653.963	4	16828.909-27542.874	-2	6.0-	5.0	6.0-	5.0	5.0	1.098	1.273	.175	.	.	1.098	1.270*	172	-281	-281	9383.6042	
1	10653.175	3	20425.711- 9772.532	-4	1.0-	0.0	1.0-	0.0	0.0	1.334	.	.	.	.	1.340	0.000	0	-086	-86	9384.2983	
1	10651.519	4	12322.613-22974.132	0	2.0-	3.0	2.0-	3.0	3.0	1.030	1.147	.117	.	.	1.036	1.147	111	-146	-146	9385.7572	
1	10649.430	2	22219.737-32859.165	2	.	.	.	4.0-	5.0	.	.	.	.	.	0.750	0.916	166	-010	-11	9387.5984	IS*
1	10649.055	3	20065.327-30714.385	-3	.	.	.	3.0-	4.0	.	.	.	.	.	0.998	1.150	152	-101	-103	9387.9290	
	10648.322	2																124		9388.5752	
1	10646.922	3	17081.874-27728.796	0	.	.	.	4.0-	3.0	.	.	.	.	.	1.217	1.060	157	-129	-125	9389.8097	
1	10646.374	4	19558.257-30204.635	-4	2.0-	1.0	2.0-	1.0	1.0	-0.142	.589	.731	.	.	-0.145	0.590*	735	36	36	9390.2931	IS*
1	10645.822	3	18147.975-28793.800	-3	.	.	.	3.0-	3.0	.	.	.	.	.	1.049	1.083	34	-298	-297	9390.7800	
1	10644.091	4	15449.472-25093.563	0	0.0-	1.0	0.0-	1.0	1.0	.	-0.078	.	.	.	0.000	0.082	0	168	170	9392.3071	
2	10640.972	2	27680.460-17039.487	-1	.	.	.	2.5-	1.5	.	.	.	.	.	1.310	1.354*	44	.	284*	9395.0602	
1	10639.569	3	16304.260-26943.829	0	4.0-	5.0	4.0-	5.0	5.0	1.285	1.219	.066	.	.	1.285	1.220	65	-243	-242	9396.2990	
1	10638.635	4	13726.661-24365.295	1	3.0-	3.0	3.0-	3.0	3.0	1.150	1.471	.321	.	.	1.150	1.475	325	-394	-395	9397.1240	
1	10637.808	2	35556.380-24918.555	-17	.	.	.	6.0-	6.0	.	.	.	.	.	1.100	0.000*	0	.	.	9397.8545	
1	10637.553	2	19496.402-30133.953	2	.	.	.	3.0-	3.0	.	.	.	.	.	1.555	1.200*	355	.	-274	9398.0798	
	10637.318	2																		9398.2874	
	10637.180	2																		9398.4094	
1	10637.098	6	14292.176-24929.184	0	5.0-	4.0	5.0-	4.0	4.0	.973	1.090	.117	.	.	0.970	1.080	110	-151	-150	9398.5613	
2	10635.009	2	27798.480-17163.470	-1	.	.	.	3.5-	4.5	.	.	.	.	.	1.060	1.200*	140	.	373	9400.3279	
1	10634.742	5	16828.909-27523.650	1	6.0-	6.0	6.0-	6.0	6.0	1.098	1.080	.018	.	.	1.098	1.080	18	-115	-115	9400.5639	
1	10633.923	6	14025.007-24658.931	-1	4.0-	4.0	4.0-	4.0	4.0	.977	1.080	.103	.	.	0.975	1.080	105	-066	-68	9401.2880	
1	10632.527	2	21337.573-31970.100	0	.	.	.	4.0-	4.0	.	.	.	.	.	1.137	1.100*	37	-138	-139	9402.5223	
	10632.393	2																		9402.6408	IS*
	10630.652	2																		9404.7115	
1	10629.493	6	14292.176-24921.671	-2	5.0-	5.0	5.0-	5.0	5.0	.969	1.034	.065	.	.	0.970	1.034	64	-104	-103	9405.2061	
	10629.070	2																		9405.5804	
1	10626.048	2	18346.917-28972.971	-6	.	.	.	2.0-	2.0	.	.	.	.	.	1.518	0.794	724	-095	-94	9408.2553	
1	10624.362	5	20043.465-30667.769	-2	5.0-	4.0	5.0-	4.0	4.0	.927	1.264	.337	.	.	0.925	1.265	340	-041	-43	9409.8015	
1	10622.584	2	31024.953-20402.369	0	.	.	.	3.0-	3.0	.	.	.07	.	.	1.335	1.265*	70	.	-108	9411.3233	DJO
1	10620.199	3	19776.904-30397.106	-3	6.0-	5.0	6.0-	5.0	5.0	1.020	1.015	.005	.	.	1.012	1.005	7	-122	-120	9413.4369	
1	10618.377	3	26894.711-16276.332	-2	3.0-	2.0	3.0-	2.0	2.0	1.465	1.830	.415	.	.	1.465	1.880*	415	197	201	9415.0521	
1	10617.943	3	18672.411-29290.355	-1	6.0-	6.0	6.0-	6.0	6.0	1.19	.92	.271	.	.	1.190	0.920*	270	-205	-199	9415.4369	IS*

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C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS			
1	10612.623	3	25696.033-37308.707	-1	.	.	.	5.0-	4.0	.	.	.	.	.	1.315	1.040	275	045	53	9420.1568	
1	10611.170	1	24149.361-34760.532	-1	.	.	.	5.0-	6.0	.	.	.	.	.	1.262	1.140*	122		16	9421.4467	
1	10510.785	3	30932.959-20322.165	-9	6.0-	6.0	6.0-	6.0	6.0	1.34	1.36	.02			1.340	1.360*	20	153	154	9421.7886		
1	10610.570	2	21603.247-32213.814	3	2.0-	2.0	2.0-	2.0	2.0			.655			0.060	0.725*	665	84	88	9421.9795		
1	10609.846	4	19059.958-29669.867	-3	5.0-	6.0	5.0-	6.0	6.0	1.375	1.151	.224			1.375	1.150	225	-168	-168	9422.6224		
1	10609.664	2	32319.412-21709.745	-3	.	.	.	4.0-	3.0	.	.	.			1.220	0.980	240		-272	9422.7841		
1	10601.802	6	18502.505-29204.308	-1	6.0-	5.0	6.0-	5.0	5.0	.910	.895	.015			0.910	0.896	14	10	12	9429.7718	IS*	
1	10601.168	3	28156.938-38758.100	6	6.0-	5.0	6.0-	5.0	5.0	1.335	1.525	.190			1.335	1.530	195	-025	-22	9430.3357	IS*	
1	10597.641	4	19776.904- 9179.262	-1	6.0-	5.0	6.0-	5.0	5.0	1.012	1.454	.442			1.012	1.454	442	189	188	9433.4742		
1	10595.990	3	25872.321-16276.332	1	1.0-	2.0	1.0-	2.0	2.0	2.69	1.88	.81			2.690	1.880*	810	147	146	9434.9441		
	10593.486	2																100			9437.1743	IS*
1	10593.253	2	24970.474-35553.728	-1	.	.	.	4.0-	3.0	.	.	.			1.460	1.204*	256	-045	-184	9437.3819	CQ ISQ	
1	10592.639	3	21218.180-31810.821	-2	.	.	.	3.0-	2.0	.	.	.			0.860	0.865	5		-106	9437.9289		
1	10592.454	4	18147.975-28740.433	-4	.	.	.	3.0-	3.0	.	.	.			1.049	0.970	79		-273	9438.0937		
1	10592.030	2	28368.512-17776.483	1	.	.	.	3.0-	2.0	.	.	.			0.830	0.565*	265		12	9438.4715		
2	10591.761	4	14561.607- 3969.846	0	1.5-	2.5	1.5-	2.5	2.5	1.144	1.668	524			1.149	1.670	521	253	255	9438.7112	2 LNS	
1	10591.761	4	28182.682-32404.416	27	.	.	.	4.0-	5.0	.	.	.			1.040	1.055	15	000	13	9438.7112	2 LNS	
1	10589.861	2	19426.512-30016.377	-4	.	.	.	3.0-	2.0	.	.	.			1.435	1.140	295		-217	9440.4047		
1	10589.637	3	16734.151- 6144.515	1	2.0-	3.0	2.0-	3.0	3.0	.936	1.477	.541			0.928	1.473	545	173	173	9440.6044		
	10588.339	2																	-087		9441.7617	
1	10586.233	3	27909.524-17323.291	0	4.0-	4.0	4.0-	4.0	4.0	1.270	1.250	.020			1.270	1.250*	20	170	167	9443.6400		
1	10585.179	3	18147.975-28733.159	-5	3.0-	4.0	3.0-	4.0	4.0	1.05	1.03	.02			1.049	1.035	14	-106	-111	9444.5804		
	10583.586	3																			9446.0019	
1	10583.244	6	14692.549-25275.795	-2	2.0-	1.0	2.0-	1.0	1.0	.295	.703	.408			0.292	0.706	414		-45	9446.3072	PB	
2	10582.035	3	26070.615-15488.530	0	3.5-	3.5	3.5-	3.5	3.5			.055			1.119	1.057	62	379	352	9447.3418	IS*	
1	10579.382	4	20540.110-31119.494	-2	3.0-	2.0	3.0-	2.0	2.0	.832	.806	.026			0.830	0.814*	16	5	4	9449.7556	IS*	
	10578.752	2																			9450.3183	
1	10577.283	3	19059.958-29637.242	-1	5.0-	6.0	5.0-	6.0	6.0	.	.	.355			1.375	1.020	355	-208	-208	9451.6308		
	10572.843	2																	113		9455.6000	ISQ
1	10572.082	2	26317.729-15745.648	1	.	.	.	4.0-	3.0	.	.	.			1.180	1.145*	.35		149	9456.2806		
1	10571.091	2	26341.320-36912.410	1*	.	.	.	8.0-	7.0	.	.	.			0.000	0.000*	0	-170	-168	9457.1671		
	10568.352	2						2.0-	1.0	1.325	1.410	.085							-055		9459.6182	JQ SO
1	10565.163	4	20521.579-31085.744	-2	6.0-	5.0	6.0-	5.0	5.0	1.251	.804	.447			1.246	0.795	451	-035	-37	9462.4735	IS*	
1	10561.151	6	13726.661-24237.814	-2	3.0-	3.0	3.0-	3.0	3.0	1.152	.589	.563			1.150	0.585	565	-179	-178	9466.0681		
1	10550.391	2	18578.669-29139.061	-1	.	.	.	1.0-	2.0						1.932	0.000*	0	-109	-110	9466.7494		
1	10553.902	2	21350.311-31909.212	1	2.0-	1.0	2.0-	1.0	1.0	.350	.888	.538			0.350	0.888*	538	30	22	9468.0843	IS*	
1	10556.796	2	22028.306-32645.106	-4	.	.	.	6.0-	5.0	.	.	.			1.060	1.135	75	-010	-21	9469.9732	IS*	
	10555.625	2																	-050		9471.0237	
1	10550.559	3	15856.888-26407.449	-2	1.0-	2.0	1.0-	2.0	2.0	1.099	.954	.145			1.103	0.972	131	-148	-148	9475.5714		
	10550.353	2																			9475.7474	
1	10550.065	2	22837.092-33387.151	6	.	.	.	3.0-	2.0	.	.	.			1.110	1.288*	178		-260	9476.0151		
1	10549.254	2	23578.836-34128.094	-4	.	.	.	5.0-	4.0	.	.	.			1.120	0.000*	0		-34	9476.7436		
1	10546.670	4	14763.705-25310.375	0	1.0-	0.0	1.0-	0.0	0.0	-0.07	.	.			-0.066	0.000	0	-010	-12	9479.0654	IS* PB	
	10545.948	2																	-061		9479.7144	IS*
1	10545.216	3	20425.711-30970.926	1	1.0-	1.0	1.0-	1.0	1.0	1.335	.289	1046			1.340	0.295	1045	092	90	9480.3724		
1	10541.351	5	21031.258-31572.610	-1	2.0-	1.0	2.0-	1.0	1.0	1.455	2.405	.950			1.455	2.403	948	105	104	9483.8484		
	10539.923	2																	000		9485.1334	
2	10533.968	3	22541.470-12007.503	1	1.5-	1.5	1.5-	1.5	1.5	.42	-0.02	.44			0.420-0.019*	439	421	421		9490.4955		
1	10531.897	3	12672.411-29204.308	0	6.0-	5.0	6.0-	5.0	5.0	1.180	.878	.302			1.190	0.896*	294	-221	-219	9492.3617		
1	10529.952	3	15449.472-25979.424	0	0.0-	1.0	0.0-	1.0	1.0	.	1.260	.			0.000	1.260	0	45	48	9494.1150	IS*	
	10527.188	2																	-050		9496.6078	IS*
1	10522.358	2	20830.616-31352.983	1	.	.	.	8.0-	7.0	.	.	.			1.110	0.000*	0		-240	9500.9580		
1	10520.445	2	17615.482-28135.924	3	.	.	.	2.0-	2.0	.	.	.			1.450	1.101	349	-288	-299	9502.6946	IS*	
1	10520.248	3	25617.477-36137.730	-5	2.0-	2.0	2.0-	2.0	2.0	1.370	1.537	.167			1.360	1.525*	165	-025	-13	9502.8726	IS*	
1	10519.815	4	26696.083-37215.900	-2	5.0-	4.0	5.0-	4.0	4.0	1.315	1.485	.170			1.315	1.485	170	20	21	9503.2637	IS*	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	10516.122	2	14692.549-25208.672			-1	.	.	2.0-	2.0	.	.	.	0.292	0.490	198		-49	9506.6010		
1	10515.718	1	17081.874-27597.590			2	.	.	4.0-	4.0	.	.	.	1.217	0.930	287		-100	9506.9663		
1	10512.906	2	17045.776-27558.688			-6	1.0-	0.0	1.0-	0.0	1.468	.000	.	1.474	0.000	0	36	35	9509.5092	IS*	
1	10512.089	1	14763.705-25275.795			-1	.	.	1.0-	1.0	.	.	.	-0.066	0.706	772		-45	9510.2483		
1	10511.546	4	24970.474-35482.018			2	4.0-	3.0	4.0-	3.0	1.444	1.680	.236	1.460	1.679*	219	-090	-90	9510.7396		
2	10538.057	2	29269.625-18761.580			12	5.5-	5.5	5.5-	5.5	.	.	.194	1.110	1.296	186		393	9513.8974		
1	10506.923	3	21703.960-32210.885			-2	5.0-	4.0	5.0-	4.0	1.113	.990	.123	1.120	0.995	125	-083	-83	9514.9243		
	10506.160	2					000			9515.6153	
1	10505.615	2	16532.104-27037.718			1	.	.	3.0-	2.0	.	.	.	0.300	1.300*	1000	-134	-133	9516.1089		
1	10504.565	6	13726.661-24231.226			0	3.0-	2.0	3.0-	2.0	1.150	.409	.741	1.150	0.411	739	-085	-79	9517.0601		
1	10502.780	3	17615.482-28118.262			0	.	.	2.0-	3.0	.	.	.	1.450	1.250*	200	32	33	9518.6776	IS*	
1	10500.935	2	29118.602-39619.530			7*	.	.	4.0-	4.0	.	.	.	1.510	1.115*	395	+		9520.3500		
1	10499.344	2	23814.130-34313.475			-1	.	.	6.0-	6.0	.	.	.	0.890	1.030*	140	092	92	9521.7927		
1	10498.391	5	23100.887-33599.280			-2	3.0-	2.0	3.0-	2.0	1.532	1.620	.088	1.520	1.606	86	51	55	9522.6570	IS*	
	10489.624	2								9530.6159	
1	10489.305	3	19236.116-29725.422			-1	7.0-	7.0	7.0-	7.0	1.155	1.220	.065	1.155	1.220	65	-316	-315	9530.9057		
1	10489.141	3	25074.585-35563.728			-2	4.0-	3.0	4.0-	3.0	1.507	1.202	.305	1.507	1.204	303	-070	-78	9531.0547		
1	10486.923	8	10486.922- 0.000			1	1.0-	0.0	1.0-	0.0	.355	.	.	0.355	0.000	0	179	179	9533.0706		
	10485.045	2								9534.7781	
	10484.663	2								9535.1255	
1	10482.922	2	21337.573-31820.494			1	.	.	4.0-	4.0	.	.	.	1.137	1.240	103		-248	9536.7091		
2	10430.367	3	24206.690-13726.318			-5	1.5-	2.5	1.5-	2.5	.897	.785	112	0.863	0.784	79	269	265	9539.0340		
1	10479.760	3	22377.599-32857.357			2	.	.	7.0-	6.0	.	.	.	1.076	1.101	25	-216	-211	9539.5865		
	10479.653	3					5.0-	5.016	.	.	.	50			9539.6839	IS*
1	10478.861	2	20065.327-30544.187			1	.	.	3.0-	3.0	.	.	.	0.998	0.946	52	-156	-159	9540.4050		
	10477.874	2					-010			9541.3036	IS*
1	10477.277	3	16834.379-27311.658			-2	5.0-	5.0	5.0-	5.0	.961	1.032	.071	0.961	1.035	74	-063	-62	9541.8473		
	10474.696	2								9544.1985	
1	10473.103	2	20306.482-30779.585			0	4.0-	3.0	4.0-	3.0	1.125	.850	.275	1.123	0.860	263	-177	-177	9545.6502		
1	10470.823	6	14737.728-25208.672			-1	3.0-	2.0	3.0-	2.0	.815	.489	.326	0.815	0.490	325	-047	-48	9547.6740		
1	10470.600	3	28368.512-17897.917			5	.	.	3.0-	3.0	.	.	.	0.830	0.450*	380	-191	-188	9547.9321		
1	10469.839	2	21227.793-31697.633			-1	.	.	4.0-	4.0	.	.	.	1.346	1.187	159	-	-19	9548.6261		
1	10467.520	3	29617.177-40084.697			0	7.0-	6.0	7.0-	6.0	1.373	1.518	.145	1.380	1.510*	130	-015	-7	9550.7415	IS*	
	10466.895	2								9551.3118	
1	10464.780	3	20654.712-31119.494			-2	1.0-	2.0	1.0-	2.0	.204	.814	.610	0.200	0.814	614	32	33	9553.2422	IS*	
1	10464.046	3	14763.705- 4299.659			0	1.0-	2.0	1.0-	2.0	-0.070	1.482	1552	-0.066	1.482	1548	191	190	9553.9123		
1	10463.204	3	21603.247-32066.452			-1	.	.	2.0-	2.0	.	.	.	0.060	0.910*	850	-103	-103	9554.6811		
1	10461.508	6	14292.176-24753.684			0	.	.	5.0-	4.0	.965	.965	.000	0.970	0.975	5	-177	-177	9556.2301		
1	10459.429	2	19426.512-29835.947			-6	.	.	3.0-	3.0	.	.	.	1.435	1.330*	105		-266	9558.1296	S* CQ	
1	10458.963	4	20697.436-10238.473			0	7.0-	6.0	7.0-	6.0	1.248	1.428	.180	1.250	1.431	181	182	182	9558.5555		
1	10458.275	2	28036.676-38495.570			-19	.	.	6.0-	5.0	.	.	.	1.216	1.085	131	-030	0	9558.6359	CQ	
1	10453.119	2	19558.257-30016.377			-1	.	.	2.0-	2.0	.	.	.	-0.145	1.140	1285	-083	-83	9559.3269		
1	10457.715	3	15249.635-25707.348			2	2.0-	2.0	2.0-	2.0	.715	.720	.005	0.715	0.720	5	-144	-144	9559.6962		
1	10455.736	2	24742.092-35197.829			-1	.	.	4.0-	3.0	.	.	.	0.980	1.080*	100		-43	9561.5056	C2	
1	10455.736	2	22181.368-32637.106			-2	.	.	3.0-	3.0	.	.	.	0.780	0.820*	40		36	9561.5056	C2	
1	10453.865	2	26730.201-16276.332			-4	.	.	3.0-	2.0	.	.	.	0.950	1.880*	930		201	9563.2169		
1	10453.680	4	25499.501-35953.183			-2	9.0-	8.0	9.0-	8.0	1.210	1.105	.105	1.200	1.105	95	-056	-56	9563.3861		
1	10450.842	5	18046.103-28496.950			0	4.0-	4.0	4.0-	4.0	.694	.798	.104	0.694	0.810	116	30	30	9565.9831		
1	10450.542	2	28348.462-17897.917			-3	.	.	4.0-	3.0	.	.	.	0.000	0.450*	0	-250	-255	9566.2577		
1	10449.302	2	22219.737-32669.040			-1	.	.	4.0-	3.0	.	.	.	0.750	1.000*	250	50	51	9567.3930		
1	10448.809	2	13517.647-23966.450			6	.	.	2.0-	3.0	.	.	.	0.892	0.760	132	-156	-154	9567.8444	IS*	
	10448.425	2					000			9568.1960	
1	10444.781	2	22666.777-33111.557			1	.	.	3.0-	2.0	.	.	.	0.977	1.315	338		-141	9571.5342	C2	
1	10444.781	2	28210.060-17765.281			2	.	.	2.0-	3.0	.	.	.	0.865	1.680*	815		135	9571.5342	C2	
1	10442.017	2	19203.415-28645.433			-1	.	.	2.0-	1.0	.	.	.	1.021	0.705	316		-264	9574.0678		

C	HAVENUMBER	I	T2	-	T1	D-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	10441.620	5	23100.887	-	33542.506	1	3.0-	2.0	3.0-	2.0	1.527	1.133	.394	1.520	1.123	397	103	103	9574.4318		
1	10440.224	4	21031.258	-	31471.542	0	2.0-	1.0	2.0-	1.0	1.444	2.166	.722	1.455	2.188	733	203	204	9575.6570		
1	10438.854	2	29295.313	-	18856.461	2	.	.	4.0-	5.0	.	.	.	1.270	1.325*	55	.	217	9576.9688		
1	10438.131	4	14737.788	-	4299.659	2	3.0-	2.0	3.0-	2.0	.811	1.482	.671	0.815	1.482	667	189	189	9577.6321		
1	10437.331	2	25044.687	-	35482.018	0	.	.	4.0-	3.0	.	.	.	1.210	1.679*	469	-265	-270	9578.3662	IS*	
1	10435.662	3	13517.647	-	23953.307	2	2.0-	2.0	2.0-	2.0	.	.	.372	0.892	1.265	373	-380	-381	9579.8981		
1	10434.289	3	21263.339	-	31697.633	-5	.	.	5.0-	4.0	.	.	.	0.610	1.187*	577	153	154	9581.1587	IS*	
1	10433.670	2	17911.977	-	28345.647	0	.	.	5.0-	6.0	.	.	.	1.145	0.000*	0	.	-353	9581.7271		
1	10433.214	6	14692.549	-	25125.763	0	2.0-	1.0	2.0-	1.0	.29	.31	.02	0.292	0.314	22	-036	-36	9582.1459	PB	
1	10432.689	3	27755.977	-	17323.291	3	.	.	3.0-	4.0	.	.	.	1.370	1.250*	120	124	120	9582.6281		
1	10431.944	2	14025.007	-	24456.948	3	.	.	4.0-	3.0	.	.	.	0.975	0.000*	0	-312	-312	9583.3125		
2	10426.826	3	27466.315	-	17039.487	-2	1.5-	1.5	1.5-	1.5	1.785	1.355	430	1.793	1.354	439	446	451	9583.0164		
1	10425.494	2	19496.402	-	29921.899	-3	.	.	3.0-	2.0	.	.	.	1.555	1.070*	485	-282	-282	9589.2414		
1	10423.039	4	14737.788	-	25160.827	0	3.0-	3.0	3.0-	3.0	.815	.800	.015	0.815	0.800	15	-010	-21	9591.5001	IS*	
1	10422.748	6	16223.909	-	27311.658	-1	6.0-	5.0	6.0-	5.0	1.100	1.034	.066	1.098	1.035	63	-087	-87	9591.7679		
1	10421.104	2	21031.258	-	31452.362	0	.	.	2.0-	1.0	.	.	.	1.455	0.852	603	.	233	9593.2810		
1	10420.895	2	23735.353	-	34156.245	3	2.0-	1.0	2.0-	1.0	.933	1.305	.372	0.935	1.305*	370	-079	-80	9593.4734		
1	10417.932	2	20043.465	-	30461.399	-2	.	.	5.0-	5.0	.	.	.	0.925	0.990	65	36	38	9596.2019	IS*	
1	10417.367	2	22219.737	-	32637.106	-2	.	.	4.0-	3.0	.	.	.	0.750	0.820*	70	.	61	9596.7224	C2	
1	10417.357	2	25064.653	-	35482.018	2	.	.	3.0-	3.0	.	.	.	0.980	1.679	699	.	-68	9596.7224	C2	
1	10417.030	3	20540.110	-	30957.140	0	3.0-	2.0	3.0-	2.0	.834	.982	.148	0.830	0.980*	150	10	13	9597.0329	IS*	
1	10413.988	2	23004.649	-	33418.637	0	.	.	5.0-	5.0	.	.	.	1.196	0.872	324	.	-228	9599.8362		
1	10413.571	2	18147.975	-	28561.548	-2	3.0-	2.0	3.0-	2.0	1.056	.784	.	1.049	0.784	265	-175	-175	9600.2207		
1	10410.036	2	20709.458	-	31119.494	0	3.0-	2.0	3.0-	2.0	1.240	.814	.426	1.240	0.814	426	000	0	9603.4807	IS*	
1	10407.904	3	20306.482	-	30714.335	1	.	.	4.0-	4.0	.	.	.	1.123	1.150	27	-090	-89	9605.4479		
1	10407.653	2H	31899.095	-	21491.439	-3	.	.	4.0-	3.0	.	.	.	1.380	0.000*	0	.	151	9605.6796		
1	10407.430	4	25074.535	-	35482.018	-3	4.0-	3.0	4.0-	3.0	1.507	1.683	.176	1.507	1.679	172	30	16	9605.8854	IS*	
2	10406.751	2	24940.100	-	14433.351	2	1.5-	1.5	1.5-	1.5	1.173	1.925	.752	1.025	1.925*	900	.	583	9606.5121		
1	10404.542	1	24780.935	-	35185.490	-13	.	.	2.0-	1.0	.	.	.	0.830	0.905*	75	.	-141	9608.5517		
1	10401.125	4	19236.116	-	29637.242	-1	7.0-	6.0	7.0-	6.0	1.160	1.020	.140	1.155	1.020	135	-212	-213	9611.7083		
1	10400.815	2	22889.053	-	33289.869	-1	.	.	4.0-	5.0	.	.	.	1.263	1.095	168	.	-87	9611.9948		
	10398.609	2	9614.0340	
1	10398.202	2	21812.682	-	32210.885	-1	.	.	4.0-	4.0	.	.	.	1.040	0.995	45	.	73	9614.4103		
	10397.764	2	138	.	.	9614.8153	
1	10394.299	2	18578.669	-	28972.971	-3	.	.	1.0-	2.0	.	.	.	1.932	0.794	1138	50	51	9618.0204		
1	10394.078	2	21515.136	-	31909.212	2	.	.	1.0-	1.0	.	.	.	1.180	0.883*	292	16	11	9618.2249	IS*	
1	10392.892	3	14692.549	-	4299.659	2	2.0-	2.0	2.0-	2.0	.293	1.482	1189	0.292	1.482	1190	190	190	9619.3225		
1	10392.771	2	18897.584	-	29290.355	0	.	.	5.0-	6.0	.	.	.	1.280	0.920	360	.	-203	9619.4345		
1	10391.837	2	12159.465	-	22551.302	0	.	.	4.0-	3.0	.	.	.	0.844	0.000*	0	-406	-403	9620.2991		
1	10390.679	4	22028.306	-	32478.986	-1	6.0-	6.0	6.0-	6.0	1.060	1.110	.050	1.060	1.110	50	-066	-67	9621.3713		
1	10390.106	3	23766.136	-	34156.245	-3	1.0-	1.0	1.0-	1.0	2.160	1.310	.850	2.162	1.305	857	25	23	9621.9019	IS*	
	10388.860	2	9623.0559	
1	10387.589	2	16532.104	-	6144.515	0	.	.	3.0-	3.0	.	.	.	0.300	1.473	1173	.	-22	9624.2333		
1	10387.489	2	20830.616	-	31218.105	0	.	.	8.0-	8.0	.	.	.	1.110	1.155*	45	-209	-207	9624.3260		
1	10386.710	2	23720.664	-	34107.378	-4	.	.	3.0-	3.0	.	.	.	0.790	1.160*	370	010	10	9625.0478		
1	10386.219	1	22416.990	-	32803.199	10	.	.	2.0-	3.0	.	.	.	1.675	0.825	850	87	82	9625.5028		
1	10385.032	1	28569.792	-	38954.840	-16	.	.	3.0-	2.0	.	.	.	1.245	1.020*	225	.	.	9626.6030		
1	10383.403	4	17911.977	-	28295.380	0	5.0-	4.0	5.0-	4.0	1.145	1.155	.010	1.145	1.155	10	-186	-186	9628.1133		
1	10381.742	3	14912.011	-	25293.751	2	.	.	4.0-	3.0	.	.	.	0.496	0.965	469	-210	-210	9629.6537		
1	10379.853	2	22429.924	-	32809.844	3	.	.	4.0-	4.0	.	.	.	1.279	0.900	379	10	7	9631.3969	IS*	
1	10377.265	1	29233.723	-	18856.461	3	.	.	4.0-	5.0	.	.	.	1.260	1.325*	65	.	304	9633.8082		
	10376.340	2	9634.6670	
1	10375.804	3	22837.092	-	33212.897	-1	3.0-	4.0	3.0-	4.0	1.110	1.105	.005	1.110	1.110*	0	-135	-136	9635.1647		
1	10371.688	2	20697.436	-	31069.124	0	.	.	7.0-	8.0	.	.	.	1.250	1.135	115	-053	-49	9638.9885		
1	10370.592	2	23550.352	-	33920.944	0	.	.	3.0-	2.0	.	.	.	1.090	1.040*	50	45	40	9640.0071	IS*	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	10368.782	2	24816.699-35185.490	-9	.	.	2.0-	1.0	.	.	.	.	1.165	0.905	260	16	24	9641.6899	IS*
1	10366.754	3	14292.176-24658.931	-1	5.0-	4.0	5.0-	4.0	.959	1.080	.121	.	0.970	1.030	110	-066	-66	9643.5761	
1	10365.870	2	23207.126-33572.999	-3	.	.	8.0-	9.0	.	.	.	.	1.135	1.160*	25		-93	9644.3985	
1	10363.639	2	19555.257-29921.899	-3	.	.	2.0-	2.0	.	.	.	.	-0.145	1.070*	1215		-35	9646.4747	
1	10362.058	6	14763.705-25125.763	0	1.0-	1.0	1.0-	1.0	-0.068	0.315	.383	.	-0.066	0.314	380	-036	-36	9647.9465	IS*
	10360.758	2																9649.1571	
2	10360.416	3	29026.425-18666.006	-3	2.5-	2.5	2.5-	2.5	1.149	1.365	216	.	1.150	1.365	215	126	120	9649.4756	
1	10357.467	2	22219.737-32577.204	0	.	.	4.0-	4.0	.	.	.	.	0.750	0.980*	230	-040	-41	9652.2230	
1	10357.029	2	23814.130-34171.155	4	.	.	6.0-	5.0	.	.	.	.	0.890	1.230	340	170	165	9652.6312	
	10356.445	2																9653.1755	
1	10355.355	0	27447.115-37803.470	0	.	.	10.0-	9.0	.	.	.	.	0.000	1.220*	0		0	9653.2594	
1	10355.400	2	17615.482-27970.881	1	.	.	2.0-	2.0	.	.	.	.	1.450	0.194	1256	-154	-154	9654.1497	
	10354.012	2																9655.4438	
1	10353.640	4	20043.465-30397.106	-1	5.0-	5.0	5.0-	5.0	.925	1.015	.090	.	0.925	1.005	80	123	123	9655.7908	
1	10352.523	2	22088.306-32440.827	2	.	.	6.0-	6.0	.	.	.	.	1.060	1.120*	60	-010	-9	9656.8326	IS*
1	10351.597	5	20043.465-30395.062	0	5.0-	4.0	5.0-	4.0	.925	.920	.	.	0.925	0.920	5	031	46	9657.6964	IS*
	10351.351	2																9657.9260	
1	10351.301	3	19203.415-29554.716	0	2.0-	3.0	2.0-	3.0	1.020	.830	.190	.	1.021	0.831	190	-148	-151	9657.9726	
1	10349.983	2	20769.512-31119.494	1	.	.	2.0-	2.0	.	.	.	.	1.070	0.814*	256	59	56	9659.2025	IS*
	10349.512	2																9659.6421	IS*
1	10348.975	2	18147.975-28496.950	0	.	.	3.0-	4.0	.	.	.	.	1.049	0.810	239	-203	-204	9660.1433	
	10345.497	1																9663.3909	
1	10340.502	4	20877.660-31218.105	-3	7.0-	8.0	7.0-	8.0	1.060	1.155	.095	.	1.060	1.155*	95	25	27	9668.0588	IS*
	10337.803	1																9670.5830	IS*
1	10336.375	3	19776.904-30113.280	-1	6.0-	6.0	6.0-	6.0	1.01	1.05	.04	.	1.012	1.050	38	-127	-125	9671.9190	
2	10334.486	3	22341.990-12007.503	-1	0.5-	1.5	0.5-	1.5	1.375	-0.016	1391	.	1.370	-0.019	1389	390	391	9673.6869	
1	10332.747	2	20709.458-31042.204	1	.	.	3.0-	3.0	.	.	.	.	1.240	1.010	230		147	9675.3150	
1	10330.513	3	26885.328-37215.900	1	5.0-	4.0	5.0-	4.0	1.055	1.485	.430	.	1.055	1.485	430	10	9	9677.4073	IS*
1	10330.112	2	24149.361-34479.473	0	.	.	5.0-	4.0	.	.	.	.	1.262	0.944	318	-010	-15	9677.7830	IS*
	10329.990	2																9677.8973	
1	10329.851	3	20043.465-30373.329	-3	5.0-	4.0	5.0-	4.0	.930	1.325	.	.	0.925	1.345	420	-061	-75	9678.0181	IS*
	10329.536	2																9678.3226	ISQ
	10328.020	2																9679.7433	IS*
1	10325.488	2	22429.984-32755.472	0	.	.	4.0-	4.0	.	.	.	.	1.279	1.005	274	-083	-89	9682.1169	
	10318.632	2																9688.5501	IS*
	10317.177	2																9689.9164	IS*
1	10316.110	4	22088.306-32404.416	0	6.0-	5.0	6.0-	5.0	1.06	1.05	.	.	1.060	1.055	5	069	70	9690.9186	
1	10314.950	2	25064.653-35379.603	0	.	.	3.0-	3.0	.	.	.	.	0.980	1.165	185		12	9692.0085	
1	10314.692	4	18046.103-28360.802	-2	4.0-	3.0	4.0-	3.0	.694	.887	.193	.	0.694	0.887	193	102	102	9692.2509	
1	10313.550	2	24347.551-34661.105	-4	3.0-	4.0	3.0-	4.0	.	.	.21	.	1.300	1.100*	200	73	72	9693.3241	
1	10311.399	3	24653.345-14341.947	1	1.0-	2.0	1.0-	2.0	.85	.85	.	.	0.860	0.852*	8	220	218	9695.3462	
	10308.848	2																9697.7454	IS*
1	10307.511	6	14853.317-25160.827	1	4.0-	3.0	4.0-	3.0	.786	.790	.	.	0.786	0.800	14	051	53	9699.0033	
	10307.258	2																9699.2319	
1	10305.197	5	19776.904-30083.102	-1	6.0-	5.0	6.0-	5.0	1.02	1.13	.11	.	1.012	1.150*	138	-220	-220	9700.2399	PB
1	10305.014	3	25074.585-35379.603	-4	.	.	4.0-	3.0	.	.	.	.	1.507	1.165	342	096	96	9701.3534	
1	10304.809	3	16532.104-26836.911	2	.	.	3.0-	2.0	.	.	.	.	0.300	1.260*	960	-103	-103	9701.5464	
1	10303.645	5	18602.505-23906.150	0	6.0-	5.0	6.0-	5.0	.898	1.094	.196	.	0.910	1.105	195	000	4	9702.6424	IS*
1	10303.568	3	16734.151-27037.718	1	.	.	2.0-	2.0	.	.	.	.	0.928	1.300*	372	-327	-328	9702.7149	
1	10302.977	2	24216.272-34519.250	-1	.	.	6.0-	5.0	.	.	.	.	1.005	1.170*	165		-138	9703.2715	
1	10300.586	2	15406.760-25707.348	-2	1.0-	2.0	1.0-	2.0	.89	.72	.17	.	0.890	0.720	170	-069	-73	9705.5239	
1	10296.182	3	19558.257-29854.442	-3	2.0-	1.0	2.0-	1.0	-0.144	1.175	1319	.	-0.145	1.180*	1325	-010	-16	9709.6752	IS*
1	10295.962	2	26572.296-16276.332	-2	.	.	2.0-	2.0	.	.	.	.	1.014	1.880*	866	237	239	9709.8827	
	10295.875	2																9709.9647	
1	10295.003	3	20697.436-30992.449	-10	7.0-	7.0	7.0-	7.0	1.25	1.21	.040	.	1.250	1.210*	40	-132	-143	9710.7872	IS*

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	10293.359	2	20521.579-30814.939	-1	.	.	.	6.0-	5.0	.	.	.	1.246	1.111	135	-229	-229	9712.3382	
1	10293.065	3	22083.306-32381.372	-1	6.0-	5.0	6.0-	5.0	1.061	1.193	.132	1.060	1.190	130	-072	-72	9712.6156		
	10290.332	2			40		9715.1951	
1	10289.214	4	23281.721-33570.935	0	.	.	5.0-	4.0	.	.	.	1.235	1.130*	105	+	36	9716.2508		
1	10288.735	5	13517.647-23806.381	1	2.0-	1.0	2.0-	1.0	.893	.092	.801	0.892	0.094	798	-114	-115	9716.7031		
1	10288.276	2	16532.104-26820.330	0	.	.	3.0-	2.0	.	.	.	0.300	1.160	860	-086	-86	9717.1366		
1	10287.982	3	20990.684-31278.667	-1	.	.	5.0-	5.0	.	.	.	1.308	1.010*	298	-103	-103	9717.4143		
	10286.571	2			9718.7472	
1	10286.265	4	23100.887-33387.151	1	3.0-	2.0	3.0-	2.0	1.520	1.288	.232	1.520	1.288	232	054	52	9719.0364		
1	10285.217	3	23004.649-33289.869	-3	5.0-	5.0	5.0-	5.0	.	.	.096	1.196	1.095	101	-095	-95	9720.0267		
1	10284.068	2	23315.209-33599.280	-3	2.0-	2.0	2.0-	2.0	.	.	.284	1.335	1.606	271	-055	-58	9721.1127		
1	10283.347	2	23550.352-33833.699	0	.	.	3.0-	2.0	.	.	.	1.090	0.930*	160	-	-26	9721.7942		
1	10283.108	4	20521.579-10238.473	2	6.0-	6.0	6.0-	6.0	1.247	1.431	.184	1.246	1.431	185	182	182	9722.0202		
1	10282.962	3	15424.387-25707.348	1	.	.	3.0-	2.0	.	.	.	1.106	0.720	386	-137	-137	9722.1582		
1	10281.766	2	21600.100-31881.871	-5	.	.	6.0-	7.0	.	.	.	1.390	1.120	270	-157	-159	9723.2891		
	10280.672	2			9724.3238	
1	10280.500	2	18046.108-28326.610	-2	.	.	4.0-	4.0	.	.	.	0.694	1.260*	566	-099	-97	9724.4865		
1	10278.572	2	23763.470-34042.040	2	.	.	4.0-	4.0	.	.	.	0.970	0.806*	164	-005	-6	9726.3106	IS*	
	10276.869	2			-025		9727.9224	IS*
1	10276.650	2	21420.983-31697.633	0	.	.	3.0-	4.0	.	.	.	1.663	1.187	476	+	84	9728.1297		
1	10275.850	3	19074.292-29350.139	3	2.0-	3.0	2.0-	3.0	1.532	.910	.622	1.532	0.910	622	16	16	9728.8870	IS*	
1	10275.423	3	28482.680-38758.100	3	.	.	6.0-	5.0	.	.	.	1.180	1.530*	350	-089	-89	9729.2913		
1	10274.464	3	22837.092-33111.557	-1	.	.	3.0-	2.0	.	.	.	1.110	1.315*	205	-158	-158	9730.1995		
1	10273.665	2	21603.247-31876.909	3	.	.	2.0-	2.0	.	.	.	0.060	0.000*	0	-065	-66	9730.9562		
1	10273.023	3H	32724.820-22451.834	37	.	.	4.0-	5.0	.	.	.	1.186	0.000*	0		151	9731.5643		
	10272.875	2			9731.7045	
	10272.778	3			53		9731.7964	ISQ
	10272.674	3			9731.8949	
1	10272.495	4	22160.184-32432.680	-1	.	.	8.0-	7.0	.	.	.	1.230	1.140	90	-182	-184	9732.0645		
1	10271.456	3	18046.108-7774.653	1	.	.	4.0-	4.0	.	.	.	0.694	1.463	769	-042	-46	9733.0490	IS*	
1	10268.653	3	25499.501-35768.160	-6	.	.	9.0-	8.0	.	.	.	1.200	1.120*	80	046	49	9735.7058		
2	10267.554	4	24700.905-14433.351	0	0.5-	1.5	0.5-	1.5	2.02	1.92	.10	2.025	1.925	100	346	346	9736.7478		
1	10267.046	2	25870.685-36137.730	1	.	.	2.0-	2.0	.	.	.	1.170	1.525	355	-043	-44	9737.2296		
1	10265.755	2	30204.810-19939.052	-3	.	.	3.0-	3.0	.	.	.	1.215	0.000*	0	158	158	9738.4541		
	10263.489	2			9740.6042	
1	10263.355	3	26009.000-15745.648	4	.	.	3.0-	3.0	.	.	.	0.870	1.145*	275	169	170	9740.7305		
1	10262.806	5	14025.007-24287.814	-1	4.0-	3.0	4.0-	3.0	.975	.585	.390	0.975	0.585	390	-177	-177	9741.2525		
1	10257.136	2	19959.027-30216.163	0	1.0-	2.0	1.0-	2.0	.76	1.14	.38	0.760	1.143*	383	097	97	9746.6373		
1	10256.558	2	30578.731-20322.165	-8	.	.	5.0-	6.0	.	.	.	1.209	1.360*	151	247	247	9747.1866		
2	10254.075	3	17532.937-7278.862	0	3.5-	4.5	3.5-	4.5	1.227	1.537	.310	1.238	1.545	307	185	193	9749.5469		
1	10252.405	2	29108.865-18856.461	1	.	.	5.0-	5.0	.	.	.	1.210	1.325*	115	206	206	9751.1349		
1	10252.048	2	22416.990-32669.040	-2	.	.	2.0-	3.0	.	.	.	1.675	1.000*	675	63	61	9751.4745		
1	10249.784	2	20425.711-30675.497	-2	.	.	1.0-	2.0	.	.	.	1.340	0.375	965		75	9753.6284		
2	10249.189	2	26535.775-16226.582	-4	.	.	0.5-	0.5	.	.	.	-0.071	-0.122	51		347*	9754.1947	C2	
1	10249.189	2	24149.361-34398.550	0	.	.	5.0-	4.0	.	.	.	1.262	0.870*	392		-32	9754.1947	C2	
1	10248.817	4	14912.011-25160.827	1	.	.	4.0-	3.0	.	.	.	0.496	0.800	304	150	150	9754.5487		
1	10248.445	2	28036.676-38235.120	1	.	.	6.0-	5.0	.	.	.	1.216	1.145	71	-075		9754.9028		
1	10248.265	2	26664.150-36912.410	5	.	.	6.0-	7.0	.	.	.	1.135	0.000*	0	000	3	9755.0741		
1	10247.682	3	20709.458-30957.140	0	.	.	3.0-	2.0	.	.	.	1.240	0.980	260	5	9	9755.6291	IS*	
1	10245.610	2	19959.027-30204.635	2	.	.	1.0-	1.0	.	.	.	0.760	0.590*	170	106	110	9757.6020		
1	10244.632	2	25109.417-35354.050	-1	.	.	8.0-	7.0	.	.	.	1.090	0.000*	0	-164	-161	9758.5335		
1	10242.664	3	20521.579-30764.244	-1	.	.	6.0-	6.0	.	.	.	1.246	0.975	271	-230	-231	9760.4085		
1	10241.802	2	16595.109-26836.911	0	.	.	3.0-	2.0	.	.	.	0.999	1.260*	261	-272	-274	9761.2300		
1	10241.528	3	25371.962-35613.490	0	.	.	6.0-	5.0	.	.	.	1.165	1.090*	75	-030	-30	9761.4912	IS*	
1	10240.437	3	23766.136-34006.573	0	.	.	1.0-	0.0	.	.	.	2.162	0.000	0	-005	5	9762.5311	IS*	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	10239.793	5	13726.661-23966.450	4	4	3.0-	3.0	3.0-	3.0			.402	1.150	0.760	390	-167	-167	9763.1451	
1	10239.055	2	22429.984-32669.040	-1	-1			4.0-	3.0				1.279	1.000*	279		39	9763.8488	
1	10238.509	4	20330.616-31069.124	1	1			8.0-	8.0				1.110	1.135*	25	-062	-58	9764.3695	
1	10237.891	4	23766.136-13528.246	1	1			1.0-	1.0				2.162-0.590*	2752		054	57	9764.9589	
1	10237.703	3	20306.482-30544.187	-2	-2			4.0-	3.0				1.123	0.946	177	-146	-145	9765.1383	
1	10236.673	2	15856.828-25093.563	-2	-2			1.0-	1.0				1.103-0.082	1185		-089	-95	9766.1208	
1	10235.322	2	21703.960-31939.345	-3	-3			5.0-	6.0				1.120	1.200*	80	-316	-318	9767.3526	
1	10232.697	2	21737.407-31970.100	4	4			3.0-	4.0				1.026	1.100*	74	43	44	9769.9155	
1	10232.029	3	18602.505-28334.535	-1	-1			6.0-	5.0				0.910	0.978	68	070	71	9770.5534	
2	10228.135	2	28294.140-18666.006	1	1			3.5-	2.5				1.009	1.365	356	233	235	9774.2732	
1	10227.296	2	23315.209-33542.506	-1	-1			2.0-	2.0				1.335	1.123	212	-015	-10	9775.0750	IS*
1	10226.646	4	13726.661-23953.307	0	0			3.0-	2.0				1.150	1.265	115	-393	-394	9775.6963	
	10223.544	2														20		9778.6624	IS*
1	10222.903	4	24090.570-34313.475	-2	-2			7.0-	6.0				1.130	1.030*	100	070	70	9779.2756	
1	10221.659	2	25916.069-36137.730	-2	-2			3.0-	2.0				1.350	1.525*	175	-025	-3	9780.4657	IS*
1	10217.763	4	16828.909-27106.673	-1	-1			6.0-	6.0				1.098	1.040	58	-119	-119	9784.1950	
1	10217.502	2	19945.603-30083.102	3	3			4.0-	5.0				1.100	1.150*	50	-202	-206	9784.4449	
2	10216.252	2	31758.755-21542.435	-38	-38			2.5-	2.5				1.270	1.279	9	30		9785.6134	IS*
1	10215.742	2	15356.828-26072.627	3	3			1.0-	2.0				1.103	1.500*	397	-320	-308	9786.1306	
1	10214.626	3	18346.917-23561.548	-5	-5			2.0-	2.0				1.518	0.784	734	-056	-59	9787.1998	
1	10213.329	2	14737.783-24951.118	-1	-1			3.0-	3.0				0.815	0.840	25	-036	-34	9788.4427	IS*
1	10212.944	2	27536.236-17323.291	-1	-1			3.0-	4.0				1.355	1.250*	105	212	212	9788.8117	
1	10212.824	5	18147.975-28360.802	-3	-3	3.0-	3.0	3.0-	3.0	1.049	.892	.157	1.049	0.887	162	-133	-132	9788.9267	
	10211.447	3														5		9790.2468	IS*
1	10211.275	4	22038.306-32299.581	0	0			6.0-	5.0				1.060	0.000*	0	-030	-25	9790.4117	
	10209.381	2														-040		9792.2280	IS*
1	10208.247	3	23004.649-33212.897	-1	-1			5.0-	4.0				1.196	1.110*	86	-131	-130	9793.3157	
1	10207.104	4	23735.353-13528.246	-3	-3			2.0-	1.0				0.935-0.590*	1525		160	160	9794.4124	
	10206.061	2																9794.6456	
1	10205.582	3	26811.368-16604.786	0	0			7.0-	6.0				1.180	0.950*	230	025	24	9794.9133	
1	10205.829	5	16155.109-26360.997	1	1			5.0-	5.0				0.948	0.796	152	-244	-246	9795.5784	
	10205.614	2																9795.8424	
1	10204.755	2	21812.682-32017.434	3	3			4.0-	4.0				1.040	1.020*	20	-067	-72	9796.6670	IS*
	10202.486	1																9798.8457	
1	10201.414	3	20769.512-30970.926	0	0			2.0-	1.0				1.070	0.295*	775	119	117	9799.8754	
	10198.789	2														-010		9802.3978	IS*
	10198.468	2														-148		9804.6291	
1	10195.874	5	16155.109-26350.982	1	1			5.0-	4.0				0.948	0.796	152	-145	-146	9805.2003	
1	10191.495	2	20990.684-31182.179	0	0			5.0-	4.0				1.308	1.210*	98	-276	-280	9809.4133	
1	10191.003	2	24153.741-34349.740	4	4			2.0-	1.0				1.240	0.810*	430	45	48	9809.8869	IS*
1	10188.473	3	21263.339-31451.814	-2	-2			5.0-	4.0				0.610	1.080*	470	133	137	9812.3229	
1	10186.495	3	19959.027- 9772.532	0	0			1.0-	0.0				0.760	0.000*	0	-143	-141	9814.2282	
1	10185.460	3	10436.922-20672.390	-8	-8			1.0-	1.0				0.355	0.000*	0	-404	-410	9815.2255	
1	10185.361	4	10436.922-20672.283	0	0			1.0-	2.0				0.355	1.430*	1075	-408	-407	9815.3209	
1	10184.422	2	18578.669-28763.085	6	6			1.0-	0.0				1.932	0.000	0	5	9	9816.2259	IS*
1	10183.019	4	15249.635-25432.655	-1	-1			2.0-	2.0				0.715	1.281	566	16	14	9817.5784	IS*
1	10182.872	3	23281.721-33464.592	1	1			5.0-	4.0				1.235	0.000*	0	-042	-42	9817.7201	
1	10182.617	2	23416.666-33599.280	3	3			2.0-	2.0				1.320	1.605*	286	-120	-121	9817.9659	
2	10182.102	2	24615.450-14433.351	3	3			1.5-	1.5				1.011	1.925	914		404	9818.4625	
1	10181.727	2	30503.896-20322.165	-4	-4			5.0-	6.0				0.000	1.360*	0	157	155	9818.8242	
1	10178.222	2	24742.092-34920.315	-1	-1			4.0-	3.0				0.980	0.930*	50	-067	-62	9822.2054	IS*
1	10177.960	4	14025.007-24202.966	1	1			4.0-	5.0				0.975	1.012	37	-005	-5	9822.4582	IS*
1	10174.439	2	23550.352-33724.837	4	4			3.0-	3.0				1.090	1.160*	70	5	1	9825.8092	IS*
1	10171.790	2	21812.682-31924.470	2	2			4.0-	3.0				1.040	1.090	50	078	77	9828.4164	
	10171.290	2														25		9828.8995	IS*

C	WAVELENGTH	NUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
								J2	J1	J2	J1				G2	G1	G6	G2	G1			G6	IS	IS
1	10163.439	2	22181.363-32349.853	4	.	.	.	3.0-	2.0	.	.	.	.	.	0.780	0.000*	0	-053	-64	9831.6070	
1	10167.652	2	24456.635-34524.299	-2	.	.	.	3.0-	2.0	.	.	.	.	.	1.000	1.150*	150	-039	-89	9832.4066	
1	10166.947	4	20043.465-30210.416	-4	.	.	.	5.0-	4.0	.	.	.	.	.	0.925	1.160*	235	-016	-16	9833.0981	IS*
1	10163.015	2	28595.038-33758.100	4	.	.	.	6.0-	5.0	.	.	.	.	.	1.200	1.530*	330	-020	-10	9836.9015	IS*
1	10162.123	3	18572.411-28834.535	-1	.	.	.	6.0-	5.0	.	.	.	.	.	1.190	0.978*	212	-160	-160	9837.7659	
1	10161.836	4	20930.616-30992.449	3	.	.	.	8.0-	7.0	.	.	.	.	.	1.110	1.210*	100	-152	-152	9838.0438	
1	10161.466	3	12177.963-22339.429	0	.	.	.	1.0-	2.0	.	.	.	.	.	0.525	1.049	524	-175	-175	9838.4020	IS*
1	10159.745	3	16304.260-6144.515	0	.	.	.	4.0-	3.0	.	.	.	.	.	1.285	1.473	188	193	192	9840.0686	
1	10159.010	2	21218.180-31377.193	-3	.	.	.	3.0-	4.0	.	.	.	.	.	0.860	0.973	113		-177	9840.7805	
1	10158.650	3	24012.505-34171.155	0	.	.	.	6.0-	5.0	.	.	.	.	.	1.248	1.230	18	10	7	9841.1293	IS*
1	10157.418	2	21812.632-31970.100	0	.	.	.	4.0-	4.0	.	.	.	.	.	1.040	1.100*	60	-020	-27	9842.3229	IS*
1	10157.224	2	23413.710-33570.935	-1	.	.	.	4.0-	4.0	.	.	.	.	.	0.000	1.130*	0	-067	-62	9842.5109	
1	10155.578	4	23207.126-33362.705	-1	.	.	.	8.0-	7.0	1.14	1.14	.00	.	.	1.135	1.140*	5	035	41	9844.1061	
2	10155.094	2	15657.156-5502.060	-2	.	.	.	2.5-	1.5	.	.	.	.	.	1.000	1.169	169	198	186	9844.5753	
1	10154.501	3	22028.306-32242.810	-3	.	.	.	6.0-	5.0	.	.	.	.	.	1.060	1.215	155	-083	-81	9845.1502	
1	10154.264	4	18602.505-28756.769	0	.	.	.	6.0-	5.0	.	.	.	.	.	0.910	1.165	255	-053	-48	9845.3800	
1	10153.110	3	25328.907-35482.018	-1	.	.	.	3.0-	3.0	.	.	.	.	.	1.340	1.679	339	-005	-2	9846.4990	IS*
2	10152.340	2	25913.915-18761.580	5	.	.	.	5.5-	5.5	.	.	.	.	.	1.300	1.296*	4	413	422	9847.2458	
1	10150.833	2	20065.327-30216.163	-3	.	.	.	3.0-	2.0	.	.	.	.	.	0.998	1.143	145	-214	-222	9848.7078	
	10150.709	2			.	.	.			.	.	.	.	.				-207		9848.8281	
1	10149.307	2	18591.122-28740.433	-4	.	.	.	4.0-	3.0	.	.	.	.	.	0.965	0.970	5	-255	-253	9850.1886	
	10148.665	3			.	.	.			.	.	.	.	.				-045		9850.8117	IS*
1	10147.849	2	22176.323-32324.169	3	.	.	.	1.0-	0.0	.	.	.	.	.	1.210	0.000*	0	45	46	9851.6038	IS*
	10147.423	2			.	.	.			.	.	.	.	.				71		9852.0174	IS*
1	10147.218	2	25870.685-36017.900	3	.	.	.	2.0-	1.0	.	.	.	.	.	1.170	0.910	260	0	4	9852.2164	IS* C2
1	10147.218	2	22429.934-32577.204	-2	.	.	.	4.0-	4.0	.	.	.	.	.	1.279	0.980*	299		-53	9852.2164	C2
	10144.320	2			.	.	.			.	.	.	.	.				-030		9855.0310	IS*
1	10144.245	2	27909.524-17765.281	2	.	.	.	4.0-	3.0	.	.	.	.	.	1.270	1.680*	410	169	171	9855.1039	
1	10142.557	2	21031.258-31173.814	1	.	.	.	2.0-	1.0	.	.	.	.	.	1.455	0.450*	1005	133	132	9856.7440	
1	10142.035	4	18591.122-28733.159	-2	4.0-	4.0	4.0-	4.0-	4.0	.	.	.	.062	.	0.965	1.035	70	-092	-91	9857.2514	
	10140.391	2			.	.	.			.	.	.	.	.				5		9858.8495	IS*
1	10139.358	2	25113.744-35253.102	0	.	.	.	6.0-	5.0	.	.	.	.	.	1.302	1.110*	192	-066	-58	9859.8539	
1	10137.324	4	17911.977-7774.653	0	5.0-	4.0	5.0-	4.0		.	.	.	.	.	1.145	1.463	318	186	186	9861.8322	
1	10136.918	2	23281.721-33418.637	2	.	.	.	5.0-	5.0	.	.	.	.	.	1.235	0.872	363	-063	-59	9862.2272	IS*
1	10135.194	4	16155.109-26290.302	1	.	.	.	5.0-	5.0	.	.	.	.	.	0.948	1.125	177	-370	-372	9863.9048	
	10134.588	1			.	.	.			.	.	.	.	.				-063		9864.4946	IS*
1	10132.454	2	23909.585-34042.040	-1	.	.	.	5.0-	4.0	.	.	.	.	.	1.242	0.806	436		-34	9866.5722	
1	10132.365	2	18046.108-28178.473	0	.	.	.	4.0-	3.0	.	.	.	.	.	0.694	0.000*	0	-155	-152	9866.6588	
1	10129.179	2	23763.470-33892.650	-1	.	.	.	4.0-	3.0	.	.	.	.	.	0.970	1.060*	90	-072	-76	9869.7623	IS*
1	10128.946	2	24759.250-34888.198	-2	.	.	.	6.0-	5.0	.	.	.	.	.	1.098	1.070	28	-165		9869.9893	
1	10127.529	2	17615.482-27743.009	2	.	.	.	2.0-	2.0	.	.	.	.	.	1.450	0.568	882	30	29	9871.3703	IS*
1	10126.840	2	16304.260-26431.101	-1	.	.	.	4.0-	3.0	.	.	.	.	.	1.285	0.807	478	-266	-265	9872.0419	
1	10125.038	3	25870.685-15745.648	1	.	.	.	2.0-	3.0	.	.	.	.	.	1.170	1.145	25	153	153	9873.7989	
	10124.433	3			.	.	.			.	.	.	.	.				45		9874.3889	IS*
1	10123.518	4	16532.104-26555.622	0	.	.	.	3.0-	3.0	.	.	.	.	.	0.300	1.015	715	25	26	9875.2814	IS*
1	10122.536	3	15856.898-25979.424	0	.	.	.	1.0-	1.0	.	.	.	.	.	1.103	1.260	157	-216	-217	9876.2394	
1	10121.233	2	21350.311-31471.542	2	.	.	.	2.0-	1.0	.	.	.	.	.	0.350	2.188*	1838	-020	-21	9877.5109	IS*
1	10119.007	7	12322.613-2203.605	0	2.0-	1.0	2.0-	1.0		1.035	1.495	.460	.	.	1.036	1.495	459	192	192	9879.6837	
1	10114.243	3	21337.573-31451.814	2	.	.	.	4.0-	4.0	.	.	.	.	.	1.137	1.030	57	-083	-79	9884.3373	
1	10113.854	4	21263.339-31377.193	0	.	.	.	5.0-	4.0	.	.	.	.	.	0.610	0.973*	363	076	80	9884.7174	
1	10113.315	2	17615.482-27728.796	1	.	.	.	2.0-	3.0	.	.	.	.	.	1.450	1.060	390	-065	-66	9885.2443	
	10113.035	2			.	.	.			.	.	.	.	.				-025		9885.5180	IS*
1	10110.435	3	19865.603-29976.039	-1	.	.	.	4.0-	4.0	.	.	.	.	.	1.100	1.070	30		-163	9888.0601	
1	10110.182	5	19236.116-29346.299	-1	7.0-	7.0	7.0-	7.0		1.175	1.195	.020	.	.	1.155	1.200*	45	-078	-79	9888.3076	
1	10109.448	4	16834.379-26943.829	-2	.	.	.	5.0-	5.0	.	.	.	.	.	0.961	1.220	259	-216	-216	9889.0255	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	10108.160	2	19074.292-29182.445	7	.	.	.	.	.	2.0-	1.0	.	.	.	1.532	0.000*	0		18	9890.2856	
	10107.071	2																			9891.3512	
1	10105.514	1	22307.633-32413.146	1	.	.	.	.	.	3.0-	3.0	.	.	.	1.434	0.995	439	-097	-197	9892.8753	IS*
2	10103.480	2	27256.960-17153.470	-10	.	.	.	.	.	3.5-	4.5	.	.	.	1.155	1.200	45	403	396	9894.8669	
1	10102.761	3	16734.151-26836.911	1	.	.	.	.	.	2.0-	2.0	.	.	.	0.928	1.260*	332	-293	-298	9895.5711	
1	10102.549	2	20934.195-31026.744	0	.	.	.	.	.	6.0-	5.0	.	.	.	1.319	0.795	524	-030	-41	9895.7787	IS*
1	10101.390	2	22377.599-32478.986	3	.	.	.	.	.	7.0-	6.0	.	.	.	1.076	1.110	34	-302	-304	9896.9141	
	10099.969	2																			9898.3066	
	10098.110	2																			9900.1288	
	10097.974	2																			9900.2621	
1	10097.801	6	14853.317-24951.118	0	4.0-	3.0	4.0-	3.0	.760	.805	.045	0.786	0.840	54	40	40				9900.4318	SO	
1	10096.060	3	20990.624-31085.744	0	.	.	.	.	.	5.0-	5.0	.	.	.	1.308	0.795	513	-060	-24	9902.1390	
1	10095.791	3	26272.321-16776.530	0	.	.	.	.	.	1.0-	1.0	.	.	.	2.690	0.000*	0	150	147	9902.4029	
1	10095.391	2	28951.847-16856.461	5	.	.	.	.	.	5.0-	5.0	.	.	.	1.290	1.325*	35	154	148	9902.7952	ISQ
1	10092.500	3	25499.501-35591.995	6	.	.	.	.	.	9.0-	8.0	.	.	.	1.200	1.105	95	24	24	9905.6319	IS*
1	10091.124	1	22181.368-32272.437	5	.	.	.	.	.	3.0-	3.0	.	.	.	0.780	0.000*	0	-099	-86	9906.9826	
1	10089.898	3	22719.949-32509.844	3	.	.	.	.	.	4.0-	4.0	.	.	.	1.070	0.900	170	+	16	9908.1864	
	10089.053	3																40			9909.0064	IS*
1	10088.581	3	20306.482-30395.062	1	.	.	.	.	.	4.0-	4.0	.	.	.	1.123	0.920	203	-180	-178	9909.4798	
1	10087.173	4	19558.257-29645.433	-3	.	.	.	.	.	2.0-	1.0	.	.	.	-0.145	0.705	850	-044	-57	9910.8630	IS*
1	10084.359	2	12672.411-23756.769	1	.	.	.	.	.	6.0-	5.0	.	.	.	1.190	1.165*	25	-279	-279	9913.6286	
1	10083.526	4	13517.647-23601.171	2	1.0-	2.0	2.0-	1.0	.	.	.	.	.	.31	0.892	0.565	327	-264	-263	9914.4476	
	10080.393	1																			9917.5290	
	10079.681	2																			9918.2296	
1	10079.158	2	23100.887-33180.043	2	.	.	.	.	.	3.0-	2.0	.	.	.	1.520	1.790*	270	125	130	9918.7442	
	10077.192	4																			9920.6793	
1	10075.858	6	14853.317-24929.184	1	4.0-	4.0	4.0-	4.0	.786	1.080	.294	0.786	1.080	294	-077	-77				9921.9829		
1	10075.657	2	21337.573-31413.230	0	.	.	.	.	.	4.0-	3.0	.	.	.	1.137	0.742	395		-72	9922.1907	
1	10075.122	2	14692.549-24767.674	-3	.	.	.	.	.	2.0-	2.0	.	.	.	0.292	1.455	1163	-411	-405	9922.7176	IS*
1	10073.415	2	21737.407-31810.821	1	.	.	.	.	.	3.0-	2.0	.	.	.	1.026	0.865	161	121	118	9924.3991	
1	10069.814	2	20043.465-30113.280	-1	.	.	.	.	.	5.0-	6.0	.	.	.	0.925	1.050	125	120	118	9927.9481	
1	10069.097	2	20521.579-30590.673	3	.	.	.	.	.	6.0-	6.0	.	.	.	1.246	0.000*	0	-374	-376	9928.6550	
	10068.778	2																			9928.9696	
1	10068.353	4	14853.317-24921.671	-1	.	.	.	.	.	4.0-	5.0	.	.	.	0.786	1.034	248	-032	-30	9929.3887	IS*
2	10066.210	2	25556.740-15488.530	0	.	.	.	.	.	4.5-	3.5	.	.	.	0.976	1.057	81	-110	-103	9929.5297	
1	10067.248	1	21218.180-31286.029	-1	.	.	.	.	.	3.0-	2.0	.	.	.	0.860	1.280	420		-76	9929.8868	
1	10065.809	3	20697.436-30764.244	1	.	.	.	.	.	7.0-	6.0	.	.	.	1.250	0.975	275	-230	-231	9930.9116	
1	10066.401	5	23207.126-33273.528	-1	.	.	.	.	.	8.0-	7.0	.	.	.	1.135	1.070*	65	10	2	9931.3141	IS*
1	10065.335	3	20306.482-30371.819	-2	.	.	.	.	.	4.0-	3.0	.	.	.	1.123	0.640	483	-278	-276	9932.3660	
	10064.644	2																			9933.0479	
1	10063.233	2	22377.599-32440.827	5	.	.	.	.	.	7.0-	6.0	.	.	.	1.076	1.120*	44	-246	-246	9934.4406	
1	10062.919	2	21350.311-31413.230	0	.	.	.	.	.	2.0-	3.0	.	.	.	0.350	0.742*	392		-41	9934.7506	
1	10060.511	3	16595.109-26555.622	-2	.	.	.	.	.	3.0-	3.0	.	.	.	0.999	1.015	16	-145	-145	9937.1285	
1	10057.710	2	17500.977-27558.688	-1	.	.	.	.	.	1.0-	0.0	.	.	.	2.258	0.000	0	-110	-103	9939.8959	IS*
1	10056.044	2	25113.744-35169.790	-2	.	.	.	.	.	6.0-	6.0	.	.	.	1.302	1.120*	182	-020	-19	9941.5427	IS*
1	10055.030	3	22377.599-32432.680	-1	.	.	.	.	.	7.0-	7.0	.	.	.	1.076	1.140	64		-176	9942.4958	
1	10054.919	5	16288.909-26943.829	-1	.	.	.	.	.	6.0-	5.0	.	.	.	1.098	1.220	122	-241	-241	9942.6550	
	10054.810	2																			9942.7628	
1	10054.238	4	19236.116-29290.355	-1	.	.	.	.	.	7.0-	6.0	.	.	.	1.155	0.920	235	-207	-208	9943.3285	
	10050.514	1																			9947.0128	IS*
1	10048.928	2	23550.352-33599.280	0	.	.	.	.	.	3.0-	2.0	.	.	.	1.090	1.606*	516		-45	9948.5827	
	10048.110	2																			9949.3926	IS*
1	10044.117	1	15249.635-25293.751	1	.	.	.	.	.	2.0-	3.0	.	.	.	0.715	0.965	250	-379	-382	9953.3479	IS*
1	10040.127	3	21227.793-31267.919	1	.	.	.	.	.	4.0-	3.0	.	.	.	1.346	1.080	266	-020	-18	9957.3035	IS*
1	10039.549	3	16834.379-26873.930	-2	.	.	.	.	.	5.0-	6.0	.	.	.	0.961	1.125	164	-028	-28	9957.8767	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	GSS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	10039.107	2	14912.011	-	24951.118	0	.	.	4.0-	3.0	.	.	.	0.496	0.840	344	147	137	9958.3152		
	10037.924	2					.	.			.	.	.				-010		9959.4888	IS*
	10036.443	2					.	.			.	.	.						9960.9584	
2	10031.445	5	22038.950	-	12007.503	-2	0.5-	1.5	0.5-	1.5	.345	0.015	360	0.344	0.019	363	209	210	9965.9213		
1	10030.498	3	18147.975	-	28178.473	0	.	.	3.0-	3.0	.	.	.	1.049	0.000*	0	-383	-386	9966.8622		
1	10029.834	3	14737.783	-	24767.674	-2	.	.	3.0-	2.0	.	.	.	0.815	1.455	640	-407	-404	9967.4724		
1	10028.422	2	20043.465	-	30071.890	-3	.	.	5.0-	5.0	.	.	.	0.925	1.290*	365	-063	-67	9968.9255	IS*	
1	10026.159	4	15249.635	-	25275.795	-1	.	.	2.0-	1.0	.72	.72	.00	0.715	0.706	9	-032	-45	9971.1756	IS*	
1	10025.894	4	15406.760	-	25432.655	-1	1.0-	2.0	1.0-	2.0	.877	1.274	.397	0.890	1.281	391		85	9971.4391		
1	10024.192	3	26990.684	-	31014.877	-1	.	.	5.0-	4.0	.	.	.	1.308	1.170	138	-124	-124	9973.1322		
1	10021.422	2	26506.405	-	36627.825	2	.	.	5.0-	4.0	.	.	.	1.130	0.930*	150		25	9975.8889		
2	10020.927	3	26766.650	-	16745.720	-3	.	.	2.5-	2.5	.	.	.	1.058	1.671	613	347	356	9976.3816	IS*	
1	10020.783	2	20654.712	-	30675.497	-2	.	.	1.0-	2.0	.	.	.	0.200	0.375	175	75	79	9976.5250		
1	10020.351	2	19865.603	-	29885.947	7	.	.	4.0-	3.0	.	.	.	1.100	1.330*	230	-368	-368	9976.9551		
1	10017.174	5	14912.011	-	24929.184	1	4.0-	4.0	4.0-	4.0	.496	1.090	.594	0.496	1.080	584	20	20	9980.1194	IS*	
1	10016.817	3	12322.613	-	22339.429	1	.	.	2.0-	2.0	.	.	.	1.036	1.049	13	-178	-179	9980.4751		
1	10015.326	3	12263.339	-	31278.667	-2	.	.	5.0-	5.0	.	.	.	0.610	1.010*	400	162	163	9981.9609		
1	10013.915	3	24733.061	-	34746.981	-5	.	.	7.0-	8.0	.	.	.	1.275	0.000*	0	-077	-78	9983.3674		
2	10012.579	4	23735.900	-	13726.318	-3	.	.	2.5-	2.5	.	.	.	0.679	0.784	105	274	269	9984.6995		
1	10012.161	3	26868.619	-	12856.461	3	.	.	5.0-	5.0	.	.	.	1.085	1.325	240	209	211	9985.1163		
1	10010.394	2	25839.917	-	35850.314	-3	.	.	6.0-	6.0	.	.	.	1.250	1.040*	210		-49	9986.8789		
1	10009.659	2	14912.011	-	24921.671	-1	.	.	4.0-	5.0	.	.	.	0.496	1.034	538	069	67	9987.6122		
1	10008.566	2	18897.594	-	23906.150	0	.	.	5.0-	5.0	.	.	.	1.280	1.105	175		-231	9988.7029		
1	10008.267	4	15424.387	-	25432.655	-1	.	.	3.0-	2.0	.	.	.	1.106	1.281	175	20	21	9989.0013	IS*	
1	10007.900	2	22416.990	-	32424.890	0	.	.	2.0-	1.0	.	.	.	1.675	1.770*	95	-012	-14	9989.3676	IS*	
1	10005.605	2	24347.551	-	14341.947	1	.	.	3.0-	2.0	.	.	.	1.300	0.852*	448	183	184	9991.6589		
1	10004.927	2	20709.458	-	30714.385	0	.	.	3.0-	4.0	.	.	.	1.240	1.150	90	135	132	9992.3360		
1	10004.074	1	20540.110	-	30544.187	-3	.	.	3.0-	3.0	.	.	.	0.830	0.946*	116	75	80	9993.1880	IS*	
	10002.092	1					.	.			.	.	.						9995.1683	
1	9997.508	2	24158.741	-	34156.245	4	.	.	2.0-	1.0	.	.	.	1.240	1.305*	65	-030	-23	9999.7512	IS*	
	9996.853	2					.	.			.	.	.				208		10000.4064	
1	9993.669	4	21703.960	-	31697.633	-4	.	.	5.0-	4.0	.	.	.	1.120	1.187	67	-107	-106	10003.5926		
1	9993.222	2	24742.092	-	34735.314	0	.	.	4.0-	3.0	.	.	.	0.980	0.899*	81	-067	-72	10004.0400		
	9992.340	2					.	.			.	.	.						10004.9231	
	9991.799	2					.	.			.	.	.						10005.4648	
1	9991.425	2	23705.495	-	33696.921	-1	.	.	7.0-	6.0	.	.	.	1.277	1.100*	177		-79	10005.8393		
	9988.095	2					.	.			.	.	.						10009.1752	
1	9987.949	2	18147.975	-	28135.924	0	.	.	3.0-	2.0	.	.	.	1.049	1.101	52		-366	10009.3215		
1	9987.020	2	21218.180	-	31205.200	0	.	.	3.0-	2.0	.	.	.	0.860	1.090*	230	-144	-146	10010.2526		
1	9985.020	5	16888.909	-	26873.930	-1	6.0-	6.0	6.0-	6.0	1.100	1.125	.025	1.098	1.125	27	-053	-53	10012.2577		
2	9984.452	3	21991.930	-	12007.503	5	.	.	2.5-	1.5	.	.	.	1.344	0.019	1363		446	10012.7972		
	9984.247	2										-170	10013.0328	
1	9982.879	3	18578.669	-	28561.548	0	.	.	1.0-	2.0	.	.	.	1.932	0.784	1148	082	86	10014.4050		
1	9980.462	2	21218.180	-	31198.642	0	.	.	3.0-	3.0	.	.	.	0.860	1.070	210	-107	-101	10016.8302		
1	9978.639	2	21307.390	-	31206.029	0	.	.	1.0-	2.0	.	.	.	2.360	1.280*	1080	153	158	10018.6602		
1	9978.197	2	21998.645	-	31976.844	-2	.	.	7.0-	7.0	.	.	.	1.269	1.095	174	-163	-163	10019.1040	IS*	
1	9974.357	7	12177.963	-	2203.606	0	1.0-	1.0	1.0-	1.0	.525	1.495	.970	0.525	1.495	970	189	188	10022.9612		
	9973.866	2					.	.			.	.	.						10023.4546	
1	9973.741	3	26250.080	-	16276.332	-7	.	.	1.0-	2.0	.	.	.	1.290	1.880*	590		185	10023.5803		
1	9973.573	2	30645.856	-	20672.283	0	.	.	2.0-	2.0	.	.	.	1.541	1.430*	111		152	10023.7491		
	9972.832	2					.	.			.	.	.						10024.4939	
1	9970.285	4	18147.975	-	28118.262	-1	.	.	3.0-	3.0	.	.	.	1.049	1.250*	201	-032	-34	10027.0537	IS*	
	9969.061	3										-078	10028.2859	
	9966.945	2											10030.4149	
	9964.812	2											10032.5620	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	9951.369	2	23763.470-33724.837			2	. . .	4.0- 3.0			. . .	. . .	. . .	0.970	1.160*	190	-094	-98	10036.0296	
1	9950.328	3	25706.036-15745.648			0	. . .	2.0- 3.0			. . .	. . .	. . .	1.290	1.145	145	156	153	10037.0180	
1	9959.037	5	15249.635-25208.672			0	2.0- 2.0	2.0- 2.0			.715	.490	.225	0.715	0.490	225	-047	-49	10038.3796	IS*
	9957.721	2																	10039.7063	
1	9957.543	3	23413.710-33371.251			2	. . .	4.0- 3.0			. . .	. . .	. . .	0.000	1.113*	0	-091	-99	10039.8857	IS*
1	9955.875	2	20584.195-30940.068			2	. . .	6.0- 5.0			. . .	. . .	. . .	1.319	1.080	*239		-95	10041.5678	
	9955.578	2																	10041.8674	
1	9954.995	2	24090.570-34045.560			5	. . .	7.0- 7.0			. . .	. . .	. . .	1.130	1.170*	40		65	10042.4555	
2	9954.011	2	24387.360-14433.351			2	. . .	1.5- 1.5			. . .	. . .	. . .	0.955	1.925	970		553	10043.4482	
	9953.785	2																	10043.6763	
	9952.806	2																	10044.6642	
	9952.683	2																	10044.7883	
	9952.310	2																	10045.1648	
	9952.191	2																	10045.2849	
	9951.933	3																	10045.5453	
1	9951.808	2	26885.388-36837.190			6*	. . .	5.0- 5.0			. . .	. . .	. . .	1.055	0.965	90			10045.6715	
	9951.686	3																	10045.7947	
	9951.545	3																	10045.9370	
	9951.306	3																	10046.1783	
	9951.192	3																	10046.2934	
1	9951.052	4	20065.327-30016.377			2	. . .	3.0- 2.0			. . .	. . .	. . .	0.998	1.140	142		-328	10046.4347	
1	9950.743	8	8768.139-18718.882			0	2.0- 2.0	2.0- 2.0			.360	.504	.144	0.362	0.504	142	-020	-20	10046.7467	IS*
1	9950.545	3	17554.704-27505.246			3	. . .	8.0- 7.0			. . .	. . .	. . .	1.170	0.000*	0	-153	-153	10046.9466	
	9950.253	3																	10047.2414	
	9950.122	3																	10047.3737	
	9949.733	3																	10047.7665	
	9949.614	2																	10047.8867	
	9949.364	3																	10048.1392	
	9948.868	2																	10048.6401	
	9948.610	2																	10048.9007	
	9948.484	2																	10049.0280	
	9948.120	2																	10049.3957	
1	9947.722	3	23550.352-33498.071			3	. . .	3.0- 3.0			. . .	. . .	. . .	1.090	0.770*	320	057	57	10049.7978	
	9947.109	2																	10050.4171	
1	9943.966	2	16532.104-26476.068			2	. . .	3.0- 4.0			. . .	. . .	. . .	0.300	1.605	1305		-190	10053.5938	
1	9942.230	2	18963.921-28906.150			1	. . .	4.0- 5.0			. . .	. . .	. . .	1.251	1.105	146	-226	-214	10055.3492	
1	9941.522	3	13726.661-23668.184			-1	. . .	3.0- 4.0			. . .	. . .	. . .	1.150	0.940*	210		-114	10056.0653	
1	9941.447	3	14025.007-23966.450			4	. . .	4.0- 3.0			. . .	. . .	. . .	0.975	0.760	215	-162	-166	10056.1412	
1	9941.025	2	21337.573-31278.667			1	. . .	4.0- 5.0			. . .	. . .	. . .	1.137	1.010*	127		-53	10056.4973	
1	9940.830	3	23413.710-33354.592			-2	. . .	4.0- 3.0			. . .	. . .	. . .	0.000	0.000*	0	-052	-52	10056.7148	
1	9939.813	2	20521.579-30461.399			-2	. . .	6.0- 5.0			. . .	. . .	. . .	1.246	0.990	256		-200	10057.7892	
1	9939.668	4	21031.258-30970.926			0	. . .	2.0- 1.0			. . .	. . .	. . .	1.455	0.295	1160	145	145	10057.9410	
2	9939.180	4	15657.156- 5717.976			0	. . .	2.5- 3.5			. . .	. . .	. . .	1.000	1.596	596	163	166	10058.4349	
1	9936.574	2	23315.209-33251.780			3	. . .	2.0- 2.0			. . .	. . .	. . .	1.335	1.465	130	20	16	10061.0728	IS*
1	9935.633	5	18602.505-28538.138			0	. . .	6.0- 7.0			. . .	. . .	. . .	0.910	1.060	150	40	42	10062.0257	IS*
1	9932.868	2	20385.328-30318.195			1	. . .	2.0- 2.0			. . .	. . .	. . .	1.911	0.940	971		32	10064.8267	
1	9932.571	2	20043.465-29976.039			-3	. . .	5.0- 4.0			. . .	. . .	. . .	0.925	1.070	145	069	66	10065.1276	
1	9931.194	3H	17500.977-27432.195			-24	. . .	1.0- 1.0			. . .	. . .	. . .	2.258	1.130*	1128	40	-217	10066.5232	IS*
1	9931.181	3	23281.721-33212.897			5	. . .	5.0- 4.0			. . .	. . .	. . .	1.235	1.110*	125		39	10066.5364	
1	9931.132	3	9386.801-19317.922			11	. . .	5.0- 5.0			. . .	. . .	. . .	0.801	0.000*	0		-157	10066.5860	
1	9930.345	4	21337.573-31267.919			-1	. . .	4.0- 3.0			. . .	. . .	. . .	1.137	1.080	57	-056	-61	10067.3838	
1	9929.118	2	20385.328-30314.443			3	. . .	2.0- 3.0			. . .	. . .	. . .	1.911	1.140*	771	-040	-40	10068.6279	IS*
1	9926.703	5	18046.108-27972.815			-4	4.0- 4.0	4.0- 4.0			.694	.980	.286	0.694	0.979	285	148	148	10071.0775	
2	9924.534	2	22686.100-18761.580			14	. . .	5.5- 5.5			. . .	. . .	. . .	1.290	1.296*	6		377	10073.2785	
	9922.924	1																	10074.9129	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	9922.322	2	22181.368	-	32103.687	3	.	.	3.0-	4.0	.	.	.	0.780	1.040*	260	.	19	10075.5242	
1	9921.143	2	14737.788	-	24658.931	0	.	.	3.0-	4.0	.	.	.	0.815	1.080	265	-067	-67	10076.7215	
1	9920.648	5	9386.801	-	19307.447	2	.	.	5.0-	4.0	.	.	.	0.801	0.000*	0	-140	-143	10077.2243	
1	9920.452	5	17911.977	-	27832.430	-1	5.0-	4.0	5.0-	4.0	.	.	.	1.145	0.920	225	-093	-91	10077.4234	
1	9919.901	2	21812.682	-	31732.582	1	.	.	4.0-	5.0	.	.	.	1.040	1.049	9	.	-54	10077.9832	
1	9918.977	3	20540.110	-	30459.091	-4	.	.	3.0-	2.0	.	.	.	0.830	1.255*	425	-068	-66	10078.9220	
1	9917.818	2	33070.573	-	23152.755	0	.	.	2.0-	2.0	.	.	.	0.673	0.580	93	.	46	10080.0998	
	9917.709	2															+		10080.2106	
1	9917.397	5	16532.104	-	26449.501	0	3.0-	3.0	3.0-	3.0	.30	.94	.64	0.300	0.940*	640	-067	-67	10080.5277	PB
2	9915.119	2	25403.645	-	15498.530	4	.	.	2.5-	3.5	.	.	.	1.029	1.057	28	346	348	10082.8437	
1	9914.612	2	27301.288	-	37215.900	0	.	.	4.0-	4.0	.	.	.	0.985	1.485	500	-079	-72	10083.3593	
	9912.739	2															-040		10085.2646	IS*
1	9911.191	3	15249.635	-	25160.827	-1	.	.	2.0-	3.0	.	.	.	0.715	0.800	85	-015	-22	10086.8398	IS*
1	9910.791	6	14292.176	-	24202.966	1	5.0-	5.0	5.0-	5.0	.97	1.01	.037	0.970	1.012	42	-003	-3	10087.2469	IS*
1	9905.990	2	26835.388	-	36791.380	-2	.	.	5.0-	5.0	.	.	.	1.055	1.025	30	-005		10092.1357	IS*
1	9905.827	2	18591.122	-	23496.950	-1	.	.	4.0-	4.0	.	.	.	0.965	0.810	155	-182	-184	10092.3018	
2	9904.490	2	24337.845	-	14433.351	-4	.	.	2.5-	1.5	.	.	.	0.900	1.925	1025	.	386	10093.6642	
1	9903.930	3	20306.482	-	30210.416	-4	.	.	4.0-	4.0	.	.	.	1.123	1.160*	37	-244	-240	10094.2349	
1	9903.616	4	15406.760	-	25310.375	1	.	.	1.0-	0.0	.	.	.	0.890	0.000	0	061	59	10094.5549	
	9903.146	2																	10095.0340	
	9901.273	2															-065		10096.9437	
1	9900.923	5	14737.788	-	24638.713	-2	.	.	3.0-	2.0	.	.	.	0.815	0.000*	0	-408	-408	10097.3006	
1	9900.367	5	14853.317	-	24753.684	0	4.0-	4.0	4.0-	4.0	.	.	.189	0.786	0.975	189	-104	-104	10097.8677	
1	9898.998	5	16532.104	-	26431.101	1	3.0-	3.0	3.0-	3.0	.	.	.496	0.300	0.807	507	-049	-51	10099.2642	
1	9898.677	3	19074.292	-	28972.971	-2	.	.	2.0-	2.0	.	.	.	1.532	0.794	738	5	3	10099.5917	IS*
1	9896.977	2	28565.887	-	38462.875	-11	.	.	2.0-	1.0	.	.	.	0.911	0.765	146	.	73	10101.3265	CQ
2	9896.091	4	27059.565	-	17163.470	-4	.	.	4.5-	4.5	.	.	.	1.030	1.200*	170	245	246	10102.2309	
1	9895.873	2	12159.465	-	22055.339	-1	.	.	4.0-	3.0	.	.	.	0.844	0.000*	0	-399	-393	10102.4534	
1	9893.186	5	17911.977	-	27805.163	0	.	.	5.0-	5.0	.	.	.	1.145	1.024	121	-148	-148	10105.1973	
1	9892.902	2	19776.904	-	29669.807	-1	.	.	6.0-	6.0	.	.	.	1.012	1.150	138	.	-169	10105.4874	
1	9892.678	2	24149.351	-	34042.040	-1	.	.	5.0-	4.0	.	.	.	1.262	0.806	456	+	36	10105.7162	
1	9892.486	3	20425.711	-	30318.195	2	.	.	1.0-	2.0	.	.	.	1.340	0.940	400	36	35	10105.9123	IS*
1	9891.454	2	16202.112	-	26093.563	3	.	.	0.0-	1.0	.	.	.	0.000	-0.082	0	-079	-78	10106.9667	
1	9890.301	4	14692.549	-	24582.849	1	2.0-	2.0	2.0-	2.0	.	.	.349	0.292	0.640	348	-045	-45	10108.1449	IS*
	9888.296	3															-097		10110.1945	
1	9886.644	6	20877.600	-	30764.244	0	7.0-	6.0	7.0-	6.0	1.065	.980	.085	1.060	0.975*	85	-005	-6	10111.8839	IS*
1	9885.908	2	27651.193	-	17765.281	-4	.	.	2.0-	3.0	.	.	.	1.570	1.680*	110	181	174	10112.6367	
1	9885.755	2	23578.836	-	33464.592	-1	.	.	5.0-	4.0	.	.	.	1.120	0.000*	0	-050	-52	10112.7932	
1	9884.149	4	8768.139	-	12652.287	1	.	.	2.0-	3.0	.	.	.	0.362	0.822	460	-135	-135	10114.4364	
1	9883.221	2	21998.645	-	31881.871	-5	.	.	7.0-	7.0	.	.	.	1.269	1.120	149	-138	-146	10115.3861	IS*
1	9880.696	5	19059.958	-	9179.262	0	5.0-	5.0	5.0-	5.0	1.374	1.454	080	1.375	1.454	79	188	187	10117.9711	
1	9878.416	2	27643.693	-	17765.281	4	.	.	4.0-	3.0	.	.	.	1.310	1.680*	370	.	129	10120.3064	
1	9876.129	3	15249.635	-	25125.763	1	.	.	2.0-	1.0	.	.	.	0.715	0.314	401	-036	-36	10122.6499	
1	9875.526	4	20521.579	-	30397.106	-1	.	.	6.0-	5.0	.	.	.	1.246	1.005	241	-114	-115	10123.2680	
1	9875.347	4	16532.104	-	26407.449	2	.	.	3.0-	2.0	.	.	.	0.300	0.972	672	5	3	10123.4515	IS*
1	9871.833	3	25617.477	-	15745.648	4	.	.	2.0-	3.0	.	.	.	1.360	1.145*	215	122	122	10127.0551	
	9871.494	3															-202		10127.4029	
	9869.974	2																	10128.9625	
	9869.834	2																	10129.1062	
1	9869.596	3	22429.984	-	32299.581	-1	.	.	4.0-	5.0	.	.	.	1.279	0.000*	0	.	-29	10129.3505	
1	9869.032	7	11340.715	-	21709.745	2	3.0-	3.0	3.0-	3.0	.814	.980	.166	0.811	0.980	169	28	24	10129.9293	
	9868.789	3																	10130.1788	
	9868.542	2																	10130.4323	
	9868.407	2															+		10130.5709	
2	9868.260	2	20056.725	-	10188.463	-2	.	.	0.5-	0.5	.	.	.	0.047	2.402	2355	123	134	10130.7218	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	9868.028	2																	10130.9600	
	9867.654	2																	10131.3440	
1	9866.423	3	21307.390	-	31173.814	-1	.	.	1.0-	1.0	.	.	.	2.360	0.450*	1910	070	69	10132.6080	
	9864.525	2																	10134.5576	
1	9861.955	4	17081.874	-	26943.829	0	.	.	4.0-	5.0	.	.	.	1.217	1.220	3	-233	-233	10137.1987	
1	9861.073	2	21337.573	-	31198.642	4	.	.	4.0-	3.0	.	.	.	1.137	1.070	67	-058	-60	10138.1054	
1	9860.339	2	19776.904	-	29537.242	1	.	.	6.0-	6.0	.	.	.	1.012	1.020	8	-210	-209	10138.8600	
1	9857.143	2	19281.917	-	29139.061	-1	.	.	2.0-	2.0	.	.	.	1.822	0.000*	0	-335	-337	10142.1474	
2	9855.539	1	20044.005	-	10188.463	-3	.	.	1.5-	0.5	.	.	.	0.820	2.402	1582		137	10143.7980	
1	9854.890	2	21350.311	-	31205.200	1	.	.	2.0-	2.0	.	.	.	0.350	1.090*	740	-075	-74	10144.4661	
1	9854.391	4	16595.109	-	26449.501	-1	.	.	3.0-	3.0	.	.	.	0.999	0.940*	59	-238	-238	10144.9798	
1	9854.182	2	20306.482	-	30160.664	0	.	.	4.0-	4.0	.	.	.	1.123	1.030	93	-165	-170	10145.1949	
	9853.465	3																	10145.9332	
1	9852.440	2	29631.948	-	19779.507	-1	.	.	5.0-	4.0	.	.	.	0.000	0.000*	0	155	155	10146.9887	2LNS
1	9852.440	3	27175.729	-	17323.291	2	.	.	4.0-	4.0	.	.	.	1.021	1.250*	229	204	203	10146.9887	2LNS
	9851.031	2																	10148.4400	IS*
1	9850.460	3	15856.888	-	25707.348	0	.	.	1.0-	2.0	.	.	.	1.103	0.720	383	-083	-85	10149.0283	
1	9849.116	3	21603.247	-	31452.362	1	.	.	2.0-	1.0	.	.	.	0.060	0.852*	792	065	70	10150.4132	
1	9846.690	2	24188.639	-	14341.947	-2	.	.	1.0-	2.0	.	.	.	0.667	0.852	185	151	148	10152.9141	
1	9846.430	3	20930.616	-	30677.044	2	.	.	8.0-	8.0	.	.	.	1.110	1.245*	135	-344	-339	10153.1822	
1	9846.199	3	25591.845	-	15745.648	2	.	.	3.0-	3.0	.	.	.	0.990	1.145*	155	189	188	10153.4204	
1	9845.063	6	14737.788	-	24582.849	2	3.0-	2.0	3.0-	2.0	.815	.635	.180	0.815	0.640	175	-040	-44	10154.5920	IS*
	9844.828	2																	10154.8343	
1	9841.673	5	14912.011	-	24753.684	0	.	.	4.0-	4.0	.	.	.	0.496	0.975	479	-005	-7	10158.0897	IS*
1	9841.543	4	13517.647	-	23359.187	3	.	.	2.0-	3.0	.	.	.	0.892	1.030*	138	-366	-364	10158.2239	
1	9840.849	2	25717.388	-	35558.235	2	.	.	5.0-	4.0	.	.	.	0.970	0.990*	20	24	21	10158.9403	IS*
1	9840.037	2	16520.962	-	26350.997	2	.	.	5.0-	5.0	.	.	.	0.736	0.796	60	-024	-32	10159.7786	IS*
1	9836.800	2	23550.352	-	33387.151	1	.	.	3.0-	2.0	.	.	.	1.090	1.288*	198	-047	-48	10163.1219	
1	9835.929	4	16595.109	-	26431.101	-3	.	.	3.0-	3.0	.	.	.	0.999	0.807	192	-221	-222	10163.9599	
1	9835.573	2	18897.584	-	28733.159	-2	.	.	5.0-	4.0	.	.	.	1.280	1.035	245	-112	-113	10164.3898	
1	9833.142	2	23766.136	-	33599.280	-2	.	.	1.0-	2.0	.	.	.	2.162	1.606	556	57	60	10166.9027	
1	9830.746	2	20984.195	-	30814.939	2	.	.	6.0-	5.0	.	.	.	1.319	1.111	208	-230	-233	10169.3806	
1	9830.021	3	16520.962	-	26350.982	1	.	.	5.0-	4.0	.	.	.	0.736	0.796	60	062	68	10170.1307	
	9829.439	2																	10170.7328	
	9829.250	2																	10170.9284	IS*
1	9828.908	4	18147.975	-	27976.881	2	.	.	3.0-	3.0	.	.	.	1.049	1.080	31	-148	-148	10171.2823	
1	9828.446	2	23281.721	-	33110.165	2	.	.	5.0-	4.0	.	.	.	1.235	1.220*	15	-045	-49	10171.7604	IS*
1	9826.323	4	15149.472	-	25275.795	0	.	.	0.0-	1.0	.	.	.	0.000	0.706	0	279	279	10173.9581	
1	9824.837	4	18147.975	-	27972.815	-3	.	.	3.0-	4.0	.	.	.	1.049	0.979	70	-087	-86	10175.4969	
1	9824.026	2	21218.180	-	31042.204	2	.	.	3.0-	3.0	.	.	.	0.860	1.010	150	-065	-66	10176.3369	IS*
1	9823.502	4	21350.311	-	31173.814	-1	.	.	2.0-	1.0	.	.	.	0.350	0.450*	100	-091	-93	10176.8797	
1	9823.406	3	21263.339	-	31086.744	1	.	.	5.0-	5.0	.	.	.	0.610	0.795*	185	245	242	10176.9792	
1	9822.907	3	18147.975	-	27970.881	1	.	.	3.0-	2.0	.	.	.	1.049	0.194	855	-221	-221	10177.4962	
1	9822.241	2	30262.453	-	40084.697	-3	.	.	6.0-	6.0	.	.	.	1.284	1.510	226	-050	-49	10178.1862	IS*
2	9821.685	2	21828.590	-	12007.503	-2	.	.	2.5-	1.5	.	.	.	0.990	-0.019*	1009		632	10179.3843	
1	9820.901	3	23550.352	-	33371.251	2	.	.	3.0-	3.0	.	.	.	1.090	1.113*	23	40	36	10179.5750	IS*
1	9819.304	2	20385.328	-	30204.635	-3	.	.	2.0-	1.0	.	.	.	1.911	0.590*	1321	050	52	10181.2306	
1	9819.145	4	14763.705	-	24532.849	1	.	.	1.0-	2.0	.	.	.	-0.066	0.640	706	-	-45	10181.3955	
1	9818.879	5	16532.104	-	26350.982	1	.	.	3.0-	4.0	.	.	.	0.300	0.796	496	064	64	10181.6713	
1	9816.793	2	24158.741	-	14341.947	-1	.	.	2.0-	2.0	.	.	.	1.240	0.852*	388	105	103	10183.8348	
2	9809.852	2	36494.740	-	46304.585	7	.	.	1.5-	2.5	.	.	.	1.470	0.980*	490	-087		10191.0405	
	9807.823	2																	10193.1487	IS*
1	9807.598	2	24816.699	-	34624.299	-2	.	.	2.0-	2.0	.	.	.	1.165	1.150*	15		-37	10193.3826	
1	9807.463	2	23763.470	-	33570.935	-2	.	.	4.0-	4.0	.	.	.	0.970	1.130*	160		-26	10193.5229	
1	9806.252	2	25951.847	-	38758.100	-1	.	.	5.0-	5.0	.	.	.	1.290	1.530*	240	-051	-41	10194.7817	IS*

C	HAVERHURST	NUMBER	I	T2	-	T1	O-C	OBS		OBS		OBS		TERM			OBS		WAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS		
1	9805.615	2	14853.317-24658.931	1	.	.	.	4.0-	4.0	.	.	.	0.786	1.080	294	8	7	10195.4440	IS*	
2	9805.076	2	25293.605-15428.530	1	.	.	.	3.5-	3.5	.	.	.	0.970	1.057*	87	342	342	10196.0045		
	9803.182	1																10197.9744		
1	9802.677	2	19426.512-29229.190	-1	.	.	.	3.0-	4.0	.	.	.	1.435	1.480*	45	-293	-296	10198.4997		
1	9802.452	3	26150.730-35953.183	-1	.	.	.	8.0-	8.0	.	.	.	0.000	1.105*	0	-101	-99	10198.7338		
1	9800.397	3	27415.500-37215.900	-3	.	.	.	5.0-	4.0	.	.	.	1.370	1.485*	115	36	34	10200.8724	IS*	
	9799.773	2														-050		10201.5219	IS*	
1	9797.699	3	22219.737-32017.434	2	.	.	.	4.0-	4.0	.	.	.	0.750	1.020*	270	-008	-7	10203.6814	IS*	
1	9796.220	3	14692.549-24428.767	2	.	.	.	2.0-	1.0	.	.	.	0.292	0.000*	0	-332	-333	10205.2219		
1	9796.128	2	25541.775-15745.648	1	.	.	.	3.0-	3.0	.	.	.	0.915	1.145	230	300	298	10205.3178		
1	9793.661	3	24090.570-33824.230	1	.	.	.	7.0-	7.0	.	.	.	1.130	1.105	25	-100	-98	10207.8885		
1	9792.850	1	18963.921-28756.769	2	.	.	.	4.0-	5.0	.	.	.	1.251	1.165	86	-269	-266	10208.7338		
1	9792.730	1	25113.744-34905.470	4	.	.	.	6.0-	5.0	.	.	.	1.302	0.925	377		42	10208.8589		
1	9791.435	3	22219.737-32011.173	-1	.	.	.	4.0-	3.0	.	.	.	0.750	1.140*	390	053	54	10210.2091		
2	9790.531	2	26830.020-17039.487	-2	.	.	.	0.5-	1.5	.	.	.	-0.097	1.354	1451		368	10211.1519		
1	9790.454	3	20425.711-30216.163	2	.	.	.	1.0-	2.0	.	.	.	1.340	1.143	197		43	10211.2322	IS*	
1	9789.203	2	27361.817-17572.608	-6	.	.	.	3.0-	2.0	.	.	.	1.310	0.555	755		137	10212.5371		
	9788.738	3															073	10213.0223		
1	9787.105	3	26341.320-36128.425	0*	.	.	.	8.0-	7.0	.	.	.	0.000	1.060*	0	-087	-89	10214.7263		
1	9786.965	2	23315.209-13528.246	2	.	.	.	2.0-	1.0	.	.	.	1.335-0.590*	1925		175	175	10214.8725	IS*	
1	9786.322	5	18046.108-27832.430	0	4.0-	4.0	4.0-	4.0	4.0	.	.	.	0.694	0.920	226	141	141	10215.5436		
	9785.732	2															-097	10216.1595		
1	9784.287	5	15424.337-25208.672	2	3.0-	2.0	3.0-	2.0	1.094	.479	.615		1.106	0.490	616	-040	-42	10217.6683	IS*	
1	9778.086	3	20540.110-30318.195	1	.	.	.	3.0-	2.0	.	.	.	0.830	0.940*	110	8	10	10224.1481	IS*	
1	9777.161	2	24742.092-34519.250	3	.	.	.	4.0-	5.0	.	.	.	0.930	1.170*	190		23	10225.1154		
1	9774.579	2	19059.958-28834.535	2	.	.	.	5.0-	5.0	.	.	.	1.375	0.978	397		-164	10227.8164		
1	9774.458	2	25113.744-34883.198	4	.	.	.	6.0-	5.0	.	.	.	1.302	1.070	232	25	27	10227.9430	IS*	
1	9774.335	3	20540.110-30314.443	2	.	.	.	3.0-	3.0	.	.	.	0.830	1.140*	310	-065	-62	10228.0717		
2	9773.341	4	24206.690-14433.351	2	.	.	.	1.5-	1.5	.	.	.	0.863	1.925	1062	246	245	10229.1120		
	9771.951	2															-360	10230.5670	ISQ	
1	9771.342	4	18346.917-28118.262	-3	.	.	.	2.0-	3.0	.	.	.	1.518	1.250*	268	082	82	10231.2047		
1	9770.643	6	8768.139-18538.782	0	2.0-	2.0	2.0-	2.0	.364	1.602	1238		0.362	1.600	1238	-351	-361	10231.9366		
1	9769.677	5	18591.122-28360.802	-3	.	.	.	4.0-	3.0	.	.	.	0.965	0.837	78	-113	-112	10232.9483		
1	9769.233	2	18963.921-28733.159	0	.	.	.	4.0-	4.0	.	.	.	1.251	1.035	216	-099	-96	10233.4082		
1	9765.407	2	20306.482-30071.890	-1	.	.	.	4.0-	5.0	.	.	.	1.123	1.290*	167	-291	-291	10237.4228		
	9762.950	3															-246	10239.9992		
1	9760.000	2	24759.250-34519.250	0	.	.	.	6.0-	5.0	.	.	.	1.098	1.170*	72		-135	10243.0943		
1	9759.828	2	24347.551-34107.378	1	.	.	.	3.0-	3.0	.	.	.	1.300	1.160*	140	-005	-7	10243.2748		
	9759.144	3															5	10243.9927	IS*	
1	9759.054	3	18046.108-27805.163	-1	.	.	.	4.0-	5.0	.	.	.	0.694	1.024	330	082	84	10244.0872		
1	9756.914	3	17911.977-27668.890	1	.	.	.	5.0-	5.0	.	.	.	1.145	1.312	167	-274	-275	10246.3341		
1	9755.873	3	16595.109-26350.982	0	.	.	.	3.0-	4.0	.	.	.	0.999	0.796	203	-106	-107	10247.4274		
1	9752.883	3	21600.190-31352.983	0	.	.	.	6.0-	7.0	.	.	.	1.390	0.000*	0	-239	-240	10250.5690		
	9750.028	3																10253.5706		
1	9749.173	2	21337.573-31086.744	2	.	.	.	4.0-	5.0	.	.	.	1.137	0.795	342	+	26	10254.4698		
1	9749.077	2	24613.274-34352.360	-9	.	.	.	5.0-	5.0	.	.	.	1.160	1.120*	40	+	49	10254.5708		
1	9747.853	4	21703.960-31451.814	-1	.	.	.	5.0-	4.0	.	.	.	1.120	1.080	40	-126	-123	10255.8584		
1	9745.775	2	27643.693-17897.917	-1	.	.	.	4.0-	3.0	.	.	.	1.310	0.450*	860	-316	-313	10258.0452		
	9745.703	2															-183	10258.1210		
2	9744.382	2	17242.750-7498.364	-4	.	.	.	2.5-	2.5	.	.	.	1.200	1.321*	121		191	10259.5116		
	9741.369	1																10262.6849		
1	9740.753	1	23720.664-33461.419	-2	.	.	.	3.0-	3.0	.	.	.	0.790	0.950*	160	-063	-63	10263.3339		
1	9740.209	2	17911.977-27652.180	6	.	.	.	5.0-	6.0	.	.	.	1.145	1.250	105	-393	-390	10263.9071		
1	9738.962	2	21218.180-30957.140	2	.	.	.	3.0-	2.0	.	.	.	0.850	0.980	120	-203	-204	10265.2214		
1	9736.442	6	15424.387-25160.827	2	3.0-	3.0	3.0-	3.0	1.105	.804	.301		1.106	0.800	306	-012	-15	10267.8782	IS*	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	9735.695	2H	25828.024-35563.728			-9	.	4.0- 3.0	.	.	.	1.310	1.204*	106		-113	10268.6661	CQ
1	9735.485	3	19591.122-28326.610			-3	.	4.0- 4.0	.	.	.	0.965	1.260*	295	-308	-311	10268.8876	
2	9733.711	3	15235.771- 5502.060			0	.	0.5- 1.5	.	.	.	1.791	1.169	622	192	194	10270.7591	
1	9732.722	2	12322.613-22055.339			-4	.	2.0- 3.0	.	.	.	1.036	0.000*	0	-388	-396	10271.8028	
1	9732.305	2	24183.639-33920.944			0	.	1.0- 2.0	.	.	.	0.667	1.040*	373	57	54	10272.2429	
1	9731.553	3	27054.840-17323.291			4	.	4.0- 4.0	.	.	.	1.225	1.250*	25	149	149	10273.0367	
	9730.589	4					.		.	.	.				25		10274.0544	
	9728.801	2					.		.	.	.				-186		10275.9426	
1	9727.898	2	28584.353-18856.461			6	.	4.0- 5.0	.	.	.	0.920	1.325*	405	188	188	10276.8965	ISQ
2	9727.163	2	26766.650-17039.487			0	.	2.5- 1.5	.	.	.	1.058	1.354	296		356	10277.6731	
1	9725.062	2	14763.705-24488.767			0	.	1.0- 1.0	.	.	.	-0.066	0.000*	0	-331	-333	10279.8935	
1	9723.154	2	21812.682-31535.835			1	.	4.0- 5.0	.	.	.	1.040	1.020	20	-125	-126	10281.9107	
1	9722.068	2	28498.599-16776.530			-1	.	0.0- 1.0	.	.	.	0.000	0.000*	0	63	71	10283.0592	
1	9721.684	4	22160.184-31881.871			-3	.	8.0- 7.0	.	.	.	1.230	1.120	110	-163	-163	10283.4654	
2	9719.934	2	28481.495-18761.580			19	.	4.5- 5.5	.	.	.	1.070	1.296*	226	301	321	10285.3169	
1	9719.004	4	15405.760-25125.763			1	1.0- 1.0	1.0- 1.0	.	.	.587	0.890	0.314	576	36	35	10286.3011	IS*
1	9718.322	4	18897.584- 9179.262			0	5.0- 5.0	5.0- 5.0	.	.	.173	1.280	1.454	174	187	187	10287.0229	
1	9715.355	3	16734.151-26449.501			5	.	2.0- 3.0	.	.	.	0.928	0.940*	12	-266	-262	10290.1645	
1	9713.075	2	20377.600-30590.673			2	.	7.0- 6.0	.	.	.	1.050	0.000*	0	-150	-151	10292.5800	
1	9712.276	2	21227.793-30940.068			1	.	4.0- 5.0	.	.	.	1.346	1.080	266	8	15	10293.4267	IS*
1	9710.804	3	19558.257-29269.059			2	.	2.0- 1.0	.	.	.	-0.145	1.110*	1255	40	41	10294.9871	IS*
1	9709.469	2	30375.227-40084.697			-1	.	6.0- 6.0	.	.	.	1.320	1.510*	190	-020	-16	10296.4026	IS*
1	9704.635	2	21337.573-31042.204			4	.	4.0- 3.0	.	.	.	1.137	1.010	127	-020	-25	10301.5314	IS*
1	9703.433	2	26317.729-36021.165			-3	.	4.0- 3.0	.	.	.	1.180	1.048*	132	89	93	10302.8075	
1	9701.482	3	15249.635-24951.118			-1	.	2.0- 3.0	.	.	.	0.715	0.840	125	-032	-35	10304.8794	
1	9701.175	3	22509.712-32210.885			2	.	5.0- 4.0	.	.	.	1.287	0.995	292	-043	-44	10305.2055	
1	9699.340	1	21703.960-31403.302			-2	.	5.0- 5.0	.	.	.	1.120	1.205	85	-286	-283	10307.1551	
1	9697.948	2	23763.470-33461.419			-1	.	4.0- 3.0	.	.	.	0.970	0.950*	20	-159	-157	10308.6346	
1	9696.949	3	16734.151-26431.101			-1	.	2.0- 3.0	.	.	.	0.928	0.807	121	-246	-246	10309.6966	
1	9695.541	2	22181.358-31876.909			0	.	3.0- 2.0	.	.	.	0.780	0.000*	0	-010	-7	10311.1938	
1	9691.052	2	19281.917-28972.971			-2	.	2.0- 2.0	.	.	.	1.822	0.794	1028	-178	-176	10315.9701	
1	9685.614	5	17911.977-27597.590			1	5.0- 4.0	5.0- 4.0	1.145	.932	.213	1.145	0.930	215	-104	-106	10321.7620	
1	9682.639	3	18046.108-27723.796			1	.	4.0- 3.0	.	.	.	0.694	1.060	366	098	101	10324.8800	
1	9678.711	2	26283.495-16604.786			2	.	7.0- 6.0	.	.	.	1.080	0.950*	130	-089	-87	10329.1236	
1	9677.966	1	22671.890-32349.853			3	.	1.0- 2.0	.	.	.	0.599	0.000*	0	-190	-190	10329.9188	
1	9677.307	1	21337.573-31014.877			3	.	4.0- 4.0	.	.	.	1.137	1.170	33	-072	-74	10330.6222	
1	9676.293	2	15449.472-25125.763			2	.	0.0- 1.0	.	.	.	0.000	0.314	0	282	288	10331.7048	
1	9674.293	3	19594.767-29269.059			1	.	0.0- 1.0	.	.	.	0.000	1.110*	0	106	108	10333.8407	
1	9673.485	6	16532.104-26205.589			0	3.0- 3.0	3.0- 3.0	.300	.698	.398	0.300	0.701	401	8	12	10334.7039	IS*
1	9673.234	2	21703.960-31377.193			1	.	5.0- 4.0	.	.	.	1.120	0.973	147	-180		10334.9720	C2
1	9673.234	2	12672.411-28345.647			-2	.	6.0- 6.0	.	.	.	1.190	0.000*	0	-353		10334.9720	C2
1	9672.496	2	25681.552-35354.050			-2	.	7.0- 7.0	.	.	.	1.039	0.000*	0	-124	-129	10335.7606	
1	9668.315	4	34829.137-25160.827			5	.	3.0- 3.0	.	.	.	1.125	0.800	325		-268	10340.2302	
	9666.721	2					.		.	.	.				-086		10341.9353	
1	9666.140	2	19074.292-23740.433			-1	.	2.0- 3.0	.	.	.	1.532	0.970	562	-057	-60	10342.5569	
1	9663.534	3	21307.390-30970.926			-2	.	1.0- 1.0	.	.	.	2.360	0.295*	2065	+	82	10345.3460	
	9663.494	3					.		.	.	.						10345.3888	
1	9662.361	2	20709.458-30371.819			0	.	3.0- 3.0	.	.	.	1.240	0.640	600	-054	-55	10346.6019	
1	9661.310	3	13517.647-23178.955			2	.	2.0- 1.0	.	.	.	0.892	1.130*	238	-408	-408	10347.7275	
	9660.946	2					.		.	.	.				-063		10348.1174	
1	9653.996	3	25828.024-35482.018			2	.	4.0- 3.0	.	.	.	1.310	1.679*	369	-024	-19	10355.5671	IS*
1	9650.725	3	11240.715-21491.439			1	.	3.0- 3.0	.	.	.	0.811	0.000*	0	-389	-389	10359.0770	
1	9649.462	2	22416.990-32066.452			0	.	2.0- 2.0	.	.	.	1.675	0.910*	765	-003	-9	10360.4329	IS*
	9648.234	2					.		.	.	.				099		10361.7515	
1	9648.005	2	21227.793-30875.798			1	.	4.0- 4.0	.	.	.	1.346	1.080*	266	-171	-169	10361.9964	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	9645.517	2	23705.495-33351.007			5	.	.	7.0-	6.0	.	.	.	1.277	1.240*	37	-053	-50	10364.6703	
1	9644.703	2	22705.158-32349.853			8	.	.	1.0-	2.0	.	.	.	-0.020	0.000*	0		-82	10365.5451	
1	9643.179	2	14025.007-23668.184			2	.	.	4.0-	4.0	.	.	.	0.975	0.940*	35	-111	-113	10367.1832	
1	9639.783	2	21737.407-31377.193			2	.	.	3.0-	4.0	.	.	.	1.026	0.973	53		47	10370.8301	
1	9638.491	2	24613.274-34251.764			1	.	.	5.0-	4.0	.	.	.	1.160	1.005	155	-016	-22	10372.2257	IS*
	9634.053	2					.	.			.	.	.				28		10377.0005	IS*
1	9632.529	2	13726.661-23359.187			3	.	.	3.0-	3.0	.	.	.	1.150	1.030*	120	-377	-377	10378.6455	
1	9531.334	4	14692.549-24323.884			-1	.	.	2.0-	1.0	.	.	.	0.292	0.800*	508	-200	-200	10379.9332	
1	9630.896	4	17911.977-27542.874			-1	.	.	5.0-	5.0	.	.	.	1.145	1.270*	125	-277	-279	10380.4053	
2	9630.453	2	26669.945-17039.487			0	.	.	1.5-	1.5	.	.	.	1.350	1.354	4	390	388	10380.8774	
1	9629.966	2	18346.917-27976.881			2	.	.	2.0-	3.0	.	.	.	1.518	1.080	438	-032	-32	10381.4078	IS*
1	9629.239	2	28174.233-37803.470			2	.	.	9.0-	9.0	.	.	.	0.000	1.220*	0	-040	-47	10382.1916	
	9627.437	3					.	.			.	.	.				16		10384.1349	IS*
1	9620.613	2	21350.311-30970.926			-2	.	.	2.0-	1.0	.	.	.	0.350	0.295*	55	-083	-80	10391.5004	
1	9619.180	3	16155.109-25774.288			1	.	.	5.0-	6.0	.	.	.	0.948	0.915	33	-191	-191	10393.0485	
1	9617.425	2	26150.739-35768.160			-5	.	.	8.0-	8.0	.	.	.	0.000	1.120*	0	8	6	10394.9451	IS*
1	9616.187	2	25636.914-35253.102			-1	.	.	6.0-	5.0	.	.	.	1.335	1.110*	225	-050	-50	10396.2833	
1	9612.458	3	25054.653-34577.111			0	.	.	3.0-	4.0	.	.	.	0.980	1.080	100	4	12	10400.3164	IS* C2
1	9612.458	3	21263.339-30875.798			-1	.	.	5.0-	4.0	.	.	.	0.610	1.080*	470	+	4	10400.3164	C2
1	9611.676	3	17911.977-27523.650			3	.	.	5.0-	6.0	.	.	.	1.145	1.080	65	-113	-113	10401.1626	
1	9610.479	3	16595.109-26205.589			-1	.	.	3.0-	3.0	.	.	.	0.999	0.701	298	-157	-159	10402.4580	
1	9607.784	2	23763.470-33371.251			3	.	.	4.0-	3.0	.	.	.	0.970	1.113*	143	-060	-63	10405.3760	
	9605.417	2					.	.			.	.	.				4		10407.9401	IS*
1	9604.510	3	23314.130-33418.637			3	.	.	6.0-	5.0	.	.	.	0.890	0.872	18	-024	-23	10408.9230	IS*
1	9603.631	0	14853.317-24456.948			0	.	.	4.0-	3.0	.	.	.	0.786	0.000*	0	-236	-237	10409.8757	
1	9603.104	2	24759.250-34362.360			-6	.	.	6.0-	5.0	.	.	.	1.098	1.120*	22	-130	-130	10410.4470	
	9602.293	2					.	.			.	.	.				151		10411.3262	
1	9600.760	2	22219.737-31820.494			3	.	.	4.0-	4.0	.	.	.	0.750	1.240	490		-71	10412.9886	
1	9600.548	3	21812.682-31413.230			0	.	.	4.0-	3.0	.	.	.	1.040	0.742	298	*	40	10413.2186	IS*
2	9596.753	2	15098.815-5502.060			-2	.	.	1.5-	1.5	.	.	.	1.079	1.169	90	432	430	10417.3365	
1	9595.266	2	14692.549-24287.814			1	.	.	2.0-	3.0	.	.	.	0.292	0.585	293		-177	10418.9509	
1	9595.035	3	18147.975-27743.009			1	.	.	3.0-	2.0	.	.	.	1.049	0.568	481	-022	-38	10419.2017	IS*
1	9594.353	3	25870.685-16276.332			0	.	.	2.0-	2.0	.	.	.	1.170	1.880*	710	159	159	10419.9423	
1	9594.185	2	22416.990-32011.173			2	.	.	2.0-	3.0	.	.	.	1.675	1.140*	535	064	64	10420.1248	
1	9593.972	2	22509.712-32103.687			-3	.	.	5.0-	4.0	.	.	.	1.287	1.040	247	-133	-138	10420.3561	IS*
1	9593.893	2	21420.983-31014.877			-1	.	.	3.0-	4.0	.	.	.	1.663	1.170	493	-028	72	10420.4420	IS*
1	9593.847	2	20540.110-30133.953			4	.	.	3.0-	3.0	.	.	.	0.830	1.200*	370		-33	10420.4919	
2	9592.779	2	28110.650-18517.872			1	.	.	1.5-	0.5	.	.	.	0.899	2.755	1856	340	347	10421.6521	
2	9591.956	2	26755.425-17163.470			1	.	.	4.5-	4.5	.	.	.	1.200	1.200*	0	430	427	10422.5463	
1	9591.700	4	20521.579-30113.280			-1	.	.	6.0-	6.0	.	.	.	1.246	1.050	196	-120	-120	10422.8244	
1	9591.124	2	23763.470-33354.592			2	.	.	4.0-	3.0	.	.	.	0.970	0.000*	0	-016	-16	10423.4504	
1	9590.667	2	20425.711-30016.377			1	.	.	1.0-	2.0	.	.	.	1.340	1.140	200	-061	-64	10423.9471	
1	9590.385	2	19203.415-28793.800			0	.	.	2.0-	3.0	.	.	.	1.021	1.083	62	-256	-257	10424.2536	
1	9587.352	0	18591.122-28178.473			1	.	.	4.0-	3.0	.	.	.	0.965	0.000*	0	-364	-366	10427.5514	
1	9587.148	1	21227.793-30814.939			2	.	.	4.0-	5.0	.	.	.	1.346	1.111	235		-123	10427.7732	
2	9586.293	4	23312.615-13726.318			-4	.	.	1.5-	2.5	.	.	.	0.680	0.784*	104	411	411	10428.7033	SI
	9585.442	3					.	.			.	.	.				-008		10429.6292	IS*
1	9583.261	2	25328.907-15745.648			2	.	.	3.0-	3.0	.	.	.	1.340	1.145	195	036	86	10432.0028	
	9581.884	2					.	.			.	.	.				130		10433.5020	
1	9580.819	4	18147.975-27728.796			-2	3.0-	3.0	3.0-	3.0	1.05	1.05		1.049	1.060	11	-132	-133	10434.6617	
	9579.255	3					.	.			.	.	.				184		10436.3654	
1	9578.239	3	15074.958-24653.200			-3	.	.	7.0-	6.0	.	.	.	1.097	0.000*	0	-316	-321	10437.4724	
1	9577.052	6	11840.715-21417.765			2	3.0-	4.0	3.0-	4.0	.80	.80		0.811	0.802	9	36	36	10438.7661	IS*
1	9575.766	5	15855.823-25432.655			-1	1.0-	2.0	1.0-	2.0	1.110	1.287	.177	1.103	1.281	178	075	73	10440.1680	
1	9574.705	2	21703.960-31278.667			-2	.	.	5.0-	5.0	.	.	.	1.120	1.010*	110	-098	-97	10441.3249	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	9573.748	3	17031.874-26655.622	0	.	.	.	.	.	4.0-	3.0	.	.	.	1.217	1.015	202	-179	-179	10442.3686	
1	9573.133	1	24534.240-34107.378	0	.	.	.	.	.	2.0-	3.0	.	.	.	0.000	1.160*	0	-030	-31	10443.0340	IS*
	9571.549	3																28		10444.7677	IS*
1	9570.559	2	21603.247-31173.814	2	.	.	.	.	.	2.0-	1.0	.	.	.	0.060	0.450*	390	-032	-31	10445.8372	IS*
1	9568.030	1	23705.495-33273.528	-3	.	.	.	.	.	7.0-	7.0	.	.	.	1.277	1.070*	207		-234	10448.6092	
1	9567.484	1	22416.990-31934.470	4	.	.	.	.	.	2.0-	3.0	.	.	.	1.675	1.090	585	158	152	10449.2054	
1	9566.816	1	26283.495-35850.314	-3	.	.	.	.	.	7.0-	6.0	.	.	.	1.080	1.040*	40	081	81	10449.9351	
	9563.869	2																-200		10453.1551	
1	9562.097	2	26885.338-17323.291	0	.	.	.	.	.	5.0-	4.0	.	.	.	1.055	1.250*	195	133	131	10455.0922	
1	9561.750	1	22377.599-31939.345	4	.	.	.	.	.	7.0-	6.0	.	.	.	1.076	1.200*	124	-341	-342	10455.4717	
1	9561.520	3	20521.579-30033.102	-3	.	.	.	.	.	6.0-	5.0	.	.	.	1.246	1.150*	96	-213	-215	10455.7232	
1	9561.452	3	20654.712-30216.153	1	.	.	.	.	.	1.0-	2.0	.	.	.	0.200	1.143	943	49	46	10455.7975	
1	9561.180	2	28868.619-19307.447	8	.	.	.	.	.	5.0-	4.0	.	.	.	1.085	0.000*	0		-41	10456.0950	
1	9560.178	2	14763.705-24323.884	-1	.	.	.	.	.	1.0-	1.0	.	.	.	-0.066	0.800*	866	-200	-200	10457.1909	
	9557.260	2																8		10460.3836	IS*
1	9552.293	2	27124.898-17572.608	3	.	.	.	.	.	2.0-	2.0	.	.	.	1.190	0.555*	635	160	158	10465.8229	
1	9551.486	3	18046.108-27597.590	4	.	.	.	.	.	4.0-	4.0	.	.	.	0.694	0.930	236	126	126	10466.7071	
1	9550.281	7	12159.465-21709.745	1	4.0-	3.0				4.0-	3.0	.838	.980	.142	0.844	0.980	136	24	25	10468.0277	IS*
1	9550.026	3	14737.728-24237.814	0	.	.	.	.	.	3.0-	3.0	.	.	.	0.815	0.585	230	-176	-176	10468.3073	
1	9548.684	4	20769.512-30318.195	1	.	.	.	.	.	2.0-	2.0	.	.	.	1.070	0.940*	130	062	62	10469.7785	
1	9548.141	2	22518.312-32066.452	1	.	.	.	.	.	2.0-	2.0	.	.	.	1.350	0.910*	440	-012	-17	10470.3739	IS*
1	9547.040	3	22666.777-32213.814	3	.	.	.	.	.	3.0-	2.0	.	.	.	0.977	0.725	252	-012	-17	10471.5814	IS*
1	9545.097	2	24347.551-33892.650	-2	.	.	.	.	.	3.0-	3.0	.	.	.	1.300	1.060*	240	0	1	10473.7130	IS*
1	9543.639	6	11747.245- 2203.606	0	0.0-	1.0				0.0-	1.0		1.495		0.000	1.495	0	185	185	10475.3131	
1	9540.314	3	22088.306-31628.619	1	.	.	.	.	.	6.0-	6.0	.	.	.	1.060	1.110	50	075	80	10478.9640	
	9539.746	2																-008		10479.5879	IS*
1	9538.675	4	14692.549-24231.226	-2	.	.	.	.	.	2.0-	2.0	.	.	.	0.292	0.411	119	-084	-78	10480.7645	
1	9538.263	3	23766.136-33304.400	-1	.	.	.	.	.	1.0-	0.0	.	.	.	2.162	0.000	0	30	34	10481.2173	IS*
1	9535.912	2	26872.321-17336.413	4	.	.	.	.	.	1.0-	0.0	.	.	.	2.690	0.000*	0	140	139	10483.8013	
1	9532.876	2	25636.914-35169.790	0	.	.	.	.	.	6.0-	6.0	.	.	.	1.335	1.120*	215	-012	-11	10487.1402	
1	9527.138	4	18591.122-28118.262	-2	.	.	.	.	.	4.0-	3.0	.	.	.	0.965	1.250*	285	-016	-14	10493.4564	IS*
1	9526.731	3	15424.337-24951.118	0	.	.	.	.	.	3.0-	3.0	.	.	.	1.106	0.840	266	-028	-28	10493.9047	IS*
1	9526.619	3	16834.379-26360.997	1	.	.	.	.	.	5.0-	5.0	.	.	.	0.961	0.796	165	-223	-224	10494.0281	IS*
1	9524.214	2	18046.108-27570.322	0	.	.	.	.	.	4.0-	3.0	.	.	.	0.694	1.265	571	-120	-119	10496.6780	
	9521.258	2																		10499.9368	
	9515.259	2																-049		10502.5500	
1	9515.603	3	16834.379-26350.982	0	.	.	.	.	.	5.0-	4.0	.	.	.	0.961	0.796	165	-125	-124	10505.0728	
1	9516.249	2	21603.247-31119.494	2	.	.	.	.	.	2.0-	2.0	.	.	.	0.060	0.814*	754		-79	10505.4636	
1	9515.735	2	30503.896-20938.110	-1	.	.	.	.	.	5.0-	4.0	.	.	.	0.000	1.374*	0	171	165	10505.9759	IS*
1	9511.979	3	14853.317-24365.295	1	.	.	.	.	.	4.0-	3.0	.	.	.	0.786	1.475	689	-320	-319	10510.1796	
1	9508.106	2	24091.173-33599.280	-1	.	.	.	.	.	3.0-	2.0	.	.	.	1.245	1.606	361	12	7	10514.4608	IS*
1	9504.799	4	15424.337-24929.184	2	3.0-	4.0				3.0-	4.0	1.085	1.075	.010	1.106	1.080	26	-145	-145	10518.1191	
1	9504.274	2	22377.599-31881.871	2	.	.	.	.	.	7.0-	7.0	.	.	.	1.076	1.120	44	-157	-155	10518.7001	
	9501.409	3																36		10521.8718	IS*
1	9500.957	2	20709.458-30210.416	-1	.	.	.	.	.	3.0-	4.0	.	.	.	1.240	1.160*	80	-020	-19	10522.3724	IS*
	9500.052	2																		10523.3748	
1	9499.982	2	16155.109-25655.090	1	.	.	.	.	.	5.0-	4.0	.	.	.	0.948	1.165	217	-293	-294	10523.4524	
1	9496.766	2	18046.108-27542.874	0	.	.	.	.	.	4.0-	5.0	.	.	.	0.694	1.270*	576	-044	-47	10527.0160	IS*
1	9496.194	2	20425.711-29921.899	6	.	.	.	.	.	1.0-	2.0	.	.	.	1.340	1.070*	270	-016	-16	10527.6501	IS*
1	9493.440	4	14737.783-24231.226	2	.	.	.	.	.	3.0-	2.0	.	.	.	0.815	0.411	404	-086	-77	10530.7042	IS*
	9493.293	2																		10530.8617	
1	9493.149	3	18672.411- 9179.252	0	.	.	.	.	.	6.0-	5.0	.	.	.	1.190	1.454*	264	182	183	10531.0270	
1	9492.863	2	22518.312-32011.173	2	.	.	.	.	.	2.0-	3.0	.	.	.	1.350	1.140*	210	57	56	10531.3442	
1	9491.180	2	23210.060-18718.882	2	.	.	.	.	.	2.0-	2.0	.	.	.	0.865	0.504	361	-248	-243	10533.2117	
1	9489.998	3	19553.257-29043.255	0	.	.	.	.	.	2.0-	1.0	.	.	.	-0.145	0.900	1045	-020	-25	10534.5236	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	9489.386	3	20065.327	-	29554.716	-3	.	.	3.0-	3.0	.	.	.	0.998	0.831	167	-187	-189	10535.2030		
2	9488.060	1	24976.585	-	15488.530	5	.	.	3.5-	3.5	.	.	.	0.960	1.057	97	349	340	10536.6754	IS*	
2	9482.315	2	29304.630	-	20322.349	-16	.	.	6.5-	6.5	.	.	.	0.910	1.314*	404	379	369*	10543.0592		
1	9480.648	2	24216.272	-	33696.921	-1	.	.	6.0-	6.0	.	.	.	1.005	1.100*	95	-036	-42	10544.9130		
1	9478.218	2	21703.960	-	31182.179	-1	.	.	5.0-	4.0	.	.	.	1.120	1.210*	90	-272	-274	10547.6165		
1	9477.895	2	22219.737	-	31697.633	-1	.	.	4.0-	4.0	.	.	.	0.750	1.187	437	112	115	10547.9760		
1	9477.438	2	23705.495	-	33182.933	0	.	.	7.0-	6.0	.	.	.	1.277	1.050	227	-174	-178	10548.4846		
1	9475.739	2	23814.130	-	33289.259	0	.	.	6.0-	5.0	.	.	.	0.890	1.095	205	112	110	10550.3759		
1	9473.751	3	23281.721	-	32755.472	0	.	.	5.0-	4.0	.	.	.	1.235	1.005	230	-108	-108	10552.5899		
1	9472.089	4	16388.909	-	26360.997	1	.	.	6.0-	5.0	.	.	.	1.098	0.796	302	-249	-249	10554.4414		
1	9471.447	2	16734.151	-	26205.589	9	.	.	2.0-	3.0	.	.	.	0.928	0.701	227	-183	-183	10555.1569	CQ	
1	9469.114	2	20385.328	-	29854.442	0	.	.	2.0-	1.0	.	.	.	1.911	1.180*	731	3	0	10557.7574	IS*	
1	9467.518	2	14763.705	-	24231.226	-3	.	.	1.0-	2.0	.	.	.	-0.066	0.411	477	-085	-78	10559.5372		
1	9462.312	2	24816.699	-	34279.010	1	.	.	2.0-	1.0	.	.	.	1.165	1.710*	545	-090	-87	10565.3469		
1	9460.391	2	22509.712	-	31970.100	3	.	.	5.0-	4.0	.	.	.	1.287	1.100*	187	-142	-144	10567.4923		
1	9457.315	2	21218.180	-	30675.497	-2	.	.	3.0-	2.0	.	.	.	0.860	0.375	485	-167	-167	10570.9294		
1	9456.486	5	13517.647	-	22974.132	1	2.0-	3.0	2.0-	3.0	.898	1.155	.257	0.892	1.147	255	-134	-134	10571.8561		
1	9455.923	3	16834.379	-	26290.302	0	.	.	5.0-	5.0	.	.	.	0.961	1.125	164	-351	-350	10572.4855		
1	9455.236	4	21812.682	-	31257.919	-1	.	.	4.0-	3.0	.	.	.	1.040	1.080	40	053	51	10573.2537		
1	9454.818	2	21420.983	-	30875.798	3	.	.	3.0-	4.0	.	.	.	1.663	1.080*	583	-069	-66	10573.7212		
1	9451.044	2	21263.339	-	30714.385	-2	.	.	5.0-	4.0	.	.	.	0.610	1.150*	540	175	176	10577.9435		
1	9449.614	3	18147.975	-	27597.590	-1	.	.	3.0-	4.0	.	.	.	1.049	0.930	119	-103	-108	10579.5442		
1	9448.062	3	18897.584	-	28345.647	-1	.	.	5.0-	6.0	.	.	.	1.280	0.000*	0	-357	-357	10581.2821		
1	9447.525	1	22098.306	-	31535.835	-4	.	.	6.0-	5.0	.	.	.	1.060	1.020	40	-069	-69	10581.8836		
2	9444.087	2	19632.555	-	10188.463	-5	.	.	1.5-	0.5	.	.	.	1.010	2.402*	1392	135	140*	10585.7358		
1	9439.977	2	21227.793	-	30667.769	1	.	.	4.0-	4.0	.	.	.	1.346	1.265	81	-175	-175	10590.3446		
1	9438.962	1	21603.247	-	31042.204	5	.	.	2.0-	3.0	.	.	.	0.060	1.010*	950	069	68	10591.4834		
1	9435.929	2	20540.110	-	29976.039	0	.	.	3.0-	4.0	.	.	.	0.830	1.070*	240	068	67	10594.8879		
1	9434.496	6	14853.317	-	24287.814	-1	4.0-	3.0	4.0-	3.0	.787	.586	.201	0.786	0.585	201	-102	-102	10596.4971		
1	9429.705	1	25706.036	-	16276.332	1	.	.	2.0-	2.0	.	.	.	1.290	1.880*	590	158	159	10601.8810	IS*	
1	9429.633	2	22509.712	-	31939.345	0	.	.	5.0-	6.0	.	.	.	1.287	1.200*	87	-277	-279	10601.9619		
1	9429.275	1	21350.311	-	30779.595	1	.	.	2.0-	3.0	.	.	.	0.350	0.860*	510	-102	-97	10602.3644		
1	9428.731	3	20425.711	-	29854.442	0	.	.	1.0-	1.0	.	.	.	1.340	1.180*	160	8	3	10602.9762	IS*	
1	9427.002	3	13726.661	-	4299.659	0	.	.	3.0-	2.0	.	.	.	1.150	1.482	332	191	191	10604.9209		
1	9426.100	2	22160.184	-	31586.283	1	.	.	8.0-	8.0	.	.	.	1.230	1.053	177	-109	-108	10605.9357		
	9425.706	2								-012			10606.3790	IS*
1	9424.496	1	20709.458	-	30133.953	1	.	.	3.0-	3.0	.	.	.	1.240	1.200*	40	-	-37	10607.7407		
1	9424.192	4	23766.136	-	14341.947	3	1.0-	2.0	1.0-	2.0	2.155	.852	1303	2.162	0.852	1310	057	57	10608.0829		
	9423.416	1								-067			10608.9565	
1	9415.845	3	20697.436	-	30113.280	1	.	.	7.0-	6.0	.	.	.	1.250	1.050	200	-122	-120	10617.4868		
1	9414.713	2	19558.257	-	28972.971	-1	.	.	2.0-	2.0	.	.	.	-0.145	0.794	939	40	37	10618.7635	IS*	
1	9411.907	1	24759.250	-	34171.155	2	.	.	6.0-	5.0	.	.	.	1.098	1.230	132	-049	-49	10621.9293		
1	9406.910	3	26730.201	-	17323.291	0	.	.	3.0-	4.0	.	.	.	0.950	1.250*	300	191	191	10627.5717		
1	9406.420	2	20990.684	-	30397.106	-2	.	.	5.0-	5.0	.	.	.	1.308	1.005	303	-101	-102	10628.1253		
1	9406.357	2	15074.958	-	24481.313	2	.	.	7.0-	6.0	.	.	.	1.097	0.000*	0	-255	-255	10628.1965		
1	9404.383	2	20990.684	-	30395.052	5	.	.	5.0-	4.0	.	.	.	1.308	0.920	388	-176	-179	10630.4274		
1	9403.373	3	27301.288	-	17897.917	2	.	.	4.0-	3.0	.	.	.	0.985	0.450	535	-226	-226	10631.5692		
1	9399.680	4	17911.977	-	27311.658	-1	5.0-	5.0	5.0-	5.0	1.145	1.035	.110	1.145	1.035	110	-084	-85	10635.7462		
1	9397.073	2	12159.465	-	21556.538	0	.	.	4.0-	4.0	.	.	.	0.844	1.290	446	-412	-412	10638.6969		
1	9393.406	3	23735.353	-	14341.947	0	.	.	2.0-	2.0	.	.	.	0.935	0.852*	83	161	160	10642.8500		
1	9392.350	4	21600.100	-	30992.449	1	.	.	6.0-	7.0	.	.	.	1.390	1.210*	180	-152	-152	10644.0466		
1	9391.889	2	24970.474	-	34362.360	3	.	.	4.0-	5.0	.	.	.	1.460	1.120*	340	-020	70	10644.5691	IS* CQ	
1	9390.898	2	23720.664	-	33111.557	5	.	.	3.0-	2.0	.	.	.	0.790	1.315*	525	055	49	10645.6924		
1	9390.580	2	22192.030	-	31572.610	0	.	.	2.0-	1.0	.	.	.	1.295	2.403	1108	098	102	10646.0529		
1	9389.075	2	15249.635	-	24638.713	-3	.	.	2.0-	2.0	.	.	.	0.715	0.000*	0	-405	-409	10647.7594		

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
1	9387.133	6	12322.613-21709.745	1	1	2.0	3.0	2.0	3.0	1.036	.980	.056	1.036	0.980	56	20	22	10649.9622	IS*
1	9386.705	2	24534.240-33920.944	1	1	.	.	2.0	2.0	.	.	.	0.000	1.040*	0	-008	-6	10650.4478	IS* C2
1	9386.705	2	25113.744-34500.445	4	4	.	.	6.0	6.0	.	.	.	1.302	1.030	272	-008	-18	10650.4478	IS* C2
1	9386.651	2	24742.092-34128.739	4	4	.	.	4.0	3.0	.	.	.	0.980	1.106*	126	-074	-69	10650.5090	
1	9386.000	2	24742.092-34128.094	-2	-2	.	.	4.0	4.0	.	.	.	0.980	0.000*	0	.	-44	10651.2477	IS*
1	9385.759	3	18591.122-27976.831	0	0	.	.	4.0	3.0	.	.	.	0.965	1.080	115	-127	-128	10651.5212	
1	9385.500	3	26768.790-17323.291	1	1	.	.	3.0	4.0	.	.	.	0.855	1.250*	395	159	154	10651.8152	IS*
1	9381.628	4	18591.122-27972.815	-5	-5	4.0	4.0	4.0	4.0	.965	.978	.	0.965	0.979	14	-066	-66	10656.1433	
1	9378.719	3	23720.664-14341.947	2	2	.	.	3.0	2.0	.	.	.	0.790	0.852*	62	167	167	10659.5167	
1	9376.814	3	21337.573-30714.385	2	2	.	.	4.0	4.0	.	.	.	1.137	1.150	13	-040	-40	10661.6823	
1	9376.009	6	14292.176-23663.184	1	1	5.0	4.0	5.0	4.0	.97	.93	.04	0.970	0.940*	30	-112	-111	10662.5977	PB
	9375.791	2				.	.	.	.	.	.	.	.	.	.	.	.	10662.8456	
1	9372.792	2	26696.083-17323.291	0	0	.	.	5.0	4.0	.	.	.	1.315	1.250*	65	117	119	10666.2574	
1	9368.805	2	23814.130-33182.933	2	2	.	.	6.0	6.0	.	.	.	0.890	1.050	160	078	76	10670.7965	
1	9367.627	2	17081.874-26449.501	0	0	.	.	4.0	3.0	.	.	.	1.217	0.940*	277	-274	-272	10672.1384	
1	9365.287	2	24742.092-34107.378	1	1	.	.	4.0	3.0	.	.	.	0.980	1.160*	180	-045	-42	10674.8049	
1	9361.673	5	17045.776-26407.449	0	0	1.0	2.0	1.0	2.0	1.460	.961	.499	1.474	0.972	502	068	68	10678.9259	
1	9360.912	1	15406.760-24767.674	-2	-2	.	.	1.0	2.0	.	.	.	0.890	1.455	565	-331	-334	10679.7940	
1	9360.680	2	26233.495-35644.180	-5	-5	.	.	7.0	7.0	.	.	.	1.080	1.070*	10	087	87	10680.0587	
1	9359.527	2	23037.432-13677.903	-2	-2	.	.	1.0	1.0	.	.	.	0.870	1.442	572	145	145	10681.3744	
1	9357.196	4	14292.176-23649.372	0	0	.	.	5.0	4.0	.	.	.	0.970	0.000*	0	-361	-360	10684.0353	PB
1	9354.339	3	21998.645-31352.983	1	1	.	.	7.0	7.0	.	.	.	1.269	0.000*	0	-229	-227	10687.2984	
	9352.812	3				.	.	.	.	.	.	.	.	.	.	185		10689.0433	
1	9350.832	3	16304.260-25655.090	2	2	.	.	4.0	4.0	.	.	.	1.285	1.165	120	-297	-298	10691.3066	
1	9349.650	4	14853.317-24202.966	1	1	.	.	4.0	5.0	.	.	.	0.786	1.012	226	070	70	10692.6583	
1	9343.287	3	15424.387-24767.674	0	0	.	.	3.0	2.0	.	.	.	1.106	1.455	349	-402	-398	10699.9402	
1	9342.492	3	21307.390-30649.832	0	0	.	.	1.0	0.0	.	.	.	2.360	0.000*	0	16	16	10700.8508	
1	9335.937	1	17500.977-26836.911	3	3	.	.	1.0	2.0	.	.	.	2.258	1.260*	998	-180	-176	10708.3641	
1	9334.182	2	14025.007-23359.187	2	2	.	.	4.0	3.0	.	.	.	0.975	1.030*	55	-375	-376	10710.3775	
1	9333.215	4	15249.635-24582.849	1	1	2.0	2.0	2.0	2.0	.711	.640	.071	0.715	0.640	75	-040	-45	10711.4872	IS*
1	9331.973	2	12159.465-21491.439	-1	-1	.	.	4.0	3.0	.	.	.	0.844	0.000*	0	-388	-388	10712.9128	
1	9329.296	3	15424.387-24753.684	-1	-1	.	.	3.0	4.0	.	.	.	1.106	0.975	131	-169	-172	10715.9868	
1	9328.942	2	25074.585-15745.648	5	5	.	.	4.0	3.0	.	.	.	1.507	1.145	362	060	68	10716.3934	
1	9321.834	2	22289.053-32210.885	2	2	.	.	4.0	4.0	.	.	.	1.263	0.995	268	-051	-54	10724.5648	
1	9320.087	2	26283.495-35603.582	0	0	.	.	7.0	6.0	.	.	.	1.080	1.070*	10	077	75	10726.5751	
1	9319.008	4	25064.653-15745.648	3	3	.	.	3.0	3.0	.	.	.	0.980	1.145	165	153	152	10727.8171	
1	9317.694	2	22666.777-31984.470	1	1	.	.	3.0	3.0	.	.	.	0.977	1.090	113	-047	-47	10729.3299	
1	9312.690	2	26575.333-35883.025	3	3	.	.	7.0	7.0	.	.	.	1.150	1.050*	100	58	58	10735.0952	
1	9311.827	2	19281.917-28593.749	-5	-5	.	.	2.0	1.0	.	.	.	1.822	1.713	109	-346	-346	10736.0901	
1	9311.761	1	26301.732-35613.490	3	3	.	.	5.0	5.0	.	.	.	1.060	1.090*	30	-060	-60	10736.1662	
	9311.549	2				.	.	.	.	.	.	.	.	.	.			10736.4106	
1	9310.916	1	21703.960-31014.877	-1	-1	.	.	5.0	4.0	.	.	.	1.120	1.170	50	-120	-118	10737.1405	IS*
1	9310.032	2	19959.027-29269.059	0	0	.	.	1.0	1.0	.	.	.	0.760	1.110*	350	119	115	10738.1600	
1	9309.781	3	29631.948-20322.165	-2	-2	.	.	5.0	6.0	.	.	.	0.000	1.360*	0	152	151	10738.4495	
1	9307.221	5	17081.874-7774.653	0	0	4.0	4.0	4.0	4.0	1.215	1.462	.247	1.217	1.463	246	181	180	10741.4032	
1	9305.919	2	20709.458-30016.377	0	0	.	.	3.0	2.0	.	.	.	1.240	1.140	100		-93	10741.7518	
1	9304.998	2	22982.904-13677.903	-3	-3	.	.	2.0	1.0	.	.	.	1.257	1.442	185	092	93	10743.9694	
1	9304.802	1	21737.407-31042.204	5	5	.	.	3.0	3.0	.	.	.	1.026	1.010	16	168	158	10744.1957	IS*
1	9302.115	2	25681.552-34933.667	0	0	.	.	7.0	7.0	.	.	.	1.039	1.060	21		-44	10747.2993	
1	9302.023	3	19236.116-28538.138	1	1	.	.	7.0	7.0	.	.	.	1.155	1.060	95	-198	-198	10747.4056	
1	9295.485	3	23281.721-32577.204	2	2	.	.	5.0	4.0	.	.	.	1.235	0.980*	255	-069	-72	10754.9648	
1	9292.512	2	22518.312-31810.821	3	3	.	.	2.0	2.0	.	.	.	1.350	0.865	485	115	114	10758.4057	
1	9291.090	2	23281.721-32572.811	0	0	.	.	5.0	5.0	.	.	.	1.235	1.010*	225	-047	-50	10760.0523	
1	9290.958	2	14912.011-24202.966	3	3	.	.	4.0	5.0	.	.	.	0.496	1.012	516	166	167	10760.2051	
1	9286.939	2	21031.258-30318.195	2	2	.	.	2.0	2.0	.	.	.	1.455	0.940	515	086	90	10764.8617	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2 - J1	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	9234.339	2	29606.506	-	20322.165	-2	.	.	5.0- 6.0	.	.	.	.	0.000	1.360*	0	163	161	10767.8763	
	9230.023	2																	10772.8089	
1	9279.874	6	15424.387	-	6144.515	2	3.0-	3.0	3.0- 3.0	1.106	1.473	.367		1.106	1.473	367	180	181	10773.0573	
1	9279.125	3	17031.874	-	26360.997	2	.	.	4.0- 5.0	.	.	.		1.217	0.796	421	-241	-241	10773.9269	
1	9277.815	2	27175.729	-	17897.917	3	.	.	4.0- 3.0	.	.	.		1.021	0.450	571	-235	-235	10775.4481	
1	9272.136	2	24090.570	-	33362.705	1	.	.	7.0- 7.0	.	.	.		1.130	1.140*	10	036	37	10782.0479	
1	9268.876	2	15856.888	-	25125.763	1	.	.	1.0- 1.0	.	.	.		1.103	0.314	789	24	23	10785.8401	
1	9265.550	3	18046.108	-	27311.658	0	.	.	4.0- 5.0	.	.	.		0.694	1.035	341	147	147	10789.7119	
	9265.439	2																	10789.8411	
	9260.745	2																	10795.3102	
	9260.024	2H																	10796.1507	
1	9259.470	2	36297.181	-	27037.718	7	.	.	2.0- 2.0					1.010	1.300*	290		129	10796.7967	
	9259.161	1																	10797.1570	
	9259.038	1																	10797.3004	
	9258.863	2																	10797.5045	
	9258.658	3																	10797.7436	
	9258.611	2																	10797.7984	
	9253.478	2																	10797.9535	
1	9258.301	7	12159.465	-	21417.765	1	4.0-	4.0	4.0- 4.0	.844	.802	.042		0.844	0.802	42	36	37	10798.1599	IS*
	9258.057	2																	10798.4445	
	9254.377	1																	10802.7385	
1	9253.326	5	16520.962	-	25774.288	0	5.0-	6.0	5.0- 6.0	.739	.918	.179		0.736	0.915	179	24	23	10803.9655	
1	9251.018	2	22377.599	-	31628.619	-2	.	.	7.0- 6.0	.	.	.		1.076	1.110	34	-158	-157	10806.6610	
1	9246.869	2	20769.512	-	30016.377	4	.	.	2.0- 2.0	.	.	.		1.070	1.140*	70	-036	-37	10811.5099	
2	9241.869	2	26405.340	-	17163.470	-1	.	.	3.5- 4.5	.	.	.		0.852	1.200	348	311	315	10817.3591	
1	9241.308	3	18591.122	-	27832.430	0	.	.	4.0- 4.0	.	.	.		0.965	0.920	45	-074	-73	10818.0157	
1	9239.136	2	15249.635	-	24488.767	4	.	.	2.0- 1.0	.	.	.		0.715	0.000*	0	-331	-333	10820.5589	
1	9236.108	3	21703.960	-	30940.068	0	.	.	5.0- 5.0	.	.	.		1.120	1.080	40	-072	-72	10824.1064	
1	9234.545	4	15424.387	-	24658.931	1	3.0-	4.0	3.0- 4.0	1.10	1.08	.02		1.106	1.080	26	-060	-61	10825.9384	
1	9231.532	2	24759.250	-	33990.780	2	.	.	6.0- 6.0	.	.	.		1.098	0.920*	178	-127	-127	10829.4718	
1	9228.662	2	14737.788	-	23966.450	0	.	.	3.0- 3.0	.	.	.		0.815	0.760	55	-165	-165	10832.8397	
1	9223.402	2	18346.917	-	27570.322	-3	.	.	2.0- 3.0	.	.	.		1.518	1.265	253	-239	-237	10839.0175	
1	9217.989	6	13517.647	-	4299.659	1	2.0-	2.0	2.0- 2.0	.890	1.481	.591		0.892	1.482	590	178	178	10845.3825	
1	9217.195	2	25064.653	-	34281.845	3	.	.	3.0- 2.0	.	.	.		0.980	0.850*	130	012	7	10846.3167	
1	9212.441	2	20709.458	-	29921.899	0	.	.	3.0- 2.0	.	.	.		1.240	1.070*	170	-040	-45	10851.9139	
1	9210.134	2	22666.777	-	31876.909	2	.	.	3.0- 2.0	.	.	.		0.977	0.000*	0	-171	-171	10854.6321	
1	9203.842	2	20521.579	-	29725.422	-1	.	.	6.0- 7.0	.	.	.		1.246	1.220	26	-308	-306	10862.0527	
1	9203.323	2	26150.730	-	35354.050	3	.	.	8.0- 7.0	.	.	.		0.000	0.000*	0	030	35	10862.6652	
1	9202.657	4	18602.505	-	27805.163	-1	.	.	6.0- 5.0	.	.	.		0.910	1.024	114	083	83	10863.4513	
	9202.349	2																	10863.8149	
1	9200.746	2	23281.721	-	32432.465	2	.	.	5.0- 4.0	.	.	.		1.235	1.330*	95	-137	-137	10865.7077	
1	9200.573	2	23909.585	-	33110.165	-7	.	.	5.0- 4.0	.	.	.		1.242	1.220*	22	-131	-139	10865.9120	IS*
1	9199.729	3	20654.712	-	29854.442	-1	.	.	1.0- 1.0	.	.	.		0.200	1.180*	980	8	7	10866.9089	IS*
	9199.433	2																	10867.2585	IS*
1	9199.055	1	27096.974	-	17897.917	-2	.	.	4.0- 3.0	.	.	.		1.180	0.450*	730	-200	-200	10867.7051	
1	9198.059	1	21263.339	-	30461.399	-1	.	.	5.0- 5.0	.	.	.		0.610	0.990*	380	079	79	10868.8819	
1	9197.262	2	26973.744	-	17776.483	1	.	.	2.0- 2.0	.	.	.		1.210	0.565	645		2	10869.8237	
1	9196.826	3	30932.959	-	21735.133	0	.	.	6.0- 7.0	.	.	.		1.340	0.000*	0	153	151	10870.3390	
1	9195.828	2	22181.368	-	31377.193	3	.	.	3.0- 4.0	.	.	.		0.780	0.973*	193	12	16	10871.5188	IS*
1	9194.728	3	24437.792	-	33532.520	0	.	.	4.0- 5.0	.	.	.		1.500	1.305*	195	-090	-91	10872.8194	
1	9193.871	2	21350.311	-	30544.187	-5	.	.	2.0- 3.0	.	.	.		0.350	0.946*	596		-65	10873.8329	
1	9193.496	3	22219.737	-	31413.230	3	.	.	4.0- 3.0	.	.	.		0.750	0.742	8	098	105	10874.2764	
1	9192.803	2	22160.184	-	31352.983	4	.	.	8.0- 7.0	.	.	.		1.230	0.000*	0	-243	-244	10875.0962	
1	9192.599	2	22518.312	-	31710.912	-1	.	.	2.0- 2.0	.	.	.		1.350	0.200	1150	-306	-304	10875.3375	
1	9190.361	2	22088.306	-	31278.667	0	.	.	6.0- 5.0	.	.	.		1.060	1.010*	50	115	116	10877.9859	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
1	9189.076	2	25717.388	-	34906.470	-6	.	.	5.0-	5.0	.	.	.	0.970	0.925*	45	064	65	10879.5070	
1	9182.959	3	24090.570	-	33273.528	1	.	.	7.0-	7.0	.	.	.	1.130	1.070*	60	000	-2	10886.7542	IS*
1	9178.412	1	25100.598	-	34279.010	0	.	.	2.0-	1.0	.	.	.	1.430	1.710*	280	-081	-79	10892.1475	
	9177.294	2					.	.			.	.	.				-076		10893.4744	
1	9176.913	3	22705.158	-	13528.246	1	.	.	1.0-	1.0	.	.	.	-0.020	-0.590*	570	210	211	10893.9267	
1	9176.086	2	15406.760	-	24582.849	-3	.	.	1.0-	2.0	.	.	.	0.890	0.640	250	28	26	10894.9085	
1	9169.309	2	30905.445	-	21736.133	-3	.	.	6.0-	7.0	.	.	.	0.000	0.000*	0	172	170	10902.9609	
1	9168.827	2	12322.613	-	21491.439	1	.	.	2.0-	3.0	.	.	.	1.036	0.000*	0	-391	-391	10903.5341	
1	9167.272	2	21227.793	-	30395.062	3	.	.	4.0-	4.0	.	.	.	1.346	0.920	426	-084	-86	10905.3836	
1	9166.831	1	28023.294	-	18856.461	-2	.	.	4.0-	5.0	.	.	.	1.240	1.325*	85	222	225	10905.9082	
1	9164.226	2	26317.729	-	35482.018	-3	.	.	4.0-	3.0	.	.	.	1.180	1.679*	499	-060	-65	10908.9369	
1	9160.844	3	20043.465	-	29204.308	1	.	.	5.0-	5.0	.	.	.	0.925	0.896	29	16	19	10913.0357	IS*
1	9159.184	2	24437.792	-	33596.975	1	.	.	4.0-	5.0	.	.	.	1.500	1.315*	185	-140	-140	10915.0136	
1	9157.460	3	22219.737	-	31377.193	4	.	.	4.0-	4.0	.	.	.	0.750	0.973	223	40	41	10917.0685	IS*
1	9154.341	4	18963.921	-	28118.262	0	.	.	4.0-	3.0	.	.	.	1.251	1.250*	1	-024	-19	10920.7881	IS*
1	9152.381	2	20769.512	-	29921.899	-6	.	.	2.0-	2.0	.	.	.	1.070	1.070*	0	12	11	10923.1268	IS*
1	9150.554	2	24742.092	-	33892.650	-4	.	.	4.0-	3.0	.	.	.	0.980	1.060*	80	-035	-34	10925.3077	IS*
1	9148.224	3	20521.579	-	29659.807	-4	.	.	6.0-	6.0	.	.	.	1.246	1.150	96	-163	-164	10928.0903	
2	9145.925	2	24634.455	-	15483.530	0	.	.	3.5-	3.5	.	.	.	0.839	1.057	218	281	283	10930.8373	
1	9138.394	2	21737.407	-	30875.798	3	.	.	3.0-	4.0	.	.	.	1.026	1.080*	54	-028	-29	10939.8455	IS*
1	9137.674	5	18591.122	-	27728.796	0	4.0-	3.0	4.0-	3.0	.965	1.064	.099	0.965	1.060	95	-115	-113	10940.7075	
1	9134.127	2	16520.962	-	25655.090	-1	.	.	5.0-	4.0	.	.	.	0.736	1.165	429		-80	10944.9560	
	9133.758	2					.	.			.	.	.						10945.3982	
	9132.135	4					.	.			.	.	.						10947.3435	IIQ
1	9131.724	4	21263.339	-	30395.062	1	.	.	5.0-	4.0	.	.	.	0.610	0.920*	310	087	87	10947.8362	
1	9131.409	2	32266.529	-	23135.120	0	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	184	180	10948.2139	
	9130.133	2					.	.			.	.	.						10949.7440	
1	9129.780	6	8768.139	-	17897.917	2	2.0-	3.0	2.0-	3.0	.363	.453	.090	0.362	0.450	88	038	44	10950.1673	IS*
	9129.512	2					.	.			.	.	.						10950.4888	
1	9129.086	2	20984.195	-	30113.280	1	.	.	6.0-	6.0	.	.	.	1.319	1.050	269	-117	-124	10950.9998	
1	9128.490	2	25371.962	-	34500.445	7	.	.	6.0-	6.0	.	.	.	1.165	1.030	135	-012	-12	10951.7148	IS*
1	9127.656	2	28470.960	-	19343.258	-6	.	.	2.0-	3.0	.	.	.	1.104	1.135	31	109	114	10952.7154	
1	9127.443	2	33584.384	-	24456.948	7	.	.	3.0-	3.0	.	.	.	1.058	0.000*	0		150	10952.9710	
2	9122.974	2	26162.460	-	17039.487	1	.	.	1.5-	1.5	.	.	.	0.710	1.354*	644	406	419	10958.3365	IS*
1	9122.699	2	23281.721	-	32404.416	4	.	.	5.0-	5.0	.	.	.	1.235	1.055	180	45	47	10958.6668	IS*
1	9113.137	5	14853.317	-	23966.450	4	4.0-	3.0	4.0-	3.0	.785	.765	.020	0.786	0.760	26	-091	-91	10970.1653	
1	9112.411	3	27651.193	-	18538.782	0	.	.	2.0-	2.0	.	.	.	1.570	1.600	30	137	137	10971.0393	
1	9110.979	2	21703.960	-	30814.939	0	.	.	5.0-	5.0	.	.	.	1.120	1.111	9	-210	-210	10972.7637	
	9110.620	1					.	.			.	.	.				25		10973.1960	IS*
1	9109.521	2	19235.116	-	28345.647	-10	.	.	7.0-	6.0	.	.	.	1.155	0.000*	0	-362	-362	10974.5199	
1	9099.650	2	23281.721	-	32381.372	-1	.	.	5.0-	5.0	.	.	.	1.235	1.190	45	-095	-95	10986.4247	
2	9095.596	2	16593.963	-	7498.364	-3	.	.	2.5-	2.5	.	.	.	0.983	1.321	338	187	184	10991.3215	
1	9092.424	1	20990.684	-	30983.102	6	.	.	5.0-	5.0	.	.	.	1.308	1.150*	158	-205	-202	10995.1559	
1	9092.365	3	24090.570	-	33182.933	2	.	.	7.0-	6.0	.	.	.	1.130	1.050	80	052	54	10995.2273	
	9092.892	1					.	.			.	.	.				-020		10999.4287	IS*
1	9092.874	2	24456.635	-	33542.506	3	.	.	3.0-	2.0	.	.	.	1.000	1.123*	123	-047	-50	11003.0824	IS*
1	9084.896	4	20540.110	-	29625.003	3	.	.	3.0-	2.0	.	.	.	0.830	0.910*	80	40	42	11004.2669	IS*
1	9081.741	2	16520.962	-	25605.707	-4	.	.	5.0-	4.0	.	.	.	0.736	1.160	424	28	28	11004.4546	IS*
1	9082.005	2	15405.760	-	24428.767	-2	.	.	1.0-	1.0	.	.	.	0.890	0.000*	0	-262	-262	11007.7698	
1	9076.766	3	25681.552	-	16604.786	0	.	.	7.0-	6.0	.	.	.	1.039	0.950*	89	147	147	11014.1233	
1	9076.655	2	26811.368	-	35838.025	-2	.	.	7.0-	7.0	.	.	.	1.180	1.050*	130	79	78	11014.2580	
1	9074.716	2	23416.666	-	14341.947	-3	.	.	2.0-	2.0	.	.	.	1.320	0.852*	468	240	238	11016.6115	
1	9073.682	2	16202.112	-	25275.795	-1	.	.	0.0-	1.0	.	.	.	0.000	0.706	0		31	11017.8669	
1	9073.601	3	16532.104	-	25605.707	-2	.	.	3.0-	4.0	.	.	.	0.300	1.160	860	044	24	11017.9652	ISQ
1	9071.055	3	24816.659	-	15745.648	4	.	.	2.0-	3.0	.	.	.	1.165	1.145	20	162	160	11021.0577	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	9068.734	1																	11023.8783	
	9067.621	2															82		11025.2315	
1	9066.322	2	18602.505	-	27668.890	-3	.	.	6.0-	5.0	.	.	.	0.910	1.312	402	-045	-44	11026.7382	
1	9065.433	2	25681.552	-	34746.981	4	.	.	7.0-	8.0	.	.	.	1.039	0.000*	0	-040	-43	11027.8925	
	9064.927	1															105		11028.5081	
1	9064.033	2	25054.653	-	34128.739	-3	.	.	3.0-	3.0	.	.	.	0.980	1.106	126	-008	-5	11029.5350	IS*
1	9063.120	3	21812.682	-	30875.798	4	.	.	4.0-	4.0	.	.	.	1.040	1.080*	40	-100	-100	11030.7069	
1	9060.679	3	26633.286	-	17572.608	1	.	.	1.0-	2.0	.	.	.	1.124	0.555	569	059	59	11033.6787	
1	9060.281	2	21703.960	-	30764.244	-3	.	.	5.0-	6.0	.	.	.	1.120	0.975	145	-210	-212	11034.1634	
1	9059.977	2	16595.109	-	25655.090	-4	.	.	3.0-	4.0	.	.	.	0.999	1.165	166		-255	11034.5336	
2	9059.547	3	14561.607	-	5502.060	0	.	.	1.5-	1.5	.	.	.	1.149	1.169	20	282	282	11035.0573	
1	9059.321	3	23909.585	-	32958.906	0	.	.	5.0-	4.0	.	.	.	1.242	1.115	127	-084	-84	11035.3326	IS*
1	9057.914	2	22160.184	-	31218.105	-7	.	.	8.0-	8.0	.	.	.	1.230	1.155	75		-211	11037.0468	
1	9057.630	4	19776.904	-	28834.535	-1	.	.	6.0-	5.0	.	.	.	1.012	0.978	34	-167	-165	11037.3929	
1	9057.489	3	21337.573	-	30395.062	0	.	.	4.0-	4.0	.	.	.	1.137	0.920	217	-086	-129	11037.5647	ISQ
1	9056.689	1	32156.115	-	23129.429	3	.	.	4.0-	5.0	.	.	.	1.212	1.168	44	082	90	11038.5397	
1	9055.039	3	23814.130	-	32869.165	4	.	.	6.0-	5.0	.	.	.	0.890	0.916	26	-008	-6	11040.5511	IS*
1	9054.435	2	14912.011	-	23956.450	-4	.	.	4.0-	3.0	.	.	.	0.496	0.760	264	8	6	11041.2876	IS*
1	9053.065	4	27909.524	-	18856.461	2	.	.	4.0-	5.0	.	.	.	1.270	1.325*	55	162	164	11042.9585	
	9051.813	2															067		11044.4859	
1	9048.178	2	22219.737	-	31267.919	-4	.	.	4.0-	3.0	.	.	.	0.750	1.080	330	119	116	11048.9229	
1	9047.791	3	17045.776	-	26093.563	4	.	.	1.0-	1.0	.	.	.	1.474	-0.082	1556	121	121	11049.3955	
1	9043.972	3	19074.292	-	28118.262	2	.	.	2.0-	3.0	.	.	.	1.532	1.250*	282	180	179	11054.0613	
1	9043.350	2	27869.060	-	35912.410	0	.	.	7.0-	7.0	.	.	.	1.250	0.000*	0	050	47	11054.8216	
1	9043.226	2	23814.130	-	32857.357	-1	.	.	6.0-	6.0	.	.	.	0.890	1.101	211	+	39	11054.9732	
2	9040.694	2	21048.190	-	12007.503	7	.	.	2.5-	1.5	.	.	.	1.030	-0.019*	1049	450	449	11058.0693	
1	9039.732	2	23763.470	-	32803.199	3	.	.	4.0-	3.0	.	.	.	0.970	0.825*	145	-020	-21	11059.2461	IS*
	9039.656	2																	11059.3391	
1	9038.101	1	21420.983	-	30459.091	-7	.	.	3.0-	2.0	.	.	.	1.663	1.255	408	-099	-96	11061.2419	IS*
1	9035.755	2	21337.573	-	30373.329	-1	.	.	4.0-	4.0	.	.	.	1.137	1.345	208	-246	-250	11064.1138	
1	9034.804	1	23720.664	-	32755.472	-4	.	.	3.0-	4.0	.	.	.	0.790	1.005*	215		-76	11065.2784	
1	9033.658	4	13517.647	-	22551.302	3	.	.	2.0-	3.0	.	.	.	0.892	0.000*	0	-394	-394	11066.6821	
1	9032.791	1	25074.585	-	34107.378	-2	.	.	4.0-	3.0	.	.	.	1.507	1.160*	347		106	11067.7443	
1	9032.558	2	15424.387	-	24456.948	-3	.	.	3.0-	3.0	.	.	.	1.106	0.000*	0	-310	-305	11068.0298	
1	9031.853	3	17911.977	-	26943.829	1	.	.	5.0-	5.0	.	.	.	1.145	1.220	75	-237	-239	11068.8938	
1	9029.690	1	24534.240	-	33563.924	6	.	.	2.0-	1.0	.	.	.	0.000	0.430*	0	-089	-86	11071.5453	
1	9027.990	3	20697.435	-	29725.422	4	.	.	7.0-	7.0	.	.	.	1.250	1.220	30	-308	-306	11073.6301	
1	9026.124	3	22509.712	-	31535.835	1	.	.	5.0-	5.0	.	.	.	1.287	1.020	267	-243	-243	11075.9194	
	9021.874	2																	11081.1370	
	9020.504	2																	11082.8200	
1	9017.865	3	23281.721	-	32299.581	5	.	.	5.0-	5.0	.	.	.	1.235	0.000*	0	-045	-48	11086.0633	
	9017.257	2																	11086.8107	
1	9014.599	3	20510.110	-	29554.716	-7	.	.	3.0-	3.0	.	.	.	0.830	0.831*	1	049	50	11090.0798	
1	9013.942	2	19959.027	-	28972.971	-2	.	.	1.0-	2.0	.	.	.	0.760	0.794*	34	109	111	11090.8881	
	9013.830	2																	11091.0259	
	9012.256	2																	11092.9630	
	9011.230	1																	11094.2260	
1	9010.798	2	21307.390	-	30318.195	-7	.	.	1.0-	2.0	.	.	.	2.360	0.940*	1420	28	27	11094.7579	IS*
	9010.677	1																	11094.9069	
1	9010.593	3	16595.109	-	25605.707	-5	.	.	3.0-	4.0	.	.	.	0.999	1.160	161	-148	-147	11095.0103	
	9010.062	2																	11095.6642	
1	9009.635	2	28513.607	-	37523.250	-8	.	.	5.0-	6.0	.	.	.	1.157	1.055	102		0	11096.1900	
	9009.521	2																	11096.3304	
	9009.403	2																	11096.4758	
	9009.320	2																	11096.5780	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	9009.211	2																	11096.7122	
1	9008.889	3	18963.921	-	27972.815	-5	.	.	4.0-	4.0	.	.	.	1.251	0.979	272	-079	-71	11097.1089	
1	9008.345	7	8768.139	-	17776.483	1	3.0-	2.0	2.0-	2.0	.362	.565	.203	0.362	0.565	203	-156	-156	11097.7790	J2Q
1	9007.221	2	23037.432	-	32044.652	1	.	.	1.0-	1.0	.	.	.	0.870	0.800	70		-155	11099.1639	
	9007.171	2																	11099.2255	
1	9007.045	2	24347.551	-	33354.592	4	.	.	3.0-	3.0	.	.	.	1.300	0.000*	0		61	11099.3808	
1	9006.469	5	18591.122	-	27597.590	1	.	.	4.0-	4.0	.	.	.	0.965	0.930	35	-086	-88	11100.0906	
	9005.003	1																	11100.6650	
	9005.744	2																	11100.9842	
	9005.447	2																	11101.3503	
	9004.419	2																	11102.6177	
	9004.219	2																	11102.8644	
	9003.917	2																	11103.2368	
	9000.747	1																	11107.1473	
	8998.948	2																	11109.3677	
1	8998.440	3	22088.306	-	31086.744	2	.	.	6.0-	5.0	.	.	.	1.060	0.795	265	193	195	11109.9949	
1	8997.644	2	19236.116	-	10238.473	1	.	.	7.0-	6.0	.	.	.	1.155	1.431	276	195	191	11110.9778	
	8996.869	2																	11111.9349	
1	8996.791	2	26894.711	-	17897.917	-3	.	.	3.0-	3.0	.	.	.	1.465	0.450	1015		-247	11112.0312	
	8996.652	2																	11112.2029	
	8996.552	1																	11112.3264	
1	8996.476	3	18672.411	-	27668.890	-3	.	.	6.0-	5.0	.	.	.	1.190	1.312*	122	-272	-275	11112.4203	
	8996.364	1																	11112.5586	
	8996.252	2																	11112.6970	
1	8994.532	8	9724.351	-	18718.882	1	3.0-	2.0	3.0-	2.0	.440	.504	.064	0.442	0.504	62	-020	-20	11114.8220	IS*
1	8993.806	5	21998.645	-	30992.449	2	.	.	7.0-	7.0	.	.	.	1.269	1.210*	59	-139	-139	11115.7193	
	8990.583	2																	11119.7041	
	8990.115	2																	11120.2830	
	8989.691	2																	11120.8074	
	8989.579	2															16		11120.9460	IS*
1	8989.492	2	16304.260	-	25293.751	1	.	.	4.0-	3.0	.	.	.	1.285	0.965	320	-382	-386	11121.0536	
1	8982.624	1	21227.793	-	30210.416	1	.	.	4.0-	4.0	.	.	.	1.346	1.160*	186		-148	11129.5567	
1	8982.501	1	29810.974	-	20828.475	2	.	.	3.0-	4.0	.	.	.	1.184	0.352	832		-85	11129.7091	
	8932.051	2																	11130.2667	
1	8979.855	2	28021.637	-	37001.490	2	.	.	5.0-	6.0	.	.	.	1.400	1.035*	365		21	11132.9885	
1	8979.765	2	18672.411	-	27652.180	-4	.	.	6.0-	6.0	.	.	.	1.190	1.250*	60	-390	-390	11133.1001	
1	8978.908	3	22219.737	-	31198.642	3	.	.	4.0-	3.0	.	.	.	0.750	1.070	320	115	117	11134.1627	
1	8975.389	2	22377.599	-	31352.983	5	.	.	7.0-	7.0	.	.	.	1.076	0.000*	0	-235	-236	11138.5281	
1	8974.078	2	21420.983	-	30395.062	-1	.	.	3.0-	4.0	.	.	.	1.663	0.920	743	20	17	11140.1554	IS*
1	8973.262	4	23315.209	-	14341.947	0	.	.	2.0-	2.0	.	.	.	1.335	0.852	483	176	175	11141.1684	
1	8972.372	4	20697.436	-	29669.807	1	.	.	7.0-	6.0	.	.	.	1.250	1.150	100	-165	-164	11142.2735	
1	8970.290	2	20654.712	-	29625.003	-1	.	.	1.0-	2.0	.	.	.	0.200	0.910*	710	070	71	11144.8597	
1	8970.208	2	26735.491	-	17765.281	-2	.	.	2.0-	3.0	.	.	.	1.062	1.680*	618	287	291	11144.9615	
1	8966.903	3	21812.682	-	30779.585	0	.	.	4.0-	3.0	.	.	.	1.040	0.860	180	-016	-16	11149.0693	IS*
1	8966.017	5	20043.465	-	29009.483	-1	.	.	5.0-	4.0	.	.	.	0.925	0.695	230	058	60	11150.1711	
1	8964.921	2	26730.201	-	17765.281	1	.	.	3.0-	3.0	.	.	.	0.950	1.680*	730	195	195	11151.5342	
1	8963.826	2	24534.240	-	33498.071	-5	.	.	2.0-	3.0	.	.	.	0.000	0.770*	0	016	11	11152.8965	
1	8961.954	3	17911.977	-	28873.930	1	.	.	5.0-	6.0	.	.	.	1.145	1.125	20	-050	-51	11155.2261	
1	8959.716	2	25717.388	-	34677.111	-7	.	.	5.0-	4.0	.	.	.	0.970	1.080*	110	8	5	11158.0125	IS*
	8956.133	2															24		11162.4764	IS*
	8951.560	2																	11168.1789	
1	8949.341	2	26664.150	-	35613.490	1	.	.	6.0-	5.0	.	.	.	1.135	1.090*	45	-063	-63	11170.9481	
1	8949.126	4	14025.007	-	22974.132	1	.	.	4.0-	3.0	.	.	.	0.975	1.147	172	-145	-146	11171.2165	
	8947.966	2																	11172.6647	IS*
1	8947.214	1	22429.984	-	31377.193	5	.	.	4.0-	4.0	.	.	.	1.279	0.973	306	24	29	11173.6037	IS*

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	IS	IS		
1	8946.418	0	27447.115-36393.534	-1	.	.	.	.	10.0-10.0	.	.	.	.	0.000	1.150*	0	8	7	11174.5979	IS*
1	8946.246	1	26844.163-17897.917	0	.	.	.	.	4.0-3.0	.	.	.	.	1.020	0.450	570	-167	-170	11174.8127	
2	8945.035	2	20952.550-12007.503	-12	.	.	.	.	1.5-1.5	.	.	.	.	0.350-0.019	369	426	426		11176.3256	
2	8944.337	3	24432.860-15438.530	7	.	.	.	.	3.5-3.5	.	.	.	.	1.110	1.057*	53	402	402	11177.1978	
1	8943.030	2	24012.505-32955.538	-3	.	.	.	.	6.0-6.0	.	.	.	.	1.248	1.265	17	-234	-236	11178.8313	
1	8940.906	2	15424.387-24365.295	-2	.	.	.	.	3.0-3.0	.	.	.	.	1.106	1.475	369	-392	-387	11181.4870	
1	8940.505	2	30995.841-22055.339	3	.	.	.	.	2.0-3.0	.	.	.	.	1.470	0.000*	0	16	125	11181.9885	IS* CQ
1	8939.905	3	16834.379-25774.288	-4	.	.	.	.	5.0-6.0	.	.	.	.	0.961	0.915	46	-172	-169	11182.7390	
1	8939.804	3	20697.436-29637.242	-2	.	.	.	.	7.0-6.0	.	.	.	.	1.250	1.020	230	-204	-204	11182.8653	
	8938.112	3			.	.	.	.		.	.	.	.				-016		11184.9322	IS*
1	8937.658	3	24759.250-33696.921	-3	.	.	.	.	6.0-6.0	.	.	.	.	1.098	1.100*	2	-040	-39	11185.5379	IS*
1	8935.368	3	26258.661-17323.291	-2	.	.	.	.	3.0-4.0	.	.	.	.	0.965	1.250*	285	223	223	11188.4171	
1	8933.682	3	23735.353-32669.040	-5	.	.	.	.	2.0-3.0	.	.	.	.	0.935	1.000*	65	057	59	11190.5286	
1	8932.867	2	21227.793-30160.654	-4	.	.	.	.	4.0-4.0	.	.	.	.	1.346	1.030	316	-079	-78	11191.5496	
1	8929.501	3	25706.036-16776.530	-5	.	.	.	.	2.0-1.0	.	.	.	.	1.290	0.000*	0	163	160	11195.7683	
1	8929.165	2	23281.721-32210.835	1	.	.	.	.	5.0-4.0	.	.	.	.	1.235	0.995	240	107	107	11196.1896	
	8928.205	2			.	.	.	.		.	.	.	.						11197.3935	
1	8927.937	6	9724.351-18552.287	1	.	.	.	.	3.0-3.0	.	.	.	.	0.442	0.822	380	-135	-135	11197.7296	
1	8926.313	2	22982.904-31909.212	5	.	.	.	.	2.0-1.0	.	.	.	.	1.257	0.888	369	12	-2	11199.7668	IS*
1	8923.652	3	15202.112-25125.763	1	.	.	.	.	0.0-1.0	.	.	.	.	0.000	0.314	0	43	40	11203.1066	IS*
1	8922.917	2	24188.639-33111.557	-1	.	.	.	.	1.0-2.0	.	.	.	.	0.667	1.315	648	068	68	11204.0294	
1	8921.142	3	12602.505-27523.650	-3	.	.	.	.	6.0-6.0	.	.	.	.	0.910	1.080	170	118	118	11206.2586	
	8919.874	1			.	.	.	.		.	.	.	.				-085		11207.8517	
1	8917.120	2	15406.760-24323.834	-4	.	.	.	.	1.0-1.0	.	.	.	.	0.890	0.800*	90	-129	-129	11211.3131	
1	8914.844	2	19203.415-28118.262	-3	.	.	.	.	2.0-3.0	.	.	.	.	1.021	1.250*	229	8	6	11214.1754	IS*
1	8914.614	2	24456.635-33371.251	-2	.	.	.	.	3.0-3.0	.	.	.	.	1.000	1.113*	113	-012	-17	11214.4648	IS*
1	8913.667	2	26250.080-17336.413	0	.	.	.	.	1.0-0.0	.	.	.	.	1.290	0.000*	0	178	178	11215.6562	
1	8912.847	3	19059.958-27972.815	-10	.	.	.	.	5.0-4.0	.	.	.	.	1.375	0.979	396	-086	-88	11216.6881	
1	8910.779	2	15856.888-24767.674	-7	.	.	.	.	1.0-2.0	.	.	.	.	1.103	1.455	352	-353	-346	11219.2912	
	8910.630	1			.	.	.	.		.	.	.	.				-221		11219.4788	ISQ
1	8908.940	3	22160.184-31059.124	0	.	.	.	.	8.0-8.0	.	.	.	.	1.230	1.135	95	-064	-62	11221.6072	IS*
1	8908.774	3	21307.390-30216.163	1	.	.	.	.	1.0-2.0	.	.	.	.	2.360	1.143*	1217	+	34	11221.8163	
1	8903.626	2	23578.836-32482.465	-3	.	.	.	.	5.0-4.0	.	.	.	.	1.120	1.330*	210	-152	-147	11228.3046	
1	8902.589	2	19074.292-27976.831	0	.	.	.	.	2.0-3.0	.	.	.	.	1.532	1.080	452	055	65	11229.6125	
1	8900.099	4	19426.512-28326.610	1	.	.	.	.	3.0-4.0	.	.	.	.	1.435	1.260*	175	-218	-218	11232.7543	
1	8897.324	4	21263.339-30160.664	-1	.	.	.	.	5.0-4.0	.	.	.	.	0.610	1.030*	420	094	95	11236.2577	
1	8892.104	2	13517.647-22409.753	-2	.	.	.	.	2.0-2.0	.	.	.	.	0.892	1.413	521	-393	-397	11242.8538	
1	8888.742	4	22416.990-13528.246	-2	.	.	.	.	2.0-1.0	.	.	.	.	1.675-0.590*	2265	155	158		11247.1062	
1	8888.294	2	25664.825-16776.530	-1	.	.	.	.	0.0-1.0	.	.	.	.	0.000	0.000*	0	148	148	11247.6731	
1	8886.294	3	26283.495-35169.790	-1	.	.	.	.	7.0-6.0	.	.	.	.	1.080	1.120*	40	012	12	11250.2046	
1	8885.378	4	16888.909-25774.288	-1	.	.	.	.	6.0-6.0	.	.	.	.	1.098	0.915	183	-194	-194	11251.3644	
	8880.100	2			.	.	.	.		.	.	.	.				28		11258.0518	
2	8879.257	3	23312.615-14433.351	-7	.	.	.	.	1.5-1.5	.	.	.	.	0.680	1.925*	1245	393	391	11259.1206	
1	8874.547	2	22307.633-31182.179	1	.	.	.	.	3.0-4.0	.	.	.	.	1.434	1.210*	224	-179	-178	11265.0962	
1	8873.265	2	24759.250-33632.520	-5	.	.	.	.	6.0-5.0	.	.	.	.	1.098	1.305	207	-135	-137	11266.7238	
1	8871.319	3	29193.490-20322.165	-6	.	.	.	.	6.0-6.0	.	.	.	.	1.240	1.360*	120	193	193	11269.1952	
1	8870.458	1	13672.411-27542.874	-5	.	.	.	.	6.0-5.0	.	.	.	.	1.190	1.270*	80	-278	-279	11270.2891	
1	8869.039	3	22416.990-31286.029	0	.	.	.	.	2.0-2.0	.	.	.	.	1.675	1.280	395	152	152	11272.0923	
1	8868.505	3	18963.921-27832.430	-4	.	.	.	.	4.0-4.0	.	.	.	.	1.251	0.920	331	-085	-78	11272.7710	
1	8867.554	4	19865.603-28733.159	-2	.	.	.	.	4.0-4.0	.	.	.	.	1.100	1.035	65	-101	-100	11273.9800	
1	8866.566	2	22719.717-31586.283	0	.	.	.	.	9.0-8.0	.	.	.	.	1.200	1.053*	147	-111	-110	11275.2362	
1	8865.849	2	21350.311-30216.163	-3	.	.	.	.	2.0-2.0	.	.	.	.	0.350	1.143*	793	-123	-128	11276.1481	
1	8863.422	3	15424.387-24237.814	-5	.	.	.	.	3.0-3.0	.	.	.	.	1.106	0.585	521	-170	-170	11279.2357	
1	8862.686	4	20043.465-28906.150	1	.	.	.	.	5.0-5.0	.	.	.	.	0.925	1.105	180	8	11	11280.1724	IS*
1	8861.990	2	23578.836-32440.827	-1	.	.	.	.	5.0-6.0	.	.	.	.	1.120	1.120*	0	-040	-42	11281.0583	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	8861.002	3	30327.960	-	39188.962	0*	.	.	10.0	-11.0	.	.	.	0.000	0.000*	0	030	16	11282.3162	
	8859.803	2															32		11283.8366	IS*
1	8856.569	5	16304.260	-	25160.827	2	.	.	4.0	-3.0	.	.	.	1.285	0.800	485	-028	-26	11287.9634	IS*
1	8855.840	2	21603.247	-	30459.091	-4	.	.	2.0	-2.0	.	.	.	0.060	1.255*	1195		-149	11288.8926	
1	8855.490	3	20769.512	-	29525.003	-1	.	.	2.0	-2.0	.	.	.	1.070	0.910*	160	098	94	11289.3387	
1	8855.307	3	21227.793	-	30083.102	-2	.	.	4.0	-5.0	.	.	.	1.346	1.150*	196	-107	-109	11289.5720	
1	8854.689	1	21031.258	-	29085.947	0	.	.	2.0	-3.0	.	.	.	1.455	1.330*	125	-055	-58	11290.3600	
1	8851.237	3	18572.411	-	27523.650	-2	.	.	6.0	-6.0	.	.	.	1.190	1.080*	110	-113	-113	11294.7633	
1	8850.569	2	10485.922	-	19337.431	0	.	.	1.0	-1.0	.	.	.	0.355	2.410*	2055	-388	-388	11295.6923	
1	8849.939	2	21263.339	-	30113.280	-2	.	.	5.0	-6.0	.	.	.	0.610	1.050*	440	161	159	11296.4198	
1	8845.565	3	25121.896	-	16276.332	1	.	.	1.0	-2.0	.	.	.	1.444	1.830*	436	178	178	11302.0058	
1	8844.100	4	21227.793	-	30071.890	3	.	.	4.0	-5.0	.	.	.	1.346	1.290*	56	-198	-199	11303.8779	
1	8843.350	2	20425.711	-	29269.059	2	.	.	1.0	-1.0	.	.	.	1.340	1.110*	230	58	60	11304.8366	
1	8841.237	3	18953.921	-	27805.163	-5	.	.	4.0	-5.0	.	.	.	1.251	1.024	227	-141	-135	11307.5384	
1	8840.650	2	30327.960	-	39168.610	0*	.	.	10.0	-9.0	.	.	.	0.000	1.190*	0	-062	-62	11308.2892	
1	8840.504	2	22377.599	-	31218.105	-2	.	.	7.0	-8.0	.	.	.	1.076	1.155	79	-205	-203	11308.4759	
1	8837.546	4	16595.109	-	25432.655	0	.	.	3.0	-2.0	.	.	.	0.999	1.281	282	053	53	11312.2610	
1	8837.471	2	14763.705	-	23501.171	5	.	.	1.0	-1.0	.	.	.	-0.066	0.565	631	-282	-275	11312.3570	
1	8837.255	4	14292.176	-	23129.429	2	.	.	5.0	-5.0	.	.	.	0.970	1.168	198	-364	-363	11312.6335	
1	8836.016	3	17615.482	-	26449.501	-3	.	.	2.0	-3.0	.	.	.	1.450	0.940*	510	-213	-213	11316.7813	
1	8832.812	2	26811.368	-	35644.180	0	.	.	7.0	-7.0	.	.	.	1.180	1.070*	110	-024	-24	11318.3239	IS*
1	8832.267	3	22160.184	-	30992.449	2	.	.	8.0	-7.0	.	.	.	1.230	1.210*	20	-156	-156	11319.0223	
1	8829.839	2	24742.092	-	33570.935	-4	.	.	4.0	-4.0	.	.	.	0.980	1.130*	150	16	16	11323.4172	IS*
	8827.555	3															-056		11325.0629	
1	8824.462	3	15406.760	-	24231.226	-4	.	.	1.0	-2.0	.	.	.	0.890	0.411	479	000	-7	11329.0337	
1	8824.268	4	25100.598	-	16276.332	2	.	.	2.0	-2.0	.	.	.	1.430	1.880*	450	156	158	11329.2827	
1	8823.180	2	21031.258	-	29854.442	-4	.	.	2.0	-1.0	.	.	.	1.455	1.180*	275	58	58	11330.6798	
1	8823.091	3	21337.573	-	30160.664	0	.	.	4.0	-4.0	.	.	.	1.137	1.030	107	-117	-121	11330.7941	
	8822.853	2																	11331.0997	
1	8821.484	2	19059.958	-	10238.473	-1	.	.	5.0	-6.0	.	.	.	1.375	1.431	56	189	186	11332.8582	
1	8815.614	3	17615.482	-	26431.101	-5	.	.	2.0	-3.0	.	.	.	1.450	0.807	643	-197	-197	11340.4044	
1	8814.869	5	14853.317	-	23668.184	2	.	.	4.0	-4.0	.	.	.	0.786	0.940*	154	-036	-38	11341.3628	IS*
	8814.660	2																	11341.6317	
	8814.469	3																	11341.8775	
1	8814.433	6	9724.351	-	18538.782	2	.	.	3.0	-2.0	.	.	.	0.442	1.600	1158	-361	-361	11341.9238	
1	8813.263	2	30549.406	-	21736.133	-5	.	.	8.0	-7.0	.	.	.	0.000	0.000*	0	165	162	11343.4231	IS*
2	8812.774	2	12048.548	-	3235.770	-4	.	.	1.5	-0.5	.	.	.	-0.054	0.299	353	192	188	11344.0589	
1	8811.857	2	22307.633	-	31119.494	-4	.	.	3.0	-2.0	.	.	.	1.434	0.814	620	-127	-120	11345.2394	
1	8811.355	3	20457.704	-	29269.059	0	.	.	0.0	-1.0	.	.	.	0.000	1.110*	0	094	92	11345.8858	
1	8810.869	1	26708.790	-	17897.917	-4	.	.	3.0	-3.0	.	.	.	0.855	0.450	405	-279	-284	11346.5116	
1	8809.340	1	23763.470	-	32572.811	-1	.	.	4.0	-5.0	.	.	.	0.970	1.010*	40	-115	-112	11348.4810	
1	8807.014	1	26572.296	-	17765.281	-1	.	.	2.0	-3.0	.	.	.	1.014	1.680*	666	231	233	11351.4782	
1	8806.839	5	15424.387	-	24231.226	0	.	.	3.0	-2.0	.	.	.	1.106	0.411	695	-077	-71	11351.7038	
1	8806.780	4	21737.407	-	30544.187	0	.	.	3.0	-3.0	.	.	.	1.026	0.946	80	087	87	11351.7798	
1	8804.467	2	8768.139	-	17572.608	-2	.	.	2.0	-2.0	.	.	.	0.362	0.555	193	-370	-370	11354.7620	
1	8804.054	2	19959.027	-	28763.085	-4	.	.	1.0	-0.0	.	.	.	0.760	0.000*	0	71	69	11355.2947	
1	8799.499	3	23550.352	-	32349.853	-2	.	.	3.0	-2.0	.	.	.	1.090	0.000*	0	-024	-33	11361.1727	
	8799.249	1H															-080		11361.4955	
1	8796.052	3	14853.317	-	23649.372	-3	.	.	4.0	-4.0	.	.	.	0.786	0.000*	0	-287	-287	11365.6249	
1	8791.975	1	17615.482	-	26407.449	8	.	.	2.0	-2.0	.	.	.	1.450	0.972	478	-148	-143	11370.8954	
1	8791.070	6	20043.465	-	28334.535	0	.	.	5.0	-5.0	.	.	.	0.925	0.978	53	078	78	11372.0660	
	8790.693	2																	11372.5537	
1	8787.799	1	24816.699	-	33504.497	1	.	.	2.0	-3.0	.	.	.	1.165	1.210	45		59	11376.2939	
1	8787.232	2	27643.693	-	18356.461	0	.	.	4.0	-5.0	.	.	.	1.310	1.325*	15	118	122	11377.0330	
1	8786.692	2	29108.865	-	20322.165	-8	.	.	5.0	-6.0	.	.	.	1.210	1.360*	150	205	203	11377.7322	IS*

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
								J2	J1	J2	J1	G2	G1	D6	G2	G1	D6	IS	IS			
		8781.605	2																		11384.3218	
1		8771.311	2	15897.584	-	27668.890	5			5.0-	5.0				1.280	1.312	32	-281	-279	11397.6837		
1		8770.481	1	25113.744	-	33324.230	-5			6.0-	7.0				1.302	1.105	197	-100	-98	11398.7624		
1		8769.717	3	23207.126	-	31976.844	-1			8.0-	7.0				1.135	1.095	40	061	60	11399.7554		
1		8768.953	3	22509.712	-	31278.667	-2			5.0-	5.0				1.287	1.010*	277	-056	-58	11400.7486		
1		8768.657	2	22429.984	-	31193.642	-1			4.0-	3.0				1.279	1.070	209		105	11401.1335		
1		8766.787	2	24090.570	-	32857.357	0			7.0-	6.0				1.130	1.101	29	12	17	11403.5654	IS*	
1		8766.563	5	16155.109	-	24521.671	1			5.0-	5.0				0.948	1.034	86	-105	-105	11403.8568		
1		8765.327	2	20654.712	-	29420.042	-3			1.0-	1.0				0.200	1.095	895	-028	-31	11405.4648		
1		8764.002	3	24347.551	-	33111.557	-4			3.0-	2.0				1.300	1.315*	15	032	32	11407.1892		
1		8761.646	2	16532.104	-	25293.751	-1			3.0-	3.0				0.300	0.965	665	-173	-172	11410.2566		
1		8758.937	3	23100.887	-	14341.947	-3			3.0-	2.0				1.520	0.852	668	063	62	11413.7856		
1		8753.678	4	23314.130	-	32572.811	-3			6.0-	5.0				0.890	1.010*	120	-016	-14	11414.1231	IS*	
1		8757.433	2	21703.960	-	30461.399	-6			5.0-	5.0				1.120	0.990	130	-184	-181	11415.7458		
1		8756.824	2	22416.990	-	31173.814	0			2.0-	1.0				1.675	0.450*	1225	062	63	11416.5397		
1		8756.732	2	20425.711	-	29182.445	-2			1.0-	1.0				1.340	0.000*	0		71	11416.6597		
		8756.326	2																		11417.1890	
1		8756.175	5	14912.011	-	23668.184	2			4.0-	4.0				0.496	0.940*	444	060	59	11417.3859		
1		8750.325	2	22509.712	-	31260.046	-9			5.0-	6.0				1.287	1.210*	77	-321	-324	11425.0190		
1		8749.604	3	22518.312	-	31267.919	-3			2.0-	3.0				1.350	1.080	270	121	118	11425.9604		
1		8745.203	2	19059.958	-	27895.163	-2			5.0-	5.0				1.375	1.024	351	-153	-152	11431.7105		
2		8740.209	1	19466.530	-	10726.322	1			4.5-	4.5				1.151	1.391	240	160	161	11438.2424		
		8739.080	1																		11439.7201	
2		8737.358	4	23170.720	-	14433.351	-11			0.5-	1.5				1.082	1.925*	843	401	399	11441.9747	2LNS	
1		8737.358	4	14912.011	-	23649.372	-3			4.0-	4.0				0.496	0.000*	0	-190	-190	11441.9747	2LNS	
1		8731.499	3	21812.682	-	30544.187	-6			4.0-	3.0				1.040	0.946	94	20	16	11449.6525	IS*	
1		8730.100	5	14292.176	-	23022.274	2			5.0-	5.0				0.970	0.817	153	-222	-222	11451.4874		
1		8728.456	2	20065.327	-	28793.800	-7			3.0-	3.0				0.998	1.083	85	-292	-295	11453.6311		
1		8727.923	2	23004.649	-	31732.582	-5			5.0-	5.0				1.196	1.049	147	-194	-189	11454.3371		
1		8727.182	2	23705.495	-	32432.630	-3			7.0-	7.0				1.277	1.140	137	-178	-180	11455.3163		
1		8726.632	2	22028.306	-	30814.939	-1			6.0-	5.0				1.060	1.111	51	0	3	11456.0382	IS*	
1		8725.958	4	15856.838	-	24582.849	-3			1.0-	2.0				1.103	0.640	463	20	14	11456.9231	IS*	
1		8724.741	1	20457.704	-	29182.445	0			0.0-	1.0				0.000	0.000*	0	103	103	11458.5212		
1		8720.640	2	23413.710	-	32134.354	-4			4.0-	3.0				0.000	0.000*	0	-099	-98	11463.9098		
1		8713.301	2	20043.465	-	28756.769	-3			5.0-	5.0				0.925	1.165	240	-040	-41	11473.5656		
1		8712.970	1	21420.983	-	30133.953	0			3.0-	3.0				1.663	1.200*	463		-63	11474.0014		
1		8712.693	4	21263.339	-	29976.039	-7			5.0-	4.0				0.610	1.070*	460	107	107	11474.3662		
		8711.605	3																		11475.7993	
		8711.194	2																		11476.3407	2LNS
1		8711.194	2	21603.247	-	30314.443	-2			2.0-	3.0				0.060	1.140*	1080	-179	-145	11476.3407	2LNS	
1		8710.416	2	22656.777	-	31377.193	0			3.0-	4.0				0.977	0.973	4	-152	-148	11477.3658		
1		8709.153	5	18602.505	-	27311.658	0			6.0-	5.0				0.910	1.035	125	146	146	11479.0302		
1		8703.797	3	14853.317	-	6144.515	-5			4.0-	3.0				0.786	1.473	687	130	113	11479.4994	ISQ CQ	
1		8707.243	3	22307.633	-	31014.877	-1			3.0-	4.0				1.434	1.170	264	-020	-22	11481.5482	IS*	
1		8704.956	4	18963.921	-	27668.890	-3			4.0-	5.0				1.251	1.312	61	-267	-262	11484.5515		
1		8703.712	2	21218.180	-	29921.859	-7			3.0-	2.0				0.860	1.070*	210	-246	-258	11486.2062		
1		8703.137	2	27216.453	-	35919.595	0			5.0-	5.0				1.180	1.120*	60		-13	11486.9650		
1		8700.002	2	18397.584	-	27597.590	-4			5.0-	4.0				1.280	0.930	350	-105	-110	11491.1043		
1		8698.500	2	16734.151	-	25432.655	-4			2.0-	2.0				0.928	1.281	353	40	29	11493.0835	IS*	
1		8691.745	4	19426.512	-	28118.262	-5			3.0-	3.0				1.435	1.250*	185	081	79	11502.0207		
1		8689.977	2	23413.710	-	32103.687	0			4.0-	4.0				0.000	1.040*	0	-083	-85	11504.3608		
1		8639.903	1	26644.150	-	35354.050	3			6.0-	7.0				1.135	0.000*	0		47	11504.4588		
1		8689.689	3	20043.465	-	28733.159	-5			5.0-	4.0				0.925	1.035	110	125	129	11504.7421		
1		8689.494	2	21515.136	-	30204.635	-5			1.0-	1.0				1.180	0.590*	590	-132	-126	11505.0003		
		8683.235	2																		11506.6012	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	8625.083	2	24347.551-33033.638	-4	.	.	.	3.0-	3.0	.	.	.	1.300	0.910*	390		-47	11509.5183	
1	8685.708	3	26009.000-17323.291	-1	.	.	.	3.0-	4.0	.	.	.	0.870	1.250*	380	165	166	11510.0152	
1	8685.610	4	20984.195-29669.807	-2	.	.	.	6.0-	6.0	.	.	.	1.319	1.150	169	-168	-168	11510.1451	
1	8679.127	5	20790.684-29669.807	4	.	.	.	5.0-	6.0	.	.	.	1.308	1.150	158	-154	-151	11518.7427	
1	8678.396	3	21973.645-30677.044	-3	.	.	.	7.0-	8.0	.	.	.	1.269	1.245	24	-329	-326	11519.7130	
1	8677.792	2	23735.353-32413.146	-1	.	.	.	2.0-	3.0	.	.	.	0.935	0.995*	60	-061	-64	11520.5148	
1	8676.570	5	16532.104-25203.672	2	.	.	.	3.0-	2.0	.	.	.	0.300	0.490	190	162	161	11522.1373	
1	8675.939	5	22083.306-30764.244	1	.	.	.	6.0-	6.0	.	.	.	1.060	0.975	85	0	1	11522.9753	IS*
1	8675.101	2	20055.327-28740.433	-5	.	.	.	3.0-	3.0	.	.	.	0.998	0.970	28	-270	-271	11524.0885	
1	8674.740	3	23207.126-31081.871	-5	.	.	.	8.0-	7.0	.	.	.	1.135	1.120	15	075	77	11524.5680	
1	8669.369	2	21703.960-30373.329	0	.	.	.	5.0-	4.0	.	.	.	1.120	1.345	225		-294	11531.7079	
1	8669.011	5	12159.465-20328.475	1	.	.	.	4.0-	4.0	.	.	.	0.844	0.352	492	-192	-190	11532.1842	
1	8665.213	2	26301.732-34956.946	-1	.	.	.	5.0-	4.0	.	.	.	1.060	1.025*	35	-098	-100	11537.2388	
1	8659.112	1	18897.584-10235.473	1	.	.	.	5.0-	6.0	.	.	.	1.280	1.431	151	192	186	11545.3677	IS*
1	8658.830	2	26664.150-35323.031	-1	.	.	.	6.0-	6.0	.	.	.	1.135	1.090	45	-025	-26	11545.6770	IS*
2	8657.923	3	25403.645-16745.720	-2	.	.	.	2.5-	2.5	.	.	.	1.029	1.671	642	350	346	11546.9532	
1	8657.652	3	21737.407-30395.062	-3	.	.	.	3.0-	4.0	.	.	.	1.026	0.920	106	056	54	11547.3146	
1	8657.244	3	22719.949-31377.193	0	.	.	.	4.0-	4.0	.	.	.	1.070	0.973	97	36	38	11547.8588	IS*
1	8656.045	2	25681.552-34337.597	0	.	.	.	7.0-	7.0	.	.	.	1.039	1.340*	301	-308	-319	11549.4584	
1	8654.503	4	19074.292-27728.796	-1	.	.	.	2.0-	3.0	.	.	.	1.532	1.060	472	079	80	11551.5162	
1	8653.047	4	20984.195-29637.242	0	.	.	.	6.0-	6.0	.	.	.	1.319	1.020	299	-207	-208	11553.4599	
1	8652.894	1	24216.272-32869.165	1	.	.	.	6.0-	5.0	.	.	.	1.005	0.916	89	-223	-223	11553.6642	
1	8649.512	1	27301.233-35950.800	0	.	.	.	4.0-	3.0	.	.	.	0.985	1.005	20			11558.1818	C2
1	8649.512	1	22307.633-30957.140	5	.	.	.	3.0-	2.0	.	.	.	1.434	0.980	454		-111	11558.1818	C2
1	8648.865	5	20597.436-29346.299	2	.	.	.	7.0-	7.0	.	.	.	1.250	1.200*	50	-072	-70	11559.0464	
1	8648.072	4	22176.323-13528.246	-5	.	.	.	1.0-	1.0	.	.	.	1.210	0.590*	1800	180	181	11560.1063	
1	8646.856	4	16304.260-24951.118	-2	.	.	.	4.0-	3.0	.	.	.	1.285	0.840	445	-040	-39	11561.7320	IS*
1	8646.698	1	26606.405-35253.102	1	.	.	.	5.0-	5.0	.	.	.	1.130	1.110*	20		-74	11561.9433	
1	8646.556	4	20990.684-29637.242	-2	.	.	.	5.0-	6.0	.	.	.	1.308	1.020	288	-192	-191	11562.1332	
1	8645.806	2	24534.240-33180.043	3	.	.	.	2.0-	2.0	.	.	.	0.000	1.790*	0	12	-16	11563.1362	IS*
1	8645.284	2	18977.584-27542.874	-6	.	.	.	5.0-	5.0	.	.	.	1.280	1.270*	10	-280	-283	11563.8343	
	8641.253	3			.	.	.			.	.	.				-114		11569.2220	
1	8640.952	2	22982.904-14341.947	-5	.	.	.	2.0-	2.0	.	.	.	1.257	0.852	405	336	338	11569.6317	
1	8640.678	2	20709.453-29350.139	-3	.	.	.	3.0-	3.0	.	.	.	1.240	0.910	330		40	11569.9986	
1	8639.242	4	18672.411-27311.658	-5	.	.	.	6.0-	5.0	.	.	.	1.190	1.035*	155	-083	-85	11571.9217	
1	8638.463	2	21337.573-29976.039	-3	.	.	.	4.0-	4.0	.	.	.	1.137	1.070	67	-107	-109	11572.9653	
1	8634.413	2	21737.407-30371.819	1	.	.	.	3.0-	3.0	.	.	.	1.026	0.640	386	-045	-44	11578.3936	
	8634.051	2H			.	.	.			.	.	.						11578.8657	
1	8634.025	2H	24970.474-33604.497	2	.	.	.	4.0-	3.0	.	.	.	1.460	1.210*	250		45	11578.9139	
1	8633.666	2	18963.921-27597.590	-3	.	.	.	4.0-	4.0	.	.	.	1.251	0.930	321	-098	-93	11579.3954	
1	8632.945	2	29083.272-37721.235	-18	.	.	.	3.0-	4.0	.	.	.	1.005	1.180	175	-63	-63	11580.3625	
1	8631.346	2	19865.603-28496.950	-1	.	.	.	4.0-	4.0	.	.	.	1.100	0.810	290	-196	-193	11582.5078	
1	8629.680	1	28951.847-20322.165	-2	.	.	.	5.0-	6.0	.	.	.	1.290	1.360*	70	153	145	11584.7439	
1	8629.155	2H	24742.092-33371.251	-4	.	.	.	4.0-	3.0	.	.	.	0.980	1.113*	133		-21	11585.4487	
1	8628.722	5	16532.104-25160.827	-1	.	.	.	3.0-	3.0	.	.	.	0.300	0.800	500	189	188	11586.0301	
1	8628.453	3	25499.501-34127.955	-1	.	.	.	9.0-	8.0	.	.	.	1.200	1.185	15	102	98	11586.3913	ISQ
	8627.371	2			.	.	.			.	.	.				142		11587.8444	
1	8626.833	2	23565.887-19939.052	-2	.	.	.	2.0-	3.0	.	.	.	0.911	0.000*	0	103	105	11588.5670	
1	8626.699	2	23814.130-32440.827	2	.	.	.	6.0-	6.0	.	.	.	0.890	1.120*	230	8	4	11588.7470	IS*
1	8624.923	4	16304.260-24929.184	-1	.	.	.	4.0-	4.0	.	.	.	1.285	1.080	205	-156	-156	11591.1333	
1	8624.238	1	25100.598-33724.837	-1	.	.	.	2.0-	3.0	.	.	.	1.430	1.160	270	8	8	11592.0540	IS*
1	8623.434	2	25959.849-17336.413	-2	.	.	.	1.0-	0.0	.	.	.	1.037	0.000	0		184	11593.1348	
1	8621.857	2	19496.402-28118.262	-3	.	.	.	3.0-	3.0	.	.	.	1.555	1.250*	305	-036	-34	11595.2553	IS*
	8618.457	1			.	.	.			.	.	.						11599.8296	
1	8617.943	3	24733.061-33351.007	-3	.	.	.	7.0-	6.0	.	.	.	1.275	1.240*	35	-056	-56	11600.5215	

C	HA	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	8617.408	3	16304.260-24921.671	-3	.	.	.	4.0-	5.0	.	.	.	.	.	1.285	1.034	251	-111	-109	11601.2417	
1	8614.854	3	22377.589-30992.449	4	.	.	.	7.0-	7.0	.	.	.	.	.	1.076	1.210*	134	-151	-148	11604.6810	
1	8613.560	3	16595.109-25208.672	-3	.	.	.	3.0-	2.0	.	.	.	.	.	0.999	0.490	509	-012	-10	11606.4244	IS*
1	8612.914	2	21603.247-30216.163	-2	.	.	.	2.0-	2.0	.	.	.	.	.	0.060	1.143*	1033	-061	-66	11607.2949	IS*
1	8612.766	3	13726.661-22339.429	-2	.	.	.	3.0-	2.0	.	.	.	.	.	1.150	1.049	101	-179	-180	11607.4944	
1	8612.219	2	22429.984-31042.204	-1	.	.	.	4.0-	3.0	.	.	.	.	.	1.279	1.010	269	138	140	11608.2316	
1	8609.511	2	18046.108-26655.622	-3	.	.	.	4.0-	3.0	.	.	.	.	.	0.694	1.015	321	44	47	11611.8828	
1	8608.930	3	19059.958-27668.890	-2	.	.	.	5.0-	5.0	.	.	.	.	.	1.375	1.312	63	-278	-279	11612.6665	
1	8601.902	2	24347.551-15745.648	-1	.	.	.	3.0-	3.0	.	.	.	.	.	1.300	1.145*	155	183	181	11622.1544	
1	8601.336	2	21603.247-30204.635	-2	.	.	.	2.0-	1.0	.	.	.	.	.	0.060	0.590*	530	-047	-53	11622.8516	
1	8599.595	2	32073.180-23473.585	0	.	.	.	7.0-	6.0	.	.	.	.	.	0.000	0.000*	0	132	137	11625.2723	
1	8598.570	5	16155.109-24753.684	-5	.	.	.	5.0-	4.0	.	.	.	.	.	0.948	0.975	27	-177	-179	11626.6581	
	8598.296	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	11627.0286	
1	8598.213	2	22181.368-30779.585	-4	.	.	.	3.0-	3.0	.	.	.	.	.	0.780	0.860*	80		24	11627.1408	
1	8597.460	2	23413.710-32011.173	-3	.	.	.	4.0-	3.0	.	.	.	.	.	0.000	1.140*	0	-069	-75	11628.1592	
1	8596.254	2	26150.730-34746.981	3	.	.	.	8.0-	8.0	.	.	.	.	.	0.000	0.000*	0	119	121	11629.7905	
1	8595.390	1	21420.983-30016.377	-4	.	.	.	3.0-	2.0	.	.	.	.	.	1.663	1.140	523	-116	-119	11630.9595	
	8594.456	2			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	11632.2235	ZLNS
1	8594.456	2	26575.338-35169.790	4	.	.	.	7.0-	6.0	.	.	.	.	.	1.150	1.120*	30	-119	-119	11632.2235	ZLNS
	8594.105	1			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	11632.6986	
1	8593.744	2	21031.258-29625.003	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.455	0.910*	545	119	122	11633.1873	
1	8593.272	4	14737.788- 6144.515	-1	.	.	.	3.0-	3.0	.	.	.	.	.	0.815	1.473	658	187	187	11633.8263	
1	8592.916	2	20697.436-29290.355	-3	.	.	.	7.0-	6.0	.	.	.	.	.	1.250	0.920	330	-198	-199	11634.3082	IS*
1	8592.778	2	25916.069-17323.291	0	.	.	.	3.0-	4.0	.	.	.	.	.	1.350	1.250*	100	109	108	11634.4951	
1	8592.585	2	17500.977-26093.563	-1	.	.	.	1.0-	1.0	.	.	.	.	.	2.258	-0.082	2340	-	-17	11634.7564	
1	8592.219	1	19059.958-27652.180	-3	.	.	.	5.0-	6.0	.	.	.	.	.	1.375	1.250	125		-394	11635.2520	
1	8592.027	2	21998.645-30590.673	-1	.	.	.	7.0-	6.0	.	.	.	.	.	1.269	0.000*	0	-373	-372	11635.5120	
1	8591.754	2	24759.250-33351.007	-3	.	.	.	6.0-	6.0	.	.	.	.	.	1.098	1.240*	142	-008	-10	11635.8817	IS*
2	8591.048	2	19317.370-10726.322	0	.	.	.	4.5-	4.5	.	.	.	.	.	1.225	1.391	166		182	11636.8380	
1	8590.286	3	23814.130-32404.416	0	.	.	.	6.0-	5.0	.	.	.	.	.	0.890	1.055	165	083	83	11637.8702	
1	8583.953	2	26664.150-35253.102	1	.	.	.	6.0-	5.0	.	.	.	.	.	1.135	1.110*	25	-083	-85	11639.6764	
1	8587.307	2	26894.711-35482.018	0	.	.	.	3.0-	3.0	.	.	.	.	.	1.465	1.679	214	-113	-111	11641.9075	
1	8586.462	2	26301.732-34883.198	-4	.	.	.	5.0-	5.0	.	.	.	.	.	1.060	1.070*	10	4	3	11643.0532	IS*
1	8586.116	2	27124.898-12538.782	0	.	.	.	2.0-	2.0	.	.	.	.	.	1.190	1.600*	410	149	149	11643.5224	IS*
1	8584.420	1	21812.682-30397.106	-4	.	.	.	4.0-	5.0	.	.	.	.	.	1.040	1.005	35	60	60	11645.8227	
1	8582.379	4	21812.682-30395.062	-1	.	.	.	4.0-	4.0	.	.	.	.	.	1.040	0.920	120	-016	-17	11648.5923	IS*
1	8580.787	2	21737.407-30318.195	-1	.	.	.	3.0-	2.0	.	.	.	.	.	1.026	0.940	86		17	11650.7535	
1	8580.628	3	20769.512-29350.139	1	.	.	.	2.0-	3.0	.	.	.	.	.	1.070	0.910*	160	100	96	11650.9693	IS*
1	8578.948	4	18963.921-27542.874	-5	.	.	.	4.0-	5.0	.	.	.	.	.	1.251	1.270*	19	-272	-266	11653.2509	
1	8577.666	4	19558.257-28135.924	-1	.	.	.	2.0-	2.0	.	.	.	.	.	-0.145	1.101	1246	-118	-119	11654.9926	
1	8577.030	3	22509.712-31086.744	-2	.	.	.	5.0-	5.0	.	.	.	.	.	1.287	0.795	492		21	11655.8569	
1	8574.848	3	30131.388-21555.538	-2	.	.	.	3.0-	4.0	.	.	.	.	.	1.232	1.290	58	141	141	11658.8229	
1	8573.214	2	17081.874-25655.090	-2	.	.	.	4.0-	4.0	.	.	.	.	.	1.217	1.165	52	-239	-289	11661.0450	
1	8571.648	2	17500.977-25072.627	-2	.	.	.	1.0-	2.0	.	.	.	.	.	2.258	1.500*	758	-240	-230	11663.1754	
1	8570.528	2	25828.024-34398.550	2	.	.	.	4.0-	4.0	.	.	.	.	.	1.310	0.870*	440	41	81	11664.6995	IS*
1	8570.448	2	24816.699-33387.151	-4	.	.	.	2.0-	2.0	.	.	.	.	.	1.165	1.288	123	-040	-49	11664.8084	IS*
1	8566.225	1	27909.524-19343.298	0	.	.	.	4.0-	3.0	.	.	.	.	.	1.270	1.135*	135	178	188	11670.5576	IS*
1	8565.715	3	16595.109-25160.827	-3	.	.	.	3.0-	3.0	.	.	.	.	.	0.999	0.800	199	20	17	11671.2539	IS*
1	8561.653	5	11840.715-20402.369	-1	.	.	.	3.0-	3.0	.	.	.	.	.	0.811	1.265*	454	-144	-143	11676.7912	
1	8559.842	2	22219.737-30779.585	-6	.	.	.	4.0-	3.0	.	.	.	.	.	0.750	0.860	110	+	49	11679.2616	
1	8559.039	3	27415.500-18856.461	0	.	.	.	5.0-	5.0	.	.	.	.	.	1.370	1.325*	45	104	103	11680.3574	
1	8558.032	2	23766.136-32324.169	-1	.	.	.	1.0-	0.0	.	.	.	.	.	2.162	0.000	0	170	170	11681.7318	
1	8557.520	1	24903.894-33461.419	-5	.	.	.	3.0-	3.0	.	.	.	.	.	0.915	0.950*	35	-219	-223	11682.4307	IS*
1	8556.743	3	15249.635-23806.381	-3	.	.	.	2.0-	1.0	.	.	.	.	.	0.715	0.094	621	-125	-127	11683.4915	
1	8553.935	3	22416.990-30970.926	-1	.	.	.	2.0-	1.0	.	.	.	.	.	1.675	0.295	1380	076	76	11687.3269	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	HAVELENGTH	NOTES
1	8548.432	2	28174.233-36722.663	2	0	-	-	9.0- 9.0					0.000	1.110*	0	-032	-25	11694.8505	
1	8548.034	2	14692.549- 6144.515	0	0	-	-	2.0- 3.0					0.292	1.473	1181	200	188	11695.3951	
1	8547.256	2	20425.711-28972.971	-4	0	-	-	1.0- 2.0					1.340	0.794	546	057	56	11696.4596	
1	8547.045	3	21307.390-29854.442	-7	0	-	-	1.0- 1.0					2.360	1.180*	1180	-008	-5	11696.7484	IS*
1	8546.544	3	15406.760-23953.307	-3	0	-	-	1.0- 2.0					0.890	1.265	375	-319	-322	11697.4340	
1	8546.454	2	22368.619-20322.165	0	0	-	-	5.0- 6.0					1.085	1.360*	275	211	208	11697.5572	
1	8546.296	4	19426.512-27972.815	-7	0	-	-	3.0- 4.0					1.435	0.979	456	28	27	11697.7735	IS*
1	8542.063	3	15424.337-23966.450	0	0	-	-	3.0- 3.0					1.106	0.760	346	-159	-159	11703.5703	
1	8541.640	4	16734.151-25275.795	-4	0	-	-	2.0- 1.0					0.928	0.706	222	-032	-30	11704.1499	IS*
1	8540.365	3	24816.699-16276.332	-2	0	-	-	2.0- 2.0					1.165	1.880*	715	167	166	11705.8972	
1	8539.593	3	19203.415-27743.009	-1	0	-	-	2.0- 2.0					1.021	0.568	453	5	2	11706.9555	IS*
1	8538.420	2	22666.777-31205.200	-3	0	-	-	3.0- 2.0					0.977	1.090*	113	-117	-117	11708.5638	
1	8537.689	3	13517.647-22055.339	-3	0	-	-	2.0- 3.0					0.892	0.000*	0	-383	-384	11709.5662	
1	8537.000	5	8768.139-17305.142	-3	0	-	-	2.0- 2.0					0.362	0.000*	0	-155	-155	11710.5113	
1	8534.136	2	22818.840-31352.983	-7	0	-	-	6.0- 7.0					1.335	0.000*	0	-227	-224	11714.4413	
1	8531.868	3	22666.777-31198.642	3	0	-	-	3.0- 3.0					0.977	1.070	93	-074	-72	11717.5553	2LNS
1	8531.868	3	23470.960-19939.052	-40	0	-	-	2.0- 3.0					1.104	0.000*	0	116	104	11717.5553	2 LNS
1	8530.613	2	24759.250-33289.869	-6	0	-	-	6.0- 5.0					1.098	1.095	3	-099	-104	11719.2792	
1	8529.736	2	27068.524-18538.782	-6	0	-	-	3.0- 2.0					0.960	1.600	640	257	259	11720.4841	IS*
1	8529.604	3	16304.260- 7774.653	-3	0	-	-	4.0- 4.0					1.285	1.463	178	189	189	11720.6655	
1	8527.333	2	21031.258-29558.591	0	0	-	-	2.0- 2.0					1.455	1.030	425	-072	-71	11723.7869	
	8524.840	2																11727.2154	
1	8523.892	3	22518.312-31042.204	0	0	-	-	2.0- 3.0					1.350	1.010	340	156	154	11728.5197	
1	8517.400	2	23895.741-32413.146	-5	0	-	-	2.0- 3.0					-0.100	0.995*	1095		-63	11737.4593	
1	8515.859	2	22160.184-30677.044	-1	0	-	-	8.0- 8.0					1.230	1.245	15	-345	-343	11738.2048	
1	8515.097	3	23550.352-32066.452	-3	0	-	-	3.0- 2.0					1.090	0.910*	180	-012	-13	11739.2551	IS*
1	8515.620	2	20530.616-29346.299	-3	0	-	-	8.0- 7.0					1.110	1.200*	90	-079	-79	11739.8300	
1	8513.176	3	21600.100-30113.280	-4	0	-	-	6.0- 6.0					1.390	1.050	340	-129	-129	11743.2831	
1	8512.270	2	24456.635-32968.906	-1	0	-	-	3.0- 4.0					1.000	1.115*	115	-012	-10	11744.5330	
1	8510.128	2	28289.640-19779.507	-5	0	-	-	3.0- 4.0					1.130	0.000*	0	212	211	11747.4891	
1	8510.087	1	22429.984-30940.068	3	0	-	-	4.0- 5.0					1.279	1.080	199	132	137	11747.5457	
1	8509.015	2	23763.470-32272.487	-2	0	-	-	4.0- 3.0					0.970	0.000*	0	-153	-154	11749.0257	
1	8504.732	4	25828.024-17323.291	-1	0	-	-	4.0- 4.0					1.310	1.250*	60	099	99	11754.9425	
1	8504.166	3	18602.505-27106.673	-2	0	-	-	6.0- 6.0					0.910	1.040	130	113	114	11755.7249	
1	8503.822	6	16155.109-24658.931	0	0	-	-	5.0- 4.0					0.948	1.080	132	-066	-68	11756.2004	
	8503.144	3																11757.1378	
	8499.654	1																11761.9654	
1	8499.551	3	20769.512-29269.059	4	0	-	-	2.0- 1.0					1.070	1.110*	40	089	87	11762.1079	
2	8496.329	2	27162.335-18666.006	0	0	-	-	1.5- 2.5					1.046	1.365	319	203	203	11766.5684	
1	8496.032	3	19074.292-27570.322	2	0	-	-	2.0- 3.0					1.532	1.265	267	-140	-140	11766.9797	
1	8495.200	4	19855.603-28360.802	1	0	-	-	4.0- 3.0					1.100	0.887	213	-122	-121	11768.1321	
1	8494.651	2	22219.737-30714.385	3	0	-	-	4.0- 4.0					0.750	1.150	400	140	137	11768.8927	IS*
1	8494.429	3	12177.963-20672.390	2	0	-	-	1.0- 1.0					0.525	0.000*	0	-419	-422	11769.2003	
1	8494.322	2	12177.963-20672.283	2	0	-	-	1.0- 2.0					0.525	1.430*	905	-418	-419	11769.3485	
	8488.739	2																11777.0892	IS*
1	8485.455	3	23814.130-32299.581	4	0	-	-	6.0- 5.0					0.890	0.000*	0	-012	-12	11781.6471	
	8484.383	2																11783.1357	
1	8483.329	2	26150.730-34634.053	6	0	-	-	8.0- 8.0					0.000	0.000*	0	016	16	11784.5997	
1	8482.915	4	19059.958-27542.874	-1	0	-	-	5.0- 5.0					1.375	1.270*	105	-282	-283	11785.1748	
	8482.202	2																11786.1655	
1	8480.481	2	19496.402-27976.831	2	0	-	-	3.0- 3.0					1.555	1.080	475	-151	-148	11788.5573	
1	8478.036	2	17615.482-26093.563	5	0	-	-	2.0- 1.0					1.450	-0.082	1532	-085	-90	11791.8875	
1	8477.039	2	26283.495-34760.532	2	0	-	-	7.0- 6.0					1.080	1.140*	60	077	81	11793.3439	
1	8475.107	3	24751.439-16276.332	0	0	-	-	1.0- 2.0					0.647	1.880*	1233	225	225	11796.0324	
1	8474.523	1	16734.151-25208.672	2	0	-	-	2.0- 2.0					0.928	0.490	438	-036	-34	11796.8453	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	8473.559	2	25839.917-34313.475			1	.	.	6.0-	6.0	.	.	.	1.250	1.030*	220	-	-29	11798.1874	C2
1	8473.559	2	22176.323-30649.882			0	.	.	1.0-	0.0	.	.	.	1.210	0.000*	0	-	-13	11798.1874	C2
1	8470.807	1	24742.092-33212.897			2	.	.	4.0-	4.0	.	.	.	0.980	1.110*	130	20	19	11802.0204	IS*
1	8469.457	3	22982.904-31452.362			-1	.	.	2.0-	1.0	.	.	.	1.257	0.852	405	-020	-16	11803.9016	IS*
1	8469.378	2	20540.110-29009.483			5	.	.	3.0-	4.0	.	.	.	0.830	0.695*	135		61	11804.0117	
1	8468.698	2	20877.600-29346.299			-1	.	.	7.0-	7.0	.	.	.	1.060	1.200*	140	161	155	11804.9595	
1	8466.478	2	24012.505-32478.986			-3	.	.	6.0-	6.0	.	.	.	1.248	1.110	138	-211	-212	11808.0549	
1	8465.164	1	24824.706-33289.869			1	.	.	4.0-	5.0	.	.	.	1.145	1.095	50	-047	-49	11809.8878	IS*
1	8463.695	2	19059.958-27523.650			3	.	.	5.0-	6.0	.	.	.	1.375	1.080	295	-115	-117	11811.9376	IS*
1	8461.095	2	19281.917-27743.009			3	.	.	2.0-	2.0	.	.	.	1.822	0.568	1254	-012	-4	11815.5672	IS*
1	8461.011	1	19865.603-28326.610			4	.	.	4.0-	4.0	.	.	.	1.100	1.260*	160		-320	11815.6846	
1	8460.823	2	23550.352-32011.173			2	.	.	3.0-	3.0	.	.	.	1.090	1.140*	50	067	60	11815.9471	
1	8459.050	2	18578.669-27037.718			1	.	.	1.0-	2.0	.	.	.	1.932	1.300*	632	-089	-85	11818.4237	
1	8456.704	3	21703.960-30160.664			0	.	.	5.0-	4.0	.	.	.	1.120	1.030	90	-165	-165	11821.7023	
1	8452.616	3	22518.312-30970.926			2	.	.	2.0-	1.0	.	.	.	1.350	0.295	1055	072	68	11827.4197	
1	8449.426	2	16304.260-24753.684			2	.	.	4.0-	4.0	.	.	.	1.285	0.975	310	-172	-183	11831.8851	
1	8449.022	3	17911.977-26360.997			2	.	.	5.0-	5.0	.	.	.	1.145	0.796	349	-244	-247	11832.4508	
1	8446.832	2	19281.917-27728.796			3	.	.	2.0-	3.0	.	.	.	1.822	1.060	762	-104	-99	11835.4486	
1	8444.835	1	27301.288-18856.461			8	.	.	4.0-	5.0	.	.	.	0.985	1.325	340	211	209	11838.3174	
1	8444.542	2	30995.841-22551.302			3	.	.	2.0-	3.0	.	.	.	1.470	0.000*	0	126	135	11838.7282	
1	8441.911	2	25100.598-33542.506			3	.	.	2.0-	2.0	.	.	.	1.430	1.123	307	16	10	11842.4178	IS*
1	8439.005	3	17911.977-26350.982			0	.	.	5.0-	4.0	.	.	.	1.145	0.796	349	-149	-147	11846.4958	
1	8438.600	2	23578.836-32017.434			2	.	.	5.0-	4.0	.	.	.	1.120	1.020*	100	-043	-48	11847.0644	IS*
1	8435.274	1	28214.784-19779.507			-3	.	.	3.0-	4.0	.	.	.	0.905	0.000*	0	160	160	11851.7357	
1	8435.083	2	24816.699-33251.780			2	.	.	2.0-	2.0	.	.	.	1.165	1.465	300	20	28	11852.0040	IS*
1	8434.263	3	18672.411-27106.673			1	.	.	6.0-	6.0	.	.	.	1.190	1.040*	150	-118	-117	11853.1563	
1	8433.957	2	19203.415-27637.377			-5	.	.	2.0-	1.0	.	.	.	1.021	1.280	259	-202	-201	11853.5864	
1	8432.862	2	20540.110-28972.971			1	.	.	3.0-	2.0	.	.	.	0.830	0.794*	36	32	31	11855.1255	IS*
1	8431.624	2	20065.327-28496.950			1	.	.	3.0-	4.0	.	.	.	0.998	0.810	188	-207	-202	11856.8662	
1	8430.355	2	22509.712-30940.058			-1	.	.	5.0-	5.0	.	.	.	1.287	1.080	207	-036	-33	11858.6510	IS*
1	8429.960	3	18046.108-26476.058			0	.	.	4.0-	4.0	.	.	.	0.694	1.605	911	-169	-169	11859.2067	
	8429.613	2					.	.			.	.	.						11859.6948	
1	8428.797	2	24381.050-32809.844			3	.	.	5.0-	4.0	.	.	.	1.450	0.900*	550	61	61	11860.8430	
1	8426.676	4	16734.151-25160.827			0	.	.	2.0-	3.0	.	.	.	0.928	0.800	128	-012	-7	11863.8284	IS*
1	8423.261	3	21737.407-30160.664			4	.	.	3.0-	4.0	.	.	.	1.026	1.030	4	062	62	11868.6383	
1	8419.016	5	16532.104-24951.118			2	.	.	3.0-	3.0	.	.	.	0.300	0.840	540	176	175	11874.6226	
1	8414.930	3	23037.432-31452.362			0	.	.	1.0-	1.0	.	.	.	0.870	0.852	18	-068	-68	11880.3886	
1	8414.329	4	22705.158-31119.494			-7	.	.	1.0-	2.0	.	.	.	-0.020	0.814*	834	-036	-38	11881.2371	
1	8414.074	3	18897.584-27311.658			0	.	.	5.0-	5.0	.	.	.	1.280	1.035	245	-087	-89	11881.5972	
	8412.943	2					.	.			.	.	.				104		11883.1945	
1	8412.756	3	20877.600-29290.355			1	.	.	7.0-	6.0	.	.	.	1.060	0.920*	140	+	26	11883.4587	
1	8412.628	6	19558.257-27970.881			4	.	.	2.0-	2.0	.	.	.	-0.145	0.194	339	28	26	11883.6395	IS*
1	8412.270	2	25192.231-33504.497			4	.	.	4.0-	3.0	.	.	.	1.768	1.210	558		202	11884.1452	
1	8408.474	1	20385.328-28793.800			2	.	.	2.0-	3.0	.	.	.	1.911	1.083	828		-34	11889.5103	
1	8403.224	4	16520.962-24929.184			2	.	.	5.0-	4.0	.	.	.	0.736	1.080	344	062	62	11889.8638	
1	8407.919	1	24347.551-32755.472			-2	.	.	3.0-	4.0	.	.	.	1.300	1.005*	295	-098	-93	11890.2951	
1	8405.919	3	19426.512-27332.430			1	.	.	3.0-	4.0	.	.	.	1.435	0.920	515	20	20	11893.1242	IS*
1	8405.668	2	26341.320-34746.981			7*	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	-036	-38	11893.4793	IS*
1	8403.395	2	18046.108-26449.501			2	.	.	4.0-	3.0	.	.	.	0.694	0.940*	246	-045	-46	11896.6963	
1	8401.173	2	29073.454-20672.283			2	.	.	1.0-	2.0	.	.	.	1.356	1.430*	74	203	193	11899.8429	
	8400.959	2					.	.			.	.	.						11900.1460	
1	8400.769	3	16520.962-24921.671			0	.	.	5.0-	5.0	.	.	.	0.736	1.034	298	106	109	11900.5001	
1	8399.619	1	15406.760-23806.381			-2	.	.	1.0-	1.0	.	.	.	0.890	0.094	796	-043	-56	11902.0444	
1	8399.004	2	25735.353-32134.354			3	.	.	2.0-	3.0	.	.	.	0.935	0.000*	0	040	39	11902.9159	
	8398.817	2					.	.			.	.	.				47		11903.1810	IS*

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	8397.734	1	21812.682-30210.416	0	.	.	.	4.0	4.0	.	.	.	.	.	1.040	1.160*	120	-076	-79	11904.7160	
1	8397.083	3	16532.104-24929.184	3	.	.	.	3.0	4.0	.	.	.	.	.	0.300	1.080	780	058	58	11905.6390	
	8395.857	2																-187		11907.3775	
	8394.736	4																-069		11908.9676	IS*
1	8394.154	2H	23416.666-31810.821	-1	.	.	.	2.0	2.0	.	.	.	.	.	1.320	0.865*	455	43	42	11909.7933	IS*
1	8393.542	2	20554.712-29018.255	-1	.	.	.	1.0	1.0	.	.	.	.	.	0.200	0.900	700	000	-2	11910.6616	
1	8391.614	2	16734.151-25125.763	2	.	.	.	2.0	1.0	.	.	.	.	.	0.928	0.314	614	-020	-21	11913.3982	IS*
1	8390.149	2	26150.730-34540.830	-1*	.	.	.	8.0	8.0	.	.	.	.	.	0.000	1.270*	0	-042	-52	11915.4784	IS*
1	8389.046	2	14763.705-23152.755	-4	.	.	.	1.0	2.0	.	.	.	.	.	-0.066	0.580	646	-418	-413	11917.0450	
1	8388.421	2	24090.570-32478.986	5	.	.	.	7.0	6.0	.	.	.	.	.	1.130	1.110	20	-076	-76	11917.9329	
1	8386.879	3	17045.776-25432.655	0	.	.	.	1.0	2.0	.	.	.	.	.	1.474	1.281	193	289	289	11920.1241	
1	8384.993	4	18046.108-26431.101	0	.	.	.	4.0	3.0	.	.	.	.	.	0.694	0.807	113	-032	-30	11922.8053	IS*
1	8380.456	3	16155.109-7774.653	0	.	.	.	5.0	4.0	.	.	.	.	.	0.948	1.463	515	185	185	11929.2601	
1	8379.143	4	21703.960-30083.102	1	.	.	.	5.0	5.0	.	.	.	.	.	1.120	1.150*	30	-196	-196	11931.1294	
1	8377.016	3	24653.345-16276.332	3	.	.	.	1.0	2.0	.	.	.	.	.	0.850	1.880*	1020	221	221	11934.1588	
1	8373.905	2	21263.339-29637.242	2	.	.	.	5.0	6.0	.	.	.	.	.	0.610	1.020*	410	078	75	11938.5925	
1	8373.088	2	22088.306-30461.399	-5	.	.	.	6.0	5.0	.	.	.	.	.	1.060	0.990	70	32	32	11939.7974	IS*
1	8370.888	3	23763.470-32134.354	4	.	.	.	4.0	3.0	.	.	.	.	.	0.970	0.000*	0	-062	-62	11942.8953	
1	8369.331	5	25499.501-33868.834	-2	.	.	.	9.0	9.0	.	.	.	.	.	1.200	1.165	35	-020	-16	11945.1172	IS*
1	8366.797	1	22719.949-31036.744	2	.	.	.	4.0	5.0	.	.	.	.	.	1.070	0.795	275	203	200	11948.7349	
2	8364.163	2	25403.645-17039.487	5	.	.	.	2.5	1.5	.	.	.	.	.	1.029	1.354	325	346	346	11952.4978	
1	8364.016	1H	25681.552-34045.560	8	.	.	.	7.0	7.0	.	.	.	.	.	1.039	1.170*	131	-138	-138	11952.7078	C2
1	8364.016	1H	18602.505-10238.473	-16	.	.	.	6.0	6.0	.	.	.	.	.	0.910	1.431	521	-49	-49	11952.7078	C2
1	8363.945	3	17615.482-25979.424	3	.	.	.	2.0	1.0	.	.	.	.	.	1.450	1.260	190	-212	-212	11952.8093	
1	8362.819	4	22181.368-30544.187	0	.	.	.	3.0	3.0	.	.	.	.	.	0.780	0.946*	166	057	56	11954.4187	
1	8362.109	3	20934.195-29346.299	5	.	.	.	6.0	7.0	.	.	.	.	.	1.319	1.200*	119	-075	-74	11955.4337	
1	8360.000	3	27216.458-18856.461	3	.	.	.	5.0	5.0	.	.	.	.	.	1.180	1.325*	145	325	325	11958.4497	
1	8358.427	2	26811.368-35169.790	5	.	.	.	7.0	6.0	.	.	.	.	.	1.180	1.120*	60	-096	-99	11960.7002	
	8355.801	2																000		11963.0274	
	8356.503	3																230		11963.4541	
1	8356.009	6	16595.109-24951.118	0	.	.	.	3.0	3.0	.	.	.	.	.	0.999	0.840	159	8	4	11964.1613	IS*
1	8355.634	2	24613.274-32968.906	2	.	.	.	5.0	4.0	.	.	.	.	.	1.160	1.115	45	12	7	11964.6983	IS*
1	8355.233	3	13726.661-22081.891	3	.	.	.	3.0	4.0	.	.	.	.	.	1.150	0.000*	0	-154	-153	11965.2725	
	8354.766	2																		11965.9413	
1	8354.672	6	16304.260-24658.931	1	.	.	.	4.0	4.0	.	.	.	.	.	1.285	1.080	205	-071	-72	11966.0760	
1	8352.707	3	13591.122-26943.829	0	.	.	.	4.0	5.0	.	.	.	.	.	0.965	1.220	255	-221	-221	11968.8910	
	8352.525	2																-097		11969.1518	
1	8351.538	4	15249.635-23601.171	2	.	.	.	2.0	1.0	.	.	.	.	.	0.715	0.565	150	-272	-275	11970.5664	IS*
	8350.583	2																+		11971.9354	
1	8350.264	2	24090.570-32440.827	7	.	.	.	7.0	6.0	.	.	.	.	.	1.130	1.120*	10	-020	-18	11972.3927	IS*
1	8349.411	4	22719.717-31069.124	4	.	.	.	9.0	8.0	.	.	.	.	.	1.200	1.135*	65	-068	-64	11973.6158	
1	8347.984	4	21812.682-30160.654	2	.	.	.	4.0	4.0	.	.	.	.	.	1.040	1.030	10	-012	-9	11975.6626	IS*
1	8347.737	3	18963.921-27311.658	0	.	.	.	4.0	5.0	.	.	.	.	.	1.251	1.035	216	-079	-72	11976.0170	
	8347.519	1																		11976.3297	
1	8345.527	3	24091.173-15745.648	2	.	.	.	3.0	3.0	.	.	.	.	.	1.245	1.145	100	106	107	11979.1884	
1	8342.114	2	24090.570-32432.680	4	.	.	.	7.0	7.0	.	.	.	.	.	1.130	1.140	10	051	52	11984.0894	
	8341.560	2																-055		11984.8853	
1	8340.675	2	26105.952-17765.281	4	.	.	.	2.0	3.0	.	.	.	.	.	1.165	1.680*	515	287	288	11986.1570	
1	8340.221	1	23763.470-32103.687	4	.	.	.	4.0	4.0	.	.	.	.	.	0.970	1.040*	70	-043	-49	11986.8095	
1	8338.042	2	21307.390-29645.433	-1	.	.	.	1.0	1.0	.	.	.	.	.	2.360	0.705*	1655	-047	-46	11989.9420	
1	8337.380	3	20425.711-28763.085	6	.	.	.	1.0	0.0	.	.	.	.	.	1.340	0.000	0	12	14	11990.8940	IS*
	8336.667	1																-015		11991.9196	IS*
1	8336.534	3	21218.180-29554.716	-2	.	.	.	3.0	3.0	.	.	.	.	.	0.860	0.831	29	-165	-167	11992.1109	
1	8336.029	2	19496.402-27832.430	1	.	.	.	3.0	4.0	.	.	.	.	.	1.555	0.920	635	-095	-93	11992.8374	
	8334.435	2																		11995.1311	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	8334.076	6	16595.109-24929.184			1	. . .	3.0- 4.0	. . .	. . .	. . .	0.999	1.080	81	-112	-113	11995.6478	
1	8333.542	3	26872.321-18538.782			3	. . .	1.0- 2.0	. . .	. . .	. . .	2.690	1.600*	1090	103	103	11996.4164	
1	8329.625	2	32073.180-23743.557			2	. . .	7.0- 6.0	. . .	. . .	. . .	0.000	0.000*	0	144	140	12002.0578	
1	8329.096	2	25591.845-33920.944			-3	. . .	3.0- 2.0	. . .	. . .	. . .	0.990	1.040*	50	12	11	12002.8200	IS*
1	8326.993	2	28106.505-19779.507			-5	. . .	3.0- 4.0	. . .	. . .	. . .	1.190	0.000*	0	216	216	12005.8514	
1	8326.206	2	21998.645-30324.858			-7	. . .	7.0- 7.0	. . .	. . .	. . .	1.269	1.170*	99	-122	-125	12006.9862	
1	8324.957	2	25371.962-33696.921			-2	. . .	6.0- 6.0	. . .	. . .	. . .	1.165	1.100*	65	160	159	12008.7876	
1	8324.068	2	25100.598-16776.530			0	. . .	2.0- 1.0	. . .	. . .	. . .	1.430	0.000*	0	158	159	12010.0701	
1	8322.253	2	22719.949-31042.204			3	. . .	4.0- 3.0	. . .	. . .	. . .	1.070	1.010	60	152	149	12012.6822	
	8320.072	2														-126		12015.8384	
1	8319.272	2	27175.729-18356.461			4	. . .	4.0- 5.0	. . .	. . .	. . .	1.021	1.325	304	203	200	12016.9939	
2	8318.830	2	37985.715-46304.585			10	. . .	3.5- 2.5	. . .	. . .	. . .	1.180	0.980*	200	-036		12017.5601	CQ
1	8318.652	2	21603.247-29921.899			0	. . .	2.0- 2.0	. . .	. . .	. . .	0.060	1.070*	1010	-123	-124	12017.8295	
1	8317.617	2	21307.390-29625.003			4	. . .	1.0- 2.0	. . .	. . .	. . .	2.360	0.910*	1450	059	59	12019.3850	
	8315.907	2														302		12021.8565	
1	8314.870	2	18046.103-26360.997			-19	. . .	4.0- 5.0	. . .	. . .	. . .	0.694	0.796	102	000	-15	12023.3558	2 LNS
1	8314.870	2	14853.317-23168.176			11	. . .	4.0- 5.0	. . .	. . .	. . .	0.786	1.115	329	-106	-107	12023.3558	2 LNS
1	8313.761	2	27651.193-19337.431			-1	. . .	2.0- 1.0	. . .	. . .	. . .	1.570	2.410*	840	174	174	12024.9597	
1	8309.756	2	27334.422-35644.180			-2	. . .	7.0- 7.0	. . .	. . .	. . .	1.240	1.070*	170	077	77	12030.7553	
	8309.585	2																12031.0029	
1	8308.702	2	18346.917-26655.622			-3	. . .	2.0- 3.0	. . .	. . .	. . .	1.518	1.015	503	-069	-71	12032.2814	
1	8307.896	2	27651.193-19343.298			1	. . .	2.0- 3.0	. . .	. . .	. . .	1.570	1.135	435	191	191	12033.4488	
1	8306.166	2	20984.195-29290.355			6	. . .	6.0- 6.0	. . .	. . .	. . .	1.319	0.920	399	-203	-203	12035.9551	
	8305.236	2																12037.3029	
1	8304.875	6	18046.108-26350.982			1	. . .	4.0- 4.0	. . .	. . .	. . .	0.694	0.796	102	085	85	12037.8261	
1	8302.286	2	19426.512-27728.796			2	. . .	3.0- 3.0	. . .	. . .	. . .	1.435	1.060	375	-020	-20	12041.5800	IS*
1	8301.524	2	18147.975-26449.501			-2	. . .	3.0- 3.0	. . .	. . .	. . .	1.049	0.940*	109	+	-280	12042.6853	CQ ISQ
	8301.177	2														159		12043.1887	
1	8299.676	2	20990.684-29290.355			5	. . .	5.0- 6.0	. . .	. . .	. . .	1.308	0.920	388	-186	-186	12045.3667	
1	8299.446	2	22377.599-30677.044			1	. . .	7.0- 8.0	. . .	. . .	. . .	1.076	1.245	169		-335	12045.7005	
2	8297.999	2	27059.565-18761.530			14	. . .	4.5- 5.5	. . .	. . .	. . .	1.030	1.296*	266	245	246	12047.8011	
1	8295.475	3	20065.327-28360.802			0	. . .	3.0- 3.0	. . .	. . .	. . .	0.998	0.887	111	-125	-130	12051.4668	
1	8295.120	2	21350.311-29645.433			-2	. . .	2.0- 1.0	. . .	. . .	. . .	0.350	0.705*	355		-208	12051.9825	
1	8294.930	2	22719.949-31014.877			2	. . .	4.0- 4.0	. . .	. . .	. . .	1.070	1.170	100	105	100	12052.2586	
	8292.746	2																12055.4327	
1	8291.550	1	24742.092-33033.638			4	. . .	4.0- 3.0	. . .	. . .	. . .	0.980	0.910*	70	-082	-82	12057.1716	
	8291.203	1																12057.6762	
2	8290.581	3	17532.937- 9242.356			0	. . .	3.5- 3.5	. . .	. . .	. . .	1.238	1.369	131	210	198	12058.5809	F
1	8287.536	2	19236.116-27523.650			2	. . .	7.0- 6.0	. . .	. . .	. . .	1.155	1.080	75	-120	-122	12063.0114	
1	8286.653	4	16202.112-24488.767			3	. . .	0.0- 1.0	. . .	. . .	. . .	0.000	0.000*	0	-257	-257	12064.2895	
	8285.451	2																12066.0470	
1	8285.251	3	22671.890-30957.140			1	. . .	1.0- 2.0	. . .	. . .	. . .	0.599	0.980	381	-137	-137	12066.3383	
1	8283.316	5	10436.922- 2203.606			0	. . .	1.0- 1.0	. . .	. . .	. . .	0.355	1.495	1140	176	176	12069.1570	
1	8283.143	3	20043.465-28326.610			-2	. . .	5.0- 4.0	. . .	. . .	. . .	0.925	1.260*	335	-091	-91	12069.4091	
	8281.804	2														12		12071.3605	IS*
	8231.695	1																12071.5194	
1	8281.582	2	14692.549-22974.132			-1	. . .	2.0- 3.0	. . .	. . .	. . .	0.292	1.147	855	-145	-146	12071.6841	
2	8280.269	2	15778.634- 7598.364			-1	. . .	1.5- 2.5	. . .	. . .	. . .	1.133	1.321	183	187	187	12073.5983	
1	8278.971	3	21737.407-30016.377			1	. . .	3.0- 2.0	. . .	. . .	. . .	1.026	1.140	114	-083	-82	12075.4912	
1	8278.745	3	20769.512-29048.255			2	. . .	2.0- 1.0	. . .	. . .	. . .	1.070	0.900*	170	20	21	12075.8209	IS*
2	8278.405	2	24976.585-33254.995			-5	. . .	3.5- 3.5	. . .	. . .	. . .	0.960	0.975	15	-191	-191	12076.3168	
1	8277.723	2	22181.368-30459.091			0	. . .	3.0- 2.0	. . .	. . .	. . .	0.780	1.255*	475	-090	-90	12077.3118	
1	8276.113	3	14853.317-23129.429			1	. . .	4.0- 5.0	. . .	. . .	. . .	0.786	1.168	382	-290	-290	12079.6613	
1	8275.734	1	28214.784-19939.052			2	. . .	3.0- 3.0	. . .	. . .	. . .	0.905	0.000*	0		173	12080.2145	
	8275.282	2														10		12080.8743	IS*

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	8274.694	3	21350.311	-	29625.003	2	.	.	2.0-	2.0	.	.	.	0.350	0.910*	560	-102	-103	12081.7328	
1	8274.019	3	23004.649	-	31278.667	1	.	.	5.0-	5.0	.	.	.	1.196	1.010*	186	-076	-76	12082.7184	
1	8272.920	2	28595.058	-	20322.165	-3	.	.	6.0-	6.0	.	.	.	1.200	1.360*	160	114	114	12084.3235	
1	8272.076	2	21703.960	-	29976.039	-3	.	.	5.0-	4.0	.	.	.	1.120	1.070	50		-153	12085.5565	
1	8271.422	5	18672.411	-	26943.829	4	.	.	6.0-	5.0	.	.	.	1.190	1.220*	30	-239	-239	12086.5121	2LNS
1	8271.422	5	18602.505	-	26873.930	-3	.	.	6.0-	6.0	.	.	.	0.910	1.125	215	180	180	12086.5121	2LNS
	8271.391	3H																	12086.5720	
1	8271.011	3	28210.060	-	19939.052	3	.	.	2.0-	3.0	.	.	.	0.865	0.000*	0		142	12087.1127	
1	8270.423	2	21812.682	-	30033.102	3	.	.	4.0-	5.0	.	.	.	1.040	1.150*	110	-	-40	12087.9720	
1	8269.131	2	19236.116	-	27505.246	1	.	.	7.0-	7.0	.	.	.	1.155	0.000*	0	-152	-152	12089.8607	
	8268.495	2																	12090.7906	
	8267.721	1																	12091.8348	
1	8265.773	2	22705.158	-	30970.926	5	.	.	1.0-	1.0	.	.	.	-0.020	0.295*	315		23	12094.7723	
2	8265.663	2	21991.980	-	13726.318	1	.	.	2.5-	2.5	.	.	.	1.344	0.784	560	444	444	12094.9332	
1	8261.277	3	22518.312	-	30779.585	4	.	.	2.0-	3.0	.	.	.	1.350	0.860	490	048	51	12101.3546	
1	8260.471	2	23550.352	-	31810.821	2	.	.	3.0-	2.0	.	.	.	1.090	0.865*	225		118	12102.5353	
1	8258.678	1	24091.173	-	32349.853	-2	.	.	3.0-	2.0	.	.	.	1.245	0.000*	0		19	12105.1629	
1	8257.914	2	24534.240	-	16276.332	6	.	.	2.0-	2.0	.	.	.	0.000	1.880*	0	212	211	12106.2828	
1	8257.397	2	23315.209	-	31572.610	-4	.	.	2.0-	1.0	.	.	.	1.335	2.403	1068	+	18	12107.0408	
1	8255.890	2	24613.274	-	32869.165	-1	.	.	5.0-	5.0	.	.	.	1.160	0.916	244	-040	-41	12109.2508	
1	8255.065	2	25550.208	-	17305.142	-1	.	.	1.0-	2.0	.	.	.	1.500	0.000*	0	+	95	12110.4609	
1	8254.858	2	26973.744	-	18718.882	-4	.	.	2.0-	2.0	.	.	.	1.210	0.504	706		-134	12110.7646	
1	8254.116	2	23281.721	-	31535.835	2	.	.	5.0-	5.0	.	.	.	1.235	1.020	215	-093	-92	12111.8533	
	8253.776	1																	12112.3523	
1	8253.690	5	20540.110	-	28793.800	0	.	.	3.0-	3.0	.	.	.	0.830	1.083*	253	-056	-56	12112.4785	
1	8252.662	3	19865.603	-	28118.262	3	.	.	4.0-	3.0	.	.	.	1.100	1.250*	150	-	-23	12113.9873	
	8252.263	2																	12114.5730	
	8252.142	2																	12114.7506	
1	8251.984	3	22705.158	-	30957.140	2	.	.	1.0-	2.0	.	.	.	-0.020	0.980*	1000		-29	12114.9826	
1	8251.918	3	20043.465	-	28295.380	3	.	.	5.0-	4.0	.	.	.	0.925	1.155	230	033	52	12115.0795	
1	8251.699	5	19059.958	-	27311.658	-1	.	.	5.0-	5.0	.	.	.	1.375	1.035	340	-088	-89	12115.4010	
	8251.654	3H																	12115.4671	
2	8250.368	3	23738.900	-	15488.530	-2	.	.	2.5-	3.5	.	.	.	0.679	1.057	378	269	269	12117.3555	
	8245.984	2																	12123.7978	
	8245.806	1																	12124.0595	
1	8245.134	2	25044.687	-	33289.869	2	.	.	4.0-	5.0	.	.	.	1.210	1.095*	115		-84	12124.9741	
1	8245.043	3	26372.321	-	18627.281	3	.	.	1.0-	1.0	.	.	.	2.690	0.000*	0	157	157	12125.1815	
1	8244.404	2H	33405.200	-	25160.827	31	.	.	2.0-	3.0	.	.	.	1.272	0.800	472		-186	12126.1213	CQ
1	8244.199	2	18046.108	-	26230.302	5	.	.	4.0-	5.0	.	.	.	0.694	1.125	431		-141	12126.4228	
1	8243.802	3	15424.337	-	23568.124	5	.	.	3.0-	4.0	.	.	.	1.106	0.940*	166	-105	-106	12127.0068	
1	8243.718	2	26009.000	-	17765.281	-1	.	.	3.0-	3.0	.	.	.	0.870	1.680*	810		170	12127.1303	
1	8242.905	3	12159.465	-	20402.369	1	.	.	4.0-	3.0	.	.	.	0.844	1.265*	421	-143	-142	12128.3264	
1	8242.421	2H	26894.711	-	12652.287	-3	.	.	3.0-	3.0	.	.	.	1.465	0.822	643		-68	12129.0386	
1	8241.699	2H	18578.669	-	26820.300	-12	.	.	1.0-	2.0	.	.	.	1.932	1.160	772	-	-38	12130.1012	
1	8241.657	1	23578.836	-	31820.494	-1	.	.	5.0-	4.0	.	.	.	1.120	1.240*	120		-112	12130.1630	C2
1	8241.657	1	22219.737	-	30461.399	-5	.	.	4.0-	5.0	.	.	.	0.750	0.990	240		40	12130.1630	C2
	8240.566	2																	12131.7689	
	8238.179	2																	12135.2841	
	8237.876	1																	12135.7305	
1	8237.793	2	21031.258	-	29269.059	-8	.	.	2.0-	1.0	.	.	.	1.455	1.110*	345	120	115	12135.8527	
1	8236.345	3	14737.788	-	22974.132	1	.	.	3.0-	3.0	.	.	.	0.815	1.147	332	-145	-145	12137.9863	
	8235.886	2																	12138.6628	
1	8235.570	2	16532.104	-	24767.674	0	.	.	3.0-	2.0	.	.	.	0.300	1.455	1155	-200	-195	12139.1285	
	8235.340	2																	12139.4676	
1	8235.191	2	20521.579	-	28756.769	1	.	.	6.0-	5.0	.	.	.	1.246	1.165	81	-283	-279	12139.6872	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES	
								J2	J1	J2	J1				G2	G1	DG	IS	IS			
		8234.087	2																			
1		8232.722	5	16520.962-24753.684	0				5 0-	4.0					0.736	0.975	239	36	35	12141.3149		
1		8231.962	8	10486.922-18718.882	2				1.0-	2.0					0.355	0.504	149	-012	-10	12143.3279	IS*	
1		8226.814	2	24742.092-32968.906	0				4.0-	4.0					0.980	1.115*	135	-012	-14	12144.4490	IS*	
		8226.292	2																	12152.0485	IS*	
1		8224.991	1	15424.387-23649.372	6				3.0-	4.0					1.106	0.000*	0		-355	12152.8196		
1		8224.052	2	26664.150-34888.198	4				6.0-	5.0					1.135	1.070	65	12	0	12154.7419		
1		8222.299	2	22982.904-31205.200	3				2.0-	2.0					1.257	1.090*	167	-098	-98	12156.1297	IS*	
		8221.665	2																	12158.7214		
1		8221.579	3	16532.104-24753.684	-1				3.0-	4.0					0.300	0.975	675	28	31	12159.6590		
		8221.165	2																	12159.7862	IS*	
1		8221.005	2	23763.470-31984.470	5				4.0-	3.0					0.970	1.090*	120		49	12160.3986		
2		8220.618	2	22553.965-14433.351	4				2.5-	1.5					1.360	1.925*	565		464	12160.6352		
1		8219.306	2	28174.233-36393.534	5				9.0-	10.0					0.000	1.150*	0	-040	-40	12161.2077		
1		8218.898	2	30770.199-22551.302	1				2.0-	3.0					1.216	0.000*	0	144	144	12163.1490		
		8218.125	2																	12163.7528		
		8217.940	1																	12164.8969		
1		8217.420	5	14912.011-23129.429	2				4.0-	5.0					0.496	1.168	672	-193	-193	12165.1707		
		8216.953	2																	12165.9406		
		8215.727	2																	12166.6320		
		8215.195	2																	12168.4476		
1		8214.186	1	29631.948-21417.765	3				5.0-	4.0					0.000	0.802*	0		-277	12169.2356		
1		8212.399	2	24456.635-32669.040	-6				3.0-	3.0					1.000	1.000*	0	16	4	12170.7304		
		8212.266	2																	12173.3787	IS*	
		8211.891	2																	12173.5759		
		8211.667	2																	-378	12174.1318	
		8211.138	2																		12174.4639	
		8208.791	2																		12175.1741	
1		8206.740	2	25083.129-33289.869	0				5.0-	5.0					1.160	1.095*	65	-127	-127	12178.7293		
		8206.265	2																		12181.7730	
		8206.124	2																		12182.4781	
		8205.122	1																		12182.6874	
		8205.040	2																		12184.1752	
		8204.900	2																		12184.2969	
1		8204.674	4	22509.712-30714.385	1				5.0-	4.0					1.287	1.150	137	-043	-45	12184.5048		
		8204.192	1																		12184.8404	IS*
1		8204.029	1	30554.070-38758.100	-1				4.0-	5.0					1.260	1.530*	270		-130	12185.5563		
1		8203.460	2	20769.512-28972.971	1				2.0-	2.0					1.070	0.794*	276	82	83	12185.7984		
1		8203.010	3	18147.975-26350.982	3				3.0-	4.0					1.049	0.796	253	-147	-149	12186.6436		
1		8201.519	5	18572.411-26873.930	0				6.0-	6.0					1.190	1.125*	65	-050	-51	12187.3122		
1		8200.324	5	20540.110-28740.433	1				3.0-	3.0					0.830	0.970*	140	-032	-32	12189.5278		
1		8199.552	3	26341.320-34540.880	-8*				8.0-	8.0					0.000	1.270*	0	-204	-211	12191.3041		
		8198.480	2																		12192.4519	
		8198.017	2																		12194.0462	
1		8196.569	3	24613.274-32809.844	-1				5.0-	4.0					1.160	0.900	260	-012	-11	12194.7349		
2		8196.226	2	39873.620-31677.390	-4				3.5-	2.5					1.160	0.675*	485			12195.8892	IS*	
		8195.148	1																		12197.3996	
		8194.675	2																		12197.5157	
1		8194.578	2	15424.387-23618.964	1				3.0-	3.0					1.106	0.000*	0	-403	-401	12199.7082		
1		8194.388	2H	15408.760-23501.171	-23				1.0-	1.0					0.890	0.555	325	-200	-204	12199.8526		
1		8194.105	1	23909.535-32103.687	3				5.0-	4.0					1.242	1.040	202		-77	12200.1355		
1		8193.881	1	27175.729-35369.610	0				4.0-	5.0					1.021	1.120*	99		11	12200.5568		
		8193.339	2																		12200.8904	
		8193.271	2																		12201.6230	
		8192.981	2																		12201.7988	
																					12202.2307	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
	8192.845	1																	12202.4332		
	8192.667	2																	12202.6983		
1	8192.100	7	13517.647	-	21709.745	2	.	.	2.0-	3.0	.	.	.	0.892	0.980	88	36	34	12203.5429	IS*	
1	8191.420	2	26730.201	-	18533.782	1	.	.	3.0-	2.0	.	.	.	0.950	1.600	650		158	12204.5560		
	8191.238	2																	12204.8272		
	8191.062	2																	12205.0894		
	8190.922	2																	12205.2980		
	8190.862	2																	12205.4679		
1	8190.469	3	20306.482	-	28496.950	1	.	.	4.0-	4.0	.	.	.	1.123	0.810	313	-188	-188	12205.9731		
	8190.272	2																	12206.2666		
	8190.020	2																	12206.5528		
	8189.910	1																	12206.8062		
	8189.167	2																	12207.9137		
1	8188.741	2	29606.506	-	21417.765	0	.	.	5.0-	4.0	.	.	.	0.000	0.802*	0	-268	-267	12208.5488		
	8188.253	1																	12209.2764		
	8188.137	2																	12209.3748		
	8187.878	2																	12209.8356		
1	8184.753	3	19558.257	-	27743.009	1	.	.	2.0-	2.0	.	.	.	-0.145	0.568	713	211	209	12214.4974		
1	8184.493	3	21737.407	-	29921.899	1	.	.	3.0-	2.0	.	.	.	1.026	1.070*	44	-028	-34	12214.8854	IS*	
	8183.866	2																	12215.8212		
2	8183.192	2H	23571.715	-	15488.530	7	.	.	3.5-	3.5	.	.	.	1.380	1.057	323		435	12216.8274	C2	
1	8183.192	2H	36528.843	-	28345.647	-4	.	.	7.0-	6.0	.	.	.	1.130	0.000*	0			12216.8274	C2	
	8182.373	1																	12218.0502		
	8182.168	2																	12218.3563		
1	8181.317	2	24091.173	-	32272.487	3	.	.	3.0-	3.0	.	.	.	1.245	0.000*	0		-3	12219.6273		
	8179.783	2																	12221.9189		
	8179.246	2																	12222.7213		
	8178.937	2																	12223.1831		
	8178.696	1																	12223.5432		
	8178.273	2																	12224.1755		
	8177.930	2																	12224.6134		
	8177.797	2																	12224.8870		
	8177.485	2																	12225.3534		
1	8176.899	2	19959.027	-	28135.924	2	.	.	1.0-	2.0	.	.	.	0.760	1.101*	341		-45	12226.2296		
1	8176.363	5	22518.312	-	14341.947	3	.	.	2.0-	2.0	.	.	.	1.350	0.852	498	167	166	12227.0236		
	8175.293	3																	12228.6239		
1	8173.568	8	9724.351	-	17897.917	2	.	.	3.0-	3.0	.	.	.	0.442	0.450	8	037	44	12231.2122	IS*	
1	8168.960	4	14853.317	-	23022.274	3	.	.	4.0-	5.0	.	.	.	0.786	0.817	31	-149	-149	12238.1116		
1	8162.896	3	17045.776	-	25208.672	0	.	.	1.0-	2.0	.	.	.	1.474	0.490	984	225	226	12247.2030		
1	8160.514	4	28482.680	-	20322.165	-1	.	.	6.0-	6.0	.	.	.	1.180	1.360*	180	193	193	12250.7779		
	8159.997	2																	12251.5541		
1	8159.481	6	18046.108	-	26205.589	0	.	.	4.0-	3.0	.	.	.	0.694	0.701	7	32	33	12252.3289		
1	8158.575	4	16595.109	-	24753.684	0	.	.	3.0-	4.0	.	.	.	0.999	0.975	24	-138	-140	12253.6895		
1	8158.058	2	22509.712	-	30667.769	1	.	.	5.0-	4.0	.	.	.	1.287	1.265	22		-223	12254.4660		
	8157.326	2																121		12255.5657	
1	8156.332	2	23315.209	-	31471.542	-1	.	.	2.0-	1.0	.	.	.	1.335	2.188	853	115	118	12257.0593		
1	8155.856	2	22719.949	-	30875.798	7	.	.	4.0-	4.0	.	.	.	1.070	1.030*	10		-38	12257.7746		
	8154.843	2H																-075		12259.2973	
2	8154.152	2H	45203.680	-	37049.535	7	.	.	2.5-	2.5	.	.	.	1.150	0.730*	420			12260.3362	C2	
1	8154.152	2H	28036.676	-	35190.820	8	.	.	6.0-	5.0	.	.	.	1.216	1.030	186			12260.3362	C2	
1	8153.744	4	23578.836	-	31732.582	-2	.	.	5.0-	5.0	.	.	.	1.120	1.049*	71	-036	-30	12260.9497		
	8153.264	2																	12261.6715		
	8152.783	2																	12262.3874		
	8152.687	3																-315		12262.5393	
2	8152.074	2	26669.945	-	18517.872	1	.	.	1.5-	0.5	.	.	.	1.350	2.755	1405	395	392	12263.4614		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	8151.701	2	15449.472-23601.171			2	.	.	0.0- 1.0		.	.	.	0.000	0.565	0	41	49	12264.0226	
	8151.442	2H					.	.			.	.	.						12264.4122	
1	8151.181	2	25100.598-33251.780			-1	.	.	2.0- 2.0		.	.	.	1.430	1.465	35		36	12264.8049	
	8150.703	2					.	.			.	.	.						12265.5242	
1	8150.276	2	19281.917-27432.195			-2	.	.	2.0- 1.0		.	.	.	1.822	1.130*	692	-324	-323	12266.1668	
1	8150.090	2	23895.741-15745.648			-3	.	.	2.0- 3.0		.	.	.	-0.100	1.145*	1245		156	12266.4467	
	8148.179	2					.	.			.	.	.						12269.3236	
1	8147.236	1	23550.352-31697.633			5	.	.	3.0- 4.0		.	.	.	1.090	1.187*	97		121	12270.6684	
1	8145.270	2	28467.436-20322.165			-1	.	.	5.0- 6.0		.	.	.	1.210	1.360*	150	142	140	12273.7055	
1	8143.808	2	19426.512-27570.322			-2	.	.	3.0- 3.0		.	.	.	1.435	1.265	170	-237	-240	12275.9089	
1	8143.655	2	26708.790-34852.445			0	.	.	3.0- 3.0		.	.	.	0.855	1.230	375		-44	12276.1395	
	8142.602	1					.	.			.	.	.						12277.7271	
	8142.220	2					.	.			.	.	.						12278.3031	
1	8140.359	4	10486.922-18627.281			0	.	.	1.0- 1.0		.	.	.	0.355	0.000*	0	-405	-405	12281.1101	
1	8138.320	2	25074.585-33212.897			8	.	.	4.0- 4.0		.	.	.	1.507	1.110*	397	158	167	12284.1871	
	8138.010	2					.	.			.	.	.						12284.6550	
1	8137.969	5	16520.962-24658.931			0	.	.	5.0- 4.0		.	.	.	0.736	1.080	344	146	146	12284.7169	
	8137.835	2					.	.			.	.	.						12284.9192	
1	8137.611	2H	21420.983-29558.591			3	.	.	3.0- 2.0		.	.	.	1.663	1.030	633		-181	12285.2573	
1	8136.830	3	22181.368-30318.195			3	.	.	3.0- 2.0		.	.	.	0.780	0.940*	160	-020	-14	12286.4365	IS*
1	8136.380	2	23037.432-31173.814			-2	.	.	1.0- 1.0		.	.	.	0.870	0.450*	420	-165	-169	12287.1161	
1	8134.910	2	24347.551-32482.465			-4	.	.	3.0- 4.0		.	.	.	1.300	1.330*	30		-122	12289.3364	
1	8134.802	2	26606.405-34741.198			9	.	.	5.0- 5.0		.	.	.	1.130	1.070*	60	-020	-4	12289.4995	
	8134.009	2					.	.			.	.	.						12290.6977	
1	8130.495	2	29118.602-20988.110			3	.	.	4.0- 4.0		.	.	.	1.510	1.374*	136	194	190	12296.0097	
1	8130.296	2	21515.136-29645.433			-1	.	.	1.0- 1.0		.	.	.	1.180	0.705*	475		-219	12296.3107	
1	8130.018	2	27909.524-19779.507			1	.	.	4.0- 4.0		.	.	.	1.270	0.000*	0	162	165	12296.7311	
1	8128.834	2	25192.231-33321.067			-2	.	.	4.0- 5.0		.	.	.	1.768	1.200*	568		197	12298.5222	
	8126.866	3					.	.			.	.	.						12301.5004	GHOSTQ
1	8126.828	5	16532.104-24658.931			1	.	.	3.0- 4.0		.	.	.	0.300	1.080	780	142	142	12301.5579	
1	8125.215	2	23814.130-31939.345			0	.	.	6.0- 6.0		.	.	.	0.890	1.200*	310	-092	-92	12304.0000	
1	8124.297	2	24733.061-32857.357			1	.	.	7.0- 6.0		.	.	.	1.275	1.101	174		-221	12305.3903	
	8124.104	3					.	.			.	.	.					-067	12305.6826	
1	8121.776	2	16202.112-24323.884			4	.	.	0.0- 1.0		.	.	.	0.000	0.800*	0	-123	-124	12309.2099	
1	8121.584	2	23281.721-31403.302			3	.	.	5.0- 5.0		.	.	.	1.235	1.205	30		-93	12309.5009	
1	8121.228	2	22818.840-30940.068			0	.	.	6.0- 5.0		.	.	.	1.335	1.080	255	-087	-84	12310.0405	
1	8120.816	4	14853.317-22974.132			1	.	.	4.0- 3.0		.	.	.	0.786	1.147	361	-071	-71	12310.6651	
1	8118.798	2	23578.836-31697.633			1	.	.	5.0- 4.0		.	.	.	1.120	1.187*	67	071	74	12313.7250	
1	8115.385	2	25064.653-33180.043			-5	.	.	3.0- 2.0		.	.	.	0.980	1.790*	810	040	37	12318.9036	
1	8114.638	2	21998.645-30113.280			3	.	.	7.0- 6.0		.	.	.	1.269	1.050	219	-117	-116	12320.0377	
1	8112.654	3	21307.390-29420.042			2	.	.	1.0- 1.0		.	.	.	2.360	1.095*	1265	-040	-43	12323.0506	
1	8110.265	6	14912.011-23022.274			2	.	.	4.0- 5.0		.	.	.	0.496	0.817	321	-048	-52	12326.6806	
1	8108.375	3	20654.712-28763.085			2	.	.	1.0- 0.0		.	.	.	0.200	0.000	0	12	18	12329.5538	IS*
1	8107.215	2	19265.603-27972.815			3	.	.	4.0- 4.0		.	.	.	1.100	0.979	121		-75	12331.3180	
	8106.903	2					.	.			.	.	.						12331.7926	
1	8106.604	2	16532.104-24638.713			-5	.	.	3.0- 2.0		.	.	.	0.300	0.000*	0	-202	-199	12332.2474	
1	8105.407	4	25870.685-17765.281			3	.	.	2.0- 3.0		.	.	.	1.170	1.680*	510	150	153	12334.0686	
1	8102.559	2H	18346.917-26449.501			-15	.	.	2.0- 3.0		.	.	.	1.518	0.940*	578	-161	-164	12338.3887	
1	8098.750	1	25894.711-34993.452			9	.	.	3.0- 4.0		.	.	.	1.455	1.213	252		9	12344.2070	
1	8098.341	2	11840.715-19939.052			4	.	.	3.0- 3.0		.	.	.	0.811	0.000*	0	-412	-409	12344.8304	
1	8098.107	2	24759.250-32857.357			0	.	.	6.0- 6.0		.	.	.	1.098	1.101	3	-172	-175	12345.1871	
	8097.927	2					.	.			.	.	.						12345.4615	
1	8096.815	2	25301.732-34398.550			-3	.	.	5.0- 4.0		.	.	.	1.060	0.870*	190	-020	-22	12347.1570	IS*
1	8096.419	4	15856.888-23953.307			0	.	.	1.0- 2.0		.	.	.	1.103	1.265	162	-331	-334	12347.7609	
	8096.176	2					.	.			.	.	.				5		12348.1316	IS*

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	8094.810	2	16834.379-24929.184	5	.	.	.	5.0-	4.0	.	.	.	0.961	1.080	119	-123	-130	12350.2153	
1	8094.568	2	26633.266-18533.782	4	.	.	.	1.0-	2.0	.	.	.	1.124	1.600	476	057	50	12350.6761	
1	8091.868	3	17615.432-25707.348	2	.	.	.	2.0-	2.0	.	.	.	1.450	0.720	730	-079	-80	12354.7055	
1	8084.336	2	20709.453-28793.800	-6	.	.	.	3.0-	3.0	.	.	.	1.240	1.083	157	-055	-60	12366.2162	IS*
1	8084.132	3	18346.917-26431.101	-2	.	.	.	2.0-	3.0	.	.	.	1.518	0.807	711	-147	-148	12366.4518	
1	8081.550	1	26285.338-34966.946	2	.	.	.	5.0-	4.0	.	.	.	1.055	1.025	30		-29	12370.4640	
1	8079.759	5	12322.613-20402.369	3	.	.	.	2.0-	3.0	.	.	.	1.036	1.265*	229	-144	-145	12373.2214	
2	8079.519	3	24366.120-16286.532	-19	.	.	.	0.5-	0.5	.	.	.	2.420	-0.122*	2542	159	165	12373.5889	
1	8079.451	2	25100.598-33180.043	6	.	.	.	2.0-	2.0	.	.	.	1.430	1.790*	360		37	12373.6931	
1	8078.955	5	17031.874-25160.827	2	.	.	.	4.0-	3.0	.	.	.	1.217	0.800	417	-016	-17	12374.4527	
1	8075.043	6	22416.990-14341.947	0	.	.	.	2.0-	2.0	.	.	.	1.675	0.852	823	159	158	12380.4476	
	8074.677	2																12381.0088	
1	8073.924	2	19496.402-27570.322	4	.	.	.	3.0-	3.0	.	.	.	1.555	1.265	290	-354	-353	12382.1635	
1	8073.497	4	25499.501-33572.999	-1	.	.	.	9.0-	9.0	.	.	.	1.200	1.160*	40	-093	-93	12382.8184	
1	8073.270	2H	21812.682-29285.947	5	.	.	.	4.0-	3.0	.	.	.	1.040	1.330*	290	-200	-202	12383.1665	IS*
1	8069.708	2	21600.100-29669.807	1	.	.	.	6.0-	6.0	.	.	.	1.390	1.150	240	-176	-173	12388.6325	
1	8069.191	2	25113.744-33182.933	2	.	.	.	6.0-	6.0	.	.	.	1.302	1.050	252	55	54	12389.4263	IS*
1	8066.562	3	31540.149-23473.535	-2	.	.	.	2.0-	6.0	.	.	.	1.205	0.000*	0	237	237	12393.6462	
1	8065.697	3	22307.633-30373.329	1	.	.	.	3.0-	4.0	.	.	.	1.434	1.345	89	-198	-198	12394.7933	
1	8064.929	2H	24653.345-32718.268	6	.	.	.	1.0-	1.0	.	.	.	0.860	0.600*	260		-18	12395.9736	
	8064.770	2														162		12396.2180	
1	8064.500	2	18591.122-26655.622	0	.	.	.	4.0-	3.0	.	.	.	0.965	1.015	50		-167	12396.6330	
1	8063.821	6	16595.109-24658.931	-1	.	.	.	3.0-	4.0	.	.	.	0.999	1.080	81	-028	-29	12397.6769	
1	8063.600	3	28385.761-20322.165	4	.	.	.	6.0-	6.0	.	.	.	1.025	1.360*	335	247	248	12398.0167	
1	8059.639	3	22719.949-30779.585	3	.	.	.	4.0-	3.0	.	.	.	1.070	0.860	210	041	46	12404.1098	
1	8057.613	2	18147.975-23205.589	-1	.	.	.	3.0-	3.0	.	.	.	1.049	0.701	348	-202	-201	12407.2287	
1	8055.855	3	14025.007-22031.891	1	.	.	.	7.0-	4.0	.	.	.	0.975	0.000*	0	-152	-152	12408.3498	
1	8056.547	1	26443.910-34500.445	12	.	.	.	6.0-	6.0	.	.	.	1.045	1.030	15		-197	12408.8704	
	8055.902	3														060		12409.8639	
1	8054.701	2	26606.405-34661.105	1	.	.	.	5.0-	4.0	.	.	.	1.130	1.100*	30		55	12411.7143	
1	8054.099	2	26283.495-34337.597	-3	.	.	.	7.0-	7.0	.	.	.	1.080	1.340*	260	-082	-85	12412.6420	
	8053.123	2																12414.1463	
1	8052.935	4	20065.327-28118.262	0	.	.	.	3.0-	3.0	.	.	.	0.998	1.250*	252	-032	-32	12414.4362	
1	8052.133	7	9724.351-17776.483	1	.	.	.	3.0-	2.0	.	.	.	0.442	0.565	123	-156	-156	12415.6726	
1	8052.060	3	30503.896-22451.834	-2	.	.	.	5.0-	5.0	.	.	.	0.000	0.000*	0	162	161	12415.7852	
1	8051.862	5	10426.922-18538.782	2	.	.	.	1.0-	2.0	.	.	.	0.355	1.600	1245	-354	-351	12416.0905	
	8050.975	2																12417.4584	
1	8050.749	5	16532.104-24582.849	4	.	.	.	3.0-	2.0	.	.	.	0.300	0.640	340	168	165	12417.8070	
2	8050.119	1	23538.650-15483.530	-1	.	.	.	3.5-	3.5	.	.	.	1.470	1.057*	413		456	12418.7788	
	8049.984	2																12418.9871	IS*
2	8049.222	5	20056.725-12007.503	0	.	.	.	0.5-	1.5	.	.	.	0.047	-0.019	66	440	442	12420.1628	
	8048.217	2																12421.7137	
1	8047.860	6	16155.109-24202.966	3	.	.	.	5.0-	5.0	.	.	.	0.948	1.012	64	-008	-5	12422.2647	IS*
	8047.434	2																12422.9223	
	8047.295	2																12423.1369	
1	8046.710	2	19059.958-27106.673	-5	.	.	.	5.0-	6.0	.	.	.	1.375	1.040	335	-121	-121	12424.0401	
	8046.356	2																12424.5867	
1	8046.245	3	18297.584-26943.829	0	.	.	.	5.0-	5.0	.	.	.	1.280	1.220	60	-242	-243	12424.7581	
	8044.242	2																12427.8518	
1	8043.605	2	16595.109-24638.713	1	.	.	.	3.0-	2.0	.	.	.	0.999	0.000*	0	-368	-370	12428.8360	
1	8043.456	2	21515.136-29558.591	1	.	.	.	1.0-	2.0	.	.	.	1.180	1.030*	150	-301	-307	12429.0663	
1	8042.609	4	19594.767-27637.377	-1	.	.	.	0.0-	1.0	.	.	.	0.000	1.280	0	071	73	12430.3752	
1	8042.102	2	22416.990-30459.091	1	.	.	.	2.0-	2.0	.	.	.	1.675	1.255	420	-056	-55	12431.1589	
1	8040.928	2	9724.351-17765.281	-2	.	.	.	3.0-	3.0	.	.	.	0.442	1.680*	1238	-398	-398	12432.9739	
1	8040.170	3	24816.699-16776.530	1	.	.	.	2.0-	1.0	.	.	.	1.165	0.000*	0	170	167	12434.1460	

C	HAVE	HUNDER	I	T2	-	T1	O-C	OBS J2	O3S J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	8038.	108	2	23413.710	-	31451.814	4	.	.	4.0-	4.0	.	.	.	0.000	1.080*	0	-036	-31	12437.3357	IS*	
1	8034.	139	2	22182.030	-	30216.163	6	.	.	2.0-	2.0	.	.	.	1.295	1.143	152	102	95	12443.4800		
1	8033.	518	1	16734.151	-	24767.674	-5	.	.	2.0-	2.0	.	.	.	0.928	1.455	527		-390	12444.4419	C2	
1	8033.	518	1	26572.296	-	18538.782	4	.	.	2.0-	2.0	.	.	.	1.014	1.600	586		196	12444.4419	C2	
1	8033.	153	3	29021.267	-	20988.110	-4	.	.	4.0-	4.0	.	.	.	0.000	1.374*	0	176	176	12445.0073		
1	8032.	762	4	16988.909	-	24921.671	0	.	.	6.0-	5.0	.	.	.	1.098	1.034	64	-109	-108	12445.6131		
1	8030.	975	3	20709.458	-	28740.433	0	.	.	3.0-	3.0	.	.	.	1.240	0.970	270	-036	-36	12448.3824		
1	8028.	929	4	26885.328	-	18356.461	2	.	.	5.0-	5.0	.	.	.	1.055	1.325	270	128	128	12451.5546		
1	8027.	019	2	21263.339	-	29290.355	3	.	.	5.0-	6.0	.	.	.	0.610	0.920*	310	078	80	12454.5174		
1	8025.	876	3	22518.312	-	30544.187	1	.	.	2.0-	3.0	.	.	.	1.350	0.946	404	083	83	12456.2911		
1	8024.	289	3	20769.512	-	28793.800	1	.	.	2.0-	3.0	.	.	.	1.070	1.083*	13	-008	-4	12458.7547	IS*	
1	8022.	954	3	12322.613	-	4299.659	0	.	.	2.0-	2.0	.	.	.	1.036	1.432	446	188	190	12460.8278		
1	8021.	762	3	21603.247	-	29625.003	6	.	.	2.0-	2.0	.	.	.	0.060	0.910*	850	-043	-41	12462.6794	IS*	
1	8021.	624	1	26149.538	-	34171.155	7	.	.	4.0-	5.0	.	.	.	1.360	1.230*	130		157	12462.8938		
1	8021.	424	2	22890.990	-	36912.410	4	.	.	7.0-	7.0	.	.	.	1.272	0.000*	0		-2	12463.2046		
1	8018.	806	2	25705.036	-	33724.837	5	.	.	2.0-	3.0	.	.	.	1.290	1.160	130	7	7	12467.2736	IS*	
1	8018.	196	3	22690.482	-	20572.283	-3	.	.	1.0-	2.0	.	.	.	1.195	1.430*	235	247	247	12468.2221		
1	8016.	997	2	21031.258	-	29048.255	0	.	.	2.0-	1.0	.	.	.	1.455	0.900	555	44	49	12470.0868		
1	8016.	556	1	29521.579	-	28538.138	-3	.	.	6.0-	7.0	.	.	.	1.246	1.060	186		-189	12470.7728		
	8016.	240	1																	12471.2644		
1	8011.	853	3	19959.027	-	27970.881	-1	.	.	1.0-	2.0	.	.	.	0.760	0.194*	566	102	100	12478.0932		
	8011.	329	2																	12478.9094		
1	8010.	981	6	23207.126	-	31218.105	2	.	.	8.0-	8.0	.	.	.	1.135	1.155	20	36	29	12479.4515		
	8006.	859	3																	-012	12485.8760	
1	8005.	620	3	25328.907	-	17323.291	4	.	.	3.0-	4.0	.	.	.	1.340	1.250*	90	082	82	12487.8084		
2	8003.	942	1	26569.945	-	18666.006	3	.	.	1.5-	2.5	.	.	.	1.350	1.365	15		316	12490.4264		
	8003.	049	2																		12491.8201	
2	8000.	396	2	17242.750	-	9242.356	2	.	.	2.5-	3.5	.	.	.	1.200	1.369*	169	182	180	12495.9625		
1	7999.	832	1	21350.311	-	29350.139	4	.	.	2.0-	3.0	.	.	.	0.350	0.910*	560	-102	-101	12496.8435		
1	7999.	523	2	23413.710	-	31413.230	3	.	.	4.0-	3.0	.	.	.	0.000	0.742*	0	-032	-24	12497.3262		
1	7996.	099	2	22818.840	-	30814.939	0	.	.	6.0-	5.0	.	.	.	1.335	1.111	224	-223	-222	12502.6777		
1	7994.	797	2	22088.306	-	30083.102	1	.	.	6.0-	5.0	.	.	.	1.060	1.150*	90	16	17	12504.7139	IS*	
	7994.	731	1																		12504.8171	
2	7993.	863	3	26755.425	-	18761.580	18	.	.	4.5-	5.5	.	.	.	1.200	1.296*	96	427	427	12506.1749		
2	7993.	754	1	18720.075	-	10726.322	1	.	.	3.5-	4.5	.	.	.	1.060	1.391	331	122	134	12506.3454	IS*	
1	7990.	683	1	22219.737	-	30210.416	4	.	.	4.0-	4.0	.	.	.	0.750	1.160*	410	-012	-14	12511.1519	IS*	
1	7989.	706	3	23735.353	-	15745.648	1	.	.	2.0-	3.0	.	.	.	0.935	1.145*	210	159	157	12512.6818		
1	7989.	588	3	23413.710	-	31403.302	-4	.	.	4.0-	5.0	.	.	.	0.000	1.205*	0	-188	-191	12512.8666		
	7989.	433	2																	103	12513.1094	IS*
1	7987.	743	5	16595.109	-	24582.849	3	.	.	3.0-	2.0	.	.	.	0.999	0.640	359	-008	-6	12515.7568	IS*	
1	7987.	035	2	31460.669	-	23473.585	1	.	.	7.0-	6.0	.	.	.	1.140	0.000*	0	284	283	12516.7879		
	7987.	011	1																		12516.9039	
1	7986.	892	2	21515.136	-	13528.246	2	.	.	1.0-	1.0	.	.	.	1.180	-0.590*	1770	325	325	12517.0904		
1	7983.	086	6	13726.661	-	21709.745	2	.	.	3.0-	3.0	.	.	.	1.150	0.980	170		20	21	12523.0580	
	7980.	009	3																	190	12527.8868	
1	7979.	908	6	18963.921	-	26743.829	0	.	.	4.0-	5.0	.	.	.	1.251	1.220	31	-232	-226	12528.0453		
1	7979.	201	2	26149.538	-	34128.739	0	.	.	4.0-	3.0	.	.	.	1.360	1.106*	254	-020	-21	12529.1554		
1	7977.	227	4	26150.730	-	34127.955	2	.	.	8.0-	8.0	.	.	.	0.000	1.185*	0	055	55	12532.2558		
1	7976.	470	2	27755.977	-	19779.507	0	.	.	3.0-	4.0	.	.	.	1.370	0.000*	0	116	118	12533.4452		
1	7976.	348	1	12897.584	-	26373.930	2	.	.	5.0-	6.0	.	.	.	1.280	1.125	155	-055	-55	12533.6369		
1	7975.	562	2	23735.353	-	31710.912	3	.	.	2.0-	2.0	.	.	.	0.935	0.200*	735	-296	-298	12534.8721		
1	7975.	280	2	24091.173	-	32056.452	1	.	.	3.0-	2.0	.	.	.	1.245	0.910*	335		39	12535.3153		
1	7975.	020	3	23720.664	-	15745.648	4	.	.	3.0-	3.0	.	.	.	0.790	1.145*	355	169	164	12535.7240	IS*	
1	7974.	907	3	24751.439	-	16776.530	-2	.	.	1.0-	1.0	.	.	.	0.647	0.000*	0	219	226	12535.9016	IS*	
1	7974.	238	3	22982.904	-	30957.140	2	.	.	2.0-	2.0	.	.	.	1.257	0.980	277	-156	-156	12536.9533		

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7973.793	4	13517.647	-	21491.439	1	.	.	2.0-	3.0	.	.	.	0.892	0.000*	0	-382	-379	12537.6530	
	7972.101	2															-359		12540.3140	
1	7970.923	4	20769.512	-	28740.433	2	.	.	2.0-	3.0	.	.	.	1.070	0.970*	100	24	20	12542.1673	IS*
1	7970.338	3	22705.158	-	30675.497	-1	.	.	1.0-	2.0	.	.	.	-0.020	0.375*	395	8	8	12543.0878	IS*
1	7969.309	1	31199.300	-	39168.610	-1	.	.	9.0-	9.0	.	.	.	0.000	1.190*	0		-28	12544.7074	
1	7966.833	2	19355.603	-	27832.430	6	.	.	4.0-	4.0	.	.	.	1.100	0.920	180		-82	12548.6061	
1	7965.848	2	21703.960	-	29669.807	1	.	.	5.0-	6.0	.	.	.	1.120	1.150	30	-138	-145	12550.1578	IS* 2LNS
1	7965.848	2	21263.339	-	29229.190	-3	.	.	5.0-	4.0	.	.	.	0.610	1.480*	870	-132	-128	12550.1578	IS* 2LNS
1	7965.031	3	22429.984	-	30395.062	3	.	.	4.0-	4.0	.	.	.	1.279	0.920	359	36	36	12551.3663	
1	7963.930	2	24613.274	-	32577.204	0	.	.	5.0-	4.0	.	.	.	1.160	0.980*	180		-71	12553.1804	
1	7963.489	2	23413.710	-	31377.193	6	.	.	4.0-	4.0	.	.	.	0.000	0.973*	0	-089	-88	12553.8755	
1	7961.673	4	21307.390	-	29269.059	4	.	.	1.0-	1.0	.	.	.	2.360	1.110*	1250	054	52	12556.7390	
1	7957.331	3	22719.717	-	30677.044	4	.	.	9.0-	8.0	.	.	.	1.200	1.245*	45	-351	-345	12563.5907	
1	7956.999	3	23578.836	-	31535.835	0	.	.	5.0-	5.0	.	.	.	1.120	1.020*	100	-104	-102	12564.1149	
1	7951.629	3	31425.212	-	23473.585	2	.	.	7.0-	6.0	.	.	.	1.170	0.000*	0	239	240	12572.5999	
1	7951.471	2	21603.247	-	29554.716	2	.	.	2.0-	3.0	.	.	.	0.060	0.831*	771	-032	-33	12572.8497	
1	7949.492	3	15856.888	-	23906.381	-1	.	.	1.0-	1.0	.	.	.	1.103	0.094	1009	-065	-68	12575.9797	
1	7947.267	2	22377.599	-	30324.858	8	.	.	7.0-	7.0	.	.	.	1.076	1.170*	94	-135	-134	12579.5006	
	7945.820	3															-065		12581.6964	
1	7944.725	2	22705.158	-	30649.882	1	.	.	1.0-	0.0	.	.	.	-0.020	0.000*	0	-040	-43	12583.5256	
2	7944.058	2	21670.405	-	13726.318	1	.	.	1.5-	2.5	.	.	.	2.328	0.784	1544	440	440	12584.5346	
1	7940.758	2	25706.036	-	17765.281	3	.	.	2.0-	3.0	.	.	.	1.290	1.680*	390	151	153	12589.8120	
1	7939.038	2	20654.712	-	28593.749	1	.	.	1.0-	1.0	.	.	.	0.200	1.713	1513	-113	-110	12592.5396	
1	7935.422	2	23004.649	-	30940.068	3	.	.	5.0-	5.0	.	.	.	1.196	1.080	116	-052	-51	12598.2777	
1	7934.799	2	15424.337	-	23359.187	-1	.	.	3.0-	3.0	.	.	.	1.106	1.030*	76	-367	-369	12599.2669	
1	7934.167	1	23763.470	-	31697.633	4	.	.	4.0-	4.0	.	.	.	0.970	1.187*	217		22	12600.2705	
1	7931.680	2	17500.977	-	25432.655	2	.	.	1.0-	2.0	.	.	.	2.258	1.281	977	149	151	12604.2214	
1	7926.943	3	24742.092	-	32669.040	0	.	.	4.0-	3.0	.	.	.	0.980	1.000*	20	000	0	12611.7455	IS*
1	7924.654	1	18147.975	-	26072.627	2	.	.	3.0-	2.0	.	.	.	1.049	1.500*	451	-370	-370	12615.3963	
1	7923.388	2	30375.227	-	22451.834	-5	.	.	6.0-	5.0	.	.	.	1.320	0.000*	0	119	116	12617.4120	
1	7919.305	2	16834.379	-	24753.684	0	.	.	5.0-	4.0	.	.	.	0.961	0.975	14	-158	-157	12623.9172	
1	7918.245	2	23906.355	-	20988.110	0	.	.	3.0-	4.0	.	.	.	1.230	1.374	144	262	276	12625.6072	
1	7917.910	2	25371.962	-	33289.869	3	.	.	6.0-	5.0	.	.	.	1.165	1.095	70	094	94	12626.1413	
	7915.079	1															-008		12630.6574	
	7914.849	2																	12631.0244	
1	7914.407	3	26633.286	-	18718.882	3	.	.	1.0-	2.0	.	.	.	1.124	0.504	620	-287	-291	12631.7298	
1	7914.187	4	31019.305	-	23135.120	1	.	.	7.0-	8.0	.	.	.	0.000	0.000*	0	193	193	12632.0810	
1	7911.944	2	26009.000	-	33920.944	0	.	.	3.0-	2.0	.	.	.	0.870	1.040*	170	32	29	12635.6621	IS*
1	7911.557	3	20065.327	-	27976.881	3	.	.	3.0-	3.0	.	.	.	0.998	1.080	82	-144	-146	12636.2802	
2	7908.638	3	22341.990	-	14433.351	-1	.	.	0.5-	1.5	.	.	.	1.370	1.925	555	369	369	12640.9441	
1	7907.485	3	20065.327	-	27972.815	-3	.	.	3.0-	4.0	.	.	.	0.998	0.979	19	-079	-84	12642.7873	
1	7906.837	2	20654.712	-	28561.548	1	.	.	1.0-	2.0	.	.	.	0.200	0.784	584	094	95	12643.8234	
1	7902.784	2	22307.633	-	30210.416	1	.	.	3.0-	4.0	.	.	.	1.434	1.160*	274	-144	-139	12650.3079	
1	7902.613	2	17081.874	-	9179.262	1	.	.	4.0-	5.0	.	.	.	1.217	1.454	237	178	177	12650.5817	
1	7901.466	2	23550.352	-	31451.814	4	.	.	3.0-	4.0	.	.	.	1.090	1.080*	10	104	104	12652.4181	
1	7898.710	4	16304.260	-	24202.966	4	.	.	4.0-	5.0	.	.	.	1.285	1.012	273	-012	-9	12656.8327	IS*
1	7897.459	2	22416.990	-	30314.443	6	.	.	2.0-	3.0	.	.	.	1.675	1.140*	535	-047	-51	12658.8376	
1	7893.606	2	28565.887	-	20672.283	2	.	.	2.0-	2.0	.	.	.	0.911	1.430*	519	117	117	12665.0166	
1	7887.602	4	21737.407	-	29625.003	6	.	.	3.0-	2.0	.	.	.	1.026	0.910*	116	049	49	12674.6572	
1	7887.395	1	22509.712	-	30397.106	1	.	.	5.0-	5.0	.	.	.	1.237	1.005	282	-057	-57	12674.9898	
1	7886.278	4	24090.570	-	31976.844	4	.	.	7.0-	7.0	.	.	.	1.130	1.095	35	054	56	12676.7851	
1	7883.871	4	19059.958	-	26943.829	0	.	.	5.0-	5.0	.	.	.	1.375	1.220	155	-242	-243	12680.6554	
1	7882.410	1	24153.741	-	16276.332	1	.	.	2.0-	2.0	.	.	.	1.240	1.880*	640	104	106	12683.0058	
1	7881.045	5	29617.177	-	21736.133	1	.	.	7.0-	7.0	.	.	.	1.380	0.000*	0	098	98	12685.2025	
1	7880.495	3	14025.007	-	6144.515	3	.	.	4.0-	3.0	.	.	.	0.975	1.473	498	181	188	12686.0878	IS*

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	7878.305	5	12177.963	-	4299.659	1	.	.	1.0-	2.0	.	.	.	0.525	1.482	957	186	186	12689.6143	
1	7877.710	2	27334.422	-	35212.127	5	.	.	7.0-	6.0	.	.	.	1.240	1.130*	110	096	98	12690.5727	
1	7877.411	2	22666.777	-	30544.187	1	.	.	3.0-	3.0	.	.	.	0.977	0.946	31	-108	-108	12691.0544	
1	7876.777	2	26374.994	-	34251.764	7	.	.	4.0-	4.0	.	.	.	0.000	1.005	0	-012	-15	12692.0759	
1	7875.055	2	21307.390	-	29182.445	0	.	.	1.0-	1.0	.	.	.	2.350	0.000*	0		63	12694.8513	
1	7874.910	2	27975.402	-	35850.314	-2	.	.	7.0-	6.0	.	.	.	1.017	1.040*	23		60	12695.0850	
1	7873.937	2	19558.257	-	27432.195	-1	.	.	2.0-	1.0	.	.	.	-0.145	1.130*	1275	-109	-110	12696.6538	
1	7870.556	2	19236.116	-	27106.673	-1	.	.	7.0-	6.0	.	.	.	1.155	1.040	115	-124	-126	12702.1079	
1	7868.942	4	25192.231	-	17323.291	2	.	.	4.0-	4.0	.	.	.	1.768	1.250*	518	12	13	12704.7133	IS*
1	7867.258	1	29631.948	-	21764.690	0	.	.	5.0-	5.0	.	.	.	0.000	0.000*	0	152	151	12707.4328	
1	7866.740	3	21337.573	-	29204.308	5	.	.	4.0-	5.0	.	.	.	1.137	0.896	241	-156	-156	12708.2695	
1	7854.185	3	27643.693	-	19779.507	-1	.	.	4.0-	4.0	.	.	.	1.310	0.000*	0	123	123	12712.3983	
	7853.618	2					.	.			.	.	.				10		12713.3149	
	7853.394	2					.	.			.	.	.				-028		12713.6771	
1	7853.198	4	19265.603	-	27728.796	5	.	.	4.0-	3.0	.	.	.	1.100	1.060	40	-122	-122	12713.9940	
1	7852.833	3	23550.352	-	31413.230	5	.	.	3.0-	3.0	.	.	.	1.090	0.742*	348		111	12714.5033	
1	7862.311	3	17911.977	-	25774.228	0	.	.	5.0-	6.0	.	.	.	1.145	0.915	230	-191	-192	12715.4283	
1	7851.269	2	16155.109	-	24016.378	0	.	.	5.0-	5.0	.	.	.	0.948	1.560	612	-387	-386	12717.1138	
	7859.559	1					.	.			.	.	.						12719.8806	
1	7858.330	2	18591.122	-	26449.501	1	.	.	4.0-	3.0	.	.	.	0.965	0.940*	25	-261	-260	12721.7890	
2	7855.835	2	19243.335	-	12007.503	3	.	.	2.5-	1.5	.	.	.	0.921	-0.019	940	446	452	12725.9104	
1	7854.207	2	23413.710	-	31267.919	-2	.	.	4.0-	3.0	.	.	.	0.000	1.080*	0	-012	-13	12728.5482	IS*
1	7853.034	3	22307.633	-	30160.664	3	.	.	3.0-	4.0	.	.	.	1.434	1.030	404	-069	-69	12730.4494	
1	7852.158	1	22219.737	-	30071.890	5	.	.	4.0-	5.0	.	.	.	0.750	1.290*	540	-072	-65	12731.8697	
1	7848.258	4	9724.351	-	17572.608	1	.	.	3.0-	2.0	.	.	.	0.442	0.555	113	-370	-370	12738.1965	
1	7847.315	1	17031.874	-	24929.184	5	.	.	4.0-	4.0	.	.	.	1.217	1.080	137	-144	-147	12739.2722	
1	7844.335	3	24224.706	-	32669.040	1	.	.	4.0-	3.0	.	.	.	1.145	1.000*	145	-107	-103	12744.5669	
	7842.120	3					.	.			.	.	.				283		12748.1666	
1	7841.803	2	25113.744	-	32955.538	9	.	.	6.0-	6.0	.	.	.	1.302	1.265	37	-101	-100	12748.6820	
1	7840.706	3	20397.436	-	28539.138	4	.	.	7.0-	7.0	.	.	.	1.250	1.060	190	-190	-189	12750.4657	
1	7840.084	3	22122.030	-	14341.947	1	.	.	2.0-	2.0	.	.	.	1.295	0.852	443	092	91	12751.4772	
1	7839.983	2	18591.122	-	26431.101	4	.	.	4.0-	3.0	.	.	.	0.965	0.807	158		-244	12751.6415	
	7839.713	2					.	.			.	.	.						12752.0807	
1	7839.625	5	26696.083	-	18256.461	3	.	.	5.0-	5.0	.	.	.	1.315	1.325	10	115	116	12752.2238	
	7838.471	4					.	.			.	.	.				176		12754.1012	
1	7837.427	2	19594.767	-	27432.195	-1	.	.	0.0-	1.0	.	.	.	0.000	1.130*	0	-044	-43	12755.8002	
	7836.311	3					.	.			.	.	.				-040		12757.6168	
2	7836.134	2	28153.490	-	20322.349	-7	.	.	5.5-	6.5	.	.	.	1.140	1.314*	174	409	411	12757.9050	
1	7834.770	5	28156.938	-	20322.165	-3	.	.	6.0-	6.0	.	.	.	1.335	1.360*	25	126	126	12760.1261	
1	7834.378	3	22176.323	-	14341.947	2	.	.	1.0-	2.0	.	.	.	1.210	0.852*	358	181	181	12760.7645	
	7833.231	3					.	.			.	.	.						12762.6330	
1	7833.194	5	16532.104	-	24365.295	3	.	.	3.0-	3.0	.	.	.	0.300	1.475	1175	-184	-184	12762.6933	
1	7832.459	1	27731.032	-	35613.490	1	.	.	6.0-	5.0	.	.	.	1.250	1.090*	160		-28	12763.8910	
1	7832.198	4	29568.328	-	21736.133	3	.	.	7.0-	7.0	.	.	.	0.000	0.000*	0	170	172	12764.3163	
1	7830.716	2	24742.092	-	32572.811	-3	.	.	4.0-	5.0	.	.	.	0.980	1.010*	30	-066	-70	12766.7320	
1	7828.783	4	18578.669	-	26407.449	3	.	.	1.0-	2.0	.	.	.	1.932	0.972	960	045	51	12769.8843	
	7827.993	3					.	.			.	.	.				40		12771.1812	
	7827.976	2H					.	.			.	.	.						12771.2008	
1	7826.365	2	26301.732	-	34128.094	3	.	.	5.0-	4.0	.	.	.	1.060	0.000*	0	-035	-34	12773.8296	
1	7825.334	3	22389.053	-	30714.385	2	.	.	4.0-	4.0	.	.	.	1.263	1.150	113	-051	-55	12775.5126	
1	7824.552	3	16834.379	-	24658.931	0	.	.	5.0-	4.0	.	.	.	0.961	1.080	119	-	-46	12776.7894	
1	7824.469	2	23578.836	-	31403.302	3	.	.	5.0-	5.0	.	.	.	1.120	1.205*	85		-103	12776.9249	
1	7824.233	4	22719.949	-	30544.187	0	.	.	4.0-	3.0	.	.	.	1.070	0.946	124	+080	78	12777.3022	2 LNS
1	7824.238	4	20769.512	-	28593.749	1	.	.	2.0-	1.0	.	.	.	1.070	1.713*	643	-082	-87	12777.3022	2 LNS
1	7822.996	2	23909.585	-	31732.582	-1	.	.	5.0-	5.0	.	.	.	1.242	1.049	193	-113	-110	12779.3307	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	7820.692	5	20540.110	-	28360.802	0	.	.	3.0-	3.0	.	.	.	0.830	0.887*	57	108	109	12783.0956	
	7817.268	2																	12788.6946	
1	7817.175	5	17615.482	-	25432.655	2	.	.	2.0-	2.0	.	.	.	1.450	1.281	169	078	78	12788.8468	
1	7814.842	2	24091.173	-	16276.332	1	.	.	3.0-	2.0	.	.	.	1.245	1.830*	635	111	113	12792.6647	IS*
1	7814.495	3	23314.130	-	31628.619	6	.	.	6.0-	6.0	.	.	.	0.890	1.110	220	092	93	12793.2327	
1	7813.971	3	19059.953	-	26873.930	-1	.	.	5.0-	6.0	.	.	.	1.375	1.125	250	-054	-55	12794.0906	
1	7811.782	3	20306.482	-	23118.262	2	.	.	4.0-	3.0	.	.	.	1.123	1.250*	127	-020	-18	12797.6758	IS*
1	7810.620	2	30262.453	-	22451.834	1	.	.	6.0-	5.0	.	.	.	1.284	0.000*	0	150	149	12799.5797	
1	7809.401	4	17500.977	-	25310.375	3	.	.	1.0-	0.0	.	.	.	2.258	0.000	0	125	125	12801.5777	
1	7806.644	2	25121.896	-	32928.540	0	.	.	1.0-	2.0	.	.	.	1.444	1.060*	384	16	18	12806.0987	IS*
1	7805.028	3	23281.721	-	31086.744	5	.	.	5.0-	5.0	.	.	.	1.235	0.795	440	174	172	12808.7501	
1	7804.705	5	23550.352	-	15745.648	1	.	.	3.0-	3.0	.	.	.	1.090	1.145*	55	158	159	12809.2802	
1	7804.257	3	19426.512	-	27230.763	1	.	.	3.0-	4.0	.	.	.	1.435	0.000*	0	-295	-296	12810.0156	
1	7799.176	4	22416.990	-	30216.163	3	.	.	2.0-	2.0	.	.	.	1.675	1.143	532	32	28	12818.3610	IS*
1	7796.592	2	31540.149	-	23743.557	0	.	.	7.0-	6.0	.	.	.	1.205	0.000*	0	241	240	12822.6094	
1	7796.134	2	22518.312	-	30314.443	3	.	.	2.0-	3.0	.	.	.	1.350	1.140*	210		-59	12823.3627	
1	7794.671	3	22131.358	-	29976.039	0	.	.	3.0-	4.0	.	.	.	0.780	1.070*	290	41	43	12825.7695	IS*
	7793.436	4															157		12827.7032	
1	7791.301	5	24090.570	-	31881.871	0	.	.	7.0-	7.0	.	.	.	1.130	1.120	10	073	73	12831.3171	
1	7791.144	2	24613.274	-	32404.416	2	.	.	5.0-	5.0	.	.	.	1.160	1.055	105		48	12831.5757	
1	7789.649	2	26317.729	-	34107.378	0	.	.	4.0-	3.0	.	.	.	1.180	1.160*	20	025	25	12834.0383	
1	7788.998	3M	31724.867	-	39513.870	-5*	.	.	2.0-	1.0	.	.	.	1.016	0.965	51		0	12835.1110	
1	7788.966	3	20043.465	-	27832.430	1	.	.	5.0-	4.0	.	.	.	0.925	0.920	5	146	147	12835.1637	
1	7788.749	3	21350.311	-	29139.061	-1	.	.	2.0-	2.0	.	.	.	0.350	0.000*	0		-275	12835.5213	
1	7784.934	2	23413.710	-	31198.642	2	.	.	4.0-	3.0	.	.	.	0.000	1.070*	0	-012	-12	12841.8114	IS*
1	7783.983	2	19959.027	-	27743.009	1	.	.	1.0-	2.0	.	.	.	0.760	0.568*	192	283	283	12843.3803	
2	7783.894	2	23272.420	-	15488.530	4	.	.	2.5-	3.5	.	.	.	0.951	1.057	106		317	12843.5272	C2
1	7783.894	2	25974.634	-	33753.523	5	.	.	6.0-	5.0	.	.	.	1.370	0.830*	540	024	-49	12843.5272	C2
1	7781.605	3	27124.898	-	19343.298	5	.	.	2.0-	3.0	.	.	.	1.190	1.135*	55	203	203	12847.3052	
1	7779.144	5	21307.390	-	13528.246	0	.	.	1.0-	1.0	.	.	.	2.360	-0.590*	2950	152	152	12851.3695	
1	7777.975	2	29068.029	-	21270.050	-4	.	.	2.0-	2.0	.	.	.	1.284	0.000*	0		166	12853.3010	
1	7774.913	2	23100.837	-	30875.798	2	.	.	3.0-	4.0	.	.	.	1.520	1.080*	440		71	12858.3631	
1	7774.817	4	17500.977	-	25275.795	-1	.	.	1.0-	1.0	.	.	.	2.258	0.706	1552	091	92	12858.5218	
1	7772.374	2	23763.470	-	31535.835	9	.	.	4.0-	5.0	.	.	.	0.970	1.020*	50	-151	-154	12862.5635	
1	7771.835	3	22818.840	-	30590.673	2	.	.	6.0-	6.0	.	.	.	1.335	0.000*	0	-370	-369	12863.4556	
1	7770.186	3	16595.109	-	24365.295	0	.	.	3.0-	3.0	.	.	.	0.999	1.475	476	-353	-355	12866.1855	
1	7769.874	2	18591.122	-	26360.997	-1	.	.	4.0-	5.0	.	.	.	0.965	0.796	169	-229	-229	12866.7021	
	7767.002	2															-065		12871.4599	
1	7762.542	3	21031.258	-	28793.800	0	.	.	2.0-	3.0	.	.	.	1.455	1.083	372	24	24	12878.8552	IS*
1	7762.071	3	26283.495	-	34045.560	6	.	.	7.0-	7.0	.	.	.	1.080	1.170*	90	096	96	12879.6367	
1	7761.697	5	20043.465	-	27805.163	-1	.	.	5.0-	5.0	.	.	.	0.925	1.024	99	090	90	12880.2573	
1	7759.859	4	18591.122	-	26350.932	-1	.	.	4.0-	4.0	.	.	.	0.965	0.796	169	-129	-129	12883.3081	
1	7758.493	2	18602.505	-	26360.997	6	.	.	6.0-	5.0	.	.	.	0.910	0.796	114	-012	-16	12885.5681	IS*
	7757.721	1															217		12886.8587	
	7757.188	3															127		12887.7442	
1	7755.709	7	16532.104	-	24287.814	-1	.	.	3.0-	3.0	.	.	.	0.300	0.585	285	+	33	12890.2019	
1	7753.918	2	21515.136	-	29269.059	-5	.	.	1.0-	1.0	.	.	.	1.180	1.110*	70	-111	-121	12893.1793	
1	7753.682	1	27096.974	-	19343.298	6	.	.	4.0-	3.0	.	.	.	1.180	1.135*	45		259	12893.5717	
	7752.489	2																	12895.5558	
	7752.035	1																	12896.3111	
	7751.657	2																	12896.9399	
1	7751.299	6	25074.585	-	17323.291	5	.	.	4.0-	4.0	.	.	.	1.507	1.250*	257	064	64	12897.5356	
1	7749.946	2	26606.405	-	18855.461	2	.	.	5.0-	5.0	.	.	.	1.130	1.325*	195	192	191	12899.7873	
1	7748.103	2	24524.706	-	32572.811	-2	.	.	4.0-	5.0	.	.	.	1.145	1.010*	135	-173	-173	12902.8557	
1	7746.746	3	19776.904	-	27523.650	0	.	.	6.0-	6.0	.	.	.	1.012	1.080	68	-121	-118	12905.1159	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	-	J1	J2	-	J1	G2	G1	DG	G2	G1	DG			IS	IS
1	7746.143	4	21263.339	-	29009.483	-1	.	.	5.0-	4.0	.	.	.	0.610	0.695*	85	101	101	12906.1205	
1	7745.995	3	15406.760	-	23152.755	0	.	.	1.0-	2.0	.	.	.	0.890	0.580	310	-344	-342	12906.3671	
1	7745.194	2	25064.653	-	32809.844	3	.	.	3.0-	4.0	.	.	.	0.980	0.900	80	24	32	12907.7019	IS*
1	7744.283	3	15856.838	-	23601.171	0	.	.	1.0-	1.0	.	.	.	1.103	0.565	538	-215	-216	12909.2203	
1	7743.613	2	25113.744	-	32857.357	0	.	.	6.0-	6.0	.	.	.	1.302	1.101	201	12	17	12910.3372	IS*
1	7743.113	3	17911.977	-	25655.090	0	.	.	5.0-	4.0	.	.	.	1.145	1.165	20	-294	-295	12911.1709	
1	7741.452	3	22719.949	-	30461.399	2	.	.	4.0-	5.0	.	.	.	1.070	0.990	80	40	37	12913.9411	
1	7741.365	3	25064.653	-	17323.291	3	.	.	3.0-	4.0	.	.	.	0.980	1.250*	270	148	148	12914.0862	
	7735.471	1					.	.			.	.	.						12918.9158	
1	7735.684	3	22377.599	-	30113.280	3	.	.	7.0-	6.0	.	.	.	1.076	1.050	26	-125	-125	12923.5702	
1	7732.936	3	20385.328	-	28118.262	2	.	.	2.0-	3.0	.	.	.	1.911	1.250*	661	230	229	12928.1628	
1	7731.993	3	19865.603	-	27597.590	6	.	.	4.0-	4.0	.	.	.	1.100	0.930	170	-096	-97	12929.7395	
1	7728.446	2	17500.977	-	9772.532	1	.	.	1.0-	0.0	.	.	.	2.258	0.000	0	40	40	12935.6737	IS*
1	7724.496	4	15249.635	-	22974.132	-1	.	.	2.0-	3.0	.	.	.	0.715	1.147	432	-145	-146	12942.2885	
1	7722.636	2	24381.050	-	32103.687	-1	.	.	5.0-	4.0	.	.	.	1.450	1.040*	410	088	86	12945.4056	
1	7721.893	2	17045.776	-	24767.674	-5	.	.	1.0-	2.0	.	.	.	1.474	1.455	19		-130	12946.6512	
	7721.082	2					.	.			.	.	.						12948.0111	
	7720.584	1					.	.			.	.	.						12948.8463	
	7719.983	2					.	.			.	.	.						12949.8544	
1	7718.102	3	26150.730	-	33868.834	-2	.	.	8.0-	9.0	.	.	.	0.000	1.165*	0	-048	-59	12953.0104	IS*
1	7717.558	3	23550.352	-	31267.919	1	.	.	3.0-	3.0	.	.	.	1.090	1.080*	10	127	122	12953.9067	IS*
	7717.120	2					.	.			.	.	.						12954.6587	
1	7716.959	3	22416.990	-	30133.953	5	.	.	2.0-	3.0	.	.	.	1.675	1.200*	475		-22	12954.9139	
1	7714.504	3	28036.676	-	20322.165	-7	.	.	6.0-	6.0	.	.	.	1.216	1.360*	144	208	209	12959.0516	
	7714.351	1					.	.			.	.	.				008		12959.3087	
	7712.209	2H					.	.			.	.	.						12962.9080	
1	7712.137	3	27651.193	-	19939.052	-4	.	.	2.0-	3.0	.	.	.	1.570	0.000*	0	182	181	12963.0290	
1	7710.787	1	25044.687	-	32755.472	2	.	.	4.0-	4.0	.	.	.	1.210	1.005*	205	-258	-266	12965.2986	
1	7710.215	2	20425.711	-	28135.924	2	.	.	1.0-	2.0	.	.	.	1.340	1.101	239		-100	12966.2604	CQ ISQ
1	7709.741	3	23004.649	-	30714.385	5	.	.	5.0-	4.0	.	.	.	1.196	1.150	46	-061	-63	12967.0576	
1	7709.647	2	16238.909	-	9179.262	0	.	.	6.0-	5.0	.	.	.	1.098	1.454	356	182	185	12967.2157	
1	7709.176	2	21031.258	-	28740.433	1	.	.	2.0-	3.0	.	.	.	1.455	0.970	485	046	48	12968.0080	
1	7706.552	2	22666.777	-	30373.329	0	.	.	3.0-	4.0	.	.	.	0.977	1.345	368	-251	-262	12972.4235	
1	7705.404	2	23766.136	-	31471.542	-2	.	.	1.0-	1.0	.	.	.	2.162	2.188	26	237	236	12974.3562	
1	7704.723	2	19865.603	-	27570.322	4	.	.	4.0-	3.0	.	.	.	1.100	1.265	165	-340	-342	12975.5029	
	7701.958	2					.	.			.	.	.				151		12980.1611	
1	7701.250	2	25717.388	-	33418.637	1	.	.	5.0-	5.0	.	.	.	0.970	0.872*	98		-22	12981.3545	
	7700.958	1					.	.			.	.	.						12981.8467	
	7700.849	1					.	.			.	.	.						12982.0304	
1	7699.831	2	23578.836	-	31278.667	0	.	.	5.0-	5.0	.	.	.	1.120	1.010*	110	078	83	12983.7468	IS*
1	7699.469	5	28021.637	-	20322.165	-3	.	.	5.0-	6.0	.	.	.	1.400	1.360*	40	141	141	12984.3572	
1	7699.180	4	18591.122	-	26290.302	-20	.	.	4.0-	5.0	.	.	.	0.965	1.125	160	-354	-355	12984.8784	SIGMA*
1	7699.122	7	16532.104	-	24231.226	0	.	.	3.0-	2.0	.	.	.	0.300	0.411	111	126	132	12984.9424	
1	7697.946	3	21350.311	-	29048.255	2	.	.	2.0-	1.0	.	.	.	0.350	0.900*	550	-169	-176	12986.9261	
1	7697.855	2	22518.312	-	30216.163	4	.	.	2.0-	2.0	.	.	.	1.350	1.143	207		20	12987.0797	
	7693.377	3					.	.			.	.	.				359		12994.6389	
1	7692.702	4	16595.109	-	24287.814	-3	.	.	3.0-	3.0	.	.	.	0.999	0.585	414	-137	-138	12995.7791	
1	7691.703	2	24613.274	-	32304.979	-2	.	.	5.0-	4.0	.	.	.	1.160	0.990*	170	-039	-91	12997.4670	
1	7691.105	4	13725.661	-	21417.765	1	.	.	3.0-	4.0	.	.	.	1.150	0.802	318	32	33	12998.4776	IS*
1	7690.258	2	21600.100	-	29290.355	3	.	.	6.0-	6.0	.	.	.	1.390	0.920	470	-208	-208	12999.9093	
	7689.092	2					.	.			.	.	.				-093		13001.8306	
1	7688.529	1	18672.411	-	26360.997	3	.	.	6.0-	5.0	.	.	.	1.190	0.796*	394	-248	-247	13002.7312	
1	7688.040	1	25662.969	-	33351.007	2	.	.	5.0-	6.0	.	.	.	1.330	1.240*	90	+	7	13003.6598	
1	7682.005	4	16520.962	-	24202.966	1	.	.	5.0-	5.0	.	.	.	0.736	1.012	276	211	209	13013.8755	
1	7681.656	3	31425.212	-	23743.557	1	.	.	7.0-	6.0	.	.	.	1.170	0.000*	0	259	243	13014.4667	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7690.893	2	25074.585	-	32755.472	1	.	.	4.0-	4.0	.	.	.	1.507	1.005	502	016	20	13015.7680	
2	7679.454	3	21670.405	-	13990.952	1	.	.	1.5-	1.5	.	.	.	2.328	1.728	600	135	137	13018.1985	
	7679.051	3					.	.			.	.	.				-342		13019.2208	
1	7673.349	3	19759.027	-	27637.377	-1	.	.	1.0-	1.0	.	.	.	0.760	1.280*	520	080	80	13020.0720	
1	7678.113	2	22176.323	-	29354.442	-6	.	.	1.0-	1.0	.	.	.	1.210	1.180*	30	-028	-34	13020.4722	IS*
1	7677.683	4	20065.327	-	27743.009	1	.	.	3.0-	2.0	.	.	.	0.998	0.563	430	-032	-36	13021.2014	
1	7672.412	1	22182.030	-	29854.442	0	.	.	2.0-	1.0	.	.	.	1.295	1.180*	115	56	56	13030.1471	
1	7671.910	2	21337.573	-	29009.483	0	.	.	4.0-	4.0	.	.	.	1.137	0.695	442		-115	13030.9997	
1	7671.811	4	17081.874	-	24753.684	1	.	.	4.0-	4.0	.	.	.	1.217	0.975	242	-174	-174	13031.1678	
1	7671.161	3	21993.645	-	29669.807	-1	.	.	7.0-	6.0	.	.	.	1.269	1.150	119	-160	-160	13032.2720	
1	7668.064	2	23413.710	-	15745.648	2	.	.	4.0-	3.0	.	.	.	0.000	1.145*	0		294	13037.5355	
1	7666.216	2	22219.737	-	29335.947	6	.	.	4.0-	3.0	.	.	.	0.750	1.330*	580	-140	-137	13040.6783	
1	7665.581	3	21307.390	-	28972.971	0	.	.	1.0-	2.0	.	.	.	2.360	0.794*	1566	039	48	13041.7586	
1	7665.215	1	23274.853	-	36940.068	5	.	.	4.0-	5.0	.	.	.	1.604	1.080	524	154	152	13042.3813	
1	7663.621	3	24347.551	-	32011.173	-1	.	.	3.0-	3.0	.	.	.	1.300	1.140*	160	40	38	13045.0941	IS*
1	7663.470	3	20065.327	-	27728.796	1	.	.	3.0-	3.0	.	.	.	0.998	1.060	62	-130	-131	13045.3511	
1	7662.274	2	26253.661	-	33920.944	-9	.	.	3.0-	2.0	.	.	.	0.965	1.040*	75	-032	-28	13047.3874	IS*
1	7662.192	1	16304.260	-	23966.450	2	.	.	4.0-	3.0	.	.	.	1.285	0.760	525	-172	-170	13047.5270	IS*
2	7661.414	2	24700.905	-	17039.487	-4	.	.	0.5-	1.5	.	.	.	2.025	1.354	671		364	13048.8519	
	7661.279	1					.	.			.	.	.						13049.0819	
	7661.196	2					.	.			.	.	.						13049.2233	
	7660.899	2					.	.			.	.	.						13049.7291	
1	7660.539	7	20877.600	-	28538.138	1	.	.	7.0-	7.0	.	.	.	1.060	1.060*	0	36	36	13050.3424	
1	7660.314	4	17615.482	-	25275.795	1	.	.	2.0-	1.0	.	.	.	1.450	0.706	744	20	19	13050.7257	
1	7659.801	2	26516.261	-	18856.461	1	.	.	5.0-	5.0	.	.	.	1.200	1.325*	125		263	13051.5998	
1	7659.665	2	29068.029	-	36727.705	-11	.	.	2.0-	3.0	.	.	.	1.284	0.905	379		41	13051.8315	
	7659.358	1					.	.			.	.	.						13052.3376	
	7658.210	2					.	.			.	.	.						13054.3113	
1	7653.090	1	25662.969	-	33321.067	-8	.	.	5.0-	5.0	.	.	.	1.330	1.200*	130		-143	13054.5158	
	7656.615	1					.	.			.	.	.						13057.0307	
1	7656.502	2	30056.252	-	22409.753	3	.	.	1.0-	2.0	.	.	.	0.476	1.413	937	102	120	13057.2234	ISQ
	7656.407	1					.	.			.	.	.						13057.3854	
1	7655.715	2	23315.209	-	30970.926	-2	.	.	2.0-	1.0	.	.	.	1.335	0.295	1040	060	59	13058.5657	
	7654.171	2					.	.			.	.	.						13061.1999	
1	7653.238	2	27975.402	-	20322.165	1	.	.	7.0-	6.0	.	.	.	1.017	1.360*	343	160	162	13062.7921	
1	7653.119	2	22429.984	-	30033.102	1	.	.	4.0-	5.0	.	.	.	1.279	1.150*	129	+	13	13062.9953	
	7652.123	2					.	.			.	.	.						13064.6955	
1	7651.342	4	20709.458	-	28360.802	-2	.	.	3.0-	3.0	.	.	.	1.240	0.887	353	104	105	13066.0291	
	7651.177	1					.	.			.	.	.				-086		13066.3109	ISQ
1	7649.734	3	15424.387	-	7774.653	0	.	.	3.0-	4.0	.	.	.	1.106	1.463	357	179	178	13068.7756	
1	7649.325	3	26664.150	-	34313.475	0	.	.	6.0-	6.0	.	.	.	1.135	1.030*	105	039	43	13069.4744	IS*
1	7647.487	2	23705.495	-	31352.983	-1	.	.	7.0-	7.0	.	.	.	1.277	0.000*	0	-240	-240	13072.6155	
1	7647.186	2	24970.474	-	17323.291	3	.	.	4.0-	4.0	.	.	.	1.460	1.250*	210	169	170	13073.1301	
	7643.235	0					.	.			.	.	.						13079.8380	
1	7641.908	3	22429.984	-	30071.890	2	.	.	4.0-	5.0	.	.	.	1.279	1.290*	11	-078	-77	13082.1593	
2	7641.639	2	24337.360	-	16745.720	-1	.	.	1.5-	2.5	.	.	.	0.955	1.671	716		571	13082.6198	
1	7640.067	2	27334.422	-	34974.486	3	.	.	7.0-	7.0	.	.	.	1.240	1.135*	105	094	95	13085.3116	
1	7635.753	3	19272.154	-	27510.909	-2	.	.	9.0-	8.0	.	.	.	1.199	0.000*	0	-160	-163	13087.5625	
1	7638.596	2	21938.645	-	29637.242	-1	.	.	7.0-	6.0	.	.	.	1.269	1.020	249	-203	-200	13087.8315	
1	7638.065	1	23037.432	-	30675.497	0	.	.	1.0-	2.0	.	.	.	0.870	0.375	495		-171	13088.7414	
1	7637.812	3	19236.116	-	26373.930	-2	.	.	7.0-	6.0	.	.	.	1.155	1.125	30	-060	-60	13089.1750	
	7637.263	2					.	.			.	.	.				-245		13090.1159	
1	7636.919	2	24347.551	-	31984.470	0	.	.	3.0-	3.0	.	.	.	1.300	1.090*	210	128	126	13090.7055	
1	7635.115	3	16595.109	-	24231.226	-2	.	.	3.0-	2.0	.	.	.	0.999	0.411	538	-034	-39	13092.0838	
1	7633.499	2	19203.415	-	26836.911	3	.	.	2.0-	2.0	.	.	.	1.021	1.260*	239	-274	-276	13096.5705	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
2	7632.732	2	21359.050-13726.318			0	.	.	2.5-	2.5	.	.	.	1.254	0.784	470	481	481	13097.8865	
1	7631.831	1	23550.352-31182.179			4	.	.	3.0-	4.0	.	.	.	1.090	1.210*	120		-47	13099.4328	
1	7631.145	2	16734.151-24365.295			1	.	.	2.0-	3.0	.	.	.	0.928	1.475	547	-380	-379	13100.6104	
1	7629.531	2	24613.274-32242.810			-5	.	.	5.0-	5.0	.	.	.	1.160	1.215	55	-102	-103	13103.3818	
1	7628.497	3	23413.710-31042.204			3	.	.	4.0-	3.0	.	.	.	0.000	1.010*	0	24	23	13105.1579	IS*
1	7628.180	2H	27975.402-35603.582			0	.	.	7.0-	6.0	.	.	.	1.017	1.070*	53	060	54	13105.7025	SIGMA*
1	7627.163	3	29118.602-21491.439			0	.	.	4.0-	3.0	.	.	.	1.510	0.000*	0	178	177	13107.4500	
1	7626.896	2	25662.969-33289.869			-4	.	.	5.0-	5.0	.	.	.	1.330	1.095*	235	-082	-87	13107.9089	
1	7626.252	1	23909.535-31535.835			2	.	.	5.0-	5.0	.	.	.	1.242	1.020	222	-181	-182	13109.0158	
2	7625.050	3	19632.555-12007.503			-2	.	.	1.5-	1.5	.	.	.	1.010	-0.019*	1029	456	448*	13111.0823	
1	7624.787	4	17500.977-25125.763			1	.	.	1.0-	1.0	.	.	.	2.258	0.314	1944	098	101	13111.5345	
1	7623.925	1	21515.136-29139.061			0	.	.	1.0-	2.0	.	.	.	1.180	0.000*	0	-283	-286	13113.0170	
1	7622.793	2	26250.080-18627.281			-1	.	.	1.0-	1.0	.	.	.	1.290	0.000*	0	199	196	13114.9557	
1	7622.659	4	21350.311-28972.971			-1	.	.	2.0-	2.0	.	.	.	0.350	0.794*	444	-116	-114	13115.1948	
1	7522.274	1	27054.840-34677.111			3	.	.	4.0-	4.0	.	.	.	1.225	1.080	145	+	11	13115.8573	
1	7616.440	3	12322.613-19939.052			1	.	.	2.0-	3.0	.	.	.	1.036	0.000*	0	-410	-411	13125.9037	
1	7616.114	1	24012.505-31628.619			0	.	.	6.0-	6.0	.	.	.	1.248	1.110	138	-071	-65	13126.4655	
1	7615.641	3	22518.312-30133.953			0	.	.	2.0-	3.0	.	.	.	1.350	1.200*	150	-032	-30	13127.2808	
1	7614.465	4	18591.122-26205.589			-2	.	.	4.0-	3.0	.	.	.	0.965	0.701	264	-182	-181	13129.3082	
1	7614.263	2H	22307.633-29921.899			-3	.	.	3.0-	2.0	.	.	.	1.434	1.070*	364		-165	13129.6566	
1	7614.178	5	32256.529-24652.353			2	.	.	8.0-	9.0	.	.	.	0.000	0.000*	0	174	175	13129.8031	
1	7613.731	1	23763.470-31377.193			8	.	.	4.0-	4.0	.	.	.	0.970	0.973*	3	-052	-52	13130.5740	
1	7613.037	2	22705.158-30318.195			0	.	.	1.0-	2.0	.	.	.	-0.020	0.940*	960	-032	-32	13131.7709	
1	7612.738	3	21737.407-29350.139			6	.	.	3.0-	3.0	.	.	.	1.026	0.910	116	053	51	13132.2867	IS*
	7611.301	1					.	.			.	.	.				-071		13134.7661	
1	7609.815	3	24456.635-32066.452			-2	.	.	3.0-	2.0	.	.	.	1.000	0.910*	90	-061	-66	13137.3310	
2	7605.597	4	22038.950-14433.351			-2	.	.	0.5-	1.5	.	.	.	0.344	1.925	1581	189	188	13144.6168	
1	7604.356	2	25064.653-32669.040			-1	.	.	3.0-	3.0	.	.	.	0.980	1.000*	20	058	64	13146.7101	
1	7604.268	3	16202.112-23306.331			-1	.	.	0.0-	1.0	.	.	.	0.000	0.094	0	-050	-51	13146.9141	
1	7603.677	2	25717.388-33321.067			-2	.	.	5.0-	5.0	.	.	.	0.970	1.200*	230	056	55	13147.9360	IS*
	7603.533	2					.	.			.	.	.						13148.0985	
1	7601.641	4	14737.788-22339.429			0	.	.	3.0-	2.0	.	.	.	0.815	1.049	234	-179	-178	13151.4575	
1	7601.171	2	23413.710-31014.877			4	.	.	4.0-	4.0	.	.	.	0.000	1.170*	0	-028	-26	13152.2707	IS*
1	7600.739	2	26283.495-33884.230			4	.	.	7.0-	7.0	.	.	.	1.080	1.105	25	-067	-67	13153.0182	
	7599.735	2					.	.			.	.	.				190		13154.7541	
1	7599.650	2	19959.027-27558.688			-1	.	.	1.0-	0.0	.	.	.	0.760	0.000*	0	080	78	13154.8857	
1	7599.389	3	22416.990-30016.377			2	.	.	2.0-	2.0	.	.	.	1.675	1.140	535	-073	-78	13155.3548	
1	7597.185	2	27536.235-19939.052			1	.	.	3.0-	3.0	.	.	.	1.355	0.000*	0	224	223	13159.1713	
1	7595.814	2	20540.110-29135.924			0	.	.	3.0-	2.0	.	.	.	0.830	1.101*	271	-125	-125	13161.5464	
1	7594.453	2	25074.585-32669.040			-2	.	.	4.0-	3.0	.	.	.	1.507	1.000*	507	148	148	13163.9051	
1	7593.191	4	17615.482-25208.672			1	.	.	2.0-	2.0	.	.	.	1.450	0.490	960	16	15	13166.0930	IS*
1	7592.935	3	17045.776-24638.713			-2	.	.	1.0-	2.0	.	.	.	1.474	0.000*	0	-134	-134	13166.5369	
1	7592.405	1	16888.909-24481.313			1	.	.	6.0-	6.0	.	.	.	1.098	0.000*	0		-251	13167.4560	
	7592.120	2					.	.			.	.	.						13167.9503	
1	7591.557	2	20385.328-27976.881			4	.	.	2.0-	3.0	.	.	.	1.911	1.080	831	114	115	13168.9268	
1	7591.291	4	20769.512-28360.802			1	.	.	2.0-	3.0	.	.	.	1.070	0.837*	183	162	161	13169.3883	
1	7589.733	2	16734.151-24323.884			0	.	.	2.0-	1.0	.	.	.	0.928	0.800*	123	-189	-185	13172.0916	
1	7589.050	2	24381.050-31970.100			0	.	.	5.0-	4.0	.	.	.	1.450	1.100*	350	038	80	13173.2771	
1	7588.222	2	24149.361-31732.582			1	.	.	5.0-	5.0	.	.	.	1.262	1.049	213		-40	13183.4013	
1	7582.309	3	27361.817-19779.507			-1	.	.	3.0-	4.0	.	.	.	1.310	0.000*	0	160	159	13184.9887	
1	7582.150	1	13726.661- 6144.515			4	.	.	3.0-	3.0	.	.	.	1.150	1.473	323	194	189	13185.2652	IS*
	7582.023	3					.	.			.	.	.						13185.4757	
	7581.953	2					.	.			.	.	.						13185.6078	
1	7581.679	2	28569.792-20988.110			-3	.	.	3.0-	4.0	.	.	.	1.245	1.374	129	144	148	13186.0844	IS*
1	7581.499	3	22088.306-29669.807			-2	.	.	6.0-	6.0	.	.	.	1.060	1.150	90	068	68	13186.3974	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7501.333	2	19074.292-26655.622	3	.	.	.	2.0-	3.0	.	.	.	1.532	1.015	517	+	26	13186.6861	
1	7503.792	4	9724.351-17305.142	1	.	.	.	3.0-	2.0	.	.	.	0.442	0.000*	0	-155	-155	13187.6272	
1	7509.605	2	24903.894-17323.291	5	.	.	.	3.0-	4.0	.	.	.	0.915	1.250*	335	316	320	13187.9473	
1	7577.057	5	17081.874-24658.931	0	.	.	.	4.0-	4.0	.	.	.	1.217	1.080	137	-063	-63	13194.1279	
2	7575.964	2	24615.450-17039.487	1	.	.	.	1.5-	1.5	.	.	.	1.011	1.354	343	422	422	13196.0314	
1	7575.724	1	31049.306-23473.535	3	.	.	.	7.0-	6.0	.	.	.	0.000	0.000*	0	194	196	13196.4495	
1	7574.918	2	26317.729-33392.650	-3	.	.	.	4.0-	3.0	.	.	.	1.180	1.050*	120	28	33	13197.8536	IS*
1	7571.197	3	21253.339-28834.535	1	.	.	.	5.0-	5.0	.	.	.	0.610	0.978*	368	118	119	13204.3400	
	7569.781	2															263	13206.8100	
1	7569.564	4	23315.209-15745.648	3	.	.	.	2.0-	3.0	.	.	.	1.335	1.145	190	172	172	13207.1886	
1	7565.239	2	22160.184-29725.422	1	.	.	.	8.0-	7.0	.	.	.	1.230	1.220	10	-319	-319	13214.7391	
1	7562.488	1	21031.238-28593.749	-3	.	.	.	2.0-	1.0	.	.	.	1.455	1.713	258		-59	13219.5462	
1	7562.181	3	22509.712-30071.890	3	.	.	.	5.0-	5.0	.	.	.	1.287	1.290*	3	-247	-247	13220.0828	
1	7562.064	3	29118.602-21556.538	0	.	.	.	4.0-	4.0	.	.	.	1.510	1.290*	220	201	201	13220.2874	
1	7559.598	5	18045.108-25605.707	-1	.	.	.	4.0-	4.0	.	.	.	0.694	1.160	466	041	45	13224.6000	
1	7558.296	2	24381.050-31939.345	1	.	.	.	5.0-	6.0	.	.	.	1.450	1.200*	250	-057	-55	13226.8780	
	7555.846	2															258	13231.1669	
	7555.323	2															10	13232.0828	IS*
1	7554.537	3	24456.635-32011.173	-1	.	.	.	3.0-	3.0	.	.	.	1.000	1.140*	140	8	7	13233.4595	IS*
1	7554.127	4	20043.465-27597.590	2	.	.	.	5.0-	4.0	.	.	.	0.925	0.930	5	134	132	13234.1778	
1	7551.415	3	26894.711-19343.298	2	.	.	.	3.0-	3.0	.	.	.	1.465	1.135	330	214	212	13238.9307	
1	7550.682	2	23735.353-31286.029	6	.	.	.	2.0-	2.0	.	.	.	0.935	1.280*	345	152	150	13240.2159	
1	7549.289	2	25121.896-17572.608	1	.	.	.	1.0-	2.0	.	.	.	1.444	0.555	889	143	144	13242.6590	
1	7548.273	1	24149.361-31697.633	1	.	.	.	5.0-	4.0	.	.	.	1.262	1.187	75	60	64	13244.4414	IS*
1	7546.034	2H	25636.914-33182.933	15	.	.	.	6.0-	6.0	.	.	.	1.335	1.050	285	061	62	13248.3712	IS* C2
1	7546.034	2H	22429.984-29976.039	-21	.	.	.	4.0-	4.0	.	.	.	1.279	1.070	209	061	56	13248.3712	IS* C2
1	7545.347	3	17615.482-25160.827	2	.	.	.	2.0-	3.0	.	.	.	1.450	0.800	650	40	42	13249.5775	IS*
1	7545.174	4	20425.711-27970.881	4	.	.	.	1.0-	2.0	.	.	.	1.340	0.194	1146	45	45	13249.8813	IS*
1	7542.804	1	28832.853-21290.050	1	.	.	.	2.0-	2.0	.	.	.	0.000	0.000*	0	199	196	13254.0445	
1	7542.228	1	23909.585-31451.814	-1	.	.	.	5.0-	4.0	.	.	.	1.242	1.080	162	-020	-23	13255.0567	IS*
1	7541.055	3	11840.715- 4299.659	0	.	.	.	3.0-	2.0	.	.	.	0.811	1.482	671	188	188	13257.1167	
1	7540.085	1	23274.853-30814.939	4	.	.	.	4.0-	5.0	.	.	.	1.604	1.111	493	24	14	13258.8240	IS*
1	7537.457	2	21812.682-29350.139	0	.	.	.	4.0-	3.0	.	.	.	1.040	0.910	130	-016	-20	13263.4468	IS*
1	7537.076	2	17045.776-24582.849	3	.	.	.	1.0-	2.0	.	.	.	1.474	0.640	834	231	230	13264.1173	
1	7534.752	5	19776.904-27311.658	-2	.	.	.	6.0-	5.0	.	.	.	1.012	1.035	23	-090	-90	13268.2084	
1	7533.508	2	26009.000-33542.506	2	.	.	.	3.0-	2.0	.	.	.	0.870	1.123*	253	-008	-8	13270.3994	IS*
1	7532.908	2	31151.870-23518.964	2	.	.	.	2.0-	3.0	.	.	.	1.632	0.000*	0	100	98	13271.4564	
1	7532.744	1	22671.390-30204.635	-1	.	.	.	1.0-	1.0	.	.	.	0.599	0.590*	9	-118	-120	13271.7453	
1	7530.624	2	29295.313-21764.690	1	.	.	.	4.0-	5.0	.	.	.	1.270	0.000*	0	215	214	13275.4816	
1	7530.396	2	24742.092-32272.487	1	.	.	.	4.0-	3.0	.	.	.	0.980	0.000*	0	-113	-112	13275.8835	
1	7529.824	2	29021.267-21491.439	-4	.	.	.	4.0-	3.0	.	.	.	0.000	0.000*	0	164	163	13276.8920	
1	7528.981	3	21227.793-28756.769	5	.	.	.	4.0-	5.0	.	.	.	1.346	1.165	181	-173	-173	13278.3786	
1	7527.991	3	25100.598-17572.608	1	.	.	.	2.0-	2.0	.	.	.	1.430	0.555	875	125	124	13280.1248	
1	7527.839	2	24456.635-31984.470	4	.	.	.	3.0-	3.0	.	.	.	1.000	1.090*	90	95	95	13280.3930	
1	7527.511	2	26341.320-33858.834	-3*	.	.	.	8.0-	9.0	.	.	.	0.000	1.165*	0	-218	-218	13280.9716	
1	7525.949	2	20306.432-27832.430	1	.	.	.	4.0-	4.0	.	.	.	1.123	0.920	203	-076	-77	13283.7281	
	7522.261	2															20	13290.2408	IS*
1	7521.783	2	27301.288-19779.507	2	.	.	.	4.0-	4.0	.	.	.	0.985	0.000*	0	207	210	13291.0854	IS*
	7521.579	2																13291.4459	
1	7518.535	1	26374.994-18856.461	2	.	.	.	4.0-	5.0	.	.	.	0.000	1.325	0		181	13296.8272	
	7518.281	2															152	13297.2764	
1	7518.191	2	26844.163-34362.360	-6	.	.	.	4.0-	5.0	.	.	.	1.020	1.120*	100	-028	-28	13297.4356	IS*
1	7517.495	2	23395.741-31413.230	6	.	.	.	2.0-	3.0	.	.	.	-0.100	0.742*	842	105	114	13298.6667	
1	7516.462	1	25970.685-33387.151	-4	.	.	.	2.0-	2.0	.	.	.	1.170	1.288	118		-42	13300.4944	
1	7513.078	6	16155.109-23668.184	3	.	.	.	5.0-	4.0	.	.	.	0.943	0.940*	8	-112	-113	13306.4851	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2 - J1	J2 - J1	J2 - J1	G2				G1	G6	IS	IS			
1	7510.283	4	17615.482-25125.763	2			.	.	2.0- 1.0	.	.	.	.	1.450	0.314	1136	28	28	13311.4372	
1	7509.252	2	24903.874-32413.146	0			.	.	3.0- 3.0	.	.	.	.	0.915	0.995	80	-231	-231	13313.2648	
1	7503.191	2	8768.139-16276.332	-2			.	.	2.0- 2.0	.	.	.	.	0.362	1.880*	1518	-404	-404	13315.1462	
	7503.313	1					.	.		.	.	.	.						13323.8025	
1	7503.012	4	21031.258-13528.246	0			.	.	2.0- 1.0	.	.	.	.	1.455-0.590*	2045		089	89	13324.3370	
1	7502.583	3	11840.715-19343.298	0			.	.	3.0- 3.0	.	.	.	.	0.811	1.135	324	-420	-419	13325.0989	
1	7501.414	2	24324.706-17323.291	-1			.	.	4.0- 4.0	.	.	.	.	1.145	1.250*	105	319	315	13327.1755	
	7500.719	2					.	.		.	.	.	.						13328.4103	2LNS
1	7500.719	2	24742.092-32242.810	1			.	.	4.0- 5.0	.	.	.	.	0.980	1.215*	235	-124	-124	13328.4103	2LNS
1	7500.348	3	21703.960-29204.308	0			.	.	5.0- 5.0	.	.	.	.	1.120	0.896	224	-203	-200	13329.0696	
1	7499.476	3	22705.158-30204.635	-1			.	.	1.0- 1.0	.	.	.	.	-0.020	0.590*	610	-010	-12	13330.6195	IS*
1	7499.408	2	20043.465-27542.874	-1			.	.	5.0- 5.0	.	.	.	.	0.925	1.270*	345	-040	-41	13330.7403	IS*
1	7493.068	2	22518.312-30016.377	3			.	.	2.0- 2.0	.	.	.	.	1.350	1.140	210	-080	-86	13333.1227	
1	7497.075	2	16734.151-24231.226	0			.	.	2.0- 2.0	.	.	.	.	0.928	0.411	517	-068	-63	13334.8887	
	7496.122	2					.	.		.	.	.	.				218		13336.5840	
1	7494.265	4	16155.109-23649.372	2			.	.	5.0- 4.0	.	.	.	.	0.948	0.000*	0	-361	-362	13339.8887	
	7492.227	2					.	.		.	.	.	.				25		13343.5173	IS*
	7491.752	2					.	.		.	.	.	.				359		13344.3634	
1	7490.466	3	22719.949-30210.416	-1			.	.	4.0- 4.0	.	.	.	.	1.070	1.160*	90	-016	-17	13346.6544	
1	7489.808	2	23766.136-16276.332	4			.	.	1.0- 2.0	.	.	.	.	2.162	1.880*	282	061	60	13347.8269	
	7486.486	1					.	.		.	.	.	.				169		13353.7498	
1	7485.395	3	25371.962-32857.357	1			.	.	6.0- 6.0	.	.	.	.	1.165	1.101	64	20	23	13355.6944	IS*
1	7484.991	2	27869.060-35354.050	1			.	.	7.0- 7.0	.	.	.	.	1.250	0.000*	0	091	91	13356.4170	
	7484.281	1					.	.		.	.	.	.						13357.6841	
1	7482.526	3	23281.721-30764.244	3			.	.	5.0- 6.0	.	.	.	.	1.235	0.975	260	-024	-22	13360.8171	IS*
1	7481.215	4	20654.712-28135.924	3			.	.	1.0- 2.0	.	.	.	.	0.200	1.101	901	-097	-96	13363.1584	
1	7480.187	2	20043.465-27523.650	2			.	.	5.0- 6.0	.	.	.	.	0.925	1.080	155	120	125	13364.9949	IS*
1	7479.459	3	19558.257-27037.718	-2			.	.	2.0- 2.0	.	.	.	.	-0.145	1.300*	1445	-094	-99	13366.2958	
1	7479.253	3	24149.361-31628.619	0			.	.	5.0- 6.0	.	.	.	.	1.262	1.110	152		37	13366.6550	
	7479.199	2					.	.		.	.	.	.						13366.7604	
	7478.673	2					.	.		.	.	.	.				-065		13367.7006	
1	7477.980	2	23720.664-31198.642	2			.	.	3.0- 3.0	.	.	.	.	0.790	1.070*	280	118	118	13368.9394	
1	7475.510	1	30327.960-37803.470	0*			.	.	10.0- 9.0	.	.	.	.	0.000	1.220*	0	010	1	13373.3566	SIGMA*
1	7474.006	2	25706.036-33180.043	-1			.	.	2.0- 2.0	.	.	.	.	1.290	1.790*	500	040	36	13376.0478	
1	7473.752	2	28214.784-20741.029	-3			.	.	3.0- 2.0	.	.	.	.	0.905	0.000*	0	158	160	13376.5024	
1	7472.889	4	29209.020-21736.133	2			.	.	7.0- 7.0	.	.	.	.	1.390	0.000*	0	102	102	13378.0472	
2	7470.987	2	24634.455-17163.470	2			.	.	3.5- 4.5	.	.	.	.	0.839	1.200	361	277	283	13381.4530	
1	7469.921	2	23207.126-30677.044	3			.	.	8.0- 8.0	.	.	.	.	1.135	1.245	110		-103	13383.3626	
1	7469.823	1	21263.339-28733.159	3			.	.	5.0- 4.0	.	.	.	.	0.610	1.035*	425	158	170	13383.5382	ISQ
1	7469.026	3	23210.060-20741.029	-5			.	.	2.0- 2.0	.	.	.	.	0.865	0.000*	0	-082	129	13384.9663	2LNS
	7468.393	1					.	.		.	.	.	.				-008		13386.1008	IS*
1	7467.178	2	18963.921-26431.101	-2			.	.	4.0- 3.0	.	.	.	.	1.251	0.807	444	-250	-249	13388.2789	IS*
1	7466.735	4	11840.715-19307.447	3			.	.	3.0- 4.0	.	.	.	.	0.811	0.000*	0	-144	-143	13389.0732	
1	7466.326	2	22509.712-29976.039	-1			.	.	5.0- 4.0	.	.	.	.	1.287	1.070	217	-114	-114	13389.8067	
1	7464.539	3	23814.130-31278.667	2			.	.	6.0- 5.0	.	.	.	.	0.890	1.010*	120	129	129	13393.0122	
1	7462.090	2	23413.710-30875.798	2			.	.	4.0- 4.0	.	.	.	.	0.000	1.080*	0	-165	-164	13397.4076	
1	7461.272	4	26317.729-12856.461	4			.	.	4.0- 5.0	.	.	.	.	1.180	1.325*	145	141	142	13398.8764	
2	7460.970	2	24206.690-16745.720	0			.	.	1.5- 2.5	.	.	.	.	0.863	1.671	808		263	13399.4188	
1	7459.373	3	30932.959-23173.585	-1			.	.	6.0- 6.0	.	.	.	.	1.340	0.000*	0	152	152	13402.2875	
1	7459.171	3	28900.213-35359.337	-3			.	.	8.0- 8.0	.	.	.	.	0.000	1.185*	0	30	30	13402.6505	IS*
1	7457.360	3	29193.490-21736.133	3			.	.	6.0- 7.0	.	.	.	.	1.240	0.000*	0	190	190	13405.9053	
1	7455.234	1	21337.573-28793.800	7			.	.	4.0- 3.0	.	.	.	.	1.137	1.083	54	-232	-232	13407.9298	
1	7455.699	3	21307.390-23763.085	4			.	.	1.0- 0.0	.	.	.	.	2.360	0.000*	0	+	6	13408.8919	
1	7455.590	2	26009.000-33664.592	-2			.	.	3.0- 4.0	.	.	.	.	0.870	0.000*	0	-020	-16	13409.0879	
1	7453.863	2	31197.417-23743.557	3			.	.	7.0- 6.0	.	.	.	.	0.000	0.000*	0	198	194	13412.1947	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES	
							J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS			
1	7452.210	1	19203.415	-	26655.622	3	.	.	2.0-	3.0	.	.	.	1.021	1.015	6	-148	-147	13415.1697		
1	7448.938	1	28738.983	-	21290.050	0	.	.	1.0-	2.0	.	.	.	1.852	0.000*	0	165	160	13421.0624		
1	7445.915	2	23314.130	-	31260.046	-1	.	.	6.0-	6.0	.	.	.	0.890	1.210*	320	-135	-137	13426.5113		
1	7413.637	2	22181.358	-	28625.003	2	.	.	3.0-	2.0	.	.	.	0.780	0.910*	130	20	18	13430.6203	IS*	
1	7413.458	2	21350.311	-	28793.800	-1	.	.	2.0-	3.0	.	.	.	0.350	1.083*	733	-202	-201	13430.8891		
1	7410.717	3	22719.949	-	30160.664	2	.	.	4.0-	4.0	.	.	.	1.070	1.030	40	050	53	13435.8909		
1	7437.454	2	22416.990	-	29854.442	2	.	.	2.0-	1.0	.	.	.	1.675	1.180*	495	-	-11	13441.7856		
1	7436.774	4	20540.110	-	27976.281	3	.	.	3.0-	3.0	.	.	.	0.830	1.080*	250	092	93	13443.0147		
	7434.328	3								44			13447.3291	IS*
1	7434.350	5	16532.104	-	23966.450	4	.	.	3.0-	3.0	.	.	.	0.300	0.760	460	036	44	13447.3979	IS*	
1	7432.009	2	26696.083	-	34128.094	-2	.	.	5.0-	4.0	.	.	.	1.315	0.000*	0	050	49	13451.6336		
1	7430.773	4	20540.110	-	27970.881	2	.	.	3.0-	2.0	.	.	.	0.830	0.194*	636	24	20	13453.8711	IS*	
1	7426.951	3	25192.231	-	17765.281	1	.	.	4.0-	3.0	.	.	.	1.768	1.680*	88	16	17	13460.7947	IS*	
1	7422.766	3	27361.817	-	19939.052	1	.	.	3.0-	3.0	.	.	.	1.310	0.000*	0	172	172	13468.3840		
	7422.292	2											13469.2441	
1	7422.268	2	26150.730	-	33572.999	-1	.	.	8.0-	9.0	.	.	.	0.000	1.160*	0	-138	-136	13469.2876		
1	7421.398	2	26149.538	-	33570.935	1	.	.	4.0-	4.0	.	.	.	1.360	1.130*	230	-	64	13470.8666		
1	7421.207	2	16532.104	-	23953.307	4	.	.	3.0-	2.0	.	.	.	0.300	1.265	965	-183	-183	13471.2133		
1	7416.893	3	27196.404	-	19779.507	1	.	.	3.0-	4.0	.	.	.	1.282	0.000*	0	254	254	13479.0397		
1	7414.920	2	28906.355	-	21491.439	4	.	.	3.0-	3.0	.	.	.	1.230	0.000*	0	263	263	13482.6354		
1	7414.289	2	30549.406	-	23135.120	3	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	160	160	13483.7828		
1	7411.012	2	30770.199	-	23359.187	0	.	.	2.0-	3.0	.	.	.	1.216	1.030*	186	114	114	13489.7451		
1	7408.800	3	20709.458	-	28118.262	-4	.	.	3.0-	3.0	.	.	.	1.240	1.250*	10	204	203	13493.7727		
1	7403.585	2	22518.312	-	29921.899	-2	.	.	2.0-	2.0	.	.	.	1.350	1.070*	280	-032	-38	13503.2775	IS*	
1	7402.862	3	21337.573	-	28740.433	2	.	.	4.0-	3.0	.	.	.	1.137	0.970	167	-206	-208	13504.5963		
1	7400.758	3	18578.669	-	25979.424	3	.	.	1.0-	1.0	.	.	.	1.932	1.260	672	-	-18	13508.4356		
	7400.134	2								12			13509.5747	IS*
1	7399.059	4	16202.112	-	23601.171	0	.	.	0.0-	1.0	.	.	.	0.000	0.565	0	-201	-199	13511.5375		
1	7397.076	2	18963.921	-	26360.997	0	.	.	4.0-	5.0	.	.	.	1.251	0.796	455	-239	-234	13515.1597		
1	7395.460	3	21737.407	-	14341.947	0	.	.	3.0-	2.0	.	.	.	1.026	0.852	174	162	162	13518.1129		
1	7392.758	6	14025.007	-	21417.765	0	.	.	4.0-	4.0	.	.	.	0.975	0.802	173	32	34	13523.0537	IS*	
1	7392.190	2	25735.491	-	19343.298	-3	.	.	2.0-	3.0	.	.	.	1.062	1.135	73		308	13524.0928		
1	7391.629	2	21812.682	-	29204.308	3	.	.	4.0-	5.0	.	.	.	1.040	0.896	144	-044	-44	13525.1192		
1	7390.296	1	23895.741	-	31286.029	8	.	.	2.0-	2.0	.	.	.	-0.100	1.280*	1380	143	151	13527.5587		
2	7389.554	3	19397.055	-	12007.503	2	.	.	0.5-	1.5	.	.	.	3.328	-0.019	3347	439	439	13528.9171		
1	7386.470	2	24149.361	-	31535.835	-4	.	.	5.0-	5.0	.	.	.	1.262	1.020	242	-114	-112	13534.5657		
1	7386.178	2	24824.706	-	32210.835	-1	.	.	4.0-	4.0	.	.	.	1.145	0.995	150	-016	-16	13535.1008	IS*	
1	7386.051	2	23281.721	-	30667.769	3	.	.	5.0-	4.0	.	.	.	1.235	1.265	30	-074	-72	13535.3335		
1	7384.144	2	23735.353	-	31119.494	3	.	.	2.0-	2.0	.	.	.	0.935	0.814*	121		13	13538.8291	IS*	
1	7382.205	2	24158.741	-	16776.530	-6	.	.	2.0-	1.0	.	.	.	1.240	0.000*	0		107	13542.3852		
1	7374.455	1	30503.896	-	23129.429	-2	.	.	5.0-	5.0	.	.	.	0.000	1.168*	0	130	126	13556.5988		
1	7373.348	4	22181.358	-	29554.716	0	.	.	3.0-	3.0	.	.	.	0.780	0.831*	51	30	26	13558.6526	IS*	
1	7373.133	4	13517.647	-	6144.515	1	.	.	2.0-	3.0	.	.	.	0.892	1.473	581	175	176	13559.0479		
	7371.902	2								-015			13561.3121	
1	7369.726	4	21603.247	-	28972.971	2	.	.	2.0-	2.0	.	.	.	0.060	0.794*	734	-053	-52	13565.3162		
1	7368.589	3	16834.379	-	24202.966	2	.	.	5.0-	5.0	.	.	.	0.961	1.012	51	16	17	13567.4094	IS*	
1	7367.640	1	22518.312	-	29835.947	5	.	.	2.0-	3.0	.	.	.	1.350	1.330*	20	-132	-135	13569.1570		
	7364.705	2											13574.5646	
1	7363.633	2	23705.495	-	31069.124	4	.	.	7.0-	8.0	.	.	.	1.277	1.135	142		-58	13576.5408		
1	7363.156	3	22719.949	-	30083.102	3	.	.	4.0-	5.0	.	.	.	1.070	1.150*	80	20	22	13577.4203		
1	7358.201	2	16595.109	-	23953.307	3	.	.	3.0-	2.0	.	.	.	0.999	1.265	266	-354	-354	13586.5634		
1	7356.814	3	24613.274	-	31970.100	-12	.	.	5.0-	4.0	.	.	.	1.160	1.100*	60	+	8	13589.1249	2 LNS	
1	7356.814	3	19074.292	-	26431.101	5	.	.	2.0-	3.0	.	.	.	1.532	0.807	725	-057	-51	13589.1249	2 LNS	
1	7355.240	5	23100.887	-	15745.648	1	.	.	3.0-	3.0	.	.	.	1.520	1.145	375	058	59	13592.0329	IS*	
1	7354.965	3	20990.684	-	23345.647	2	.	.	5.0-	6.0	.	.	.	1.308	0.000*	0	-341	-340	13592.5411		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	7354.186	2	24456.635-31810.821	0					3.0-	2.0				1.000	0.865*	135		65	13593.9809	
1	7353.911	3	29118.602-21764.690	-1					4.0-	5.0				1.510	0.000*	0	+181	180	13594.4893	
1	7351.537	1	24331.050-31732.582	5					5.0-	5.0				1.450	1.049*	401		53	13598.8793	
1	7349.819	2	23906.355-21556.538	2					3.0-	4.0				1.230	1.290	60	287	287	13602.0580	
1	7347.963	2	36997.335-23649.372	0					5.0-	4.0				1.200	0.000*	0		123	13605.4937	
1	7347.656	2	21998.645-29346.299	2					7.0-	7.0				1.269	1.200*	69	-067	-66	13606.0622	
1	7345.421	1	25121.896-17776.483	8					1.0-	2.0				1.444	0.565	879		-70	13610.2021	
1	7344.548	2	25959.849-33304.400	-3					1.0-	0.0				1.037	0.000	0		-97	13611.8199	
1	7344.175	2	29108.865-21764.690	1					5.0-	5.0				1.210	0.000*	0	200	203	13612.5093	
1	7343.469	3	20335.328-27728.796	1					2.0-	3.0				1.911	1.060	851	124	130	13613.8199	
1	7335.637	3	17615.482-24951.118	1					2.0-	3.0				1.450	0.840	610		29	13628.3549	
1	7335.318	5	25100.578-17765.281	1					2.0-	3.0				1.430	1.680*	250	153	152	13628.9476	
1	7334.978	4	22219.737-29554.716	-1					4.0-	3.0				0.750	0.831	81	051	51	13629.5793	
1	7333.162	1	19074.292-26407.449	5					2.0-	2.0				1.532	0.972	560	+	3	13632.9546	
1	7332.571	2	25959.849-18627.281	3					1.0-	1.0				1.037	0.000*	0	200	202	13634.0534	
1	7331.905	3	25870.685-18538.782	2					2.0-	2.0				1.170	1.600	430	114	116	13635.2919	
1	7330.795	0	26301.732-33532.520	7					5.0-	5.0				1.060	1.305*	245	042	31	13637.3565	
1	7329.545	2	21031.258-28350.802	1					2.0-	3.0				1.455	0.887	568	189	189	13639.6822	
1	7329.151	1	30997.335-23668.184	0					5.0-	4.0				1.200	0.940*	260	-125	-125	13640.4155	
1	7322.068	2	15856.888-23178.955	1					1.0-	1.0				1.103	1.130*	27	-361	-361	13653.6105	
1	7321.707	3	24644.996-17323.291	2					3.0-	4.0				1.195	1.250*	55	293	292	13654.2837	
1	7321.062	2	25397.206-32718.268	0					1.0-	1.0				0.776	0.600*	176	-008	0	13655.4867	IS*
1	7317.458	2	27096.974-19779.507	1					4.0-	4.0				1.180	0.000*	0	236	236	13662.1937	
1	7316.932	2	24653.345-17336.413	0					1.0-	0.0				0.860	0.000*	0	210	214	13663.1945	
1	7316.171	4	20654.712-27970.881	2					1.0-	2.0				0.200	0.194	6	042	49	13664.6157	
1	7314.058	4	16888.909-24202.956	1					6.0-	5.0				1.098	1.012	86	-008	-8	13668.5633	IS*
1	7309.921	2	24903.894-32213.814	1					3.0-	2.0				0.915	0.725	190	12	13	13676.2990	IS*
1	7309.309	2	25074.585-17765.281	5					4.0-	3.0				1.507	1.680*	173	067	68	13677.4441	
1	7302.621	2	29307.360-36609.983	-2					8.0-	7.0				0.000	1.195*	0	020	16	13689.9704	
1	7301.666	2	15249.635-22551.302	-1					2.0-	3.0				0.715	0.000*	0	-407	-406	13691.7609	
1	7301.040	2	19059.958-26360.997	1					5.0-	5.0				1.375	0.796	579	-250	-251	13692.9349	
1	7298.943	2	28467.436-35766.380	-1					5.0-	4.0				1.210	1.055*	155	95	106	13696.8689	IS*
1	7295.864	2	26633.286-19337.431	9					1.0-	1.0				1.124	2.410*	1286	084	87	13702.6493	2 LNS
1	7295.864	2	15856.888-23152.755	-3					1.0-	2.0				1.103	0.580	523	-354	-354	13702.6493	2 LNS
	7295.778	1																	13702.8108	GHOST Q
	7293.977	1																	13706.1942	GHOSTQ
1	7292.322	2	20540.110-27832.430	2					3.0-	4.0				0.830	0.920*	90	150	148	13709.3049	GHOSTQ
	7291.958	1																	13709.9140	GHOSTQ
	7291.826	1																	13710.2374	GHOSTQ
	7291.688	2																	13710.4969	
1	7289.562	7	10486.922-17776.483	1					1.0-	2.0				0.355	0.565	210	-147	-146	13714.4955	
1	7284.677	1	18147.975-25432.655	-3					3.0-	2.0				1.049	1.281	232	+	11	13723.6923	
1	7283.421	2	17081.874-24365.295	0					4.0-	3.0				1.217	1.475	258	-389	-389	13726.0589	
2	7278.972	2	25844.980-18666.005	-2					1.5-	2.5				1.550	1.365	185		344*	13734.4485	
1	7278.651	2	19558.257-26836.911	-3					2.0-	2.0				-0.145	1.260*	1405	-066	-69	13735.0542	
1	7275.331	2	27054.840-19779.507	-2					4.0-	4.0				1.225	0.000*	0	147	147	13741.3220	
1	7274.020	2	23550.352-16276.332	0					3.0-	2.0				1.090	1.880*	790	168	165	13743.7986	
	7272.602	2																	13746.4784	
1	7272.079	3	21737.407-29009.483	3					3.0-	4.0				1.026	0.695	331	066	68	13747.4670	
1	7271.615	1	22839.053-30160.664	4					4.0-	4.0				1.263	1.030	233		-136	13748.3442	
2	7269.389	3	24432.860-17163.470	-1					3.5-	4.5				1.110	1.200*	90	401	402	13752.5542	
1	7268.193	4	20843.465-27311.658	0					5.0-	5.0				0.925	1.035	110	153	153	13754.8172	
1	7267.425	2	20709.458-27976.881	3					3.0-	3.0				1.240	1.080	160	036	89	13756.2689	
1	7263.723	2	24138.639-31452.362	0					1.0-	1.0				0.667	0.852	185	174	174	13763.2817	
1	7263.350	2	20709.458-27972.815	-7					3.0-	4.0				1.240	0.979	261	153	151	13763.9885	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	7261.431	3	20709.453-27970.831	8	.	.	.	.	.	3.0-	2.0	.	.	.	1.240	0.194	1046	16	16	13767.6260	IS*
1	7261.300	2	21603.247-14341.947	0	.	.	.	.	.	2.0-	2.0	.	.	.	0.060	0.852*	792	254	252	13767.8744	
1	7259.649	1	22377.599-29637.242	6	.	.	.	.	.	7.0-	6.0	.	.	.	1.076	1.020	56	-209	-209	13771.0055	
1	7257.597	2	22088.306-29346.299	4	.	.	.	.	.	6.0-	7.0	.	.	.	1.050	1.200*	140	154	162	13774.1399	
1	7256.574	3	29021.267-21764.690	-3	.	.	.	.	.	4.0-	5.0	.	.	.	0.000	0.000*	0	168	166	13776.8410	
	7255.458	2						-025			13777.0423	IS*
1	7256.090	4	22719.949-29976.039	0	.	.	.	.	.	4.0-	4.0	.	.	.	1.070	1.070	0	066	65	13777.7600	
1	7247.512	2	24012.505-31260.046	1	.	.	.	.	.	6.0-	6.0	.	.	.	1.248	1.210*	38		-295	13794.0100	
1	7247.079	3	22307.633-29554.716	-4	.	.	.	.	.	3.0-	3.0	.	.	.	1.434	0.831	603	-070	-74	13794.8912	
	7245.378	2						-126			13798.1299	
1	7244.095	2	24816.699-17572.608	4	.	.	.	.	.	2.0-	2.0	.	.	.	1.165	0.555	610	131	132	13800.5737	
1	7241.266	3	20769.512-13523.246	0	.	.	.	.	.	2.0-	1.0	.	.	.	1.070	0.590*	1660	117	117	13805.9652	
1	7239.976	3	29295.313-22055.339	2	.	.	.	.	.	4.0-	3.0	.	.	.	1.270	0.000*	0	216	216	13808.4252	2LNS
	7239.976	3									13808.4252	2 LNS
1	7237.259	3	22982.904-15745.648	3	.	.	.	.	.	2.0-	3.0	.	.	.	1.257	1.145	112	335	335	13813.6091	IS*
2	7237.056	4	21570.405-14433.351	2	.	.	.	.	.	1.5-	1.5	.	.	.	2.328	1.925	403	421	420	13813.9966	
1	7236.631	2	27175.729-19939.052	4	.	.	.	.	.	4.0-	3.0	.	.	.	1.021	0.000*	0	211	214	13814.7124	
1	7235.575	2	23735.353-30970.926	2	.	.	.	.	.	2.0-	1.0	.	.	.	0.935	0.295*	640	072	74	13816.8241	
1	7233.615	1	21263.339-28496.950	4	.	.	.	.	.	5.0-	4.0	.	.	.	0.610	0.810*	200	074	77	13820.5678	
	7232.158	1									13823.3522	
1	7230.460	2	24903.894-32134.354	0	.	.	.	.	.	3.0-	3.0	.	.	.	0.915	0.000*	0	-126	-128	13826.5984	
1	7229.237	2	23550.352-30779.585	4	.	.	.	.	.	3.0-	3.0	.	.	.	1.090	0.860*	230	056	55	13828.9375	IS*
1	7229.112	3	19426.512-26655.622	2	.	.	.	.	.	3.0-	3.0	.	.	.	1.435	1.015	420	-072	-74	13829.1767	
1	7228.573	2	14953.317-22081.891	-1	.	.	.	.	.	4.0-	4.0	.	.	.	0.786	0.000*	0	-076	-77	13830.2078	
1	7226.674	2	28214.784-20983.110	0	.	.	.	.	.	3.0-	4.0	.	.	.	0.905	1.374	469	169	166	13833.8421	
1	7221.792	1	23735.353-30957.140	5	.	.	.	.	.	2.0-	2.0	.	.	.	0.935	0.980*	45		22	13843.1939	
1	7221.713	2	26149.533-33371.251	0	.	.	.	.	.	4.0-	3.0	.	.	.	1.350	1.113*	247		27	13843.3454	
	7218.399	2						082			13849.7009	
1	7215.670	1	27887.955-20672.283	-2	.	.	.	.	.	1.0-	2.0	.	.	.	0.870	1.430*	560	265	265	13854.9389	
1	7212.511	3	19594.767-26807.278	0	.	.	.	.	.	0.0-	1.0	.	.	.	0.000	0.550	0	-105	-102	13861.0073	
	7211.366	2						058			13863.2081	IS*
1	7211.236	3	21350.311-28561.548	-1	.	.	.	.	.	2.0-	2.0	.	.	.	0.350	0.784*	434	-079	-79	13863.4580	
1	7208.018	2	22416.990-29525.003	5	.	.	.	.	.	2.0-	2.0	.	.	.	1.675	0.910*	765	54	53	13869.6473	
1	7207.375	2	20769.512-27976.881	6	.	.	.	.	.	2.0-	3.0	.	.	.	1.070	1.080*	10	146	145	13870.8847	
1	7205.937	3	17081.874-24287.814	-3	.	.	.	.	.	4.0-	3.0	.	.	.	1.217	0.585	632	-172	-172	13873.6527	
1	7202.279	2	25121.896-32324.169	6	.	.	.	.	.	1.0-	0.0	.	.	.	1.444	0.000	0		52	13880.6991	
1	7202.050	5	22028.306-29290.355	1	.	.	.	.	.	6.0-	6.0	.	.	.	1.060	0.920	140	32	33	13881.1404	
1	7201.372	4	20769.512-27970.831	3	.	.	.	.	.	2.0-	2.0	.	.	.	1.070	0.194*	876	076	72	13882.4473	
1	7200.852	2	25371.952-32572.811	3	.	.	.	.	.	6.0-	5.0	.	.	.	1.165	1.010*	155	-028	-30	13883.4498	
1	7198.554	2	31151.870-23953.307	1	.	.	.	.	.	2.0-	2.0	.	.	.	1.632	1.265	367	082	83	13887.8626	
1	7197.775	2	32256.529-25068.751	-3	.	.	.	.	.	8.0-	7.0	.	.	.	0.000	0.000*	0	186	184	13889.3849	
1	7196.802	3	21812.682-29009.483	1	.	.	.	.	.	4.0-	4.0	.	.	.	1.040	0.695	345	000	-3	13891.2628	
	7196.707	1									13891.4461	
	7189.571	1						-020			13905.2341	
1	7183.681	2	20540.110-27728.796	-5	.	.	.	.	.	3.0-	3.0	.	.	.	0.830	1.060*	230	108	108	13906.9556	
1	7187.157	3	28951.847-21764.690	0	.	.	.	.	.	5.0-	5.0	.	.	.	1.290	0.000*	0	145	145	13909.9046	
1	7187.033	2	24216.272-31403.302	3	.	.	.	.	.	6.0-	5.0	.	.	.	1.005	1.205	200	-276	-274	13910.1445	
1	7186.468	2	24324.706-32011.173	1	.	.	.	.	.	4.0-	3.0	.	.	.	1.145	1.140*	5		-100	13911.2382	
1	7186.116	4	22160.184-29346.299	1	.	.	.	.	.	8.0-	7.0	.	.	.	1.230	1.200*	30	-083	-83	13911.9196	
1	7185.448	4	17045.776-24231.226	-2	.	.	.	.	.	1.0-	2.0	.	.	.	1.474	0.411	1063	192	197	13913.2129	IS*
1	7183.833	1	12159.465-19343.298	0	.	.	.	.	.	4.0-	3.0	.	.	.	0.844	1.135	291	-424	-418	13916.3403	
	7180.630	2									13922.5483	
1	7179.672	3	20457.704-27637.377	-1	.	.	.	.	.	0.0-	1.0	.	.	.	0.000	1.280	0	59	57	13924.4050	
1	7171.782	7	18602.505-25774.208	-1	.	.	.	.	.	6.0-	6.0	.	.	.	0.910	0.915	5	40	39	13939.7249	IS*
	7168.892	2									13945.3445	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7168.776	2	22181.368	-	29350.139	5	.	.	3.0-	3.0	.	.	.	0.780	0.910*	130	20	20	13945.5701	
	7167.865	2																	13947.3425	
	7167.364	1																	13948.3174	
1	7167.258	2	25706.035	-	18538.782	4	.	.	2.0-	2.0	.	.	.	1.290	1.600	310	116	116	13948.5237	
1	7166.737	2	25064.653	-	17897.917	1	.	.	3.0-	3.0	.	.	.	0.980	0.450	530	-288	-290	13949.5378	
2	7165.425	2H	22653.965	-	15483.530	-10	.	.	2.5-	3.5	.	.	.	1.360	1.057*	303		484	13952.0919	
	7152.170	2															12		13958.4328	IS*
	7160.448	2																	13961.7896	
1	7159.382	3	21337.573	-	28496.950	5	.	.	4.0-	4.0	.	.	.	1.137	0.810	327	-138	-139	13963.8685	
1	7159.220	2	19496.402	-	26655.622	0	.	.	3.0-	3.0	.	.	.	1.555	1.015	540	-188	-187	13964.1844	
	7158.377	2																	13965.8289	
	7156.663	2																	13969.1737	
1	7155.134	2H	23720.664	-	30875.798	0	.	.	3.0-	4.0	.	.	.	0.790	1.080*	290	-032	-34	13972.1588	IS*
1	7154.861	1	28290.990	-	21736.133	4	.	.	7.0-	7.0	.	.	.	1.272	0.000*	0	201	201	13972.6919	ISQ
1	7154.745	2	13517.647	-	20672.390	2	.	.	2.0-	1.0	.	.	.	0.892	0.000*	0	-413	-414	13972.9185	
1	7154.637	4	13517.647	-	20672.283	1	.	.	2.0-	2.0	.	.	.	0.892	1.430*	538	-412	-411	13973.1294	
1	7152.194	3	17615.482	-	24767.674	2	.	.	2.0-	2.0	.	.	.	1.450	1.455	5	-345	-341	13977.9023	
1	7147.983	5	12159.465	-	19307.447	1	.	.	4.0-	4.0	.	.	.	0.844	0.000*	0	-143	-142	13986.1369	
1	7147.312	3	20521.579	-	27668.890	1	.	.	6.0-	5.0	.	.	.	1.246	1.312	66	-273	-275	13987.4499	
1	7147.224	5	16520.962	-	23668.184	2	.	.	5.0-	4.0	.	.	.	0.736	0.940*	204	101	101	13987.6222	
1	7146.863	2	26317.729	-	33464.592	0	.	.	4.0-	4.0	.	.	.	1.180	0.000*	0	000	5	13988.3287	
	7144.217	2															30		13993.5096	IS*
1	7143.406	2	22289.053	-	15745.648	1	.	.	4.0-	3.0	.	.	.	1.263	1.145	118	360	357	13995.0983	
1	7140.330	2	26149.538	-	33289.869	-1	.	.	4.0-	5.0	.	.	.	1.360	1.095*	265	102	102	14001.1272	
1	7137.728	2	22416.990	-	29554.716	2	.	.	2.0-	3.0	.	.	.	1.675	0.831	844	066	61	14006.2313	
1	7135.550	2	23578.836	-	30714.385	1	.	.	5.0-	4.0	.	.	.	1.120	1.150*	30	095	96	14010.5064	
1	7133.347	4	24456.635	-	17323.291	3	.	.	3.0-	4.0	.	.	.	1.000	1.250*	250	208	208	14014.8333	
1	7132.980	4	20425.711	-	27558.688	3	.	.	1.0-	0.0	.	.	.	1.340	0.000	0	20	23	14015.5544	IS*
1	7131.300	2	19074.292	-	26205.589	3	.	.	2.0-	3.0	.	.	.	1.532	0.701	831	020	12	14018.8562	SIGMA*
1	7130.574	3	21703.960	-	28834.535	-1	.	.	5.0-	5.0	.	.	.	1.120	0.978	142	-141	-141	14020.2835	
1	7128.410	3	16520.962	-	23649.372	0	.	.	5.0-	4.0	.	.	.	0.735	0.000*	0	-148	-148	14024.5397	
	7128.290	1															+		14024.7758	
1	7127.536	4	22509.712	-	29637.242	6	.	.	5.0-	6.0	.	.	.	1.287	1.020	267	-148	-146	14026.2595	2LNS
1	7127.536	4	24090.570	-	31218.105	1	.	.	7.0-	8.0	.	.	.	1.130	1.155	25	+	25	14026.2595	2 LNS
1	7126.467	6	20654.712	-	13523.246	1	.	.	1.0-	1.0	.	.	.	0.200	0.590*	790	141	140	14028.3635	
	7126.248	1																	14028.7946	
1	7125.941	2	23814.130	-	30940.068	3	.	.	6.0-	5.0	.	.	.	0.890	1.080	190	161	154	14029.3990	
1	7125.589	2	14292.176	-	21417.765	0	.	.	5.0-	4.0	.	.	.	0.970	0.802	168	022	36	14030.0920	IS*
1	7124.992	2	16304.260	-	9179.262	-6	.	.	4.0-	5.0	.	.	.	1.285	1.454	169	188	186	14031.2676	
1	7122.802	2	26150.730	-	33273.528	4	.	.	8.0-	7.0	.	.	.	0.000	1.070*	0	-	-41	14035.5817	
1	7122.016	1	25660.792	-	18533.782	6	.	.	1.0-	2.0	.	.	.	1.146	1.600	454	159	159	14037.1307	SIGMA*
1	7121.024	2	17031.874	-	24202.966	2	.	.	4.0-	5.0	.	.	.	1.217	1.012	205	000	0	14038.9481	
1	7119.303	3	24613.274	-	31732.582	-5	.	.	5.0-	5.0	.	.	.	1.160	1.049	111	-016	-19	14042.4799	IS*
1	7116.003	4	22028.306	-	29294.308	1	.	.	6.0-	5.0	.	.	.	1.060	0.896	164	12	13	14048.9920	IS*
1	7115.787	2	27054.840	-	19939.052	-1	.	.	4.0-	3.0	.	.	.	1.225	0.000*	0	157	160	14049.4185	
1	7115.200	4	26894.711	-	19779.507	-4	.	.	3.0-	4.0	.	.	.	1.465	0.000*	0	190	189	14050.5776	IS*
1	7114.721	5	18046.108	-	25160.827	2	.	.	4.0-	3.0	.	.	.	0.694	0.800	106	202	209	14051.5235	
1	7114.503	2	24437.792	-	17323.291	2	.	.	4.0-	4.0	.	.	.	1.500	1.250*	250		324	14051.9541	
	7114.169	2																	14052.6533	
	7114.066	2																	14052.8173	
1	7113.344	2	23281.721	-	30395.062	3	.	.	5.0-	4.0	.	.	.	1.235	0.920	315	20	17	14054.2436	IS*
	7109.997	1																	14052.8375	
1	7107.473	2	24091.173	-	31193.642	4	.	.	3.0-	3.0	.	.	.	1.245	1.070	175	173	175	14065.8529	IS*
1	7105.145	2	30578.731	-	23473.555	-1	.	.	5.0-	6.0	.	.	.	1.209	0.000*	0		245	14070.4616	
1	7104.264	2	24347.551	-	31451.814	1	.	.	3.0-	4.0	.	.	.	1.300	1.080*	220	076	82	14072.2065	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7101.877	4	18672.411-25774.238	0				6.0-	6.0				1.190	0.915*	275	-192	-192	14076.9362	
1	7093.817	3	21227.793-28326.610	0				4.0-	4.0				1.346	1.260*	86	-221	-223	14083.0042	
1	7097.024	2	19776.904-26873.930	-2				6.0-	6.0				1.012	1.125	113	-054	-56	14086.5622	
1	7096.330	1	27768.715-20672.390	5				1.0-	1.0				0.722	0.000*	0		251	14087.9398	
1	7093.471	2	21812.632-20905.150	3				4.0-	5.0				1.040	1.105	65		-52	14093.6179	
1	7093.335	4	27415.500-20322.165	0				5.0-	6.0				1.370	1.360*	10	100	100	14093.8881	
	7092.464	1																14095.6190	
1	7091.445	3	22837.092-15745.648	1				3.0-	3.0				1.110	1.145*	35	371	371	14097.6444	
1	7039.794	2	15249.635-22339.429	0				2.0-	2.0				0.715	1.049	334	-177	-179	14100.9273	
1	7089.597	2	26374.994-33464.592	-1				4.0-	4.0				0.000	0.000*	0	-030	-34	14101.3192	
1	7088.932	2	23578.836-30667.769	-1				5.0-	4.0				1.120	1.265*	145	-081	-82	14102.6420	
1	7088.299	3	20654.712-27743.009	2				1.0-	2.0				0.200	0.568	368	232	232	14103.9014	
1	7085.712	4	18346.917-25432.655	-26				2.0-	2.0				1.518	1.281	237	128	127	14109.0507	GHOST Q
1	7085.637	5	10486.922-17572.608	1				1.0-	2.0				0.355	0.555	200	-360	-360	14109.1005	
1	7031.872	2	17500.977-24582.849	0				1.0-	2.0				2.258	0.640	1618	092	92	14116.7011	
1	7080.739	3	24653.345-17572.608	2				1.0-	2.0				0.860	0.555*	305	187	187	14118.9599	
1	7079.213	2	26283.495-33362.705	3				7.0-	7.0				1.080	1.140*	60	60	68	14122.0034	
1	7078.694	4	19959.027-27037.718	3				1.0-	2.0				0.760	1.300*	540		-25	14123.0388	2 LNS
1	7078.694	4	25617.477-18538.782	-1				2.0-	2.0				1.360	1.600*	240	086	85	14123.0388	2 LNS
1	7078.351	2	28569.792-21491.439	-2				3.0-	3.0				1.245	0.000*	0	135	135	14123.7232	IS*
1	7075.970	2	21420.983-28496.950	3				3.0-	4.0				1.663	0.810	853	+	7	14128.4757	
1	7073.076	4	16595.109-23668.184	1				3.0-	4.0				0.999	0.940*	59	-072	-74	14134.2565	
1	7068.870	3	25371.962-32440.827	5				6.0-	6.0				1.165	1.120*	45	-012	-12	14142.6664	
1	7067.585	2	21227.793-28295.330	-2				4.0-	4.0				1.346	1.155	191	-075	-80	14145.2378	
1	7067.243	2	23004.649-30071.890	2				5.0-	5.0				1.196	1.290*	94	-271	-265	14145.9223	
1	7064.655	2	26844.163-19779.507	-1				4.0-	4.0				1.020	0.000*	0		266	14151.1044	
	7064.518	3														132		14151.3788	
2	7063.249	2	14561.607-7498.364	6				1.5-	2.5				1.149	1.321	172	272	284	14153.9213	
1	7061.401	2	23895.741-30957.140	2				2.0-	2.0				-0.100	0.980*	1080	16	23	14157.6255	IS*
1	7060.699	3	18147.975-25208.672	2				3.0-	2.0				1.049	0.490	559	-050	-52	14159.0331	IS*
1	7053.921	3	23720.664-30779.585	0				3.0-	3.0				0.790	0.860*	70	019	50	14162.5995	IS*
1	7057.761	2	24331.050-17323.291	2				5.0-	4.0				1.450	1.250*	200	119	119	14164.9272	
1	7057.482	3	20549.110-27597.590	2				3.0-	4.0				0.830	0.930*	100	136	133	14165.4872	
1	7056.395	2	21737.407-28793.800	2				3.0-	3.0				1.026	1.083	57	-047	-49	14167.6693	
2	7056.044	2	25573.915-15517.872	1				1.5-	0.5				1.627	2.755	1128	234	241	14168.3741	
1	7054.263	2	16595.109-23649.372	5				3.0-	4.0				0.999	0.000*	0	-327	-323	14171.9411	
1	7053.521	1	26317.729-33371.251	-1				4.0-	3.0				1.180	1.113*	67		46	14173.4420	
1	7053.443	1	25664.825-32718.268	0				0.0-	1.0				0.000	0.600*	0		56	14173.5987	
1	7053.065	3	25591.845-18538.782	2				3.0-	2.0				0.990	1.600*	610	156	151	14174.3584	IS*
1	7051.420	4	24316.699-17765.281	2				2.0-	3.0				1.165	1.680*	515	160	160	14177.6650	
1	7049.557	2	19426.512-26476.068	1				3.0-	4.0				1.435	1.605	170	-291	-290	14181.4118	
	7046.181	2														-030		14188.2065	
1	7044.235	2	23735.353-30779.585	3				2.0-	3.0				0.935	0.860*	75	055	57	14192.1260	
1	7042.526	2	30595.841-23953.307	-8				2.0-	2.0				1.470	1.265*	205	123	122	14195.5700	
1	7040.700	1	24970.474-32011.173	1				4.0-	3.0				1.460	1.140*	320	038	45	14199.2517	IS*
1	7038.879	3	23315.299-16276.332	2				2.0-	2.0				1.335	1.880*	545	179	178	14202.9251	
1	7035.403	2	22518.312-29554.716	-1				2.0-	3.0				1.350	0.831	519		53	14207.9229	
1	7035.184	2	28023.254-20983.110	0				4.0-	4.0				1.240	1.374*	134	232	232	14210.3847	
	7031.987	1																14216.8453	
1	7031.700	1	26374.994-19343.298	4				4.0-	3.0				0.000	1.135	0	201	205	14217.4256	
1	7030.485	1	23909.583-30940.068	2				5.0-	5.0				1.242	1.080	162		28	14219.8826	
1	7030.314	3	39503.895-23473.585	3				5.0-	6.0				0.000	0.000*	0	154	153	14220.2285	
1	7029.198	2	21703.960-28733.159	-1				5.0-	4.0				1.120	1.035	85	-091	-90	14222.4862	
1	7024.264	2	24347.551-17323.291	4				3.0-	4.0				1.300	1.250*	50	176	177	14232.4764	
1	7023.231	2	21337.573-28360.802	2				4.0-	3.0				1.137	0.887	250		-67	14234.5697	C2

C	WAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	7023.231	2	17615.482-24638.713			0	.	.	2.0-	2.0	.	.	.	1.450	0.000*	0		-345	14234.5697	C2
2	7023.114	2	29523.355-22500.225	-16			.	.	5.5-	5.5	.	.	.	1.165	1.555	390		327	14234.8069	
1	7022.990	3	19426.512-26449.501	1			.	.	3.0-	3.0	.	.	.	1.435	0.940*	495	-167	-167	14235.0582	
1	7021.856	3	21812.682-20834.535	3			.	.	4.0-	5.0	.	.	.	1.040	0.978	62	16	15	14237.3571	IS*
1	7021.293	2	20521.579-27542.874	-2			.	.	6.0-	5.0	.	.	.	1.246	1.270*	24	-279	-279	14238.4987	
1	7020.683	4	12322.613-19343.298	-2			.	.	2.0-	3.0	.	.	.	1.036	1.135	99	-421	-421	14239.7359	
1	7019.338	2	20709.458-27728.796	0			.	.	3.0-	3.0	.	.	.	1.240	1.060	180	104	104	14242.4644	
	7013.899	1					.	.			.	.	.				089		14243.3552	
1	7017.200	1	14692.549-21709.745	4			.	.	2.0-	3.0	.	.	.	0.292	0.980	688	012	22	14246.8038	SIGMA*
1	7016.118	2	23763.470-30779.585	3			.	.	4.0-	3.0	.	.	.	0.970	0.860*	110	-	-44	14249.0009	
1	7015.654	2	24780.935-17765.281	0			.	.	2.0-	3.0	.	.	.	0.830	1.680*	850	327	325	14249.9433	
1	7015.344	3	24613.274-31628.619	-1			.	.	5.0-	6.0	.	.	.	1.160	1.110	50	058	58	14250.5730	
1	7014.948	3	27755.977-20741.029	0			.	.	3.0-	2.0	.	.	.	1.370	0.000*	0	117	118	14251.3774	
1	7014.526	2	12591.122-25605.707	1			.	.	4.0-	4.0	.	.	.	0.965	1.160	195	-167	-169	14252.1129	
1	7013.069	2	16155.109-23168.176	2			.	.	5.0-	5.0	.	.	.	0.948	1.115	167	-181	-182	14255.1958	
1	7012.853	3	13147.975-25160.827	1			.	.	3.0-	3.0	.	.	.	1.049	0.800	249	-020	-25	14255.6349	IS*
1	7009.694	3	17911.977-24921.671	0			.	.	5.0-	5.0	.	.	.	1.145	1.034	111	-106	-106	14262.0593	
1	7005.977	2	24903.894-17897.917	0			.	.	3.0-	3.0	.	.	.	0.915	0.450	465	-118	-118	14269.6260	
	7005.077	3					.	.			.	.	.				-028		14271.4594	IS*
1	7003.023	2	21737.407-28740.433	-3			.	.	3.0-	3.0	.	.	.	1.026	0.970	56	-024	-25	14275.6452	IS*
	7001.301	1					.	.			.	.	.						14279.1564	
1	6997.940	1	26894.711-33892.650	1			.	.	3.0-	3.0	.	.	.	1.465	1.060	405	-012	-13	14286.0145	IS*
1	6996.261	2	26374.994-33371.251	4			.	.	4.0-	3.0	.	.	.	0.000	1.113	0		7	14289.4429	
	6996.108	1					.	.			.	.	.						14289.7554	
1	6995.755	4	21737.407-28733.159	3			.	.	3.0-	4.0	.	.	.	1.026	1.035	9	138	137	14290.4765	
1	6993.835	2	23550.352-30544.187	0			.	.	3.0-	3.0	.	.	.	1.090	0.946*	144	089	87	14294.3996	
1	6990.033	2	26283.495-33273.528	0			.	.	7.0-	7.0	.	.	.	1.030	1.070*	10	28	29	14302.1746	
1	6989.608	4	23766.136-16776.530	2			.	.	1.0-	1.0	.	.	.	2.162	0.000*	0	062	61	14303.0442	
1	6987.796	1	17500.977-24488.767	6			.	.	1.0-	1.0	.	.	.	2.258	0.000*	0	-200	-196	14306.7531	
	6986.812	2					.	.			.	.	.				-141		14308.7680	ISQ
1	6985.366	2	15424.387-22409.753	0			.	.	3.0-	2.0	.	.	.	1.106	1.413	307	-402	-402	14311.7300	
	6985.182	1					.	.			.	.	.						14312.1070	
1	6982.665	4	20554.712-27637.377	0			.	.	1.0-	1.0	.	.	.	0.200	1.280	1080	28	29	14317.2660	
1	6982.481	1	27124.898-34107.378	1			.	.	2.0-	3.0	.	.	.	1.190	1.160*	30	-010	-12	14317.6433	
1	6982.130	2	20990.684-27972.815	-1			.	.	5.0-	4.0	.	.	.	1.308	0.979	329	-072	-71	14318.3631	
1	6981.119	1	21812.682-28793.800	1			.	.	4.0-	3.0	.	.	.	1.040	1.083	43		-120	14320.4367	
1	6979.946	3	24012.505-30992.449	2			.	.	6.0-	7.0	.	.	.	1.248	1.210*	38	-054	-56	14322.8432	IS*
1	6979.669	1	19486.402-26476.068	3			.	.	3.0-	4.0	.	.	.	1.555	1.605	50	-400	-403	14323.4117	
1	6978.802	2	27651.193-20672.390	-1			.	.	2.0-	1.0	.	.	.	1.570	0.000*	0	200	196	14325.1911	
1	6977.509	3	8768.139-15745.648	0			.	.	2.0-	3.0	.	.	.	0.362	1.145	783	-398	-398	14327.8457	
1	6974.491	2	20457.704-27432.195	0			.	.	0.0-	1.0	.	.	.	0.000	1.130*	0		-59	14334.0457	
1	6974.304	4	22719.949-15745.643	3			.	.	4.0-	3.0	.	.	.	1.070	1.145	75	168	168	14334.4300	
1	6971.956	5	14737.788-21709.745	-1			.	.	3.0-	3.0	.	.	.	0.815	0.980	165	24	23	14339.2575	IS*
1	6971.563	3	25828.024-18856.461	0			.	.	4.0-	5.0	.	.	.	1.310	1.325*	15	097	96	14340.0659	
1	6971.393	1	23804.649-28976.039	3			.	.	5.0-	4.0	.	.	.	1.196	1.070	126	-135	-132	14340.4156	
1	6970.161	1	28023.294-34993.452	3			.	.	4.0-	4.0	.	.	.	1.240	1.213*	27		-28	14342.9503	
	6967.780	1					.	.			.	.	.						14347.8515	
1	6967.369	2	17615.482-24532.849	2			.	.	2.0-	2.0	.	.	.	1.450	0.640	810	24	19	14348.6979	IS*
	6967.137	1					.	.			.	.	.						14349.1757	
	6966.379	3H					.	.			.	.	.						14350.7370	
	6966.355	2					.	.			.	.	.						14350.7844	
1	6966.212	1	23909.585-30875.798	-1			.	.	5.0-	4.0	.	.	.	1.242	1.080*	162		-156	14351.0810	
1	6965.928	2	29021.267-22955.339	0			.	.	4.0-	3.0	.	.	.	0.000	0.000*	0		168	14351.6661	
1	6965.510	2	24437.792-31403.302	0			.	.	4.0-	5.0	.	.	.	1.500	1.205*	295	-225	-225	14352.5273	SIGMA*
1	6965.445	5	21307.390-14341.947	2			.	.	1.0-	2.0	.	.	.	2.360	0.852*	1508	153	152	14352.6613	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS D6	TERM G2	TERM G1	TERM D6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6963.101	2	14025.007-20988.110		-2	.	.	4.0- 4.0	.	.	.	.	0.975	1.374	399	-401	-404	14357.4928	
1	6962.740	3	22176.323-29139.061		2	.	.	1.0- 2.0	.	.	.	.	1.210	0.000*	0	-136	-142	14358.2372	
	6960.714	1				.	.		.	.	.	.						14362.4164	
1	6960.627	3	26149.538-33110.165		0	.	.	4.0- 4.0	.	.	.	.	1.360	1.220*	140	-020	-21	14362.5959	IS*
1	6959.905	3	26909.000-32938.905		-1	.	.	3.0- 4.0	.	.	.	.	0.870	1.115*	245	024	32	14364.0858	
1	6958.824	2	23735.353-16776.530		1	.	.	2.0- 1.0	.	.	.	.	0.935	0.000*	0	163	164	14366.3172	
1	6958.304	3	21603.247-28561.548		3	.	.	2.0- 2.0	.	.	.	.	0.060	0.784*	724		-17	14367.3908	
1	6957.810	2	21337.573-28295.380		3	.	.	4.0- 4.0	.	.	.	.	1.137	1.155	18	-107	-123	14368.4109	IS*
	6957.512	3				.	.		.	.	.	.				229		14369.0263	
1	6957.035	2	22182.030-29139.061		4	.	.	2.0- 2.0	.	.	.	.	1.295	0.000*	0	-046	-52	14370.0115	IS*
1	6955.659	4	26894.711-19939.052		0	.	.	3.0- 3.0	.	.	.	.	1.465	0.000*	0	202	202	14372.8542	
1	6954.833	2	23720.664-30675.497		0	.	.	3.0- 2.0	.	.	.	.	0.790	0.375*	415	051	52	14374.5613	IS*
1	6950.119	4	23814.130-30764.244		5	.	.	6.0- 6.0	.	.	.	.	0.890	0.975	85	20	14	14384.3110	IS*
1	6946.833	2	18346.917-25293.751		-1	.	.	2.0- 3.0	.	.	.	.	1.518	0.965	553	-269	-269	14391.1151	
1	6945.625	2	13726.661-20672.283		3	.	.	3.0- 2.0	.	.	.	.	1.150	1.430*	280	-432	-424	14393.6180	
1	6944.055	2	25100.588-32044.652		1	.	.	2.0- 1.0	.	.	.	.	1.430	0.800	630	081	80	14396.8723	
1	6941.902	1	25660.792-18718.882		-8	.	.	1.0- 2.0	.	.	.	.	1.146	0.504	642	-176	-182	14401.3375	
1	6940.276	2	22705.153-29645.433		1	.	.	1.0- 1.0	.	.	.	.	-0.020	0.705*	725	-105	-105	14404.7115	
1	6940.146	2	23735.353-30675.497		2	.	.	2.0- 2.0	.	.	.	.	0.935	0.375*	560		59	14404.9813	
1	6939.627	3	21031.258-27970.881		4	.	.	2.0- 2.0	.	.	.	.	1.455	0.194	1261	100	100	14406.0586	
1	6936.584	2	25074.585-32011.173		-4	.	.	4.0- 3.0	.	.	.	.	1.507	1.140*	367	154	151	14412.3784	
1	6933.155	3	22416.990-29350.139		6	.	.	2.0- 3.0	.	.	.	.	1.675	0.910	765	055	55	14419.5065	
1	6932.335	2	27196.404-34128.739		0	.	.	3.0- 3.0	.	.	.	.	1.282	1.106	176		-113	14421.2121	
	6931.491	1				.	.		.	.	.	.						14422.9681	
1	6929.981	2	24780.935-31710.912		4	.	.	2.0- 2.0	.	.	.	.	0.830	0.200*	630		-466	14426.1108	
1	6929.458	6	20457.704-13528.246		0	.	.	0.0- 1.0	.	.	.	.	0.000-0.590*	0	112	112	14427.1996		
1	6928.880	3	18346.917-25275.795		2	.	.	2.0- 1.0	.	.	.	.	1.518	0.706	812	073	68	14428.4031	
	6928.723	2				.	.		.	.	.	.						14428.7300	
	6928.587	1				.	.		.	.	.	.						14429.0132	
	6928.287	1				.	.		.	.	.	.						14429.6380	
	6927.741	3H				.	.		.	.	.	.						14430.7753	2LNS
	6927.741	3H				.	.		.	.	.	.						14430.7753	ISQ 2LNS
1	6926.790	3	24824.706-17897.917		1	.	.	4.0- 3.0	.	.	.	.	1.145	0.450	695	-124	-123	14432.7565	
1	6922.774	1	30995.841-37918.620		-5	.	.	2.0- 1.0	.	.	.	.	1.470	0.690*	780	163		14441.1292	CQ
1	6921.560	1	22307.633-29229.190		3	.	.	3.0- 4.0	.	.	.	.	1.434	1.480*	46		-292	14443.6621	
1	6921.415	2	27909.524-20928.110		1	.	.	4.0- 4.0	.	.	.	.	1.270	1.374*	104	174	171	14443.9647	
1	6921.135	1	22666.777-15745.648		6	.	.	3.0- 3.0	.	.	.	.	0.977	1.145	168	350	354	14444.5490	
1	6920.477	3	21812.682-28733.159		0	.	.	4.0- 4.0	.	.	.	.	1.040	1.035	5	067	66	14445.9224	
1	6919.841	3	22705.153-29625.003		-4	.	.	1.0- 2.0	.	.	.	.	-0.020	0.910*	930	8	0	14447.2501	IS*
1	6916.577	2	26696.083-19779.507		1	.	.	5.0- 4.0	.	.	.	.	1.315	0.000*	0	108	117	14454.0679	IS*
1	6915.042	2	15424.387-22339.429		0	.	.	3.0- 2.0	.	.	.	.	1.106	1.049	57	-174	-172	14457.2764	
1	6912.761	2	22377.599-29290.355		5	.	.	7.0- 6.0	.	.	.	.	1.076	0.920	156	-205	-204	14462.0469	
1	6910.540	1	30578.731-23668.184		-7	.	.	5.0- 4.0	.	.	.	.	1.209	0.940*	269		-34	14466.6949	
2	6907.911	2	25573.915-18566.006		2	.	.	1.5- 2.5	.	.	.	.	1.627	1.365	262	165	165	14472.2006	
1	6905.629	3	21420.933-28326.610		2	.	.	3.0- 4.0	.	.	.	.	1.663	1.260*	403	-120	-120	14476.9831	
1	6905.357	2	23909.585-36814.939		3	.	.	5.0- 5.0	.	.	.	.	1.242	1.111	131		-110	14477.5533	
1	6905.009	2	18046.108-24951.118		-1	.	.	4.0- 3.0	.	.	.	.	0.694	0.840	146	191	196	14478.2829	
1	6903.976	3	20654.712-27538.688		0	.	.	1.0- 0.0	.	.	.	.	0.200	0.000	0	28	27	14480.4492	IS*
1	6901.642	4	30375.227-23473.585		0	.	.	6.0- 6.0	.	.	.	.	1.320	0.000*	0	107	108	14485.3463	
	6897.557	2				.	.		.	.	.	.						14493.9251	
1	6897.464	5	20425.711-13528.246		-1	.	.	1.0- 1.0	.	.	.	.	1.340-0.590*	1930		144	144	14494.1205	
1	6894.291	3	27216.453-20322.165		-2	.	.	5.0- 6.0	.	.	.	.	1.180	1.360*	180	322	322	14500.7912	
	6891.952	1				.	.		.	.	.	.						14505.7125	IS*
1	6891.246	3	19558.257-26449.501		2	.	.	2.0- 3.0	.	.	.	.	-0.145	0.940*	1085	-032	-33	14507.1986	IS*
1	6890.936	3	27563.217-20672.283		2	.	.	1.0- 2.0	.	.	.	.	0.745	1.430*	685	154	154	14507.8512	

C	WAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS OG	TERM G2	TERM G1	TERM OG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	6890.474	2	21227.793-28118.262	5	.	.	.	.	.	4.0-	3.0	.	.	.	1.346	1.250*	96	074	74	14508.8240	
1	6839.562	2	29259.312-22469.753	3	.	.	.	.	.	1.0-	2.0	.	.	.	1.307	1.413	106	158	159	14510.7446	IS*
1	6839.068	2	30905.445-24016.378	1	.	.	.	.	.	6.0-	5.0	.	.	.	0.000	1.560*	0	159	165	14511.7851	
1	6828.134	2	20709.458-27597.590	2	.	.	.	.	.	3.0-	4.0	.	.	.	1.240	0.930	310	131	129	14513.7528	
1	6826.949	1	31540.149-24653.200	0	.	.	.	.	.	7.0-	6.0	.	.	.	1.205	0.000*	0	156	159	14516.2501	
2	6824.880	1	17073.340-10188.463	3	.	.	.	.	.	1.5-	0.5	.	.	.	0.576	2.402	1826	165	165	14520.6125	
1	6834.724	4	13517.647-20402.369	2	.	.	.	.	.	2.0-	3.0	.	.	.	0.892	1.265*	373	-135	-133	14520.9415	
1	6834.581	3	17031.874-23966.450	5	.	.	.	.	.	4.0-	3.0	.	.	.	1.217	0.760	457	-157	-161	14521.2431	IS*
1	6883.849	1	23395.741-30779.585	5	.	.	.	.	.	2.0-	3.0	.	.	.	-0.100	0.860*	960	67	58	14522.7873	IS*
1	6833.078	4	12046.103-24929.184	2	.	.	.	.	.	4.0-	4.0	.	.	.	0.694	1.080	386	078	79	14524.4140	
1	6832.563	2	23578.836-30461.399	0	.	.	.	.	.	5.0-	5.0	.	.	.	1.120	0.990*	130	-	-1	14525.5008	
1	6831.202	2	26301.732-33102.933	1	.	.	.	.	.	5.0-	6.0	.	.	.	1.060	1.050*	10	36	30	14528.3738	IS*
1	6830.035	4	11747.245-12527.281	0	.	.	.	.	.	0.0-	1.0	.	.	.	0.000	0.000*	0	-414	-414	14530.8360	
1	6879.717	3	24644.996-17765.281	2	.	.	.	.	.	3.0-	3.0	.	.	.	1.195	1.680*	485	295	296	14531.5097	
	6878.993	3																		14533.0392	2LNS
1	6878.993	3	24381.050-31260.046	-3	.	.	.	.	.	5.0-	6.0	.	.	.	1.450	1.210*	240	-100	-100	14533.0392	2LNS
1	6877.828	3	19959.027-26335.911	4	.	.	.	.	.	1.0-	2.0	.	.	.	0.760	1.260*	500	8	5	14535.3740	IS*
1	6877.073	2	23368.512-21491.439	0	.	.	.	.	.	3.0-	3.0	.	.	.	0.830	0.000*	0	241	241	14537.0966	
1	6876.864	2	24653.345-17776.483	2	.	.	.	.	.	1.0-	2.0	.	.	.	0.860	0.565*	295	-028	-27	14537.5384	IS*
1	6876.235	2	21218.180-14341.947	2	.	.	.	.	.	3.0-	2.0	.	.	.	0.860	0.852	8	387	386	14538.8682	
1	6875.563	3	18046.108-24921.671	0	.	.	.	.	.	4.0-	5.0	.	.	.	0.694	1.034	340	125	126	14540.2892	
1	6874.399	2	21420.983-28295.380	2	.	.	.	.	.	3.0-	4.0	.	.	.	1.663	1.155	508	24	23	14542.7513	IS*
1	6873.287	2	17615.482-24488.767	2	.	.	.	.	.	2.0-	1.0	.	.	.	1.450	0.000*	0	-265	-269	14545.1041	
1	6873.139	2	26835.333-33758.523	4	.	.	.	.	.	5.0-	5.0	.	.	.	1.055	0.830	225	24	27	14545.4173	IS*
1	6872.845	3	19558.257-26431.101	1	.	.	.	.	.	2.0-	3.0	.	.	.	-0.145	0.807	952	-016	-17	14546.0395	IS*
1	6871.936	2H	22176.323-29048.255	4	.	.	.	.	.	1.0-	1.0	.	.	.	1.210	0.900*	310	-036	-43	14547.9636	IS*
	6871.883	1H																		14548.0758	
1	6867.946	2	28900.213-35768.160	-1	.	.	.	.	.	8.0-	8.0	.	.	.	0.000	1.120*	0	055	56	14556.4154	
1	6867.168	3	16155.109-23022.274	3	.	.	.	.	.	5.0-	5.0	.	.	.	0.948	0.817	131	-223	-224	14558.0645	
1	6861.475	1	26250.080-33111.557	-2	.	.	.	.	.	1.0-	2.0	.	.	.	1.290	1.315*	25	25	34	14570.1434	IS*
1	6861.354	3	19959.027-26820.380	1	.	.	.	.	.	1.0-	2.0	.	.	.	0.760	1.160*	400	28	22	14570.4004	IS*
1	6860.933	2	25717.323-18356.461	6	.	.	.	.	.	5.0-	5.0	.	.	.	0.970	1.325*	355	149	152	14571.2945	
1	6858.958	4	28595.088-21736.133	3	.	.	.	.	.	6.0-	7.0	.	.	.	1.200	0.000*	0	114	111	14575.4902	
	6857.915	2																		14577.7069	
	6857.161	2																		14579.3099	
1	6857.075	2	20385.328-13528.246	-7	.	.	.	.	.	2.0-	1.0	.	.	.	1.911	0.590*	2501	157	147	14579.4927	
1	6856.429	4	14853.317-21709.745	1	.	.	.	.	.	4.0-	3.0	.	.	.	0.786	0.980	194	097	97	14580.8664	
	6856.063	2																		14581.6448	2LNS
	6856.063	2																		14581.6448	ISQ 2LNS
1	6855.589	1	27768.715-34624.299	5	.	.	.	.	.	1.0-	2.0	.	.	.	0.722	1.150*	428	-106	-106	14582.6529	
1	6855.422	3	25717.388-32572.811	-1	.	.	.	.	.	5.0-	5.0	.	.	.	0.970	1.010*	40	-012	-13	14583.0082	IS*
1	6854.522	3	30503.896-23649.372	-2	.	.	.	.	.	5.0-	4.0	.	.	.	0.000	0.000*	0	122	123	14584.9229	
1	6853.988	2	18578.669-25432.655	2	.	.	.	.	.	1.0-	2.0	.	.	.	1.932	1.281	651	273	272	14586.0593	
1	6852.075	3	22416.990-29269.059	6	.	.	.	.	.	2.0-	1.0	.	.	.	1.675	1.110*	565	046	46	14590.1315	IS*
1	6850.963	4	22818.840-29659.807	-4	.	.	.	.	.	6.0-	6.0	.	.	.	1.335	1.150	185	-159	-157	14592.4997	
1	6849.492	2	10486.922-17336.413	1	.	.	.	.	.	1.0-	0.0	.	.	.	0.355	0.000	0	-387	-387	14595.6335	
1	6849.194	3	19553.257-26407.449	2	.	.	.	.	.	2.0-	2.0	.	.	.	-0.145	0.972	1117	40	37	14596.2686	
1	6848.252	2	19759.027-26307.278	1	.	.	.	.	.	1.0-	1.0	.	.	.	0.760	0.550*	210	-095	-95	14598.2764	
1	6844.175	3	24742.092-17397.917	0	.	.	.	.	.	4.0-	3.0	.	.	.	0.980	0.450*	530	-228	-226	14606.9724	
1	6843.485	1	29295.313-22451.834	6	.	.	.	.	.	4.0-	5.0	.	.	.	1.270	0.000*	0	220	220	14608.4452	
1	6841.709	3	17911.977-24753.684	2	.	.	.	.	.	5.0-	4.0	.	.	.	1.145	0.975	170	-181	-180	14612.2373	
1	6841.329	2	25560.208-18718.852	3	.	.	.	.	.	1.0-	2.0	.	.	.	1.500	0.504*	996	-40	-40	14613.0489	
1	6838.537	3	24613.274-31451.814	-3	.	.	.	.	.	5.0-	4.0	.	.	.	1.160	1.080	80	068	68	14619.0151	
1	6837.904	2	26374.994-33212.897	1	.	.	.	.	.	4.0-	4.0	.	.	.	0.000	1.110*	0	043	47	14620.3684	
	6836.351	2																		14623.6897	

C	HA	NUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6835.	175	2	30578.731-23743.557		1	.	.	5.0-	6.0	.	.	.	1.209	0.000*	0	241	248	14626.2057	
1	6834.	766	3	22719.949-29554.716		-1	.	.	4.0-	3.0	.	.	.	1.070	0.831	239	048	48	14627.0809	
	6833.	901	2																14628.9324	
1	6833.	806	5	16834.379-23668.184		1	.	.	5.0-	4.0	.	.	.	0.961	0.940*	21	-091	-91	14629.1357	
	6832.	234	2														-040		14632.5017	
1	6831.	832	4	22518.312-29350.139		5	.	.	2.0-	3.0	.	.	.	1.350	0.910	440	045	47	14633.3627	IS*
1	6830.	465	2	20043.465-26873.930		0	.	.	5.0-	6.0	.	.	.	0.925	1.125	200	185	187	14636.2913	
	6829.	437	2																14638.4945	
1	6826.	217	1	20697.436-27523.650		3	.	.	7.0-	6.0	.	.	.	1.250	1.080	170	-112	-113	14645.3996	
1	6826.	072	2	24149.361-17323.291		2	.	.	5.0-	4.0	.	.	.	1.262	1.250*	12	212	212	14645.7107	
1	6825.	599	2	25113.744-31939.345		-2	.	.	6.0-	6.0	.	.	.	1.302	1.200*	102	-111	-114	14646.7256	
1	6824.	556	5	23100.887-16276.332		1	.	.	3.0-	2.0	.	.	.	1.520	1.880*	360	065	65	14648.9641	
1	6824.	144	3	21737.407-23561.548		3	.	.	3.0-	2.0	.	.	.	1.026	0.784	242	074	73	14649.8485	
1	6819.	369	3	26149.538-32968.906		1	.	.	4.0-	4.0	.	.	.	1.360	1.115*	245	40	34	14660.1065	
1	6818.	945	2	25192.231-32011.173		3	.	.	4.0-	3.0	.	.	.	1.763	1.140*	628	194	202	14661.0181	
1	6818.	401	4	22818.840-29637.242		-1	.	.	6.0-	6.0	.	.	.	1.335	1.020	315		-197	14662.1878	
1	6818.	222	5	10486.922-17305.142		2	.	.	1.0-	2.0	.	.	.	0.355	0.000*	0	-146	-145	14662.5727	
1	6817.	847	3	22038.306-28906.150		3	.	.	6.0-	5.0	.	.	.	1.050	1.105	45		5	14663.3792	
1	6817.	086	2	25328.024-32645.106		4	.	.	4.0-	5.0	.	.	.	1.310	1.135*	175	051	49	14665.0161	IS*
1	6814.	993	3	16334.379-23649.372		0	.	.	5.0-	4.0	.	.	.	0.961	0.000*	0	-339	-340	14669.5200	
1	6814.	856	1	26572.296-33387.151		1	.	.	2.0-	2.0	.	.	.	1.014	1.288	274	-116	-122	14669.8149	
1	6811.	574	4	11240.715-18652.287		2	.	.	3.0-	3.0	.	.	.	0.811	0.822	11	-140	-139	14676.8832	
1	6811.	286	1	24455.635-31267.919		2	.	.	3.0-	3.0	.	.	.	1.000	1.080*	80		69	14677.5038	
1	6807.	813	2	20597.436-27505.246		3	.	.	7.0-	7.0	.	.	.	1.250	0.000*	0	-143	-143	14684.9915	
2	6806.	614	2	17532.937-10726.322		-1	.	.	3.5-	4.5	.	.	.	1.238	1.391	153	212	215	14687.5783	
1	6805.	704	1	15249.635-22055.339		0	.	.	2.0-	3.0	.	.	.	0.715	0.000*	0	-389	-396	14689.5422	
1	6803.	743	1	24648.621-31452.362		2	.	.	0.0-	1.0	.	.	.	0.000	0.852	0	155	160	14693.7761	
1	6803.	469	5	14025.007-20928.475		1	.	.	4.0-	4.0	.	.	.	0.975	0.352	523	-193	-193	14694.3679	
1	6803.	143	2	18147.975-24951.118		0	.	.	3.0-	3.0	.	.	.	1.049	0.840	209		-38	14695.0720	
1	6802.	433	2	24012.505-30814.939		-1	.	.	6.0-	5.0	.	.	.	1.248	1.111	137	-141	-142	14696.6058	
1	6801.	334	3	23281.721-30083.102		3	.	.	5.0-	5.0	.	.	.	1.235	1.150*	85		0	14698.8725	IS*
1	6797.	030	2	23274.858-30071.890		-2	.	.	4.0-	5.0	.	.	.	1.604	1.290*	314	-051	-62	14708.2882	IS*
1	6796.	649	1	22176.323-28972.971		1	.	.	1.0-	2.0	.	.	.	1.210	0.794*	416	20	19	14709.1127	IS*
1	6796.	437	2	26735.491-19939.052		-2	.	.	2.0-	3.0	.	.	.	1.062	0.000*	0	299	298	14709.5716	
1	6795.	207	3	27536.236-20741.029		0	.	.	3.0-	2.0	.	.	.	1.355	0.000*	0	212	210	14712.2341	
1	6793.	537	2	27334.422-34127.955		4	.	.	7.0-	8.0	.	.	.	1.240	1.185*	55	118	115	14715.8507	
1	6791.	151	1	26730.201-19939.052		2	.	.	3.0-	3.0	.	.	.	0.950	0.000*	0		202	14721.0210	
1	6790.	459	1	29341.761-22551.302		0	.	.	2.0-	3.0	.	.	.	1.184	0.000*	0		214	14722.5212	
1	6790.	117	3H	33627.017-26836.911		11	.	.	2.0-	2.0	.	.	.	1.304	1.260*	44		143	14723.2627	CQ
1	6790.	083	2	20521.579-27311.658		4	.	.	6.0-	5.0	.	.	.	1.246	1.035	211		-85	14723.3364	
1	6790.	027	3H	24613.274-31403.302		-1	.	.	5.0-	5.0	.	.	.	1.160	1.205	45		-92	14723.4579	C2
1	6790.	027	3H	19365.603-26655.622		8	.	.	4.0-	3.0	.	.	.	1.100	1.015	85		-176	14723.4579	C2
1	6789.	748	5	22219.737-29009.483		2	.	.	4.0-	4.0	.	.	.	0.750	0.695	55	060	62	14724.0629	
	6789.	325	2																14724.9802	
1	6788.	871	4	30262.453-23473.585		3	.	.	6.0-	6.0	.	.	.	1.284	0.000*	0	141	141	14725.9550	
1	6784.	627	2	24091.173-30875.798		2	.	.	3.0-	4.0	.	.	.	1.245	1.080*	165	20	23	14735.1765	IS*
1	6779.	756	4	23395.741-30575.497		0	.	.	2.0-	2.0	.	.	.	-0.100	0.375*	475	054	60	14745.7632	
	6777.	979	2																14749.6292	
1	6777.	431	3	20654.712-27432.195		-2	.	.	1.0-	1.0	.	.	.	0.200	1.130*	930	-034	-87	14750.7129	
1	6776.	178	2	24216.272-30992.449		1	.	.	6.0-	7.0	.	.	.	1.005	1.210*	205	-117	-115	14753.5494	
	6775.	821	2																14754.3267	
1	6774.	323	1	22429.984-29204.308		-1	.	.	4.0-	5.0	.	.	.	1.279	0.896	383		9	14757.5893	
1	6772.	665	6	22518.312-15745.648		1	.	.	2.0-	3.0	.	.	.	1.350	1.145	205	163	163	14761.2021	
1	6772.	451	2	25109.417-31881.871		-3	.	.	8.0-	7.0	.	.	.	1.090	1.120*	30	-162	-162	14761.6685	
	6772.	118	2																14762.3944	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6772.009	2	31425.212-24653.200	-3	.	.	.	7.0-	6.0	.	.	.	1.170	0.000*	0		162	14762.6320	
	6769.660	2															-040	14767.7545	
1	6768.509	2	26696.083-33464.592	0	.	.	.	5.0-	4.0	.	.	.	1.315	0.000*	0	028	31	14770.2658	IS*
1	6768.127	1	25113.744-31881.871	0	.	.	.	6.0-	7.0	.	.	.	1.302	1.120	182		73	14771.0994	
1	6767.879	3	27755.977-20338.110	12	.	.	.	3.0-	4.0	.	.	.	1.370	1.374	4	118	124	14771.6407	2LNSIS*
1	6767.879	3	24091.173-17323.291	-3	.	.	.	3.0-	4.0	.	.	.	1.245	1.250*	5	105	103	14771.6407	2LNS
1	6766.762	5	29901.880-23135.120	2	.	.	.	8.0-	8.0	.	.	.	1.450	0.000*	0	048	48	14774.0791	
1	6765.456	2	22416.990-29182.445	1	.	.	.	2.0-	1.0	.	.	.	1.675	0.000*	0	57	57	14776.9311	
1	6764.094	2	25650.792-32424.890	-4	.	.	.	1.0-	1.0	.	.	.	1.146	1.770*	624	-053	-55	14779.9065	C2
1	6764.094	2	23550.352-30314.443	3	.	.	.	3.0-	3.0	.	.	.	1.090	1.140*	50		-55	14779.9065	C2
1	6760.604	2	17045.776-23306.381	-1	.	.	.	1.0-	1.0	.	.	.	1.474	0.094	1380	148	148	14787.5353	
1	6760.062	2	25564.825-32424.890	-3	.	.	.	0.0-	1.0	.	.	.	0.000	1.770*	0	0	0	14788.7219	IS*
1	6759.547	3	21737.407-28496.950	4	.	.	.	3.0-	4.0	.	.	.	1.026	0.810	216	41	44	14789.8487	IS*
1	6757.504	2	18397.584-25655.090	-2	.	.	.	5.0-	4.0	.	.	.	1.280	1.165	115	-297	-299	14794.3201	
1	6751.093	1	26973.744-33724.837	0	.	.	.	2.0-	3.0	.	.	.	1.210	1.160	50	-090	-84	14808.3691	
1	6746.954	4	23413.710-30160.664	0	.	.	.	4.0-	4.0	.	.	.	0.000	1.030*	0	-066	-73	14817.4535	IS* C2
1	6746.954	4	17911.977-24658.931	0	.	.	.	5.0-	4.0	.	.	.	1.145	1.080	65	-066	-69	14817.4535	IS* C2
1	6746.553	5	28482.680-21736.133	6	.	.	.	6.0-	7.0	.	.	.	1.180	0.000*	0	191	190	14818.3342	
1	6746.228	3	22023.306-28834.535	-1	.	.	.	6.0-	5.0	.	.	.	1.060	0.978	82	072	72	14819.0481	
1	6742.849	1	30351.813-23618.964	0	.	.	.	2.0-	3.0	.	.	.	1.044	0.000*	0	120	124	14826.4743	
1	6742.009	2	24456.635-31193.642	2	.	.	.	3.0-	3.0	.	.	.	1.000	1.070*	70	63	70	14828.3216	IS*
1	6741.657	2	29193.490-22451.834	1	.	.	.	6.0-	5.0	.	.	.	1.240	0.000*	0	201	199	14829.0958	
2	6740.213	2	26916.090-20175.895	23	.	.	.	2.5-	3.5	.	.	.	1.040	1.515*	475	359	359	14832.2617	
1	6738.425	2	23720.664-30459.091	-2	.	.	.	3.0-	2.0	.	.	.	0.790	1.255*	465	-066	-64	14836.2084	
	6738.127	2															-024	14836.8545	IS*
1	6736.754	2	26516.261-19779.507	0	.	.	.	5.0-	4.0	.	.	.	1.200	0.000*	0	256	264	14839.8284	
1	6731.710	3	18578.669-25310.375	4	.	.	.	1.0-	0.0	.	.	.	1.932	0.000	0	248	246	14851.0078	
1	6731.261	2	28156.938-34888.198	1	.	.	.	6.0-	5.0	.	.	.	1.335	1.070	265	074	73	14851.9984	
1	6730.248	3	17500.977-24231.226	-1	.	.	.	1.0-	2.0	.	.	.	2.258	0.411	1847	45	59	14854.2339	IS*
	6724.326	2															207	14867.3158	
1	6723.738	1	23735.353-30459.091	0	.	.	.	2.0-	2.0	.	.	.	0.935	1.255*	320		-57	14868.6159	
1	6723.344	3	28214.784-21491.439	-1	.	.	.	3.0-	3.0	.	.	.	0.905	0.000*	0	153	153	14869.4872	
1	6719.627	2	26149.538-32369.165	0	.	.	.	4.0-	5.0	.	.	.	1.360	0.916*	444	-016	-14	14877.7124	IS*
	6719.273	1															309	14878.4962	
1	6718.855	2	25706.036-32424.890	1	.	.	.	2.0-	1.0	.	.	.	1.290	1.770*	480	-012	-12	14879.4219	IS*
	6715.016	1															81	14887.9285	
	6711.681	2															40	14895.3262	
1	6709.470	2	21263.359-27972.815	-6	.	.	.	5.0-	4.0	.	.	.	0.610	0.979*	369	195	195	14900.2348	ISQ
1	6707.576	5	18046.108-24753.684	0	.	.	.	4.0-	4.0	.	.	.	0.694	0.975	281	051	52	14904.4421	
1	6706.574	2	22382.904-16276.332	2	.	.	.	2.0-	2.0	.	.	.	1.257	1.880*	623	341	341	14906.6689	
1	6702.743	3	22467.436-21764.690	-3	.	.	.	5.0-	5.0	.	.	.	1.210	0.000*	0	139	140	14915.1889	
1	6697.128	3	18578.669-25275.795	2	.	.	.	1.0-	1.0	.	.	.	1.932	0.706	1226	213	213	14927.6941	
1	6694.599	1	22509.712-29204.308	3	.	.	.	5.0-	5.0	.	.	.	1.287	0.896	391		-161	14933.3333	
1	6694.320	2	23281.721-29976.039	2	.	.	.	5.0-	4.0	.	.	.	1.235	1.070	165	36	37	14933.9557	IS*
1	6691.354	2	24456.635-17765.281	0	.	.	.	3.0-	3.0	.	.	.	1.000	1.680*	680	210	212	14940.5753	
1	6691.167	2	18363.921-25655.090	-2	.	.	.	4.0-	4.0	.	.	.	1.251	1.165	86	-287	-282	14940.9929	
	6689.673	2																14944.3297	
1	6689.314	6	21031.258-14341.947	3	.	.	.	2.0-	2.0	.	.	.	1.455	0.852	603	091	89	14945.1317	
	6689.102	2																14945.6053	
	6687.559	2															-169	14949.0537	
1	6686.418	2	22219.737-28906.150	5	.	.	.	4.0-	5.0	.	.	.	0.750	1.105	355	3	13	14951.6047	IS*
1	6684.340	3H	22429.984-15745.648	4	.	.	.	4.0-	3.0	.	.	.	1.279	1.145	134	176	177	14956.2528	
1	6684.270	5	21812.682-28456.950	2	.	.	.	4.0-	4.0	.	.	.	1.040	0.810	230	-024	-27	14956.4094	
2	6681.176	1	23426.895-16745.720	1	.	.	.	2.5-	2.5	.	.	.	1.340	1.671	331	375	379	14963.3356	
	6680.885	2															-	14963.9874	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	6620.627	1																	14964.5653	
1	6680.296	1	20330.616	-	27510.909	3	.	.	8.0-	8.0	.	.	.	1.110	0.000*	0		-155	14965.3067	
1	6579.976	5	14737.788	-	21417.765	-1	.	.	3.0-	4.0	.	.	.	0.815	0.802	13	36	35	14966.0236	IS*
1	6678.208	2	20390.604	-	27668.890	2	.	.	5.0-	5.0	.	.	.	1.308	1.312	4	-262	-262	14969.9858	
1	6675.710	3	13726.651	-	20402.359	2	.	.	3.0-	3.0	.	.	.	1.150	1.265*	115	-147	-146	14975.5874	
1	6674.631	2	20230.616	-	27505.246	1	.	.	8.0-	7.0	.	.	.	1.110	0.000*	0	-155	-152	14978.0084	
1	6673.679	4	24090.570	-	30764.244	5	.	.	7.0-	6.0	.	.	.	1.130	0.975	155	-008	-8	14980.1450	IS*
1	6672.330	2	17615.482	-	24287.814	-2	.	.	2.0-	3.0	.	.	.	1.450	0.585	865		-113	14983.1736	
1	6672.046	2	26283.495	-	32955.538	3	.	.	7.0-	6.0	.	.	.	1.080	1.265	185		-69	14983.8114	
1	6671.343	6	22416.990	-	15745.648	1	.	.	2.0-	3.0	.	.	.	1.675	1.145	530	155	155	14985.3903	
	6671.198	2																	14985.7161	
1	6671.119	2	26633.286	-	33304.400	5	.	.	1.0-	0.0	.	.	.	1.124	0.000	0		1	14985.8935	
	6670.609	1																	14987.0393	
1	6669.867	2	16304.260	-	22974.132	-5	.	.	4.0-	3.0	.	.	.	1.285	1.147	138	-152	-150	14988.7065	
1	6668.459	1	22038.306	-	28756.769	-4	.	.	6.0-	5.0	.	.	.	1.060	1.165	105	-047	-47	14991.8713	
	6667.295	3																	14994.4836	
1	6667.177	2	26301.732	-	32968.906	3	.	.	5.0-	4.0	.	.	.	1.060	1.115*	55	000	-4	14994.7540	IS*
1	6666.770	2	29118.602	-	22451.834	2	.	.	4.0-	5.0	.	.	.	1.510	0.000*	0		186	14995.6694	
1	6665.819	1	23550.352	-	30216.163	8	.	.	3.0-	2.0	.	.	.	1.090	1.143*	53	24	24	14997.8088	
1	6663.334	1	25660.792	-	32324.169	7	.	.	1.0-	0.0	.	.	.	1.146	0.000	0		28	15003.2895	
	6663.315	2																	15003.4448	
1	6662.677	2	20769.512	-	27432.195	-6	.	.	2.0-	1.0	.	.	.	1.070	1.130*	60	-057	-64	15004.8815	
1	6658.646	2	27975.402	-	34634.053	-5	.	.	7.0-	8.0	.	.	.	1.017	0.000*	0	053	65	15013.9652	
1	6658.245	2	28214.784	-	21556.538	-1	.	.	3.0-	4.0	.	.	.	0.905	1.290	385		177	15014.8694	
1	6657.503	1	15424.387	-	22081.891	-1	.	.	3.0-	4.0	.	.	.	1.106	0.000*	0		-145	15016.5429	
	6652.002	1																	15028.9611	
1	6651.155	4	23720.664	-	30371.819	0	.	.	3.0-	3.0	.	.	.	0.790	0.640*	150	-048	-49	15030.8750	IS*
1	6649.634	4	28335.761	-	21736.133	6	.	.	6.0-	7.0	.	.	.	1.025	0.000*	0	246	245	15034.3131	
2	6648.778	3	18656.277	-	12007.503	4	.	.	1.5-	1.5	.	.	.	0.000	-0.019*	0	470	469	15036.2487	
1	6648.449	1	23395.741	-	30544.187	3	.	.	2.0-	3.0	.	.	.	-0.100	0.946*	1046	085	90	15036.9928	
1	6647.214	4	16520.962	-	23168.176	0	.	.	5.0-	5.0	.	.	.	0.736	1.115	379	32	32	15039.7865	
1	6646.051	2	20877.600	-	27523.650	1	.	.	7.0-	6.0	.	.	.	1.060	1.080*	20	110	112	15042.4183	
1	6645.825	2	29307.360	-	35953.183	2	.	.	8.0-	8.0	.	.	.	0.000	1.105*	0	-042	-43	15042.9299	
1	6644.527	2	14912.011	-	21556.538	0	.	.	4.0-	4.0	.	.	.	0.496	1.290	794	-244	-243	15045.8685	
1	6641.628	3	21703.960	-	28345.647	1	.	.	5.0-	6.0	.	.	.	1.120	0.000*	0	-337	-334	15052.2999	
1	6637.348	2	20306.482	-	26943.829	1	.	.	4.0-	5.0	.	.	.	1.123	1.220	97	-216	-225	15062.1422	
	6636.627	2																	15063.7786	
1	6636.469	2	23735.353	-	30371.819	3	.	.	2.0-	3.0	.	.	.	0.935	0.640*	295	-040	-42	15064.1372	IS*
1	6636.321	3	24534.240	-	17897.917	-2	.	.	2.0-	3.0	.	.	.	0.000	0.450*	0	-242	-237	15064.4732	
1	6635.663	1H	24816.699	-	31452.362	0	.	.	2.0-	1.0	.	.	.	1.165	0.852	313		159	15065.9670	
1	6635.242	3	21337.573	-	27972.815	0	.	.	4.0-	4.0	.	.	.	1.137	0.979	158	-020	-21	15066.9229	IS*
1	6633.243	2	26572.296	-	19939.052	-1	.	.	2.0-	3.0	.	.	.	1.014	0.000*	0	241	240	15071.4635	
	6632.337	1																	15073.4087	
1	6631.671	2	30375.227	-	23743.557	1	.	.	6.0-	6.0	.	.	.	1.320	0.000*	0	112	111	15075.0361	
1	6631.266	2	22416.990	-	29048.255	1	.	.	2.0-	1.0	.	.	.	1.675	0.900	775	-020	-20	15075.9568	IS*
1	6630.547	1	30995.841	-	24365.295	1	.	.	2.0-	3.0	.	.	.	1.470	1.475*	5		123	15077.5916	
	6630.249	2H																182	15078.2693	ISQ
1	6630.198	2H	22719.949	-	29350.139	8	.	.	4.0-	3.0	.	.	.	1.070	0.910	160	+	42	15078.3853	
1	6630.006	2	18578.669	-	25208.672	3	.	.	1.0-	2.0	.	.	.	1.932	0.490	1442		209	15078.8219	
	6626.132	1																32	15087.6378	IS*
1	6625.036	4	16734.151	-	23359.187	0	.	.	2.0-	3.0	.	.	.	0.928	1.030*	102	-363	-361	15090.1338	
1	6623.393	3	21737.407	-	28360.802	3	.	.	3.0-	3.0	.	.	.	1.026	0.887	139	117	116	15093.8657	
1	6621.592	3	31540.149	-	24918.555	-2	.	.	7.0-	6.0	.	.	.	1.205	0.000*	0	236	236	15097.9825	
1	6620.379	1	29631.948	-	23011.570	1	.	.	5.0-	4.0	.	.	.	0.000	0.000*	0		148	15100.7488	
1	6619.924	2	24733.061	-	31352.983	2	.	.	7.0-	7.0	.	.	.	1.275	0.000*	0	-245	-246	15101.7867	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6616.028	3	24128.639-17572.608	-3				1.0- 2.0				0.667	0.555	112	118	117	15110.6797	
1	6615.745	3	17615.482-24231.226	1				2.0- 2.0				1.450	0.411	1039	-020	-14	15111.3261	IS*
1	6614.881	2	24149.361-30764.244	-2				5.0- 6.0				1.262	0.975	287	-040	-42	15113.2999	
1	6614.801	3	22219.737-28834.535	3				4.0- 5.0				0.750	0.978	228	080	80	15113.4826	
1	6613.385	2	23907.585-30522.971	-1				5.0- 6.0				1.242	0.000*	0	-266	-265	15116.7186	
1	6612.823	5	18046.108-24658.931	0				4.0- 4.0				0.694	1.080	386	163	163	15118.0033	
1	6612.425	2	22181.358-28793.800	-7				3.0- 3.0				0.780	1.083*	303	-078	-80	15118.9133	
1	6612.007	2	20425.711-27037.718	0				1.0- 2.0				1.340	1.300*	40	-080	-80	15119.8691	
1	6611.772	4	22182.030-28793.800	2				2.0- 3.0				1.295	1.083	212	24	22	15120.4065	IS*
1	6611.341	1	25209.162-31820.494	9				5.0- 4.0				1.140	1.240*	100	-274	-274	15121.3922	
	6610.485	1															15123.3503	
1	6610.311	1	23550.352-30160.664	-1				3.0- 4.0				1.090	1.030*	60	064	62	15123.7484	IS*
1	6608.467	7	16520.952-23129.429	0				5.0- 5.0				0.736	1.168	432	-152	-151	15127.9684	
1	6606.120	4	21031.258-27637.377	1				2.0- 1.0				1.455	1.280	175	080	80	15133.3431	
	6606.032	2															15133.5447	
1	6605.711	2	18147.975-24753.684	2				3.0- 4.0				1.049	0.975	74	-186	-182	15134.2801	
1	6604.173	2	31199.300-37803.470	3				9.0- 9.0				0.000	1.220*	0	035	35	15137.8046	
1	6603.595	2	28156.938-34760.532	1				6.0- 6.0				1.335	1.140*	195	100	96	15139.1296	
1	6597.535	1	23720.664-30318.195	4				3.0- 2.0				0.790	0.940*	150	12	12	15153.0353	IS*
	6596.543	1													102		15155.3140	
1	6595.437	2	26374.994-19779.507	0				4.0- 4.0				0.000	0.000*	0	182	182	15157.7405	
1	6595.133	2	19059.958-25655.090	1				5.0- 4.0				1.375	1.165	210	-298	-299	15158.5541	
1	6594.936	2H	29606.506-23011.570	0				5.0- 4.0				0.000	0.000*	0	158	153	15159.0069	
1	6591.420	1	21703.960-28295.380	0				5.0- 4.0				1.120	1.155	35	-167	-167	15167.0931	IS*
1	6586.310	4	17081.874-23668.184	0				4.0- 4.0				1.217	0.940*	277	-108	-108	15178.8605	2LNS
1	6586.310	3	23909.585-17323.291	16				5.0- 4.0				1.242	1.250*	8	280	282	15178.8605	2LNS
1	6585.093	2	20521.579-27106.673	-1				6.0- 6.0				1.246	1.040	206	-116	-117	15181.6657	
1	6584.652	3	20355.328-26959.979	1				2.0- 3.0				1.911	0.000*	0	-117	-117	15182.6825	
1	6584.094	3	19776.904-26350.997	1				6.0- 5.0				1.012	0.796	216	-252	-252	15183.9692	
1	6583.770	1	28348.462-21764.690	-2				4.0- 5.0				0.000	0.000*	0	179	177	15184.7165	
1	6582.980	2	23814.130-30397.106	4				6.0- 5.0				0.890	1.005	115	132	130	15186.5387	
	6579.554	2															15194.4464	
1	6578.170	2H	24012.505-30590.673	2				6.0- 6.0				1.248	0.000*	0	-287	-289	15197.6432	SIGMA*
1	6577.083	1	24437.792-31014.877	-2				4.0- 4.0				1.500	1.170*	330	-050	-60	15200.1550	IS*
1	6576.601	1	24091.173-30567.769	5				3.0- 4.0				1.245	1.265	20	16	17	15201.2690	IS*
1	6574.063	2	22219.737-28793.800	0				4.0- 3.0				0.750	1.083	333	-053	-55	15207.1376	
2	6573.896	2	29074.145-22500.225	-24				5.5- 5.5				0.940	1.555*	615	225	235	15207.5240	ISQ
1	6571.812	1	22782.904-29554.716	0				2.0- 3.0				1.257	0.831	426		-119	15212.3465	
1	6569.706	3	18591.122-25160.827	1				4.0- 3.0				0.965	0.800	165	-	-5	15217.2230	
1	6569.436	1	29021.267-22451.834	3				4.0- 5.0				0.000	0.000*	0		172	15217.8484	
1	6569.338	2	17911.977-24481.313	2				5.0- 6.0				1.145	0.000*	0	-247	-249	15218.0754	
1	6569.090	2	21263.339-27832.430	-1				5.0- 4.0				0.610	0.920*	310	184	188	15218.6499	
1	6568.900	1	24613.274-31182.179	-5				5.0- 4.0				1.160	1.210*	50	-075	-83	15219.0901	CQ ISQ
1	6567.500	2	17081.874-23668.184	2				4.0- 4.0				1.217	0.000*	0	-360	-357	15222.3344	
2	6566.892	2	23312.615-16745.720	-3				1.5- 2.5				0.680	1.671*	991	400	409	15223.7438	
1	6565.500	1	19865.603-26431.101	2				4.0- 3.0				1.100	0.807	293		-253	15226.9715	
2	6565.369	2	20291.680-13726.318	-2				1.5- 2.5				1.377	0.784	593		454	15227.2962	
1	6564.535	3	8768.139- 2203.606	2				2.0- 1.0				0.362	1.495	1133		186	15229.2059	
1	6564.448	6	14353.317-21417.765	0				4.0- 4.0				0.786	0.802	16	109	109	15229.4117	
1	6563.899	2	22705.158-29269.059	-2				1.0- 1.0				-0.020	1.110*	1130	8	-7	15230.6855	IS*
1	6563.367	2	23895.741-30459.091	-3				2.0- 2.0				-0.100	1.255*	1355		-56	15231.9664	
1	6563.220	5	26835.388-20322.165	-3				5.0- 6.0				1.055	1.360*	305	126	125	15232.2612	
1	6562.330	3	23413.710-29976.039	1				4.0- 4.0				0.000	1.070*	0	-059	-61	15234.3270	
	6560.994	3															15237.4291	
1	6560.761	4	22837.092-16276.332	1				3.0- 2.0				1.110	1.880*	770	376	377	15237.9703	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G5	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	6559.924	2	32266.529-25706.606			1	.	.	8.0-	7.0	.	.	.	0.000	0.000*	0	179	180	15239.9146		
1	6559.060	2	22181.363-20740.433			-5	.	.	3.0-	3.0	.	.	.	0.780	0.970*	190	-	-56	15241.9221	CQ	
1	6559.632	1	20934.195-27542.874			3	.	.	6.0-	5.0	.	.	.	1.319	1.270*	49	-282	-283	15242.8005		
1	6553.405	2	22132.030-23740.433			2	.	.	2.0-	3.0	.	.	.	1.295	0.970	325	42	46	15243.4443	IS*	
1	6557.978	3	21737.407-20295.380			5	.	.	3.0-	4.0	.	.	.	1.026	1.155	129	054	60	15244.4358		
1	6555.936	2	22416.990-23972.971			5	.	.	2.0-	2.0	.	.	.	1.675	0.794	881	36	42	15249.0588	IS*	
1	6552.190	3	20990.684-27542.874			0	.	.	5.0-	5.0	.	.	.	1.308	1.270*	38	-268	-266	15257.9033		
1	6552.056	2	23766.136-30318.195			-3	.	.	1.0-	2.0	.	.	.	2.162	0.940	1222	117	122	15258.2153		
1	6551.930	2	9724.351-16276.332			-1	.	.	3.0-	2.0	.	.	.	0.442	1.880*	1438	-402	-404	15258.3923		
1	6551.792	2	22181.368-28733.159			1	.	.	3.0-	4.0	.	.	.	0.780	1.035*	255	-	106	15258.8302	CQ	
	6550.978	2					.	.			.	.	.						15260.7262	
1	6549.813	2	27334.422-33834.230			5	.	.	7.0-	7.0	.	.	.	1.240	1.105*	135	-079	-77	15263.4406		
1	6548.121	2	21812.682-28360.802			1	.	.	4.0-	3.0	.	.	.	1.040	0.887	153	047	45	15267.3846	IS*	
1	6548.004	2	25328.907-31876.909			2	.	.	3.0-	2.0	.	.	.	1.340	0.000*	0		97	15267.6574		
1	6547.917	1	24903.894-31451.814			-3	.	.	3.0-	4.0	.	.	.	0.915	1.080	165	-057	-61	15267.8602		
1	6547.096	2	18578.669-25125.763			2	.	.	1.0-	1.0	.	.	.	1.932	0.314	1618	222	222	15269.7748		
2	6546.453	3	12048.543-5502.060			0	.	.	1.5-	1.5	.	.	.	-0.054	1.169	1223	189	189	15271.1930		
	6546.076	2										-384	15272.1541	
1	6542.112	2	31460.669-24918.555			-2	.	.	7.0-	6.0	.	.	.	1.140	0.000*	0	282	282	15281.4078		
1	6541.825	3	21263.339-27805.163			1	.	.	5.0-	5.0	.	.	.	0.610	1.024*	414	123	131	15282.0783		
1	6540.920	5	12177.963-13718.832			1	.	.	1.0-	2.0	.	.	.	0.525	0.504	21	-024	-22	15284.1927	IS*	
	6539.665	1											15287.1258	
1	6539.454	2H	20934.195-27523.650			-1	.	.	6.0-	6.0	.	.	.	1.319	1.080	239	-109	-117	15287.6191	IS*	
1	6538.221	3	26317.729-19779.507			-1	.	.	4.0-	4.0	.	.	.	1.180	0.000*	0	144	143	15290.5021		
1	6536.629	2	30204.810-23668.184			3	.	.	3.0-	4.0	.	.	.	1.215	0.940*	275		-140	15294.2261		
1	6535.310	3	19553.257-26093.563			4	.	.	2.0-	1.0	.	.	.	-0.145	-0.082	63	092	90	15297.3129		
1	6534.445	1	23578.836-30113.280			1	.	.	5.0-	6.0	.	.	.	1.120	1.050*	70	080	79	15299.3379		
1	6533.254	4	25270.685-19337.431			0	.	.	2.0-	1.0	.	.	.	1.170	2.410*	1240	150	153	15302.1269		
1	6532.963	2	20990.684-27523.650			-3	.	.	5.0-	6.0	.	.	.	1.308	1.080	228	-100	-100	15302.8085		
1	6527.458	4	22818.840-29346.299			-1	.	.	6.0-	7.0	.	.	.	1.335	1.200*	135	-058	-63	15315.7143		
	6527.153	1											15316.4300	
	6526.956	1											15316.8923	
2	6526.701	2	23272.420-16745.720			1	.	.	2.5-	2.5	.	.	.	0.951	1.671	720		315	15317.4907		
	6526.235	2											15318.5821	
1	6525.873	3	25064.653-10538.782			2	.	.	3.0-	2.0	.	.	.	0.980	1.600	620	116	115	15319.4342		
1	6521.806	1	32280.169-38801.970			5*	.	.	5.0-	4.0	.	.	.	1.150	1.090*	60		-32	15323.9874	CQ	
1	6520.706	2	28325.761-34906.470			-3	.	.	6.0-	5.0	.	.	.	1.025	0.925	100	-032	-34	15331.5733		
1	6519.235	1	32724.820-26205.539			4	.	.	4.0-	3.0	.	.	.	1.186	0.701	485		-51	15335.0327		
1	6518.891	2	30252.453-23743.557			-5	.	.	6.0-	6.0	.	.	.	1.284	0.000*	0		144	15335.8419		
1	6518.791	2	26664.150-33182.933			8	.	.	6.0-	6.0	.	.	.	1.135	1.050	85		27	15336.0772	CQ	
	6518.557	1											15336.6277	
1	6517.525	3	14292.176-7774.653			2	.	.	5.0-	4.0	.	.	.	0.970	1.463	493	183	183	15339.0562		
	6516.003	2											15342.6391	
	6515.341	1											15344.1980	
1	6515.016	2	21603.247-28118.262			1	.	.	2.0-	3.0	.	.	.	0.060	1.250*	1190	119	124	15344.9634	IS*	
1	6514.878	2	25113.744-31628.619			3	.	.	6.0-	6.0	.	.	.	1.302	1.110	192	063	71	15345.2885	IS*	
	6514.717	2											15345.6677	
	6514.530	2											15346.1082	
	6514.380	2											15346.4615	
	6514.117	2											15347.0811	
1	6513.931	3	21812.632-28326.610			3	.	.	4.0-	4.0	.	.	.	1.040	1.260*	220	-148	-154	15347.5194	IS*	
1	6513.419	3	22219.737-28733.159			-3	.	.	4.0-	4.0	.	.	.	0.750	1.035	285	126	131	15348.7258	IS*	
1	6510.953	3	18147.975-24659.931			-3	.	.	3.0-	4.0	.	.	.	1.049	1.080	31	-070	-71	15354.5391		
1	6510.464	2	24012.505-30522.971			-2	.	.	6.0-	6.0	.	.	.	1.248	0.000*	0	-297	-297	15355.6923		
1	6509.912	2	25371.962-31831.871			3	.	.	6.0-	7.0	.	.	.	1.165	1.120	45	79	79	15356.9944		

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES	
	6508.677	1																15359.9084		
1	6508.098	2	39618.160-33110.165	13		.	.	3.0-	4.0	.	.	.	0.270	1.220*	950		100	15361.4873		
	6507.536	2				.	.	.	.	.	.	.	.	.	.	.	.	15362.6015	
	6506.988	2				.	.	.	.	.	.	.	.	.	.	.	.	15363.8953	
1	6506.658	3	31425.212-24918.555	1		.	.	7.0-	6.0	.	.	.	1.170	0.000*	0	237	239	15364.6745		
1	6505.754	5	14912.011-21417.765	0		.	.	4.0-	4.0	.	.	.	0.496	0.802	306	207	206	15366.8095		
1	6505.231	2	23416.666-29321.899	-2		.	.	2.0-	2.0	.	.	.	1.320	1.070*	250		-110	15368.0449		
1	6504.266	4	23578.836-30083.102	0		.	.	5.0-	5.0	.	.	.	1.120	1.150*	30	-016	-16	15370.3250	IS*	
	6504.204	2				.	.	.	.	.	.	.	.	.	.	.	.	15370.4715	
	6504.137	2				.	.	.	.	.	.	.	.	.	.	.	.	15370.6299	
	6503.950	2				.	.	.	.	.	.	.	.	.	.	.	.	15371.0718	
	6503.752	2				.	.	.	.	.	.	.	.	.	.	.	.	15371.5397	
	6503.651	2				.	.	.	.	.	.	.	.	.	.	.	.	15371.7785	
	6503.575	2				.	.	.	.	.	.	.	.	.	.	.	.	15371.9581	
2	6503.447	3	21991.980-15488.530	-3		.	.	2.5-	3.5	.	.	.	1.344	1.057	287	442	444	15372.2606		
1	6501.314	8	16520.952-23022.274	2		.	.	5.0-	5.0	.	.	.	0.736	0.817	81	-010	-10	15377.3041	IS*	
1	6500.018	4	28951.847-22451.834	5		.	.	5.0-	5.0	.	.	.	1.290	0.000*	0	150	151	15380.3701		
1	6498.758	4	19594.767-26093.563	2		.	.	0.0-	1.0	.	.	.	0.000-0.082		0	157	157	15383.2574		
	6497.396	2				.	.	.	.	.	.	.	.	.	.	.	.	15386.5768	
	6496.899	2				.	.	.	.	.	.	.	.	.	.	.	.	15387.7538	
1	6496.594	2	28906.355-22409.753	-8		.	.	3.0-	2.0	.	.	.	1.230	1.413	183		281	15388.4763		
	6495.644	2				.	.	.	.	.	.	.	.	.	.	.	.	15390.7269	
1	6495.557	2	26149.538-32645.106	-1		.	.	4.0-	5.0	.	.	.	1.360	1.135*	225	-020	-16	15390.9093	IS*	
1	6495.398	2	19865.603-26360.997	4		.	.	4.0-	5.0	.	.	.	1.100	0.796	304	-232	-238	15391.3097		
1	6494.864	1	21337.573-27832.430	7		.	.	4.0-	4.0	.	.	.	1.137	0.920	217		-28	15392.5752		
1	6494.815	2	32263.305-38758.100	20		.	.	4.0-	5.0	.	.	.	1.158	1.530	372		-44	15392.6913	C2	
1	6494.815	2	31540.149-32034.960	4		.	.	7.0-	6.0	.	.	.	1.205	1.140	65		-103	15392.6913	C2	
1	6493.055	2	23578.836-30071.890	1		.	.	5.0-	5.0	.	.	.	1.120	1.290*	170	-107	-106	15396.8637		
1	6492.222	4	12159.465-18652.287	0		.	.	4.0-	3.0	.	.	.	0.844	0.822	22	-138	-138	15397.4162		
1	6492.343	2	26894.711-20402.369	1		.	.	3.0-	3.0	.	.	.	1.465	1.265*	200		-64	15398.5522		
1	6489.412	2	30899.721-37339.145	-12		.	.	5.0-	6.0	.	.	.	1.090	1.085*	5		-28	15405.5071		
1	6489.196	2	26811.368-20322.165	-7		.	.	7.0-	6.0	.	.	.	1.180	1.360*	180	252	252	15406.0199	IS*	
	6488.249	2				.	.	.	.	.	.	.	.	.	.	.	.	15408.2685	
	6487.908	2				.	.	.	.	.	.	.	.	.	.	.	.	15409.0783	
	6487.732	2				.	.	.	.	.	.	.	.	.	.	.	.	15409.4964	
1	6487.520	2	30503.896-24016.378	2		.	.	5.0-	5.0	.	.	.	0.000	1.560*	0	144	147	15409.9999		
	6486.460	2				.	.	.	.	.	.	.	.	.	.	.	.	15412.5182	
	6486.199	2				.	.	.	.	.	.	.	.	.	.	.	.	15413.1384	
	6485.593	2				.	.	.	.	.	.	.	.	.	.	.	.	15414.5785	
1	6485.331	4	19865.603-26350.982	2		.	.	4.0-	4.0	.	.	.	1.100	0.796	304	-137	-138	15415.0824		
1	6484.731	2	25828.024-19343.298	5		.	.	4.0-	3.0	.	.	.	1.310	1.135*	175	120	120	15416.6276	IS*	
1	6484.364	2	22719.949-29204.308	5		.	.	4.0-	5.0	.	.	.	1.070	0.896	174	+	18	15417.5001		
	6484.074	2				.	.	.	.	.	.	.	.	.	.	.	.	15418.1897	
	6483.882	2				.	.	.	.	.	.	.	.	.	.	.	.	15418.6462	
	6483.023	1				.	.	.	.	.	.	.	.	.	.	.	.	15420.6892	
	6482.927	2				.	.	.	.	.	.	.	.	.	.	.	.	15420.9176	
1	6482.700	2	21812.682-23295.330	2		.	.	4.0-	4.0	.	.	.	1.040	1.155	115	-006	-11	15421.4575	IS*	
1	6482.055	6	29617.177-23135.120	-2		.	.	7.0-	8.0	.	.	.	1.380	0.000*	0	095	96	15422.9921		
	6481.695	1				.	.	.	.	.	.	.	.	.	.	.	.	15423.8487	
	6481.636	2				.	.	.	.	.	.	.	.	.	.	.	.	15423.9891	
	6481.012	2				.	.	.	.	.	.	.	.	.	.	.	.	15425.4741	
1	6480.816	2	23735.353-30216.163	6		.	.	2.0-	2.0	.	.	.	0.935	1.143*	208	28	26	15425.9406	IS*	
1	6479.155	2	26258.661-19779.507	1		.	.	3.0-	4.0	.	.	.	0.965	0.000*	0	219	221	15429.8952		
	6477.827	2				-150		15433.0585	
1	6476.890	2	28241.585-21764.690	-5		.	.	5.0-	5.0	.	.	.	1.180	0.000*	0	207	207	15435.2912		

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	6476.545	2	26294.711	-	33371.251	5	.	.	3.0-	3.0	.	.	.	1.465	1.113	352	.	0	15436.1134	
	6476.395	2					.	.			.	.	.						15436.4709	
	6475.472	1					.	.			.	.	.						15438.6712	
1	6474.610	2	25591.845	-	32066.452	3	.	.	3.0-	2.0	.	.	.	0.990	0.910*	80	-	-42	15440.7266	
1	6474.089	2	22219.737	-	15745.648	0	.	.	4.0-	3.0	.	.	.	0.750	1.145	395	165	165	15441.9692	
1	6472.816	2	27301.283	-	20328.475	3	.	.	4.0-	4.0	.	.	.	0.985	0.352	633	4	5	15445.0062	IS*
1	6471.554	2	25228.024	-	32259.581	-3	.	.	4.0-	5.0	.	.	.	1.310	0.000*	0	.	45	15443.0181	
1	6469.233	2	23735.353	-	30204.635	1	.	.	2.0-	1.0	.	.	.	0.935	0.590*	345	36	39	15453.4410	IS*
1	6468.192	2	26250.080	-	32718.268	4	.	.	1.0-	1.0	.	.	.	1.290	0.600*	690	16	18	15456.0475	IS*
	6467.469	2					.	.			.	.	.						15457.7754	
1	6466.970	2	27257.860	-	33724.837	-7	.	.	2.0-	3.0	.	.	.	1.190	1.160	30	-106	-115	15458.9681	
1	6466.757	2	28023.294	-	21536.538	1	.	.	4.0-	4.0	.	.	.	1.240	1.290*	50	243	243	15459.4773	
1	6466.026	2	23550.352	-	30016.377	1	.	.	3.0-	2.0	.	.	.	1.090	1.140*	50	-080	-82	15461.2250	
	6461.405	2					.	.			.	.	.						15472.2825	
	6460.671	2					.	.			.	.	.						15474.0403	
1	6460.109	6	15249.635	-	21709.745	-1	.	.	2.0-	3.0	.	.	.	0.715	0.980	265	20	22	15475.3864	
	6459.704	2					.	.			.	.	.						15476.3567	
	6458.805	1					.	.			.	.	.						15478.5108	
1	6455.376	4	27196.404	-	20741.029	1	.	.	3.0-	2.0	.	.	.	1.282	0.000*	0	253	254	15486.7328	
1	6454.660	2	22518.312	-	23972.971	1	.	.	2.0-	2.0	.	.	.	1.350	0.794	556	32	34	15488.4507	
1	6451.787	2	29310.974	-	23359.187	0	.	.	3.0-	3.0	.	.	.	1.184	1.030*	154	97	98	15495.3478	
1	6449.833	5	22038.306	-	28538.138	1	.	.	6.0-	7.0	.	.	.	1.060	1.060	0	42	43	15500.0422	
	6449.631	2					.	.			.	.	.						15500.5276	
1	6449.316	2	12177.963	-	12627.281	-2	.	.	1.0-	1.0	.	.	.	0.525	0.000*	0	-413	-417	15501.2847	
1	6444.806	2	16734.151	-	23178.955	2	.	.	2.0-	1.0	.	.	.	0.928	1.130*	202	-405	-405	15512.1323	
1	6440.178	3	23763.470	-	17323.291	-1	.	.	4.0-	4.0	.	.	.	0.970	1.250*	280	253	254	15523.2796	
1	6440.001	3	23720.664	-	30160.664	1	.	.	3.0-	4.0	.	.	.	0.790	1.030*	240	060	57	15523.7062	
1	6436.382	5	22182.030	-	15745.648	0	.	.	2.0-	3.0	.	.	.	1.295	1.145	150	083	88	15532.4348	
1	6435.721	3	22181.368	-	15745.648	1	.	.	3.0-	3.0	.	.	.	0.780	1.145*	365	187	190	15534.0301	
1	6433.902	2	22705.153	-	29139.061	-1	.	.	1.0-	2.0	.	.	.	-0.020	0.000*	0	-163	-172	15538.4219	
1	6432.037	1	24347.551	-	30779.505	3	.	.	3.0-	3.0	.	.	.	1.300	0.860*	440	.	33	15542.9273	
1	6429.727	4	23766.136	-	17336.413	4	.	.	1.0-	0.0	.	.	.	2.162	0.000	0	042	53	15548.5114	
1	6427.566	5	20769.512	-	14341.947	1	.	.	2.0-	2.0	.	.	.	1.070	0.852*	218	117	117	15553.7390	
1	6427.392	3	27415.500	-	20938.110	2	.	.	5.0-	4.0	.	.	.	1.370	1.374*	4	.	110	15554.1601	
1	6424.701	2	19265.603	-	26230.302	2	.	.	4.0-	5.0	.	.	.	1.100	1.125	25	-367	-364	15560.6750	
1	6422.455	3	23895.741	-	30318.195	1	.	.	2.0-	2.0	.	.	.	-0.100	0.940*	1040	16	20	15566.1167	IS*
1	6422.243	3	20521.579	-	26943.829	-2	.	.	6.0-	5.0	.	.	.	1.246	1.220	26	-238	-239	15566.6184	
1	6421.403	2H	13517.647	-	19939.052	-2	.	.	2.0-	3.0	.	.	.	0.892	0.000*	0	-399	-399	15568.6668	
1	6420.807	6	28156.938	-	21736.133	2	.	.	6.0-	7.0	.	.	.	1.335	0.000*	0	123	123	15570.1120	
1	6419.639	1	32954.929	-	39374.580	-12	.	.	3.0-	3.0	.	.	.	1.105	0.885	220	.	.	15572.9448	CQ
	6419.440	1					.	.			.	.	.				000		15573.4276	
1	6416.736	2	28263.619	-	22451.834	1	.	.	5.0-	5.0	.	.	.	1.085	0.000*	0	215	214	15579.8688	
	6413.678	1					.	.			.	.	.						15587.4187	
1	6413.283	2	23720.664	-	30133.953	-1	.	.	3.0-	3.0	.	.	.	0.790	1.200*	410	-032	-31	15588.3666	
1	6412.154	1	24183.639	-	17776.483	-2	.	.	1.0-	2.0	.	.	.	0.667	0.565	102	.	-97	15591.1234	
1	6409.237	2	20597.436	-	27136.673	0	.	.	7.0-	6.0	.	.	.	1.250	1.040	210	-117	-117	15598.2193	
1	6407.784	1	23705.495	-	30113.280	-1	.	.	7.0-	6.0	.	.	.	1.277	1.050	227	.	-129	15601.7563	
	6407.653	2					.	.			.	.	.						15602.0752	
1	6404.553	4	22429.984	-	20834.535	2	.	.	4.0-	5.0	.	.	.	1.279	0.978	301	071	68	15609.6271	
	6403.331	1H					.	.			.	.	.						15612.4598	
1	6400.933	2	21031.253	-	27432.195	1	.	.	2.0-	1.0	.	.	.	1.455	1.130*	325	-032	-36	15618.4429	
2	6399.742	2	15641.100	-	9242.356	-2	.	.	3.5-	3.5	.	.	.	1.040	1.369*	329	190	189	15623.8030	
1	6397.376	4	23720.664	-	17323.291	3	.	.	3.0-	4.0	.	.	.	0.790	1.250*	460	160	160	15627.1391	
1	6397.200	2	23578.836	-	29976.039	-3	.	.	5.0-	4.0	.	.	.	1.120	1.070*	50	-032	27	15627.5690	
1	6396.760	1	28106.505	-	21709.745	0	.	.	3.0-	3.0	.	.	.	1.190	0.980*	210	-209	-204	15628.6440	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	6396.269	3	12322.613-18718.882			0	. . .	2.0- 2.0	.	.	.	1.036	0.504	532	-028	-26	15629.8437	IS*
1	6395.559	3	22571.890-16276.332			1	. . .	1.0- 2.0	.	.	.	0.599	1.880*	1281	322	322	15631.5788	
1	6394.675	2	20425.711-26520.380			6	. . .	1.0- 2.0	.	.	.	1.340	1.160	130		-33	15633.7397	
1	6393.459	4	24158.741-17765.281			-1	. . .	2.0- 3.0	.	.	.	1.240	1.680*	440	099	100	15636.7132	
1	6392.702	2	21350.311-27743.009			4	. . .	2.0- 2.0	.	.	.	0.350	0.568*	218		58	15638.5648	
	6392.024	2							.	.	.						15640.0768	
1	6391.227	2	21337.573-27728.796			4	. . .	4.0- 3.0	.	.	.	1.137	1.060	77	-069	-68	15642.1740	
1	6390.443	3	22666.777-16276.332			-2	. . .	3.0- 2.0	.	.	.	0.977	1.880*	903	360	360	15644.0930	
1	6389.087	1	23281.721-29659.807			1	. . .	5.0- 6.0	.	.	.	1.235	1.150	85	42	45	15649.8627	
2	6387.406	1	23426.895-17039.487			-2	. . .	2.5- 1.5	.	.	.	1.340	1.354	14	126	379	15651.5313	ISQ
1	6387.159	2	25064.653-31451.814			-2	. . .	3.0- 4.0	.	.	.	0.980	1.080	100	106	111	15652.1365	
1	6384.659	1	19594.767-25979.424			2	. . .	0.0- 1.0	.	.	.	0.000	1.260	0		35	15658.2653	
1	6384.195	1	31151.870-24767.674			-1	. . .	2.0- 2.0	.	.	.	1.632	1.455	177	97	95	15659.4034	
	6379.452	2							.	.	.						15671.0459	
1	6378.485	2H	21350.311-27728.796			1	. . .	2.0- 3.0	.	.	.	0.350	1.060*	710		-37	15673.4192	
	6378.341	1							.	.	.						15673.7755	
1	6377.358	2	14025.007-20402.369			-4	. . .	4.0- 3.0	.	.	.	0.975	1.265*	290	-147	-145	15676.1914	
	6376.835	3							.	.	.					010	15677.4771	
1	6376.363	2	22671.890-29048.255			-2	. . .	1.0- 1.0	.	.	.	0.599	0.900	301	-181	-181	15678.6376	
2	6375.178	2	23538.650-17163.470			-2	. . .	3.5- 4.5	.	.	.	1.470	1.200*	270	456	456	15681.5519	
	6374.277	2							.	.	.						15683.7685	
1	6373.916	6	26696.083-20322.165			-2	. . .	5.0- 6.0	.	.	.	1.315	1.360*	45	113	113	15684.6568	
1	6371.551	2	23550.352-29921.899			4	. . .	3.0- 2.0	.	.	.	1.090	1.070*	20	-032	-34	15690.4787	IS*
1	6370.951	1	25100.598-31471.542			7	. . .	2.0- 1.0	.	.	.	1.430	2.188	758	138	138	15691.9564	
1	6369.604	2	25706.036-19337.431			-1	. . .	2.0- 1.0	.	.	.	1.290	2.410*	1120	149	153	15697.7393	
1	6367.637	3H	21603.247-27970.881			3	. . .	2.0- 2.0	.	.	.	0.060	0.194*	134		-63	15700.1231	C2
1	6367.637	3H	29341.761-22974.132			8	. . .	2.0- 3.0	.	.	.	1.184	1.147	37		-46	15700.1231	C2
1	6366.512	4	20709.458-14341.947			1	. . .	3.0- 2.0	.	.	.	1.240	0.852	388	176	173	15700.4314	
	6366.645	2							.	.	.					-093	15702.5694	
1	6366.572	1	32073.180-25706.606			-2	. . .	7.0- 7.0	.	.	.	0.000	0.000*	0		134	15702.7495	
1	6364.022	2	24903.894-31267.919			-3	. . .	3.0- 3.0	.	.	.	0.915	1.080	165		-43	15709.0414	
1	6362.504	1	26606.405-32968.906			3	. . .	5.0- 4.0	.	.	.	1.130	1.115*	15	+	4	15712.7894	
1	6360.818	5	12177.953-18538.782			-1	. . .	1.0- 2.0	.	.	.	0.525	1.600	1075	-363	-363	15716.9542	
1	6358.846	4	30375.227-24016.378			-3	. . .	6.0- 5.0	.	.	.	1.320	1.560*	240	099	102	15721.8283	
1	6357.475	2	26824.706-31182.179			2	. . .	4.0- 4.0	.	.	.	1.145	1.210*	65	-204	-207	15725.2188	
1	6355.525	2	23281.721-29637.242			4	. . .	5.0- 6.0	.	.	.	1.235	1.020	215	+	5	15730.0436	
1	6352.704	2	25209.162-18356.461			3	. . .	5.0- 5.0	.	.	.	1.140	1.325*	185	360	361	15737.0287	
1	6352.349	2	20521.579-26873.930			-2	. . .	6.0- 6.0	.	.	.	1.246	1.125	121	-051	-51	15737.9082	
1	6351.766	1	25100.598-31452.362			2	. . .	2.0- 1.0	.	.	.	1.430	0.852	578	166	167	15739.3527	
1	6349.577	3	20457.704-25307.278			3	. . .	0.0- 1.0	.	.	.	0.000	0.550	0	-117	-118	15744.7788	
1	6348.578	2	25064.653-31413.230			1	. . .	3.0- 3.0	.	.	.	0.980	0.742	238	115	118	15747.2564	
	6346.984	3							.	.	.					-301	15751.2112	
1	6345.235	2	29356.804-23011.570			2	. . .	5.0- 4.0	.	.	.	1.190	0.000*	0	312	309	15755.5504	
1	6343.025	1	27415.500-33758.523			2	. . .	5.0- 5.0	.	.	.	1.370	0.830*	540	47	52	15761.0423	
1	6341.931	2	26664.150-20322.165			-4	. . .	6.0- 6.0	.	.	.	1.135	1.360*	225	197	199	15763.6369	
	6340.935	1							.	.	.						15766.2372	
2	6340.053	2	21928.590-15488.530			-2	. . .	2.5- 3.5	.	.	.	0.990	1.057*	67	630	630	15768.4181	
1	6335.771	5	25192.231-18856.461			1	. . .	4.0- 5.0	.	.	.	1.768	1.325	443	8	10	15779.0876	IS*
	6335.612	1							.	.	.					-130	15779.4836	
1	6335.131	1	25541.775-31876.909			-3	. . .	3.0- 2.0	.	.	.	0.915	0.000*	0	-113	-115	15780.6817	
1	6334.252	3	21263.339-27597.590			1	. . .	5.0- 4.0	.	.	.	0.610	0.930*	320	175	173	15782.8716	
	6327.484	2							.	.	.					+	15799.7532	
1	6327.375	2	26317.729-32645.106			-2	. . .	4.0- 5.0	.	.	.	1.180	1.135*	45	010	3	15800.0254	
1	6325.892	2	24091.173-17765.281			0	. . .	3.0- 3.0	.	.	.	1.245	1.680*	435	107	107	15803.7295	
	6325.426	2							.	.	.					-047	15804.8938	

C	WAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6322.951	3	24455.635	-30779.535	1	.	.	3.0	-3.0	.	.	.	1.000	0.860*	140	+	2	15811.0303	
2	6321.028	2	26643.435	-23322.349	2	.	.	5.5	-6.5	.	.	.	1.420	1.314*	106	439	439	15815.7403	
1	6320.974	3	20990.684	-27311.653	0	.	.	5.0	-5.0	.	.	.	1.308	1.035	273	-071	-72	15816.0255	
1	6319.165	3	18502.505	-24921.671	-1	.	.	6.0	-5.0	.	.	.	0.910	1.034	124	123	125	15820.5532	
1	6317.532	5	20343.465	-26360.997	0	.	.	5.0	-5.0	.	.	.	0.925	0.796	129	+	-9	15824.6426	
1	6315.584	2	22181.358	-28495.950	2	.	.	3.0	-4.0	.	.	.	0.780	0.810*	30	+	13	15829.5236	
1	6312.767	4	20654.712	-14341.947	2	.	.	1.0	-2.0	.	.	.	0.200	0.852	652	142	140	15836.5874	
1	6312.541	3	25064.653	-31377.193	1	.	.	3.0	-4.0	.	.	.	0.980	0.973	7	52	54	15837.1543	IS*
1	6312.038	2	24149.351	-30451.399	0	.	.	5.0	-5.0	.	.	.	1.262	0.990	272	-012	-11	15838.4164	IS*
1	6307.815	1	21420.983	-27728.796	2	.	.	3.0	-3.0	.	.	.	1.663	1.060	603	.	78	15849.0200	
1	6307.283	2	18181.495	-24488.767	1	.	.	0.0	-1.0	.	.	.	0.000	0.000*	0	.	-322	15850.3568	
1	6305.404	2	17500.977	-23506.381	0	.	.	1.0	-1.0	.	.	.	2.258	0.094	2164	8	10	15855.0802	IS*
1	6303.175	3	22429.984	-28733.159	0	.	.	4.0	-4.0	.	.	.	1.279	1.035	244	120	119	15860.6871	
1	6302.608	1	25074.525	-31377.193	0	.	.	4.0	-4.0	.	.	.	1.507	0.973	534	138	138	15862.1140	
1	6301.303	1	24903.894	-31205.200	-3	.	.	3.0	-2.0	.	.	.	0.915	1.090*	175	-091	-87	15865.3990	
1	6301.080	2	22671.890	-23972.971	-1	.	.	1.0	-2.0	.	.	.	0.599	0.794	195	.	-119	15865.9605	
1	6300.544	5	23035.676	-21736.133	1	.	.	6.0	-7.0	.	.	.	1.216	0.000*	0	206	206	15867.3102	
1	6299.153	3	23314.130	-30113.280	3	.	.	6.0	-6.0	.	.	.	0.890	1.050	160	125	125	15870.8141	
1	6297.543	1	26885.398	-33182.933	-2	.	.	5.0	-6.0	.	.	.	1.055	1.050	5	101	101	15874.8716	
1	6295.963	2	29914.927	-23518.964	0	.	.	3.0	-3.0	.	.	.	1.194	0.000*	0	296	296	15878.8555	
1	6295.049	4	16834.379	-23129.429	-1	.	.	5.0	-5.0	.	.	.	0.961	1.168	207	-344	-343	15881.1610	
1	6293.123	2	28348.462	-22055.339	0	.	.	4.0	-3.0	.	.	.	0.000	0.000*	0	178	179	15886.0214	
1	6290.939	3	17911.977	-24202.966	0	.	.	5.0	-5.0	.	.	.	1.145	1.012	133	-	-6	15891.4102	
1	6289.610	2	10426.922	-16776.530	2	.	.	1.0	-1.0	.	.	.	0.355	0.000*	0	-395	-395	15894.8944	ISQ
1	6289.532	2	22719.949	-29009.483	-2	.	.	4.0	-4.0	.	.	.	1.070	0.695	375	+	59	15895.0915	
1	6285.310	2	26894.711	-33180.043	-22	.	.	3.0	-2.0	.	.	.	1.465	1.790*	325	015	-6	15905.7686	SIGMA*
1	6284.643	2	27257.860	-33542.506	-3	.	.	2.0	-2.0	.	.	.	1.190	1.123	67	-135	-113	15907.4567	ISQ
1	6284.237	2	26606.405	-20322.165	-3	.	.	5.0	-6.0	.	.	.	1.130	1.360*	230	161	188	15908.4845	IS*
1	6283.744	3	29295.313	-23011.570	1	.	.	4.0	-4.0	.	.	.	1.270	0.000*	0	207	211	15909.7326	
1	6282.157	2	24091.173	-30373.329	1	.	.	3.0	-4.0	.	.	.	1.245	1.345	100	-	-15	15913.7517	
1	6281.952	3	26150.730	-32432.680	2	.	.	8.0	-7.0	.	.	.	0.000	1.140*	0	+	13	15914.2710	
1	6281.552	2	28832.853	-22551.302	1	.	.	2.0	-3.0	.	.	.	0.000	0.000*	0	200	201	15915.2844	
1	6280.647	3	24091.173	-30371.819	1	.	.	3.0	-3.0	.	.	.	1.245	0.640	605	8	8	15917.5777	IS*
1	6280.047	3	25617.477	-19337.431	1	.	.	2.0	-1.0	.	.	.	1.360	2.410*	1050	119	122	15919.0985	
1	6279.534	3	21263.339	-27542.874	-1	.	.	5.0	-5.0	.	.	.	0.610	1.270*	660	000	0	15920.3990	
1	6277.215	4	22219.737	-28496.950	2	.	.	4.0	-4.0	.	.	.	0.750	0.810	60	36	38	15926.2805	IS*
1	6273.761	2	28467.436	-34741.198	-1	.	.	5.0	-5.0	.	.	.	1.210	1.070*	140	34	44	15935.0487	
1	6272.790	1	24742.092	-31014.877	5	.	.	4.0	-4.0	.	.	.	0.980	1.170*	190	49	52	15937.5154	
1	6271.079	1	26301.732	-32572.811	0	.	.	5.0	-5.0	.	.	.	1.060	1.010*	50	-061	-60	15941.8537	
1	6270.452	3	24188.639	-30459.091	0	.	.	1.0	-2.0	.	.	.	0.657	1.255	588	.	-45	15943.4578	
1	6270.295	2	20385.328	-26655.622	1	.	.	2.0	-3.0	.	.	.	1.911	1.015	896	.	76	15943.8570	
1	6268.975	3	23814.130	-30083.102	3	.	.	6.0	-5.0	.	.	.	0.890	1.150*	260	32	30	15947.2142	IS*
1	6268.851	2	21703.960	-27972.815	-4	.	.	5.0	-4.0	.	.	.	1.120	0.979	141	-068	-65	15947.5296	
1	6267.812	2	22705.158	-28972.971	-1	.	.	1.0	-2.0	.	.	.	-0.020	0.794*	814	-	-11	15950.1732	
1	6264.537	2	27755.977	-21491.439	-1	.	.	3.0	-3.0	.	.	.	1.370	0.000*	0	108	111	15958.5117	
1	6262.762	2	26606.405	-32869.165	2	.	.	5.0	-5.0	.	.	.	1.130	0.916*	214	-044	-44	15963.0347	
1	6260.903	2	23937.432	-16776.530	1	.	.	1.0	-1.0	.	.	.	0.870	0.000*	0	393	394	15967.7745	
1	6259.333	3	24733.061	-30992.449	0	.	.	7.0	-7.0	.	.	.	1.275	1.210*	65	-157	-158	15971.6393	
1	6258.602	3	28023.294	-21764.690	-2	.	.	4.0	-5.0	.	.	.	1.240	0.000*	0	222	222	15973.6451	
1	6257.761	2	23314.130	-30071.890	1	.	.	6.0	-5.0	.	.	.	0.890	1.290*	400	-060	-60	15975.7919	
1	6257.284	4	25113.744	-18856.461	1	.	.	6.0	-5.0	.	.	.	1.302	1.325	23	175	175	15977.0097	
1	6256.942	2	28021.637	-21764.690	-5	.	.	5.0	-5.0	.	.	.	1.400	0.000*	0	141	141	15977.8830	
1	6256.661	2	25371.962	-31628.619	4	.	.	6.0	-6.0	.	.	.	1.165	1.110	55	78	77	15978.6006	
1	6255.373	3	23720.664	-29976.039	-2	.	.	3.0	-4.0	.	.	.	0.790	1.070*	280	071	69	15981.8906	
2	6254.889	1	22541.470	-16236.532	1	.	.	1.5	-0.5	.	.	.	0.420	-0.122*	542	415	419	15983.1273	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6253.167	1	26575.338-20322.165	-6	.	.	.	7.0-	6.0	.	.	.	.	.	1.150	1.360*	210	271	272	15987.5288	
1	6251.299	2	21307.390-27558.688	1	.	.	.	1.0-	0.0	.	.	.	.	.	2.360	0.000*	0	16	15	15992.3061	IS*
	6250.851	2			.	.	.			.	.	.	.	.				090		15993.4523	
1	6250.351	1	14025.007- 7774.653	-3	.	.	.	4.0-	4.0	.	.	.	.	.	0.975	1.463	488	190	185	15994.7317	
1	6249.259	2	18672.411-24921.671	-1	.	.	.	6.0-	5.0	.	.	.	.	.	1.190	1.034*	156	-106	-106	15997.5266	
1	6248.555	1	25591.845-19343.298	8	.	.	.	3.0-	3.0	.	.	.	.	.	0.990	1.135*	145	209	205	15999.3290	IS*
1	6247.751	1	24149.351-30397.106	6	.	.	.	5.0-	5.0	.	.	.	.	.	1.262	1.005	257	082	74	16001.3879	
1	6246.837	3	20043.465-26290.302	0	.	.	.	5.0-	5.0	.	.	.	.	.	0.925	1.125	200	-134	-135	16003.7292	
	6246.108	1			.	.	.			.	.	.	.	.						16005.5970	
1	6246.074	4	30262.453-24016.378	-1	.	.	.	6.0-	5.0	.	.	.	.	.	1.284	1.560	276	135	135	16005.6841	
1	6245.703	2	24149.361-30395.052	2	.	.	.	5.0-	4.0	.	.	.	.	.	1.262	0.920	342	-003	-3	16006.6349	IS*
1	6241.980	5	22518.312-16276.332	0	.	.	.	2.0-	2.0	.	.	.	.	.	1.350	1.880*	530	168	169	16016.1820	
1	6241.802	3	15249.635-21491.439	-2	.	.	.	2.0-	3.0	.	.	.	.	.	0.715	0.000*	0	-391	-391	16016.6387	
1	6241.704	4	18046.103-24287.814	-2	.	.	.	4.0-	3.0	.	.	.	.	.	0.694	0.585	109	051	54	16016.8902	
1	6239.270	3	27975.402-21736.133	1	.	.	.	7.0-	7.0	.	.	.	.	.	1.017	0.000*	0	157	159	16023.1385	
	6233.279	2			.	.	.			.	.	.	.	.				107		16025.6839	
	6237.354	1			.	.	.			.	.	.	.	.				298		16028.0606	
1	6235.930	1	18346.917-24582.849	-2	.	.	.	2.0-	2.0	.	.	.	.	.	1.518	0.640	878	73	68	16031.7206	
1	6235.411	1	21737.407-27972.815	3	.	.	.	3.0-	4.0	.	.	.	.	.	1.026	0.979	47	162	162	16033.0550	
1	6234.290	1	24090.570-30324.858	2	.	.	.	7.0-	7.0	.	.	.	.	.	1.130	1.170*	40	93	94	16035.9380	
2	6232.935	2	23272.420-17039.487	2	.	.	.	2.5-	1.5	.	.	.	.	.	0.951	1.354	403	312	315	16039.4241	
1	6232.751	1	21337.573-27570.322	2	.	.	.	4.0-	3.0	.	.	.	.	.	1.137	1.265	128	-283	-288	16039.8976	
1	6229.977	2	24437.792-30667.769	0	.	.	.	4.0-	4.0	.	.	.	.	.	1.500	1.265*	235	-202	-204	16047.0396	
1	6229.493	2	26009.000-19779.507	0	.	.	.	3.0-	4.0	.	.	.	.	.	0.870	0.000*	0		164	16048.2864	
1	6229.241	3	19203.415-25432.655	1	.	.	.	2.0-	2.0	.	.	.	.	.	1.021	1.281	260	+	51	16048.9356	
1	6229.073	2	20877.600-27106.673	0	.	.	.	7.0-	6.0	.	.	.	.	.	1.060	1.040*	20		108	16049.3685	
1	6228.579	2	19426.512-25655.090	1	.	.	.	3.0-	4.0	.	.	.	.	.	1.435	1.165	270	-182	-184	16050.6414	
1	6228.313	3	27215.453-20988.110	0	.	.	.	5.0-	4.0	.	.	.	.	.	1.180	1.374*	194	328	332	16051.2367	
1	6227.876	2	21515.136-27743.009	3	.	.	.	1.0-	2.0	.	.	.	.	.	1.180	0.568*	612		47	16052.4532	
1	6227.061	6	23550.352-17323.291	0	.	.	.	3.0-	4.0	.	.	.	.	.	1.090	1.250*	160	154	155	16054.5541	
1	6218.129	7	25074.585-18356.461	5	.	.	.	4.0-	5.0	.	.	.	.	.	1.507	1.325	182	061	61	16077.6156	
	6216.952	1			.	.	.			.	.	.	.	.						16080.6595	
1	6216.845	2	26894.711-33111.557	-1	.	.	.	3.0-	2.0	.	.	.	.	.	1.465	1.315	150		18	16080.9362	
1	6216.168	1	12322.613-18538.782	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.036	1.600	564	-368	-367	16082.6876	
1	6212.655	2	24751.439-18538.782	-2	.	.	.	1.0-	2.0	.	.	.	.	.	0.647	1.600	953	178	182	16091.7817	
1	6212.571	3	23763.470-29976.039	2	.	.	.	4.0-	4.0	.	.	.	.	.	0.970	1.070*	100	-024	-25	16091.9993	IS*
1	6211.133	1	24455.635-30567.769	-1	.	.	.	3.0-	4.0	.	.	.	.	.	1.000	1.265*	265	-081	-88	16095.7249	IS*
1	6210.487	1	26149.538-19939.052	1	.	.	.	4.0-	3.0	.	.	.	.	.	1.360	0.000*	0	174	175	16097.3991	
1	6208.293	3	27196.404-20988.110	-1	.	.	.	3.0-	4.0	.	.	.	.	.	1.282	1.374	92	261	260	16103.0879	
	6206.589	2			.	.	.			.	.	.	.	.				386		16107.5090	
1	6206.376	2	22982.904-16776.530	2	.	.	.	2.0-	1.0	.	.	.	.	.	1.257	0.000*	0	340	342	16108.0618	
1	6206.295	1	26973.744-33180.043	-4	.	.	.	2.0-	2.0	.	.	.	.	.	1.210	1.790*	580		-55	16108.2720	
	6205.243	1			.	.	.			.	.	.	.	.				161		16111.0029	
	6204.312	1H			.	.	.			.	.	.	.	.						16113.4205	
1	6202.211	1	26374.994-32577.204	1	.	.	.	4.0-	4.0	.	.	.	.	.	0.000	0.980*	0	-061	-64	16118.8789	
1	6200.466	2	20769.512-26969.979	-1	.	.	.	2.0-	3.0	.	.	.	.	.	1.070	0.000*	0	-032	-87	16123.4153	
1	6199.933	2	26372.321-20572.390	2	.	.	.	1.0-	1.0	.	.	.	.	.	2.690	0.000*	0	163	162	16124.8014	
1	6199.540	2	22932.904-29182.445	-1	.	.	.	2.0-	1.0	.	.	.	.	.	1.257	0.000*	0		-123	16125.8236	
1	6199.438	3	27755.977-21555.538	-1	.	.	.	3.0-	4.0	.	.	.	.	.	1.370	1.290	80	137	135	16126.0889	
1	6198.617	3	28749.920-22551.302	-1	.	.	.	2.0-	3.0	.	.	.	.	.	1.480	0.000*	0	250	250	16128.2248	
1	6198.165	5	20540.110-14341.947	2	.	.	.	3.0-	2.0	.	.	.	.	.	0.830	0.852*	22	172	169	16129.4009	
1	6196.906	3	18963.921-25160.827	0	.	.	.	4.0-	3.0	.	.	.	.	.	1.251	0.800	451	-	-10	16132.6779	
1	6194.077	2	25516.261-20322.165	1	.	.	.	5.0-	6.0	.	.	.	.	.	1.200	1.360*	160	260	260	16139.9940	
1	6193.532	2	23766.136-17572.608	4	.	.	.	1.0-	2.0	.	.	.	.	.	2.162	0.555	1607	020	26	16141.4664	IS*
1	6190.899	3	17615.482-23806.381	0	.	.	.	2.0-	1.0	.	.	.	.	.	1.450	0.094	1356	-062	-63	16148.3314	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6139.005	4	18578.669	-24767.674	0	.	.	1.0-	2.0	.	.	.	1.932	1.455	477	-153	-147	16153.2732	
1	6128.773	2	30554.070	-24365.295	-2	.	.	4.0-	3.0	.	.	.	1.260	1.475*	215		234	16153.8787	CQ
1	6128.314	2	28482.680	-34670.995	-1	.	.	6.0-	5.0	.	.	.	1.180	1.010*	170		-13	16155.0769	
	6183.237	2																16155.2727	
1	6187.896	6	16834.379	-23022.274	1	.	.	5.0-	5.0	.	.	.	0.961	0.817	144	-201	-202	16156.1682	
1	6187.261	3	10486.922	-4299.659	-2	.	.	1.0-	2.0	.	.	.	0.355	1.482	1127	163	174	16157.8263	IS*
2	6185.871	3	28686.100	-22500.225	-4	.	.	5.5-	5.5	.	.	.	1.290	1.555*	265	383	372	16161.4571	
1	6135.433	2	25100.598	-31286.029	2	.	.	2.0-	2.0	.	.	.	1.430	1.280	150		155	16162.6015	
1	6133.152	2	25828.024	-32011.173	3	.	.	4.0-	3.0	.	.	.	1.310	1.140*	170		116	16168.5640	
1	6179.196	1	19426.512	-25505.707	1	.	.	3.0-	4.0	.	.	.	1.435	1.160	275	-073	-76	16178.9153	
	6177.072	2																16184.4785	
1	6176.757	2	22416.990	-28593.749	-2	.	.	2.0-	1.0	.	.	.	1.675	1.713	38		-128	16185.3038	
1	6176.496	3	20697.436	-26873.930	2	.	.	7.0-	6.0	.	.	.	1.250	1.125	125	-052	-51	16185.9878	
1	6173.518	1	23909.585	-30093.102	1	.	.	5.0-	5.0	.	.	.	1.242	1.150*	92	-099	-96	16193.7956	
1	6172.243	1	29307.360	-23135.120	3	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	153	150	16197.1408	
1	6170.789	2	28348.462	-34519.250	1	.	.	4.0-	5.0	.	.	.	0.000	1.170*	0		52	16200.9573	
1	6166.901	1	26105.952	-19939.052	1	.	.	2.0-	3.0	.	.	.	1.165	0.000*	0	296	295	16211.1714	
1	6165.884	2	29295.313	-23129.429	0	.	.	4.0-	5.0	.	.	.	1.270	1.168*	102	184	185	16213.8452	
1	6162.745	3	23735.353	-17572.608	0	.	.	2.0-	2.0	.	.	.	0.935	0.555*	380	127	129	16222.1038	
1	6159.745	2	27651.193	-21491.439	-9	.	.	2.0-	3.0	.	.	.	1.570	0.000*	0	159	161	16230.0045	HVLQ
1	6157.335	2	26283.495	-32440.827	3	.	.	7.0-	6.0	.	.	.	1.080	1.120*	40	+	13	16236.3570	
1	6156.858	3	18046.108	-24202.966	0	.	.	4.0-	5.0	.	.	.	0.694	1.012	318	226	226	16237.6149	
1	6152.567	2	20554.712	-26807.278	1	.	.	1.0-	1.0	.	.	.	0.200	0.550	350	-143	-146	16248.9395	
1	6152.257	2	27643.693	-21491.439	3	.	.	4.0-	3.0	.	.	.	1.310	0.000*	0	119	116	16249.7583	
1	6149.267	1	27705.804	-21556.538	1	.	.	5.0-	4.0	.	.	.	1.160	1.290*	130	254	250	16257.6595	
1	6149.186	3	26283.495	-32432.680	1	.	.	7.0-	7.0	.	.	.	1.080	1.140	60	083	83	16257.8737	
1	6148.058	2	23720.664	-17572.608	2	.	.	3.0-	2.0	.	.	.	0.790	0.555*	235	136	136	16260.8566	
1	6147.575	2	16304.260	-22451.834	1	.	.	4.0-	5.0	.	.	.	1.285	0.000*	0	-404	-404	16262.1341	
1	6146.559	2	29299.312	-23152.755	1	.	.	1.0-	2.0	.	.	.	1.307	0.530	727	168	163	16264.8249	
2	6145.077	3	18152.580	-12007.503	0	.	.	0.5-	1.5	.	.	.	0.510	0.019*	491	449	449	16268.7448	
	6144.848	2																16269.3511	
1	6143.592	2	29617.177	-23473.585	0	.	.	7.0-	6.0	.	.	.	1.330	0.000*	0	99	99	16272.6772	
	6143.277	3H																16273.5116	
1	6143.253	3	28595.088	-22451.834	-1	.	.	6.0-	5.0	.	.	.	1.200	0.000*	0	121	120	16273.5752	
1	6143.019	2	20306.482	-26449.501	0	.	.	4.0-	3.0	.	.	.	1.123	0.940*	183	-266	-264	16274.1951	
1	6141.065	3	22219.737	-28360.802	0	.	.	4.0-	3.0	.	.	.	0.750	0.887	137	109	110	16279.3733	
1	6140.657	2	22416.990	-16276.332	-1	.	.	2.0-	2.0	.	.	.	1.675	1.880*	205	161	161	16280.4549	
1	6140.487	2H	25870.685	-32011.173	-1	.	.	2.0-	3.0	.	.	.	1.170	1.140*	30		66	16280.9056	
1	6140.258	2	20055.327	-26205.589	-4	.	.	3.0-	3.0	.	.	.	0.998	0.701	297	-199	-199	16281.5128	IS*
1	6139.845	1H	18147.975	-24287.814	6	.	.	3.0-	3.0	.	.	.	1.049	0.585	464	-173	-180	16282.6080	
1	6139.767	3	21603.247	-27743.009	5	.	.	2.0-	2.0	.	.	.	0.060	0.558*	508	121	120	16282.8149	
2	6137.015	2	19253.335	-13726.318	-2	.	.	2.5-	2.5	.	.	.	0.921	0.784	137	450	450	16290.1165	
1	6136.560	4	25916.069	-19779.507	-2	.	.	3.0-	4.0	.	.	.	1.350	0.000*	0	106	106	16291.3244	
1	6134.793	4	14853.317	-20988.110	0	.	.	4.0-	4.0	.	.	.	0.786	1.374	588	-329	-329	16296.0168	
1	6134.537	1	19959.027	-26093.563	1	.	.	1.0-	1.0	.	.	.	0.760	0.082*	842		164	16296.6968	
1	6133.991	2	25064.653	-31198.642	2	.	.	3.0-	3.0	.	.	.	0.980	1.070	90		130	16298.1474	
	6133.474	3																16299.5212	
1	6133.177	2	17045.776	-23178.955	-2	.	.	1.0-	1.0	.	.	.	1.474	1.130*	344	-146	-145	16300.3105	
1	6132.928	1	27869.060	-21736.133	1	.	.	7.0-	7.0	.	.	.	1.250	0.000*	0	152	152	16300.9723	
1	6132.151	3	15424.387	-21556.538	0	.	.	3.0-	4.0	.	.	.	1.106	1.290	184	-407	-408	16303.0378	
1	6130.748	3	31049.306	-24918.555	-3	.	.	7.0-	6.0	.	.	.	0.000	0.000*	0	196	195	16306.7687	
1	6129.562	2	24183.639	-30318.195	6	.	.	1.0-	2.0	.	.	.	0.667	0.940	273	32	31	16309.9239	
1	6128.469	3	21703.960	-27832.430	-1	.	.	5.0-	4.0	.	.	.	1.120	0.920	200	-072	-72	16312.8327	
1	6124.804	2	21307.390	-27432.195	-1	.	.	1.0-	1.0	.	.	.	2.360	1.130*	1230	-098	-99	16322.5941	
1	6124.057	2	25074.585	-31198.642	0	.	.	4.0-	3.0	.	.	.	1.507	1.070	437	213	214	16324.5851	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	6122.481	1	23763.470-29385.947	4	.	.	.	4.0-	3.0	.	.	.	.	.	0.970	1.330*	360	-224	-230	16328.7873	C2
1	6122.481	1	20984.195-27106.673	3	.	.	.	6.0-	6.0	.	.	.	.	.	1.319	1.040	279		-121	16328.7873	C2
1	6115.987	2	20990.684-27106.673	-2	.	.	.	5.0-	6.0	.	.	.	.	.	1.308	1.040	268	-109	-104	16346.1253	IS*
	6115.167	2			.	.	.			.	.	.	.	.						16348.3172	
1	6114.565	3	24653.345-18538.782	2	.	.	.	1.0-	2.0	.	.	.	.	.	0.860	1.600*	740	176	178	16349.9268	
1	6114.014	3	24970.474-18858.461	1	.	.	.	4.0-	5.0	.	.	.	.	.	1.460	1.325*	135	166	167	16351.4002	
1	6113.602	1	19959.027-26072.627	2	.	.	.	1.0-	2.0	.	.	.	.	.	0.760	1.500*	740	-053	-49	16352.5022	
1	6111.527	3	23416.666-17305.142	3	.	.	.	2.0-	2.0	.	.	.	.	.	1.320	0.000*	0	-008	-8	16358.0542	IS*
1	6107.471	2	26374.994-32482.465	0	.	.	.	4.0-	4.0	.	.	.	.	.	0.000	1.330*	0	-130	-129	16368.9177	
	6107.361	1			.	.	.			.	.	.	.	.						16369.2125	
1	6106.978	2	17045.776-23152.755	-1	.	.	.	1.0-	2.0	.	.	.	.	.	1.474	0.580	894	-137	-138	16370.2391	
1	6106.873	2	22219.737-28326.610	0	.	.	.	4.0-	4.0	.	.	.	.	.	0.750	1.260*	510	-087	-89	16370.5206	
1	6104.299	1	29233.723-23129.429	5	.	.	.	4.0-	5.0	.	.	.	.	.	1.260	1.168*	92	270	272	16377.4235	
	6103.905	2			.	.	.			.	.	.	.	.				15		16378.4807	IS*
1	6102.773	1	27361.817-33464.592	-2	.	.	.	3.0-	4.0	.	.	.	.	.	1.310	0.000*	0		-11	16381.5187	
1	6102.692	2	26301.732-32404.416	8	.	.	.	5.0-	5.0	.	.	.	.	.	1.060	1.055*	5		37	16381.7362	
1	6100.774	3	24012.505-30113.280	-1	.	.	.	6.0-	6.0	.	.	.	.	.	1.248	1.050	198	-028	-33	16386.8864	
	6100.267	2			.	.	.			.	.	.	.	.						16388.2483	
	6099.424	2			.	.	.			.	.	.	.	.				0		16390.5133	IS*
	6098.062	2			.	.	.			.	.	.	.	.				+		16394.1741	
1	6097.235	2	29108.865-23011.570	0	.	.	.	5.0-	4.0	.	.	.	.	.	1.210	0.000*	0	195	200	16396.2364	
1	6094.744	1	29568.328-23473.585	1	.	.	.	7.0-	6.0	.	.	.	.	.	0.000	0.000*	0	173	173	16403.0992	
1	6091.362	1	26341.320-32432.680	2*	.	.	.	8.0-	7.0	.	.	.	.	.	0.000	1.140*	0		-146	16412.2064	
1	6091.194	2	22671.890-28763.085	-1	.	.	.	1.0-	0.0	.	.	.	.	.	0.599	0.000	0	-162	-161	16412.6591	IS*
1	6090.686	3	14737.788-20823.475	-1	.	.	.	3.0-	4.0	.	.	.	.	.	0.815	0.352	463	-193	-192	16414.0280	
1	6090.423	2	23413.710-17323.291	4	.	.	.	4.0-	4.0	.	.	.	.	.	0.000	1.250*	0	294	290	16414.7368	
1	6090.340	1	19203.415-25293.751	4	.	.	.	2.0-	3.0	.	.	.	.	.	1.021	0.965	56	-342	-345	16414.9605	
	6087.687	1			.	.	.			.	.	.	.	.						16422.1141	
1	6087.156	3	27643.693-21556.538	1	.	.	.	4.0-	4.0	.	.	.	.	.	1.310	1.290*	20	140	140	16423.5466	
1	6086.538	2	19074.292-25160.827	3	.	.	.	2.0-	3.0	.	.	.	.	.	1.532	0.800	732	192	188	16425.2142	
	6084.942	2			.	.	.			.	.	.	.	.						16429.5223	
1	6083.764	7	20425.711-14341.947	0	.	.	.	1.0-	2.0	.	.	.	.	.	1.340	0.852	488	144	144	16432.7036	
	6083.236	2			.	.	.			.	.	.	.	.						16434.1299	
	6081.727	2			.	.	.			.	.	.	.	.				000		16438.2075	
1	6080.351	2	24381.050-30461.399	2	.	.	.	5.0-	5.0	.	.	.	.	.	1.450	0.990*	460	082	82	16441.9275	
	6079.849	2			.	.	.			.	.	.	.	.						16443.2851	
1	6079.644	2	26730.201-32809.844	1	.	.	.	3.0-	4.0	.	.	.	.	.	0.950	0.900	50		-11	16443.8396	
	6076.132	3			.	.	.			.	.	.	.	.						16453.3441	
1	6076.099	5	14912.011-20988.110	0	.	.	.	4.0-	4.0	.	.	.	.	.	0.496	1.374	878	-232	-232	16453.4335	
1	6075.647	2	22219.737-29295.380	4	.	.	.	4.0-	4.0	.	.	.	.	.	0.750	1.155	405	50	54	16454.6575	IS*
1	6073.900	5	29209.020-23135.120	0	.	.	.	7.0-	8.0	.	.	.	.	.	1.390	0.000*	0	099	100	16459.3903	
1	6072.380	1	19203.415-25275.795	0	.	.	.	2.0-	1.0	.	.	.	.	.	1.021	0.706	315	-005	-8	16463.5103	
1	6069.493	2	24091.173-30160.664	2	.	.	.	3.0-	4.0	.	.	.	.	.	1.245	1.030	215	115	114	16471.3413	
	6069.050	1			.	.	.			.	.	.	.	.				-071		16472.5436	
1	6067.808	3	18591.122-24653.931	-1	.	.	.	4.0-	4.0	.	.	.	.	.	0.965	1.080	115	-051	-51	16475.9153	
1	6067.037	3	21812.682-15745.648	3	.	.	.	4.0-	3.0	.	.	.	.	.	1.040	1.145	105	230	230	16478.0091	
1	6066.969	2	22429.984-28496.950	3	.	.	.	4.0-	4.0	.	.	.	.	.	1.279	0.810	469	24	26	16478.1938	IS*
1	6066.523	3	19534.767-13528.246	2	.	.	.	0.0-	1.0	.	.	.	.	.	0.000-0.590*	0	099	96	96	16479.4052	
1	6065.533	2	30327.960-35393.534	9*	.	.	.	10.0-	10.0	.	.	.	.	.	0.000	1.150*	0	5	8	16481.9591	IS*
1	6064.176	2	20385.328-26449.501	3	.	.	.	2.0-	3.0	.	.	.	.	.	1.911	0.940*	971		-17	16485.7832	
1	6064.059	2	29193.490-23129.429	-2	.	.	.	6.0-	5.0	.	.	.	.	.	1.240	1.168*	72	168	164	16486.1013	
2	6062.376	2	24823.940-18761.580	16	.	.	.	5.5-	5.5	.	.	.	.	.	0.000	1.296*	0	460	457	16490.6781	
1	6061.206	1	28470.960-22409.753	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.104	1.413	309	105	102	16493.8613	
1	6060.573	2	30549.406-36609.983	-4	.	.	.	8.0-	7.0	.	.	.	.	.	0.000	1.195*	0	5	6	16495.5840	IS*
1	6060.044	4	18578.669-24638.713	0	.	.	.	1.0-	2.0	.	.	.	.	.	1.932	0.000*	0	-153	-151	16497.0239	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	6057.927	2	22705.158-28763.085	0	.	.	.	1.0-	0.0	.	.	.	-0.020	0.000*	0	-053	-53	16502.7890	
1	6057.204	5	11840.715-17897.917	2	.	.	.	3.0-	3.0	.	.	.	0.811	0.450	361	32	40	16504.7588	IS*
	6055.404	2																16509.6649	
1	6048.514	4	25228.024-19779.507	-3	.	.	.	4.0-	4.0	.	.	.	1.310	0.000*	0	099	97	16528.4715	
1	6048.316	4	21263.339-27311.658	-3	.	.	.	5.0-	5.0	.	.	.	0.610	1.035*	425	176	194	16529.0126	IS*
1	6047.553	1	17081.874-23129.429	-2	.	.	.	4.0-	5.0	.	.	.	1.217	1.168	49	-361	-360	16531.0980	
1	6044.900	2	27781.032-21736.133	1	.	.	.	6.0-	7.0	.	.	.	1.250	0.000*	0	161	161	16538.3532	
1	6044.801	2	27536.236-21491.439	4	.	.	.	3.0-	3.0	.	.	.	1.355	0.000*	0	202	203	16538.6241	
1	6044.494	2	20306.482-26350.982	-6	.	.	.	4.0-	4.0	.	.	.	1.123	0.796	327	-132	-133	16539.4641	
1	6043.392	5	20385.328-14341.947	1	.	.	.	2.0-	2.0	.	.	.	1.911	0.852	1059	145	147	16542.5074	
1	6043.237	4	22518.312-28561.548	1	.	.	.	2.0-	2.0	.	.	.	1.350	0.784	566	70	69	16542.9043	IS*
1	6042.780	1	24091.173-30133.953	0	.	.	.	3.0-	3.0	.	.	.	1.245	1.200*	45	025	26	16544.1554	IS*
1	6034.934	2	23315.209-29350.139	4	.	.	.	2.0-	3.0	.	.	.	1.335	0.910	425	40	38	16565.6644	IS*
1	6031.600	2	18397.584-24929.184	0	.	.	.	5.0-	4.0	.	.	.	1.280	1.080	200	-158	-157	16574.8212	
1	6031.301	4	22307.633-16276.332	0	.	.	.	3.0-	2.0	.	.	.	1.434	1.880*	446	286	296	16575.6429	
1	6030.847	4	23422.680-22451.834	1	.	.	.	6.0-	5.0	.	.	.	1.180	0.000*	0	199	199	16576.8907	
1	6030.012	5	19553.257-13528.246	1	.	.	.	2.0-	1.0	.	.	.	-0.145	-0.590*	445	163	163	16579.1862	
	6027.787	2														0		16585.3059	IS*
1	6027.531	1	24188.639-30216.163	7	.	.	.	1.0-	2.0	.	.	.	0.667	1.143	476		38	16586.0104	
	6026.776	2																16588.0882	
1	6025.923	3	32266.529-26240.609	3	.	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	179	182	16590.4363	
1	6025.773	2	24347.551-30373.329	-5	.	.	.	3.0-	4.0	.	.	.	1.300	1.345*	45	-079	-89	16590.8493	
1	6022.713	3	24090.570-30113.280	3	.	.	.	7.0-	6.0	.	.	.	1.130	1.050	80	103	103	16599.2787	
1	6021.302	1	9724.351-15745.648	5	.	.	.	3.0-	3.0	.	.	.	0.442	1.145	703	-399	-398	16603.1685	
1	6019.195	1	16532.104-22551.302	-3	.	.	.	3.0-	3.0	.	.	.	0.300	0.000*	0	-196	-196	16608.9804	
1	6018.376	2	18346.917-24365.295	-2	.	.	.	2.0-	3.0	.	.	.	1.518	1.475	43	-280	-281	16611.2406	
1	6015.997	1	24128.639-30204.635	1	.	.	.	1.0-	1.0	.	.	.	0.667	0.590*	77	47	51	16617.8094	
1	6015.604	1	28167.436-22451.834	2	.	.	.	5.0-	5.0	.	.	.	1.210	0.000*	0	144	146	16618.8951	
1	6014.952	3	12159.465-6144.515	2	.	.	.	4.0-	3.0	.	.	.	0.844	1.473	629	185	185	16620.6965	
	6014.106	2														-040		16623.0346	
1	6009.699	2	29021.267-23011.570	2	.	.	.	4.0-	4.0	.	.	.	0.000	0.000*	0	162	163	16635.2245	
1	6008.635	2	23281.721-29290.355	1	.	.	.	5.0-	6.0	.	.	.	1.235	0.920	315	12	10	16638.1702	IS*
2	6007.571	2	23171.032-17163.470	9	.	.	.	4.5-	4.5	.	.	.	1.240	1.200*	40	471	464	16641.1170	
1	6006.144	4	19426.512-25432.655	1	.	.	.	3.0-	2.0	.	.	.	1.435	1.281	154	126	124	16645.0708	
1	6005.607	2	21737.407-27743.009	5	.	.	.	3.0-	2.0	.	.	.	1.026	0.568	458	214	210	16646.5591	IS*
1	6005.262	3	19203.415-25208.672	5	.	.	.	2.0-	2.0	.	.	.	1.021	0.490	531	-012	-12	16647.5155	IS*
1	6004.361	2H	23550.352-29554.716	-3	.	.	.	3.0-	3.0	.	.	.	1.090	0.831*	259	59	57	16650.0136	
1	6004.184	1	18578.669-24582.849	4	.	.	.	1.0-	2.0	.	.	.	1.932	0.640	1292	215	213	16650.5044	
1	6003.482	4	17615.482-23618.964	0	.	.	.	2.0-	3.0	.	.	.	1.450	0.000*	0	-345	-344	16652.4514	
1	6002.521	2	30770.199-24767.674	-4	.	.	.	2.0-	2.0	.	.	.	1.216	1.455	239	140	143	16655.1174	
1	6000.869	2	28106.505-34107.378	-4	.	.	.	3.0-	3.0	.	.	.	1.190	1.160*	30		-48	16659.7025	
	5997.834	2																16668.1326	
1	5996.327	3	20877.600-26873.930	-3	.	.	.	7.0-	6.0	.	.	.	1.060	1.125*	65	174	174	16672.3216	
1	5994.951	1	34751.714-28756.769	6	.	.	.	4.0-	5.0	.	.	.	1.146	1.165	19		9	16676.1483	CQ
	5993.863	2														-040		16679.1754	
1	5992.482	2	21812.682-27805.163	1	.	.	.	4.0-	5.0	.	.	.	1.040	1.024	16	32	27	16683.0192	
1	5991.759	4	21737.407-15745.648	0	.	.	.	3.0-	3.0	.	.	.	1.026	1.145	119	159	159	16685.0323	
1	5989.647	2	23766.136-17776.483	-6	.	.	.	1.0-	2.0	.	.	.	2.162	0.565	1597	-188	-188	16690.9156	
1	5989.173	3	26730.201-20741.029	1	.	.	.	3.0-	2.0	.	.	.	0.950	0.000*	0	188	189	16692.2365	
	5988.563	2																16693.9368	
	5988.378	1																16694.4525	
1	5987.251	1	26317.729-32304.979	1	.	.	.	4.0-	4.0	.	.	.	1.180	0.990*	190		-45	16697.5950	
1	5986.833	2	30905.445-24918.555	3	.	.	.	6.0-	6.0	.	.	.	0.000	0.000*	0	173	170	16598.5935	
1	5985.610	3	25328.907-19343.258	1	.	.	.	3.0-	3.0	.	.	.	1.340	1.135	205	102	103	16702.1728	
	5933.459	2																16708.1771	

C	WAVENUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
							J2	J1	J2	J1		G2	G1	DG	G2	G1	DG	IS		
	5923.040	1																	16709.3472	
1	5922.575	3	29631.948-23649.372	-1					5.0- 4.0							0.000 0.000*	0	121 119	16710.6459	
1	5921.741	5	20425.711-26407.449	3					1.0- 2.0							1.340 0.972	358	056 56	16712.9758	
	5981.518	1																	16713.5989	
	5931.379	2																	16713.9873	
	5931.151	1																	16714.6244	
1	5980.791	2	12672.411-24653.200	2					6.0- 6.0							1.190 0.000*	0	-322 -315	16715.6305	
1	5920.555	2	31049.306-25068.751	0					7.0- 7.0							0.000 0.000*	0	196 197	16716.2901	
	5920.134	1H																	16717.4669	
1	5979.698	3	27536.236-21556.538	0					3.0- 4.0							1.355 1.290	65	229 227	16718.6859	
1	5979.565	4	26301.732-20322.165	-2					5.0- 6.0							1.060 1.360*	300	196 196	16719.0577	
1	5979.434	3	29108.865-23129.429	-2					5.0- 5.0							1.210 1.168*	42	174 174	16719.4240	IS*
	5979.074	2																	16720.4307	
	5978.447	2																	16722.1843	
	5977.003	2																	16726.2242	
1	5975.158	7	14853.317-20828.475	0					4.0- 4.0							0.785 0.352	434	-119 -118	16731.3890	
1	5974.093	2	21337.573-27311.658	8					4.0- 5.0							1.137 1.035	102		16734.3717	
1	5970.073	4	23735.353-17765.281	1					2.0- 3.0							0.935 1.680*	745	155 157	16745.6399	
	5969.426	2																	16747.2585	
	5969.157	2																	16748.2096	
	5968.545	2																	16748.8045	
	5968.660	2H																	16749.6042	
1	5968.249	3	24824.706-18856.461	4					4.0- 5.0							1.145 1.325	180	314 312	16750.7577	
	5967.623	1																	16752.5008	
	5967.511	1																	16752.8292	
	5967.091	1																	16754.0084	
1	5966.833	2	24347.551-30314.443	-4					3.0- 3.0							1.300 1.140*	160	-078 -77	16754.5784	
	5966.542	2																24	16755.5500	IS*
	5966.417	2																	16755.9010	
	5966.310	1																	16756.2015	
	5965.782	2																	16757.6845	
1	5965.682	2	26844.163-32809.844	1					4.0- 4.0							1.020 0.900	120		16757.9654	
1	5965.265	2	18963.921-24929.184	2					4.0- 4.0							1.251 1.080	171	-145 -140	16759.1369	
	5955.032	2																	16759.7915	
1	5964.316	2	23705.495-29669.807	4					7.0- 6.0							1.277 1.150	127		16761.8035	
1	5953.925	2	24149.361-30113.280	6					5.0- 6.0							1.262 1.050	212	69 69	16762.9024	
	5952.713	1H																	16766.3097	
1	5961.325	2	26283.495-20322.165	-5					7.0- 6.0							1.080 1.360*	280	140 141	16770.2135	IS*
1	5961.004	3	26633.286-20672.283	1					1.0- 2.0							1.124 1.430*	306	107 106	16771.1165	
1	5950.900	2	26633.286-20672.390	4					1.0- 1.0							1.124 0.000*	0	109 109	16771.4092	
1	5959.634	2	20784.195-26943.829	0					6.0- 5.0							1.319 1.220	99	-242 -243	16774.9719	
1	5953.755	1	28368.512-22409.753	-4					3.0- 2.0							0.830 1.413*	583	259	16777.4464	
1	5953.431	3	23281.721-17323.291	1					5.0- 4.0							1.235 1.250*	15	192 192	16778.3587	
	5957.725	2H																	16780.3470	
1	5957.419	2	19203.415-25160.827	7					2.0- 3.0							1.021 0.800	221	12 15	16781.2089	IS*
1	5957.126	1	25328.907-31286.029	4					3.0- 2.0							1.340 1.280	60		16782.0343	
	5956.723	2																	16782.9866	ISQ
1	5955.379	2	23720.664-17765.281	-4					3.0- 3.0							0.790 1.680*	890	164 164	16786.9573	
	5954.575	2																	16789.2239	
1	5954.153	1	26149.538-32103.687	4					4.0- 4.0							1.360 1.040*	320		16790.4138	
1	5953.143	3	20590.684-26943.829	-2					5.0- 5.0							1.303 1.220	88	-227 -226	16793.2625	
1	5951.563	4	23274.858-17323.291	1					4.0- 4.0							1.604 1.250*	354	151 158	16797.7066	
	5951.301	1																	16798.4602	
	5947.710	3																	16808.6025	
	5946.707	2																	16811.4375	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5946.165	1	20709.458	-	26655.622	1	.	.	3.0-	3.0	.	.	.	1.240	1.015	225	49	50	16812.9699	
	5944.076	1					.	.			.	.	.						16818.8787	
1	5943.981	2	24733.061	-	30677.044	-2	.	.	7.0-	3.0	.	.	.	1.275	1.245	30	-347	-345	16819.1475	
1	5943.817	2	22416.990	-	23360.802	5	.	.	2.0-	3.0	.	.	.	1.675	0.887	783		120	16819.6116	
	5943.530	2					.	.			.	.	.						16820.4237	
	5942.520	2					.	.			.	.	.						16823.2826	
	5942.166	2					.	.			.	.	.						16824.2848	
	5941.386	2					.	.			.	.	.						16826.4935	
1	5940.898	3	18346.917	-	24237.814	1	.	.	2.0-	3.0	.	.	.	1.518	0.585	933	-065	-64	16827.8757	
1	5940.404	2	17051.874	-	23022.274	4	.	.	4.0-	5.0	.	.	.	1.217	0.817	400	-219	-219	16829.2751	
1	5940.278	4	28951.847	-	23011.570	1	.	.	5.0-	4.0	.	.	.	1.290	0.000*	0	142	142	16829.6321	
1	5939.109	2	27334.422	-	33273.528	3	.	.	7.0-	7.0	.	.	.	1.240	1.070*	170		19	16832.9447	
	5938.510	1					.	.			.	.	.						16834.6426	
1	5938.138	4	27228.191	-	21290.050	-3	.	.	1.0-	2.0	.	.	.	1.767	0.000*	0	128	123	16835.6972	
	5937.853	2					.	.			.	.	.						16836.5053	
	5937.383	2					.	.			.	.	.						16837.8380	
	5937.240	2					.	.			.	.	.						16838.2436	
	5937.126	1					.	.			.	.	.						16838.5669	
	5937.048	2					.	.			.	.	.						16838.7881	
1	5936.892	2	22181.368	-	28118.262	-2	.	.	3.0-	3.0	.	.	.	0.780	1.250*	470	186	183	16839.2306	
	5936.762	2					.	.			.	.	.						16839.5993	
	5936.641	2					.	.			.	.	.						16839.9425	
1	5936.435	2	23413.710	-	29350.139	6	.	.	4.0-	3.0	.	.	.	0.000	0.910*	0		-84	16840.5269	
1	5936.258	3	19496.402	-	25432.655	5	.	.	3.0-	2.0	.	.	.	1.555	1.281	274	12	11	16841.0290	IS*
	5936.032	1					.	.			.	.	.						16841.6702	
1	5935.956	1	20540.110	-	26476.068	-2	.	.	3.0-	4.0	.	.	.	0.830	1.605*	775	-160	-162	16841.8358	
	5935.880	2					.	.			.	.	.						16842.1015	
1	5935.766	2	11840.715	-	17776.483	-2	.	.	3.0-	2.0	.	.	.	0.811	0.565	246		-160	16842.4249	
	5934.848	2					.	.			.	.	.						16845.0301	
1	5934.453	2	24653.345	-	18718.882	-5	.	.	1.0-	2.0	.	.	.	0.860	0.504*	356	-162	-163	16846.1371	
	5934.193	1					.	.			.	.	.						16846.8894	
1	5933.930	2	28385.761	-	22451.834	3	.	.	6.0-	5.0	.	.	.	1.025	0.000*	0	253	254	16847.6361	
	5933.709	1					.	.			.	.	.						16848.2636	
	5932.983	2					.	.			.	.	.						16850.3253	
	5932.810	2					.	.			.	.	.						16850.8166	
	5932.377	1					.	.			.	.	.						16852.0465	
	5932.280	2					.	.			.	.	.						16852.3221	
1	5931.633	4	25870.685	-	19939.052	0	.	.	2.0-	3.0	.	.	.	1.170	0.000*	0	158	160	16854.1603	
	5931.344	2					.	.			.	.	.						16854.9815	
	5931.155	1					.	.			.	.	.						16855.5186	
1	5930.814	2	22429.984	-	28360.802	-4	.	.	4.0-	3.0	.	.	.	1.279	0.887	392	95	98	16856.4877	
	5930.493	2					.	.			.	.	.						16857.4001	
	5930.309	1					.	.			.	.	.						16857.9232	
	5930.233	2					.	.			.	.	.						16858.1392	
	5929.867	2					.	.			.	.	.						16859.1797	
1	5929.691	3	17081.874	-	23011.570	-5	.	.	4.0-	4.0	.	.	.	1.217	0.000*	0		-386	16859.6801	
1	5929.577	2	28951.847	-	23022.274	4	.	.	5.0-	5.0	.	.	.	1.290	0.817*	473		-25	16860.0042	
1	5928.835	2	28268.265	-	22339.429	-1	.	.	1.0-	2.0	.	.	.	1.252	1.049	203		-145	16862.1143	
	5928.693	2					.	.			.	.	.						16862.5039	
1	5928.626	2	22705.158	-	16776.530	-2	.	.	1.0-	1.0	.	.	.	-0.020	0.000*	0		215	16862.7087	
	5928.557	2					.	.			.	.	.						16862.9050	
1	5928.318	1	26708.790	-	32637.106	2	.	.	3.0-	3.0	.	.	.	0.855	0.820*	35		68	16863.5348	
	5927.993	1					.	.			.	.	.						16864.5094	
	5927.615	2					.	.			.	.	.						16865.5848	
	5926.896	2					.	.			.	.	.						16867.6308	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5926.776	3	16155.109	-	22081.891	-6	.	.	5.0-	4.0	.	.	.	0.948	0.000*	0	-153	-152	16867.9723	
	5926.591	2					.	.			.	.	.						16868.4988	
	5926.317	1					.	.			.	.	.						16869.2788	
	5926.079	2					.	.			.	.	.						16869.9562	
1	5925.632	3	24742.092	-	30667.769	5	.	.	4.0-	4.0	.	.	.	0.980	1.265*	285	-093	-92	16871.0865	
	5925.310	2					.	.			.	.	.						16872.1457	
1	5925.072	2	26317.729	-	32242.810	-9	.	.	4.0-	5.0	.	.	.	1.180	1.215*	35		-57	16872.8234	
	5924.756	2					.	.			.	.	.						16873.7233	
	5924.416	2					.	.			.	.	.						16874.6917	
	5924.300	2					.	.			.	.	.						16875.0221	
	5923.997	2					.	.			.	.	.						16875.8852	
1	5923.824	2	27979.161	-	22055.339	2	.	.	2.0-	3.0	.	.	.	1.186	0.000*	0		118	16876.3781	
1	5923.554	2	21600.100	-	27523.650	4	.	.	6.0-	6.0	.	.	.	1.390	1.080	310		-122	16877.1473	
	5923.278	2					.	.			.	.	.						16877.9337	
	5923.155	2					.	.			.	.	.						16878.2842	
1	5922.591	4	23281.721	-	29204.308	4	.	.	5.0-	5.0	.	.	.	1.235	0.896	339	-008	-10	16879.8915	IS*
	5922.462	1					.	.			.	.	.						16880.2592	
1	5922.355	2	19203.415	-	25125.763	8	.	.	2.0-	1.0	.	.	.	1.021	0.314	707	0	1	16880.5613	IS*
	5922.137	2					.	.			.	.	.						16881.1855	
	5921.951	2					.	.			.	.	.						16881.7158	
	5921.597	2					.	.			.	.	.						16882.7250	
	5921.429	1					.	.			.	.	.						16883.2040	
	5921.183	2					.	.			.	.	.						16883.9054	
	5921.101	2					.	.			.	.	.						16884.1392	
	5920.879	2					.	.			.	.	.						16884.7723	
1	5920.697	3	29073.454	-	23152.755	-2	.	.	1.0-	2.0	.	.	.	1.356	0.580	776	194	183	16885.2913	
	5920.596	2					.	.			.	.	.						16885.5793	
	5920.530	2					.	.			.	.	.						16885.7676	
1	5920.348	3	18046.103	-	23966.450	6	.	.	4.0-	3.0	.	.	.	0.694	0.760	66	065	65	16886.2867	
1	5916.465	8	14912.011	-	20828.475	1	.	.	4.0-	4.0	.	.	.	0.496	0.352	144		-21	16897.3692	
1	5911.232	2	25717.388	-	31628.619	1	.	.	5.0-	6.0	.	.	.	0.970	1.110*	140	093	94	16912.3279	
	5910.973	2					.	.			.	.	.						16913.0689	
	5910.795	2					.	.			.	.	.						16913.5782	
	5910.550	2					.	.			.	.	.						16914.2793	
	5910.468	2					.	.			.	.	.						16914.5140	
	5910.251	2					.	.			.	.	.						16915.1350	
1	5910.101	3	18578.669	-	24488.767	3	.	.	1.0-	1.0	.	.	.	1.932	0.000*	0		-75	16915.5643	
	5909.967	2					.	.			.	.	.						16915.9479	
	5909.384	2					.	.			.	.	.						16917.6168	
	5909.181	2					.	.			.	.	.						16918.1979	
	5909.099	2					.	.			.	.	.						16918.4327	
1	5908.739	2	27124.898	-	33033.638	-1	.	.	2.0-	3.0	.	.	.	1.190	0.910*	280		-52	16919.4635	
1	5908.578	2	14763.705	-	20672.283	0	.	.	1.0-	2.0	.	.	.	-0.066	1.430*	1496	-432	-423	16919.9245	
1	5908.245	1	33558.579	-	39466.835	-10	.	.	4.0-	5.0	.	.	.	1.059	1.065	6		21	16920.8753	C2
2	5908.246	1	22653.965	-	16745.720	1	.	.	2.5-	2.5	.	.	.	1.350	1.671*	311		482	16920.8753	C2
	5907.854	2					.	.			.	.	.						16921.9980	
	5907.618	2					.	.			.	.	.						16922.6740	
	5907.487	1					.	.			.	.	.						16923.0493	
	5907.314	2					.	.			.	.	.						16923.5449	
	5907.087	2					.	.			.	.	.						16924.1953	
	5906.851	2					.	.			.	.	.						16924.8714	
	5906.592	2					.	.			.	.	.					160	16925.6136	ISQ
	5906.349	2					.	.			.	.	.						16926.3099	
2	5906.239	2	19632.555	-	13726.318	2	.	.	1.5-	2.5	.	.	.	1.010	0.784*	226		446*	16926.6252	
	5905.737	2					.	.			.	.	.						16927.9207	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES	
1	5905.696	2	22182.030-16276.332	-2	.	.	.	2.0	2.0	.	.	.	.	.	1.295	1.880*	585	094	94	16928.1815	
	5905.432	2			.	.	.	.	.	.	.	.	.	.						16928.9383	
1	5905.037	3	22181.368-16276.332	1	.	.	.	3.0	2.0	.	.	.	.	.	0.780	1.880*	1100	197	196	16930.0707	
1	5904.555	2	25828.024-31732.582	-3	.	.	.	4.0	5.0	.	.	.	.	.	1.310	1.049*	261	071	73	16931.4527	
	5904.230	2			.	.	.	.	.	.	.	.	.	.						16932.3847	
	5904.021	1			.	.	.	.	.	.	.	.	.	.						16932.9841	
	5903.489	2			.	.	.	.	.	.	.	.	.	.						16934.5101	
	5903.246	2			.	.	.	.	.	.	.	.	.	.						16935.2072	
	5903.062	2			.	.	.	.	.	.	.	.	.	.						16935.7350	
1	5902.786	1	24759.250-18356.461	-3	.	.	.	6.0	5.0	.	.	.	.	.	1.098	1.325	227		367	16936.5269	
	5902.626	2			.	.	.	.	.	.	.	.	.	.						16936.9860	
	5902.437	2			.	.	.	.	.	.	.	.	.	.						16937.5283	
2	5901.355	2	15641.100-21542.435	20	.	.	.	3.5	2.5	.	.	.	.	.	1.040	1.279*	239		-481	16940.6338	CQ
	5901.231	2			.	.	.	.	.	.	.	.	.	.						16940.9898	
	5900.865	2			.	.	.	.	.	.	.	.	.	.						16942.0405	
	5900.746	2			.	.	.	.	.	.	.	.	.	.						16942.3822	
	5900.350	2			.	.	.	.	.	.	.	.	.	.						16943.5193	
	5900.023	3			.	.	.	.	.	.	.	.	.	.						16944.4583	
1	5899.991	5	22176.323-16276.332	0	.	.	.	1.0	2.0	.	.	.	.	.	1.210	1.880*	670	181	184	16944.5502	
	5899.229	2			.	.	.	.	.	.	.	.	.	.						16946.7390	
1	5898.530	2	22219.737-28118.262	5	.	.	.	4.0	3.0	.	.	.	.	.	0.750	1.250*	500	211	208	16948.7472	
	5898.086	2			.	.	.	.	.	.	.	.	.	.						16950.0231	
	5897.891	2			.	.	.	.	.	.	.	.	.	.						16950.5835	
	5897.731	2			.	.	.	.	.	.	.	.	.	.						16951.0434	
1	5897.277	3	26885.388-20988.110	-1	.	.	.	5.0	4.0	.	.	.	.	.	1.055	1.374	319	134	135	16952.3483	
	5896.769	2			.	.	.	.	.	.	.	.	.	.						16953.8088	
1	5896.628	2	28343.462-22451.834	0	.	.	.	4.0	5.0	.	.	.	.	.	0.000	0.000*	0		183	16954.2142	C2
1	5896.628	2	22429.984-28326.610	2	.	.	.	4.0	4.0	.	.	.	.	.	1.279	1.260*	19		-101	16954.2142	C2
	5896.168	2			.	.	.	.	.	.	.	.	.	.						16955.5369	
1	5895.814	2	32186.115-26290.302	1	.	.	.	4.0	5.0	.	.	.	.	.	1.212	1.125	87	097	97	16956.5549	
	5895.689	1			.	.	.	.	.	.	.	.	.	.						16956.9145	
	5895.448	1			.	.	.	.	.	.	.	.	.	.						16957.6076	
	5894.415	1			.	.	.	.	.	.	.	.	.	.						16960.5795	
1	5893.916	1	30375.227-24481.313	2	.	.	.	6.0	6.0	.	.	.	.	.	1.320	0.000*	0		-36	16962.0154	
	5893.293	2			.	.	.	.	.	.	.	.	.	.						16963.8085	
	5892.672	1			.	.	.	.	.	.	.	.	.	.						16965.5963	
2	5892.437	1	40412.140-46304.585	-8	.	.	.	3.5	2.5	.	.	.	.	.	1.170	0.980*	190			16966.2729	
1	5892.254	2	17081.874-22974.132	-4	.	.	.	4.0	3.0	.	.	.	.	.	1.217	1.147	70	-141	-141	16966.7998	
	5891.687	1			.	.	.	.	.	.	.	.	.	.						16968.4327	
	5891.543	2			.	.	.	.	.	.	.	.	.	.						16968.8330	ISQ
	5891.032	2			.	.	.	.	.	.	.	.	.	.						16970.1753	
	5890.764	2			.	.	.	.	.	.	.	.	.	.						16971.0914	
	5890.620	2			.	.	.	.	.	.	.	.	.	.						16971.5062	
	5889.760	1			.	.	.	.	.	.	.	.	.	.						16973.9844	
1	5889.659	2	22671.890-28561.548	1	.	.	.	1.0	2.0	.	.	.	.	.	0.599	0.784	185		-84	16974.2754	
	5889.336	2			.	.	.	.	.	.	.	.	.	.						16975.0335	
1	5888.971	3	25828.024-19939.052	-1	.	.	.	4.0	3.0	.	.	.	.	.	1.310	0.000*	0	111	110	16976.2585	
	5888.863	1			.	.	.	.	.	.	.	.	.	.						16976.5554	
	5888.701	1			.	.	.	.	.	.	.	.	.	.						16977.0369	
	5887.972	1			.	.	.	.	.	.	.	.	.	.						16979.1389	
	5887.252	2			.	.	.	.	.	.	.	.	.	.						16981.2154	IS*
1	5886.117	2	20769.512-26655.622	7	.	.	.	2.0	3.0	.	.	.	.	.	1.070	1.015*	55	111	106	16984.4898	
1	5885.632	4	24742.092-18356.461	1	.	.	.	4.0	5.0	.	.	.	.	.	0.980	1.325*	345	209	209	16985.8894	
1	5884.304	2	18346.917-24231.226	-5	.	.	.	2.0	2.0	1.518	0.411	1107		28	35	16989.7229	IS*
	5884.030	1			.	.	.	.	.	.	.	.	.	.						16990.5140	ISQ

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 -	OBS J1	TERM J2 -	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5883.464	2	25662.969-19779.507			2	.	.	5.0-	4.0	.	.	.	1.330	0.000*	0	354	351	16992.1485	
1	5883.290	4	15406.760-21290.050			0	.	.	1.0-	2.0	.	.	.	0.890	0.000*	0	-335	-330	16992.6511	
1	5883.275	3H	20990.684-26873.930			29	.	.	5.0-	6.0	.	.	.	1.308	1.125	183	-039	-38	16992.6944	IS*
	5882.620	2																	16994.5865	
1	5830.313	1	26708.790-20828.475			-2	.	.	3.0-	4.0	.	.	.	0.855	0.352	503	-051	-53	17001.2539	IS*
	5879.526	1																	17003.5296	
1	5879.004	4	27643.693-21764.690			1	.	.	4.0-	5.0	.	.	.	1.310	0.000*	0	121	119	17005.0393	
1	5878.913	2	19231.917-25160.827			3	.	.	2.0-	3.0	.	.	.	1.822	0.800	1022	-008	9	17005.3026	IS*
1	5878.620	2	29038.272-34966.946			6	.	.	3.0-	4.0	.	.	.	1.005	1.025	20	-040	-55	17005.9766	
	5877.833	1																	17008.2825	
1	5876.728	1	26696.083-32572.811			0	.	.	5.0-	5.0	.	.	.	1.315	1.010*	305	024	23	17011.6252	
1	5875.690	1	24903.894-30779.585			-1	.	.	3.0-	3.0	.	.	.	0.915	0.860	55	-126	-110	17014.6305	
1	5873.620	4	29617.177-23743.557			0	.	.	7.0-	6.0	.	.	.	1.380	0.000*	0	102	102	17020.6269	
	5870.660	1															206		17029.2087	
2	5870.521	2	15578.500- 9707.980			1	.	.	6.5-	6.5	.	.	.	0.000	1.485*	0	478		17029.6119	ISQ CQ
1	5870.384	2	27361.817-21491.439			6	.	.	3.0-	3.0	.	.	.	1.310	0.000*	0	152	152	17030.0094	
1	5869.738	1	25328.907-31198.642			3	.	.	3.0-	3.0	.	.	.	1.340	1.070	270	197	196	17031.8836	
1	5869.226	2	19059.958-24929.184			0	.	.	5.0-	4.0	.	.	.	1.375	1.080	295	-157	-157	17033.3694	
	5865.439	1															69		17044.3669	
1	5862.770	2	30319.724-24456.948			-6	.	.	3.0-	3.0	.	.	.	1.010	0.000*	0	20	23	17052.1263	IS*
1	5861.712	2	19059.958-24921.671			-1	.	.	5.0-	5.0	.	.	.	1.375	1.034	341	-105	-110	17055.2041	
	5861.460	1																	17055.9374	
1	5860.189	2	21737.407-27597.590			6	.	.	3.0-	4.0	.	.	.	1.026	0.930	96	143	140	17059.6366	
1	5858.963	2	27415.500-21556.538			1	.	.	5.0-	4.0	.	.	.	1.370	1.290*	80	120	121	17063.2064	
1	5858.598	2	19059.955-24918.555			1	.	.	5.0-	6.0	.	.	.	1.375	0.000*	0	-395	-396	17064.2694	
1	5858.513	3	28268.265-22409.753			1	.	.	1.0-	2.0	.	.	.	1.252	1.413	161	078	85	17064.5170	
1	5857.633	3	24158.741-30016.377			-3	.	.	2.0-	2.0	.	.	.	1.240	1.140*	100	-024	-23	17067.0806	
1	5857.052	3	28368.619-23011.570			3	.	.	5.0-	4.0	.	.	.	1.085	0.000*	0	210	205	17068.7736	
	5855.729	3															-153		17072.6300	
	5855.708	3H																	17072.6913	
1	5854.185	3	27909.524-22055.339			0	.	.	4.0-	3.0	.	.	.	1.270	0.000*	0	158	163	17077.1328	
1	5851.766	1	34030.240-28178.473			-1	.	.	2.0-	3.0	.	.	.	1.300	0.000*	0		175	17084.1922	
1	5848.122	2	24613.274-30461.399			-3	.	.	5.0-	5.0	.	.	.	1.160	0.990	170	8	10	17094.8374	IS*
1	5844.059	4	23416.666-17572.608			1	.	.	2.0-	2.0	.	.	.	1.320	0.555*	765	207	207	17106.7224	
1	5842.489	2	22518.312-28360.802			-1	.	.	2.0-	3.0	.	.	.	1.350	0.887	463	114	112	17111.3193	
1	5840.224	1	25870.685-31710.912			-3	.	.	2.0-	2.0	.	.	.	1.170	0.200	970	-290	-294	17117.9556	
1	5835.936	2	22509.712-28345.647			1	.	.	5.0-	6.0	.	.	.	1.287	0.000*	0	-296	-295	17130.5331	
1	5833.541	4	31540.149-25706.606			-2	.	.	7.0-	7.0	.	.	.	1.205	0.000*	0	234	234	17137.5662	
1	5829.888	2	23004.649-28834.535			2	.	.	5.0-	5.0	.	.	.	1.196	0.978	218	-119	-120	17148.3046	
1	5826.209	4	26498.599-20672.390			0	.	.	0.0-	1.0	.	.	.	0.000	0.000*	0	075	86	17159.1330	
1	5825.648	4	13517.647-19343.298			-3	.	.	2.0-	3.0	.	.	.	0.892	1.135	243	-409	-409	17160.7854	
1	5822.751	1	23720.664-17897.917			4	.	.	3.0-	3.0	.	.	.	0.790	0.450*	340	-269	-278	17169.3235	
2	5822.576	3	28322.800-22500.225			1	.	.	6.5-	5.5	.	.	.	1.443	1.555	112	438	438	17169.8395	
1	5822.419	4	23951.847-23129.429			1	.	.	5.0-	5.0	.	.	.	1.290	1.168*	122	116	116	17170.3025	
1	5821.388	1	25591.845-31413.230			3	.	.	3.0-	3.0	.	.	.	0.990	0.742*	248	084	82	17173.3434	
	5820.374	1																	17176.3353	
1	5820.262	2	20335.328-26205.589			1	.	.	2.0-	3.0	.	.	.	1.911	0.701	1210	058	62	17176.6658	
1	5819.363	3	23735.353-29554.716			0	.	.	2.0-	3.0	.	.	.	0.935	0.831*	104	67	59	17179.3194	
1	5818.478	3	18147.975-23966.450			3	.	.	3.0-	3.0	.	.	.	1.049	0.760	289	-169	-169	17181.9324	
1	5817.152	2	18734.151-22551.302			1	.	.	2.0-	3.0	.	.	.	0.928	0.000*	0	-390	-391	17185.8489	
1	5815.357	3	24534.240-18718.882			-1	.	.	2.0-	2.0	.	.	.	0.000	0.504*	0	-171	-173	17191.1536	
1	5813.718	1	27578.418-21764.690			-10	.	.	5.0-	5.0	.	.	.	1.120	0.000*	0	337	331	17196.0001	
1	5812.336	3	25591.845-19779.507			-2	.	.	3.0-	4.0	.	.	.	0.990	0.000*	0	182	182	17200.0388	
1	5811.146	2	25064.653-30875.798			1	.	.	3.0-	4.0	.	.	.	0.930	1.030*	100	-	-22	17203.6111	
1	5810.873	5	20540.110-26350.982			1	.	.	3.0-	4.0	.	.	.	0.830	0.796*	34	093	92	17204.4193	

C	HAVENUM	SER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	5209.850	2	27301.288-21491.439	1	.	.	.	.	.	4.0-	3.0	.	.	.	0.985	0.000*	0	202	203	17207.4487	
1	5308.900	2	18672.411-24431.313	-2	.	.	.	.	.	6.0-	6.0	.	.	.	1.190	0.000*	0	-247	-249	17210.2628	IS*
1	5807.325	2	16532.104-22339.429	0	.	.	.	.	.	3.0-	2.0	.	.	.	0.300	1.049	749	+	31	17214.9304	
	5804.716	2			.	.	.	.	.			.	.	.				-066		17222.6679	
	5802.916	2			.	.	.	.	.			.	.	.				138		17228.0101	
1	5799.791	2	23550.352-29350.139	4	.	.	.	.	.	3.0-	3.0	.	.	.	1.090	0.910*	180		51	17237.2928	
1	5794.785	1	24091.173-29235.947	11	.	.	.	.	.	3.0-	3.0	.	.	.	1.245	1.330*	85	-080	-79	17252.1838	
1	5792.458	1	23766.136-29558.591	3	.	.	.	.	.	1.0-	2.0	.	.	.	2.162	1.030	1132		-39	17259.1145	
1	5790.593	2	23413.710-29204.308	-5	.	.	.	.	.	4.0-	5.0	.	.	.	0.000	0.896*	0	-115	-108	17264.6732	
1	5789.758	2	18963.921-24753.684	-5	.	.	.	.	.	4.0-	4.0	.	.	.	1.251	0.975	276	-170	-167	17267.1631	IS*
1	5789.513	2	22181.368-27970.831	0	.	.	.	.	.	3.0-	2.0	.	.	.	0.780	0.194*	586	000	-4	17267.8938	IS*
1	5789.411	6	10426.922-16276.332	1	.	.	.	.	.	1.0-	2.0	.	.	.	0.355	1.880*	1525	-394	-394	17268.1981	
1	5726.400	2	24347.551-30133.953	-2	.	.	.	.	.	3.0-	3.0	.	.	.	1.300	1.200*	100	-047	-48	17277.1837	
1	5785.668	2	22509.712-28295.380	0	.	.	.	.	.	5.0-	4.0	.	.	.	1.287	1.155	132	-126	-128	17279.3696	IS*
1	5785.070	4	23550.352-17765.281	-1	.	.	.	.	.	3.0-	3.0	.	.	.	1.090	1.680*	590	157	159	17281.1558	
1	5784.465	2	25121.896-19337.431	0	.	.	.	.	.	1.0-	1.0	.	.	.	1.444	2.410*	966	174	172	17282.9633	
1	5782.160	2	19426.512-25208.672	0	.	.	.	.	.	3.0-	2.0	.	.	.	1.435	0.490	945	062	61	17289.8529	
	5778.373	2			.	.	.	.	.			.	.	.				-158		17301.1843	
	5778.260	2			.	.	.	.	.			.	.	.						17301.5226	
1	5777.597	6	23100.887-17323.291	1	.	.	.	.	.	3.0-	4.0	.	.	.	1.520	1.250*	270	055	55	17303.5080	
	5777.012	2			.	.	.	.	.			.	.	.				169		17305.2603	ISQ
	5775.151	2			.	.	.	.	.			.	.	.						17310.8368	
2	5771.601	2	27691.000-21919.400	1	.	.	.	.	.	6.5-	7.5	.	.	.	1.160	1.345*	185	441	441	17321.4843	
	5770.972	1			.	.	.	.	.			.	.	.				-127		17323.3723	
1	5769.594	1	29118.602-34888.198	-2	.	.	.	.	.	4.0-	5.0	.	.	.	1.510	1.070*	440	-024	19	17327.5097	IS*
1	5768.535	1	26664.150-32432.680	5	.	.	.	.	.	6.0-	7.0	.	.	.	1.135	1.140	5	28	25	17330.6908	IS*
2	5766.853	1	24432.860-18666.006	-1	.	.	.	.	.	3.5-	2.5	.	.	.	1.110	1.365*	255	334	328	17335.7456	
1	5762.265	2	25541.775-19779.507	-3	.	.	.	.	.	3.0-	4.0	.	.	.	0.915	0.000*	0	292	292	17349.5486	
1	5761.344	2	18397.584-24658.931	-3	.	.	.	.	.	5.0-	4.0	.	.	.	1.280	1.080	200	-071	-73	17352.3220	
1	5757.303	4	25100.598-19343.298	3	.	.	.	.	.	2.0-	3.0	.	.	.	1.430	1.135	295	171	169	17364.5015	IS*
1	5757.149	3	22219.737-27976.881	5	.	.	.	.	.	4.0-	3.0	.	.	.	0.750	1.080	330	65	94	17364.9660	
1	5756.818	3	24513.274-18856.461	5	.	.	.	.	.	5.0-	5.0	.	.	.	1.160	1.325	165	187	188	17365.9644	IS*
1	5756.206	2	17911.977-23668.184	-1	.	.	.	.	.	5.0-	4.0	.	.	.	1.145	0.940*	205	-116	-114	17367.8108	
1	5754.064	3	31460.669-25706.606	1	.	.	.	.	.	7.0-	7.0	.	.	.	1.140	0.000*	0	283	280	17374.2761	
1	5753.076	4	22219.737-27972.815	-2	.	.	.	.	.	4.0-	4.0	.	.	.	0.750	0.979	229	155	156	17377.2598	
1	5752.733	4	20654.712-26407.449	1	.	.	.	.	.	1.0-	2.0	.	.	.	0.200	0.972	772	060	60	17378.2808	
1	5744.751	3	27301.288-21556.538	1	.	.	.	.	.	4.0-	4.0	.	.	.	0.985	1.290	305	228	227	17402.4421	
1	5743.706	3	17615.482-23359.187	1	.	.	.	.	.	2.0-	3.0	.	.	.	1.450	1.030*	420	-310	-312	17405.6083	IS*
1	5742.603	4	23315.209-17572.608	2	.	.	.	.	.	2.0-	2.0	.	.	.	1.335	0.555	780	144	144	17408.9514	
1	5742.089	1	26730.201-20988.110	-2	.	.	.	.	.	3.0-	4.0	.	.	.	0.950	1.374	424	194	195	17410.5098	IS*
1	5741.781	4	22518.312-16776.530	-1	.	.	.	.	.	2.0-	1.0	.	.	.	1.350	0.000*	0	170	170	17411.4437	
1	5739.191	2	28368.619-23129.429	1	.	.	.	.	.	5.0-	5.0	.	.	.	1.085	1.168	83	178	179	17419.3012	
	5738.545	2			.	.	.	.	.			.	.	.						17421.2622	
1	5738.452	5	12159.465-17897.917	0	.	.	.	.	.	4.0-	3.0	.	.	.	0.844	0.450	394	028	41	17421.5445	IS*
	5733.404	3H			.	.	.	.	.			.	.	.						17421.6902	
1	5735.495	2	19558.257-25293.751	1	.	.	.	.	.	2.0-	3.0	.	.	.	-0.145	0.965	1110	-135	-138	17430.5264	
1	5735.436	3	29207.020-23473.585	1	.	.	.	.	.	7.0-	6.0	.	.	.	1.390	0.000*	0	101	103	17430.7057	
1	5734.316	4	19426.512-25160.827	1	.	.	.	.	.	3.0-	3.0	.	.	.	1.435	0.800	635	090	88	17434.1102	
1	5733.262	2	24123.639-29921.899	2	.	.	.	.	.	1.0-	2.0	.	.	.	0.667	1.070*	403	-016	-20	17437.3153	IS*
1	5732.232	1	24331.050-30113.280	2	.	.	.	.	.	5.0-	6.0	.	.	.	1.450	1.050*	400	167	162	17440.4485	
1	5731.294	2	25074.585-19343.298	7	.	.	.	.	.	4.0-	3.0	.	.	.	1.507	1.135	372	086	85	17443.3028	
1	5730.822	6	20043.465-25774.283	-1	.	.	.	.	.	5.0-	6.0	.	.	.	0.925	0.915	10	043	46	17444.7395	
1	5729.264	2H	23395.741-29625.003	2	.	.	.	.	.	2.0-	2.0	.	.	.	-0.100	0.910*	1010	47	52	17449.4834	IS*
1	5727.764	3	23281.721-29009.483	2	.	.	.	.	.	5.0-	4.0	.	.	.	1.235	0.695	540	28	31	17454.0531	IS*
1	5727.213	2	24158.741-29085.947	7	.	.	.	.	.	2.0-	3.0	.	.	.	1.240	1.330*	90	-073	-72	17455.7323	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELLENGTH	NOTES
2	5726.206	3	17733.709-12007.503	0	..	..	0.5-	1.5	..	..	..	..	-0.510	-0.019*	491	488	488	17458.8021	
1	5723.399	1	20065.327-14341.947	0	..	..	3.0-	2.0	..	..	..	..	0.998	0.852	146	408	408	17467.4226	
1	5721.645	2	20799.458-26431.101	2	..	..	3.0-	3.0	..	..	..	..	1.240	0.807	433	-028	-27	17472.7193	IS*
1	5721.356	2	25964.653-19343.298	1	..	..	3.0-	3.0	..	..	..	..	0.980	1.135	155	168	169	17473.6019	IS*
1	5720.679	1	26708.790-20983.110	-1	..	..	3.0-	4.0	..	..	..	..	0.855	1.374	519	161	158	17475.6698	IS*
1	5719.907	3	29193.490-23473.585	2	..	..	6.0-	6.0	..	..	..	..	1.240	0.000*	0	191	191	17478.0284	
1	5718.666	4	31425.212-25706.606	0	..	..	7.0-	7.0	..	..	..	..	1.170	0.000*	0	237	237	17482.0047	
1	5717.542	2	19553.257-25275.795	4	..	..	2.0-	1.0	..	..	..	..	-0.145	0.706	851	201	199	17485.2580	
1	5716.037	2	21227.793-26943.829	1	..	..	4.0-	5.0	..	..	..	..	1.346	1.220	126	-132	-133	17489.8618	
	5712.821	2														32		17499.7076	IS*
1	5712.267	1	19496.402-25208.672	-3	..	..	3.0-	2.0	..	..	..	..	1.555	0.490	1065	-053	-52	17501.4048	
1	5711.554	2	21600.100-27311.658	-4	..	..	6.0-	5.0	..	..	..	..	1.390	1.035	355	-093	-94	17503.5896	
1	5708.842	2	29068.029-23359.187	0	..	..	2.0-	3.0	..	..	..	..	1.284	1.030*	254	178	141	17511.9048	CQ
1	5707.971	3	26696.083-20983.110	-2	..	..	5.0-	4.0	..	..	..	..	1.315	1.374	59	123	123	17514.5770	
1	5707.648	1	24751.439-30459.091	-4	..	..	1.0-	2.0	..	..	..	..	0.647	1.255	608	-123	-119	17515.5681	
1	5705.103	3	28156.938-22451.834	-1	..	..	6.0-	5.0	..	..	..	..	1.335	0.000*	0	131	132	17523.3817	
1	5704.968	4	27196.404-21491.439	3	..	..	3.0-	3.0	..	..	..	..	1.282	0.000*	0	246	247	17523.7964	
1	5695.008	4	18963.921-24653.931	-2	..	..	4.0-	4.0	..	..	..	..	1.251	1.080	171	-062	-56	17554.4438	
1	5694.600	2	28174.233-33868.834	-1	..	..	9.0-	9.0	..	..	..	..	0.000	1.165*	0	-105	-104	17555.7015	
2	5694.542	1W	13192.903-7498.364	3	..	..	2.5-	2.5	..	..	..	..	0.372	1.321	949		189	17555.8803	
1	5693.725	2	19059.958-24753.684	-1	..	..	5.0-	4.0	..	..	..	..	1.375	0.975	400	-184	-184	17558.3994	
1	5693.366	2W	26283.495-31976.844	17	..	..	7.0-	7.0	..	..	..	..	1.080	1.095	15	078	87	17559.5066	2 LNS
1	5693.366	2W	19074.292-24767.674	-16	..	..	2.0-	2.0	..	..	..	..	1.532	1.455	77	-197	-195	17559.5066	2 LNS
1	5690.834	1	26633.286-32324.169	1	..	..	1.0-	0.0	..	..	..	..	1.124	0.000	0	137	137	17567.1649	
1	5683.619	2	29356.804-23668.184	-1	..	..	5.0-	4.0	..	..	..	..	1.190	0.940*	250	24	31	17574.1595	IS*
1	5683.279	2	22429.984-28118.262	1	..	..	4.0-	3.0	..	..	..	..	1.279	1.250*	29	198	196	17575.2100	
1	5687.301	2	20385.328-26072.627	2	..	..	2.0-	2.0	..	..	..	..	1.911	1.500*	411	-109	-107	17578.2322	
1	5684.292	2	27175.729-21491.439	2	..	..	4.0-	3.0	..	..	..	..	1.021	0.000*	0	193	194	17587.5373	
1	5681.358	2	23004.649-17323.291	0	..	..	5.0-	4.0	..	..	..	..	1.196	1.250*	54	361	361	17596.6200	
1	5680.093	2	28832.853-23152.755	0	..	..	2.0-	2.0	..	..	..	..	0.000	0.580*	0	212	208	17600.5234	IS*
1	5679.990	3	20769.512-26449.501	1	..	..	2.0-	3.0	..	..	..	..	1.070	0.940*	130	12	13	17600.8581	IS*
1	5678.426	4	25617.477-19939.052	1	..	..	2.0-	3.0	..	..	..	..	1.360	0.000*	0	126	129	17605.7059	
1	5677.311	2	24456.635-30133.953	-7	..	..	3.0-	3.0	..	..	..	..	1.000	1.200*	200	-059	-79	17609.1635	CQ
1	5677.018	1	30932.959-36609.983	-6	..	..	6.0-	7.0	..	..	..	..	1.340	1.195*	145	+	17	17610.0724	
1	5676.343	2	29295.313-23618.964	-1	..	..	4.0-	3.0	..	..	..	..	1.270	0.000*	0	227	228	17612.1510	
1	5675.602	1	16734.151-22409.753	0	..	..	2.0-	2.0	..	..	..	..	0.928	1.413	485	-395	-394	17614.4659	
	5675.542	1																17614.6521	
1	5675.337	4	21420.983-15745.648	2	..	..	3.0-	3.0	..	..	..	..	1.663	1.145	518	198	196	17615.2384	
1	5675.169	2	19203.415-13528.246	0	..	..	2.0-	1.0	..	..	..	..	1.021	-0.590*	1611	370	370	17615.8098	
	5674.714	3														083		17617.2223	
1	5673.366	1	34240.242-39913.605	3	..	..	2.0-	3.0	..	..	..	..	1.190	1.075*	115	91		17621.4082	
1	5670.395	2	24534.240-30204.635	0	..	..	2.0-	1.0	..	..	..	..	0.000	0.590*	0	-012	-9	17630.6409	
1	5667.857	4	20425.711-26093.563	5	..	..	1.0-	1.0	..	..	..	..	1.340	-0.082	1422	111	109	17638.5357	
	5667.028	2														176		17640.9292	
1	5665.479	4	20540.110-26205.589	0	..	..	3.0-	3.0	..	..	..	..	0.830	0.701*	129	40	40	17645.9392	IS*
1	5664.427	2	19496.402-25150.827	2	..	..	3.0-	3.0	..	..	..	..	1.555	0.800	755	-020	-25	17649.2164	IS*
1	5661.537	2	20769.512-26431.101	-2	..	..	2.0-	3.0	..	..	..	..	1.070	0.807*	263	32	29	17658.0698	IS*
1	5659.919	2	27216.458-21556.538	-1	..	..	5.0-	4.0	..	..	..	..	1.180	1.290*	110	343	343	17663.2737	
	5659.812	1														+		17663.6076	
2	5658.255	2	28158.490-22500.225	-10	..	..	5.5-	5.5	..	..	..	..	1.140	1.555*	415	404	403	17668.4681	
1	5652.971	1	24742.092-30395.062	1	..	..	4.0-	4.0	..	..	..	..	0.980	0.920*	60		-3	17684.9834	
1	5652.793	3	25591.845-19939.052	0	..	..	3.0-	3.0	..	..	..	..	0.990	0.000*	0		195	17685.5403	
1	5652.556	3	18578.669-24231.226	-1	..	..	1.0-	2.0	..	..	..	..	1.932	0.411	1521	183	180	17686.2818	IS*
1	5652.452	3	25974.634-20322.165	-17	..	..	6.0-	6.0	..	..	..	..	1.370	1.360*	10	207	201	17686.6072	SIGMA Q
1	5651.778	3	17500.977-23152.755	0	..	..	1.0-	2.0	..	..	..	..	2.258	0.580	1678	-281	-276	17688.7164	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5551.669	1	29108.865	-	34760.532	2	.	.	5.0-	6.0	.	.	.	1.210	1.140*	70		19	17689.0576	
1	5551.386	4	23416.665	-	17765.281	1	.	.	2.0-	3.0	.	.	.	1.320	1.680*	360	233	235	17689.9434	
1	5650.809	4	27415.500	-	21764.690	-1	.	.	5.0-	5.0	.	.	.	1.370	0.000*	0	101	100	17691.7497	
	5550.630	2																	17692.2162	
1	5650.503	2	25113.744	-	30764.244	3	.	.	6.0-	6.0	.	.	.	1.302	0.975	327	-008	-8	17692.7078	IS*
1	5650.417	4	19558.257	-	25208.672	2	.	.	2.0-	2.0	.	.	.	-0.145	0.490	635	196	195	17692.9771	IS*
1	5649.854	2	24108.639	-	18538.782	-3	.	.	1.0-	2.0	.	.	.	0.667	1.600	933	112	108	17694.7401	
1	5649.550	2	30578.731	-	24929.184	3	.	.	5.0-	4.0	.	.	.	1.209	1.080	129	000	5	17695.6923	IS*
	5649.451	1																	17696.0024	
1	5645.942	2	29295.313	-	23649.372	1	.	.	4.0-	4.0	.	.	.	1.270	0.000*	0	180	182	17707.0006	
1	5641.525	4	20709.458	-	26350.982	1	.	.	3.0-	4.0	.	.	.	1.240	0.796	444	089	88	17720.8642	
1	5640.853	1	22719.949	-	28360.802	0	.	.	4.0-	3.0	.	.	.	1.070	0.887	183	105	107	17722.9753	
1	5640.670	1	23900.213	-	34510.880	3*	.	.	8.0-	8.0	.	.	.	0.000	1.270*	0	000	-2	17723.5503	
1	5640.184	3	23416.666	-	17776.483	1	.	.	2.0-	2.0	.	.	.	1.320	0.565*	755	-008	-7	17725.0775	IS*
1	5639.867	3	27196.404	-	21556.538	1	.	.	3.0-	4.0	.	.	.	1.282	1.290	8	270	271	17726.0738	
1	5636.698	1	24824.706	-	30461.399	5	.	.	4.0-	5.0	.	.	.	1.145	0.990	155	-114	-114	17736.0395	
2	5635.224	2	22799.695	-	17163.470	-1	.	.	4.5-	4.5	.	.	.	1.330	1.200*	130	467	471	17737.5311	
1	5635.854	3	20457.704	-	26093.563	5	.	.	0.0-	1.0	.	.	.	0.000	-0.082	0	142	141	17738.6641	
2	5635.676	1	16352.000	-	10726.322	-2	.	.	4.5-	4.5	.	.	.	1.050	1.391*	341	186	194	17739.2559	
1	5635.284	3	29108.865	-	23473.585	4	.	.	5.0-	6.0	.	.	.	1.210	0.000*	0	198	201	17740.4899	
	5634.766	2																	17742.1207	
1	5634.225	1	15406.760	-	9772.532	-3	.	.	1.0-	0.0	.	.	.	0.890	0.000	0	105	106	17743.8243	
1	5634.095	1	24437.792	-	30071.890	-3	.	.	4.0-	5.0	.	.	.	1.500	1.290*	210	-225	-228	17744.2338	
1	5633.456	1	27124.898	-	21491.439	-3	.	.	2.0-	3.0	.	.	.	1.190	0.000*	0	173	173	17746.2465	
1	5631.256	2	25083.129	-	30714.385	0	.	.	5.0-	4.0	.	.	.	1.160	1.150*	10	-087	-95	17753.1795	
1	5629.475	2	23720.664	-	29350.139	0	.	.	3.0-	3.0	.	.	.	0.790	0.910*	120	46	46	17758.7961	
1	5627.179	3	24970.474	-	19343.298	3	.	.	4.0-	3.0	.	.	.	1.460	1.135*	325	190	191	17766.0421	
1	5625.474	2	23578.836	-	29204.303	2	.	.	5.0-	5.0	.	.	.	1.120	0.896*	224	-020	-20	17771.4267	IS*
1	5624.899	1	18181.485	-	23806.381	3	.	.	0.0-	1.0	.	.	.	0.000	0.094	0	-118	-116	17773.2434	
1	5624.435	2	23281.721	-	28906.150	6	.	.	5.0-	5.0	.	.	.	1.235	1.105	130	-016	-18	17774.7096	IS*
2	5623.372	3	20056.725	-	14433.351	-2	.	.	0.5-	1.5	.	.	.	0.047	1.925	1878	420	420	17778.0696	
1	5623.128	1	25636.914	-	31260.046	-4	.	.	6.0-	6.0	.	.	.	1.335	1.210*	125	-151	-151	17778.8410	
1	5622.077	5	18046.108	-	23668.184	1	.	.	4.0-	4.0	.	.	.	0.694	0.940*	246	118	118	17782.1646	
1	5620.115	1	27979.161	-	33599.280	-4	.	.	2.0-	2.0	.	.	.	1.186	1.606	420	-012	-12	17788.3725	
1	5619.192	3	27175.729	-	21556.538	1	.	.	4.0-	4.0	.	.	.	1.021	1.290	269	218	218	17791.2944	
1	5617.083	2	19559.027	-	14341.947	3	.	.	1.0-	2.0	.	.	.	0.760	0.852*	92	089	89	17797.9743	
1	5615.573	1	29631.943	-	24016.378	3	.	.	5.0-	5.0	.	.	.	0.000	1.560*	0	142	143	17802.7601	
1	5614.791	3	23735.353	-	29350.139	5	.	.	2.0-	3.0	.	.	.	0.935	0.910*	25	054	53	17805.2396	
1	5612.695	4	22219.737	-	27832.430	2	.	.	4.0-	4.0	.	.	.	0.750	0.920	170	148	149	17811.8888	
	5610.326	2																	17819.4100	
	5608.849	2																	17824.1024	
1	5607.696	4	21703.960	-	27311.658	-2	.	.	5.0-	5.0	.	.	.	1.120	1.035	85	-065	-66	17827.7673	
1	5606.308	3	18346.917	-	23953.307	-2	.	.	2.0-	2.0	.	.	.	1.518	1.265	253	-278	-280	17831.9266	
1	5605.536	1	27076.974	-	21491.439	1	.	.	4.0-	3.0	.	.	.	1.180	0.000*	0	225	229	17834.6369	
1	5605.278	2	16734.151	-	22339.429	0	.	.	2.0-	2.0	.	.	.	0.928	1.049	121	-161	-164	17835.4578	IS*
1	5604.663	3	21350.311	-	15745.643	0	.	.	2.0-	3.0	.	.	.	0.350	1.145*	795	313	311	17837.4149	
1	5603.263	3	18046.108	-	23649.372	-1	.	.	4.0-	4.0	.	.	.	0.694	0.000*	0	-130	-131	17841.8716	
1	5602.572	3	19558.257	-	25160.827	2	.	.	2.0-	3.0	.	.	.	-0.145	0.800	945	225	222	17844.0722	
1	5600.462	2	18502.595	-	24202.966	1	.	.	6.0-	5.0	.	.	.	0.910	1.012	102	223	225	17850.7950	
1	5599.952	3	22518.312	-	28118.262	2	.	.	2.0-	3.0	.	.	.	1.350	1.250*	100	212	210	17852.4207	
1	5598.972	4	19059.958	-	24658.931	-1	.	.	5.0-	4.0	.	.	.	1.375	1.080	295	-072	-73	17855.5455	
1	5598.519	4	12177.963	-	17776.483	-1	.	.	1.0-	2.0	.	.	.	0.525	0.565	40	-157	-158	17856.9903	
1	5598.377	1H	26203.495	-	31931.871	1	.	.	7.0-	7.0	.	.	.	1.080	1.120	40		104	17857.4432	
1	5598.290	3	27334.422	-	21736.133	1	.	.	7.0-	7.0	.	.	.	1.240	0.000*	0	148	148	17857.7207	
	5593.653	2																	17872.5243	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5591.925	3	21337.573	-	15745.648	0	.	.	4.0-	3.0	.	.	.	1.137	1.145	8	342	342	17878.0473	
1	5590.839	1	24780.935	-	30371.819	5	.	.	2.0-	3.0	.	.	.	0.830	0.640*	190		-210	17881.3601	
1	5590.266	1	27054.840	-	32645.106	0	.	.	4.0-	5.0	.	.	.	1.225	1.135	90	000	-1	17883.3529	IS*
1	5590.129	2	29606.506	-	24016.378	1	.	.	5.0-	5.0	.	.	.	0.000	1.560*	0	152	153	17883.7911	
1	5586.677	2	23763.470	-	29350.139	8	.	.	4.0-	3.0	.	.	.	0.970	0.910*	60	-047	-48	17894.8415	
1	5584.840	2	28036.676	-	22451.834	-2	.	.	6.0-	5.0	.	.	.	1.216	0.000*	0	212	215	17900.7276	
1	5582.270	2	26872.321	-	21290.050	-1	.	.	1.0-	2.0	.	.	.	2.690	0.000*	0	139	137	17908.9689	
1	5581.333	3	24437.792	-	18856.461	2	.	.	4.0-	5.0	.	.	.	1.500	1.325*	175	322	321	17911.9754	
1	5580.784	1	13726.661	-	19307.447	-2	.	.	3.0-	4.0	.	.	.	1.150	0.000*	0	-148	-146	17913.7375	
	5580.175	1					.	.			.	.	.				95		17915.6925	ISQ
1	5577.084	2	27068.524	-	21491.439	-1	.	.	3.0-	3.0	.	.	.	0.960	0.000*	0	283	283	17925.6220	
1	5575.304	3	12322.613	-	17897.917	0	.	.	2.0-	3.0	.	.	.	1.036	0.450	586	32	38	17931.3450	IS*
1	5573.208	4	8768.139	-	14341.947	0	.	.	2.0-	2.0	.	.	.	0.362	0.852	490	-401	-401	17936.1578	
1	5571.458	1	28023.294	-	22451.834	-2	.	.	4.0-	5.0	.	.	.	1.240	0.000*	0	227	228	17943.7231	
1	5566.755	2	24751.439	-	30318.195	-1	.	.	1.0-	2.0	.	.	.	0.647	0.940	293		-43	17958.8827	
1	5566.691	2	22176.323	-	27743.009	5	.	.	1.0-	2.0	.	.	.	1.210	0.568*	642	190	191	17959.0891	IS*
1	5565.040	2	30319.724	-	24753.684	0	.	.	3.0-	4.0	.	.	.	1.010	0.975	35	-115	-110	17961.1896	
1	5565.763	4	22389.053	-	17323.291	1	.	.	4.0-	4.0	.	.	.	1.263	1.250*	13	353	353	17962.0835	
1	5564.420	1	19074.292	-	24638.713	-1	.	.	2.0-	2.0	.	.	.	1.532	0.000*	0	-194	-199	17966.4188	
1	5564.260	2	19203.415	-	24767.674	1	.	.	2.0-	2.0	.	.	.	1.021	1.455	434	-372	-358	17966.9354	
1	5563.724	1	15424.387	-	20988.110	1	.	.	3.0-	4.0	.	.	.	1.106	1.374	268		-397	17968.6663	
1	5563.473	2	17615.482	-	23178.955	0	.	.	2.0-	1.0	.	.	.	1.450	1.130*	320	-354	-356	17969.4770	
1	5563.403	3	27054.840	-	21491.439	2	.	.	4.0-	3.0	.	.	.	1.225	0.000*	0	139	140	17969.7031	
1	5562.819	2	24653.345	-	30216.163	1	.	.	1.0-	2.0	.	.	.	0.860	1.143*	283	-032	-32	17971.5896	IS*
1	5561.882	2	25706.036	-	31267.919	-1	.	.	2.0-	3.0	.	.	.	1.290	1.080	210	126	128	17974.6172	
1	5561.357	3	24188.639	-	18627.281	-1	.	.	1.0-	1.0	.	.	.	0.667	0.000*	0	160	162	17976.3140	
	5561.278	2					.	.			.	.	.				132		17976.5694	
	5558.677	1					.	.			.	.	.				80		17984.9810	
1	5556.010	2	24648.621	-	30204.635	-4	.	.	0.0-	1.0	.	.	.	0.000	0.590*	0	32	37	17993.6141	IS*
1	5555.444	1	26885.388	-	32440.827	5	.	.	5.0-	6.0	.	.	.	1.055	1.120*	65	22	29	17995.4474	IS*
1	5555.120	1	24816.699	-	30371.819	0	.	.	2.0-	3.0	.	.	.	1.165	0.640	525	-044	-45	17996.4969	IS*
1	5552.391	2	24091.173	-	18538.782	0	.	.	3.0-	2.0	.	.	.	1.245	1.600	355	072	70	18005.3422	
2	5550.864	2	19277.180	-	13726.318	2	.	.	3.5-	2.5	.	.	.	0.847	0.784	63	377	378	18010.2954	
1	5549.728	1	16532.104	-	22081.891	1	.	.	3.0-	4.0	.	.	.	0.300	0.000*	0	057	58	18013.7872	
1	5549.396	4	25328.907	-	19779.507	-4	.	.	3.0-	4.0	.	.	.	1.340	0.000*	0	079	80	18015.0597	
1	5549.051	2	14053.317	-	20402.369	-1	.	.	4.0-	3.0	.	.	.	0.786	1.265*	479	-071	-70	18016.1797	
1	5547.432	3	22181.368	-	27728.796	4	.	.	3.0-	3.0	.	.	.	0.780	1.060*	280	086	84	18021.4377	
1	5546.899	2	22429.984	-	27976.881	2	.	.	4.0-	3.0	.	.	.	1.279	1.080	199	87	82	18023.1694	
1	5546.046	5	19074.292	-	13528.246	0	.	.	2.0-	1.0	.	.	.	1.532	0.590*	2122	197	197	18025.9414	
2	5540.684	2	24206.690	-	18666.006	0	.	.	1.5-	2.5	.	.	.	0.863	1.365	502	189	191	18043.3860	
1	5540.436	3	27096.974	-	21556.538	0	.	.	4.0-	4.0	.	.	.	1.180	1.290*	110	254	253	18044.1937	
	5540.412	2H					.	.			.	.	.						18044.2718	
1	5540.034	3	27781.032	-	33321.067	-1	.	.	6.0-	5.0	.	.	.	1.250	1.200*	50		40	18045.5030	
1	5538.727	2	23315.209	-	17776.483	1	.	.	2.0-	2.0	.	.	.	1.335	0.565	770	-068	-70	18049.7613	
1	5537.271	2	17615.482	-	23152.755	-2	.	.	2.0-	2.0	.	.	.	1.450	0.580	870	-349	-349	18054.5074	
1	5536.597	3	27301.283	-	21764.690	-1	.	.	4.0-	5.0	.	.	.	0.985	0.000*	0	208	206	18055.7053	
1	5531.460	2	24153.741	-	18627.281	0	.	.	2.0-	1.0	.	.	.	1.240	0.000*	0	118	117	18073.4744	
1	5530.556	5	18672.411	-	24202.966	1	.	.	6.0-	5.0	.	.	.	1.190	1.012*	178	-008	-6	18076.4286	IS*
1	5528.280	3	23100.837	-	17572.608	1	.	.	3.0-	2.0	.	.	.	1.520	0.555	965	30	31	18083.8707	IS*
1	5526.806	2	22818.840	-	28345.647	-1	.	.	6.0-	6.0	.	.	.	1.335	0.000*	0	-349	-346	18088.6936	
	5526.478	2					.	.			.	.	.				10		18089.7672	IS*
1	5524.590	4	24381.050	-	18856.461	1	.	.	5.0-	5.0	.	.	.	1.450	1.325*	125	116	116	18095.9493	
1	5523.715	1	22837.092	-	20350.802	5	.	.	3.0-	3.0	.	.	.	1.110	0.887*	223		-96	18098.8158	
1	5517.743	5	25339.917	-	20322.165	-4	.	.	6.0-	6.0	.	.	.	1.250	1.360*	110	271	271	18118.3883	
	5515.575	2					.	.			.	.	.				071		18125.5265	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5513.802	4	22837.092-17323.291			1	.	.	3.0-	4.0	.	.	.	1.110	1.250*	140	368	367	18131.3549	
1	5509.575	4	23274.853-17765.281			-1	.	.	4.0-	3.0	.	.	.	1.604	1.680*	76	154	162	18145.2621	
1	5509.060	2	22219.737-27728.796			1	.	.	4.0-	3.0	.	.	.	0.750	1.060	310	108	109	18146.9617	
1	5505.221	2	25209.152-30714.385			-2	.	.	5.0-	4.0	.	.	.	1.140	1.150*	10	-064	-66	18159.6163	
1	5500.005	2	24613.274-30113.280			-1	.	.	5.0-	6.0	.	.	.	1.160	1.050	110	094	90	18176.8382	
	5498.690	1					.	.			.	.	.						18181.1852	
1	5498.304	4	27054.840-21556.538			2	.	.	4.0-	4.0	.	.	.	1.225	1.290	65	163	164	18182.4615	
1	5496.131	2	20709.458-26205.589			0	.	.	3.0-	3.0	.	.	.	1.240	0.701	539	28	36	18189.6503	IS*
	5495.239	2					.	.			.	.	.				146		18192.6029	
2	5494.280	2	12992.644-7498.364			0	.	.	2.5-	2.5	.	.	.	0.643	1.321	678	185	185	18195.7783	
1	5491.170	1	24903.894-30395.062			2	.	.	3.0-	4.0	.	.	.	0.915	0.920	5	-111	-111	18206.0838	
1	5490.809	3	31197.417-25706.606			-2	.	.	7.0-	7.0	.	.	.	0.000	0.000*	0	188	188	18207.2808	
2	5488.563	2	22652.035-17163.470			-2	.	.	3.5-	4.5	.	.	.	1.185	1.200	15	450	460	18214.7315	IS*
1	5487.879	2	24149.361-29637.242			-2	.	.	5.0-	6.0	.	.	.	1.262	1.020	242	-	-15	18217.0017	
1	5486.781	3	16595.109-22081.891			-1	.	.	3.0-	4.0	.	.	.	0.999	0.000*	0	-112	-113	18220.6473	
1	5482.576	2	11840.715-17323.291			0	.	.	3.0-	4.0	.	.	.	0.811	1.250*	439	-395	-398	18234.6221	
1	5482.147	3	21227.793-15745.648			2	.	.	4.0-	3.0	.	.	.	1.346	1.145	201	299	299	18236.0490	
1	5478.592	1	23315.209-28793.800			1	.	.	2.0-	3.0	.	.	.	1.335	1.083	252	-060	-62	18247.8822	IS*
1	5478.268	3	28951.847-23473.585			6	.	.	5.0-	6.0	.	.	.	1.290	0.000*	0	142	143	18248.9614	
1	5476.229	4	23814.130-29290.355			4	.	.	6.0-	6.0	.	.	.	0.890	0.920	30	044	46	18255.7562	
	5474.446	2					.	.			.	.	.				091		18261.7020	
1	5473.631	1	19959.027-25432.655			3	.	.	1.0-	2.0	.	.	.	0.760	1.281*	521		332	18264.4211	
1	5473.405	4	24816.699-19343.298			4	.	.	2.0-	3.0	.	.	.	1.165	1.135	30	178	177	18265.1752	
1	5473.249	1	26301.732-20328.475			-8	.	.	5.0-	4.0	.	.	.	1.060	0.352*	708	-004	-5	18265.6958	
1	5472.534	4	21218.180-15745.648			2	.	.	3.0-	3.0	.	.	.	0.860	1.145	285	385	383	18268.0823	
1	5472.360	1	26572.295-32044.652			4	.	.	2.0-	1.0	.	.	.	1.014	0.800	214	000	-1	18268.6631	
1	5469.228	2	29118.602-23649.372			-2	.	.	4.0-	4.0	.	.	.	1.510	0.000*	0		148	18279.1249	
1	5468.324	2	24742.092-30210.416			0	.	.	4.0-	4.0	.	.	.	0.980	1.160*	180	-065	-65	18282.1467	
1	5465.655	2	28595.083-23129.429			-4	.	.	6.0-	5.0	.	.	.	1.200	1.168*	32	90	85	18291.0743	IS*
1	5465.465	3	29209.020-23743.557			2	.	.	7.0-	6.0	.	.	.	1.390	0.000*	0	107	106	18291.7101	
1	5464.824	2	23037.432-17572.608			0	.	.	1.0-	2.0	.	.	.	0.870	0.555	315	359	359	18293.8557	
1	5463.101	2	22509.712-27972.815			-2	.	.	5.0-	4.0	.	.	.	1.287	0.979	308	-024	-26	18299.6254	IS*
1	5461.077	2	21737.407-16276.332			2	.	.	3.0-	2.0	.	.	.	1.026	1.880*	854	166	165	18306.4076	
1	5459.493	1	29108.855-23649.372			0	.	.	5.0-	4.0	.	.	.	1.210	0.000*	0	165	171	18311.7190	
1	5459.135	2	23550.352-29009.483			4	.	.	3.0-	4.0	.	.	.	1.090	0.695*	395	066	68	18312.9198	
1	5458.572	2	22518.312-27976.881			3	.	.	2.0-	3.0	.	.	.	1.350	1.080	270	096	96	18314.8086	
1	5457.974	1	29914.927-24456.948			-5	.	.	3.0-	3.0	.	.	.	1.194	0.000*	0	199	200	18316.8153	
1	5457.690	1	27909.524-22451.834			0	.	.	4.0-	5.0	.	.	.	1.270	0.000*	0	166	167	18317.7684	
1	5456.672	3	30375.227-24918.555			0	.	.	6.0-	6.0	.	.	.	1.320	0.000*	0	107	107	18321.1858	
1	5455.869	1	28467.436-23011.570			3	.	.	5.0-	4.0	.	.	.	1.210	0.000*	0	135	137	18323.8824	
1	5453.870	4	12322.613-17776.483			0	.	.	2.0-	2.0	.	.	.	1.036	0.565	471	-163	-162	18330.5986	
1	5452.574	2	22518.312-27970.881			5	.	.	2.0-	2.0	.	.	.	1.350	0.194	1156	20	23	18334.9555	IS*
1	5451.765	2	27216.458-21764.690			-3	.	.	5.0-	5.0	.	.	.	1.180	0.000*	0	326	322	18337.6763	
1	5451.441	1	23281.721-28733.159			3	.	.	5.0-	4.0	.	.	.	1.235	1.035	200	096	100	18338.7662	
1	5450.649	1	25828.024-31278.667			6	.	.	4.0-	5.0	.	.	.	1.310	1.010*	300	186	186	18341.4309	
	5447.973	1					.	.			.	.	.				-318		18350.4400	
1	5442.669	1	12322.613-17765.281			1	.	.	2.0-	3.0	.	.	.	1.036	1.680*	644	-406	-404	18368.3230	
1	5439.843	1	25083.129-30522.971			1	.	.	5.0-	6.0	.	.	.	1.160	0.000*	0	-385	-376	18377.8653	
1	5437.638	2	24780.935-19343.298			1	.	.	2.0-	3.0	.	.	.	0.830	1.135*	305	342	342	18385.3177	
1	5436.078	4	20769.512-26205.589			1	.	.	2.0-	3.0	.	.	.	1.070	0.701*	369	094	92	18390.5937	
1	5435.348	1	22088.306-27523.650			4	.	.	6.0-	6.0	.	.	.	1.060	1.080	20	120	119	18393.0637	
1	5433.162	4	15856.883-21290.050			0	.	.	1.0-	2.0	.	.	.	1.103	0.000*	0	-342	-342	18400.4641	
1	5427.857	3	27979.161-22551.302			-2	.	.	2.0-	3.0	.	.	.	1.185	0.000*	0	131	128	18418.4481	
1	5424.693	2	9724.351-4299.659			1	.	.	3.0-	2.0	.	.	.	0.442	1.482	1040	182	184	18429.1908	
1	5421.166	2	22307.633-27728.796			3	.	.	3.0-	3.0	.	.	.	1.434	1.060	374	-016	-16	18441.1808	IS*

C	WAVELENGTH	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		WAVELENGTH	NOTES
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	5420.827	3	23413.710-28934.535	2	. . .	4.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18442.3340	IS*
1	5417.404	2	28390.990-23473.585	-1	. . .	7.0- 6.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18453.9869	
1	5417.083	1	19236.116-24653.200	-1	. . .	7.0- 6.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18455.0804	
1	5412.720	3	25192.231-19779.507	-4	. . .	4.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18469.9564	IS*
1	5410.296	2	22932.904-17572.608	0	. . .	2.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18478.2316	
2	5406.105	3	19397.055-13990.952	2	. . .	0.5- 1.5	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18492.5566	
1	5405.489	4	16304.260-21709.745	4	. . .	4.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18494.6640	IS*
1	5403.272	3	26394.711-21491.439	0	. . .	3.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18502.2524	
1	5399.852	2	24158.741-29558.591	2	. . .	2.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18513.9709	2LNS
1	5399.852	3	21031.258-26431.101	9	. . .	2.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18513.9709	2LNS
	5398.766	2																	18517.6951	
1	5396.665	5	22719.949-17323.291	7	. . .	4.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18524.9043	
1	5395.222	4	25717.388-20322.165	-1	. . .	5.0- 6.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18529.8590	
1	5394.644	4	12177.963-17572.608	-1	. . .	1.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18531.8443	
1	5392.861	3	19558.257-24951.118	0	. . .	2.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18537.9714	
1	5390.731	2	28749.920-23359.187	-2	. . .	2.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18545.2961	
1	5390.539	1	30319.724-24929.184	-1	. . .	3.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18545.9567	IS*
1	5390.182	3	23814.130-29204.308	4	. . .	6.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18547.1850	IS*
1	5389.854	4	25323.907-19939.052	-1	. . .	3.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18548.3137	
1	5386.934	1	28555.887-23178.955	2	. . .	2.0- 1.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18558.3679	
1	5384.175	1	28513.607-23129.429	-3	. . .	5.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18567.8777	
	5381.312	3																	18577.7563	
1	5379.437	1	19203.415-24582.849	3	. . .	2.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18584.2316	IS*
	5379.022	2																	18585.6654	
1	5375.330	3	18591.122-23966.450	2	. . .	4.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18598.4308	
1	5375.183	2	22429.984-27805.163	4	. . .	4.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18598.9394	
1	5371.893	2	29021.267-23549.372	-2	. . .	4.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18610.3303	
1	5371.380	2	24644.996-30016.377	-1	. . .	3.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18612.1077	
	5369.849	1																	18617.4142	
	5366.568	1																	18628.7965	
	5364.514	1																	18635.9292	
1	5363.486	2	28385.761-23022.274	-1	. . .	6.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18639.5011	
	5358.524	2																	18656.7613	
1	5357.587	3	26374.994-31732.582	-1	. . .	4.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18660.0243	
1	5357.425	1	26235.388-32242.810	3	. . .	5.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18660.5885	
	5352.074	2																	18679.2454	
1	5351.351	1	19959.027-25310.375	3	. . .	1.0- 0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18681.7690	
1	5346.222	2	27755.977-22409.753	-2	. . .	3.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18699.6918	
1	5343.898	2	30262.453-24918.555	0	. . .	6.0- 6.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18707.8241	2 LNS
	5343.898	2																	18707.8241	2 LNS
1	5342.701	2	31049.306-25706.606	1	. . .	7.0- 7.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18712.0154	
1	5341.162	3	19426.512-24767.674	0	. . .	3.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18717.4071	
1	5340.430	1	29356.804-24016.378	4	. . .	5.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18719.9727	
1	5335.606	3	23100.887-17765.281	0	. . .	3.0- 3.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18736.8977	
	5334.742	2																	18739.9323	
1	5332.281	2	27096.974-21764.690	-3	. . .	4.0- 5.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18748.5813	
1	5331.017	2	23207.126-28533.133	5	. . .	8.0- 7.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18753.0266	IS*
1	5329.618	2	26317.729-20923.110	-1	. . .	4.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18757.9492	IS*
1	5328.848	3	25285.388-21556.538	-2	. . .	5.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18760.6597	
1	5326.879	2	31540.119-26213.253	3	. . .	7.0- 7.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18767.5238	ISQ
1	5324.057	1	20769.512-26093.563	6	. . .	2.0- 1.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18777.5420	
	5323.012	2H																	18781.2284	
1	5322.722	2	22509.712-27832.430	4	. . .	5.0- 4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18782.2516	IS*
	5322.503	2																	18783.0244	IS*
1	5321.777	2	21515.136-26836.911	2	. . .	1.0- 2.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18785.5868	

C	WAVELENGTH	I	T2	-	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5321.188	2	16734.151-22055.339	0				2.0- 3.0				0.928	0.000*	0	-382	-381	18787.6662	
1	5319.450	3	23413.710-22733.159	11				4.0- 4.0				0.000	1.035*	0	4	2	18793.7693	IS* CQ
1	5318.572	1	30612.323-25233.751	0				3.0- 3.0				1.408	0.965	443	102	102	18796.9071	
1	5314.747	3	25636.914-20322.165	-2				6.0- 6.0				1.335	1.360*	25	164	164	18310.4352	
1	5313.810	2	25209.162-30522.971	1				5.0- 6.0				1.140	0.000*	0		-347	18813.7521	
1	5312.699	2	26664.150-31976.844	5				6.0- 7.0				1.135	1.095	40	28	29	18817.6865	IS*
1	5306.534	2	26575.338-31291.871	1				7.0- 7.0				1.150	1.120*	30	-024	-27	18339.5484	IS*
1	5306.478	2	30375.227-25068.751	2				6.0- 7.0				1.320	0.000*	0	110	109	18839.7472	IS*
1	5305.382	2	18897.584-24202.966	0				5.0- 5.0				1.280	1.012	268	-010	-10	18843.6392	IS*
1	5295.227	4	19865.603-25160.827	3				4.0- 3.0				1.100	0.800	300	0	-14	18879.7769	IS*
1	5295.078	5	25074.585-19779.507	0				4.0- 4.0				1.507	0.000*	0	63	62	18880.3082	
1	5294.724	3	23909.585-29204.308	1				5.0- 5.0				1.242	0.896	346	-101	-100	18881.5705	
1	5293.649	1	17045.776-22339.429	-4				1.0- 2.0				1.474	1.049	425	91	96	18885.4048	
1	5292.902	6	24149.361-18356.461	2				5.0- 5.0				1.262	1.325	63	209	209	18888.0702	
	5292.634	1															18888.8482	
1	5292.145	2	21515.136-26807.278	3				1.0- 1.0				1.180	0.550*	630	-334	-331	18390.7720	
1	5292.004	2	28470.960-23178.955	-1				2.0- 1.0				1.104	1.130*	26	113	113	18891.2753	
1	5287.630	2	26844.163-21556.538	5				4.0- 4.0				1.020	1.290	270	281	283	18906.9024	
1	5287.568	3	25959.849-20672.283	2				1.0- 2.0				1.037	1.430*	393	203	204	18907.1241	
1	5285.612	5	21031.253-15745.648	2				2.0- 3.0				1.455	1.145	310	088	86	18914.1209	
1	5283.661	2	23951.847-23568.184	-2				5.0- 4.0				1.290	0.940*	350	-136	-136	18921.1050	
1	5281.637	1	20425.711-25707.348	0				1.0- 2.0				1.340	0.720	620	120	119	18928.3558	
1	5231.174	1	22837.092-23118.262	4				3.0- 3.0				1.110	1.250*	140	+	2	18930.0153	
1	5277.848	1	24012.505-29290.355	-2				6.0- 6.0				1.248	0.920	328	-115	-112	18941.9446	
1	5272.046	2	18346.917-23618.964	-1				2.0- 3.0				1.518	0.000*	0	-296	-295	18962.7907	
1	5270.551	1	26258.661-20928.110	0				3.0- 4.0				0.965	1.374	409	226	227	18968.1695	
1	5267.070	2	28146.024-23178.955	1				1.0- 1.0				0.745	1.130*	385	146	144	18980.7056	
1	5265.727	2	22705.158-27970.881	4				1.0- 2.0				-0.020	0.194*	214	-020	-22	18985.5465	IS*
1	5265.521	3	15406.760-20672.283	-2				1.0- 2.0				0.890	1.430*	540	-352	-352	18986.2893	
1	5265.179	2	25044.687-19779.507	-1				4.0- 4.0				1.210	0.000*	0	344	348	18987.5225	IS*
1	5264.485	1	22837.092-17572.608	1				3.0- 2.0				1.110	0.555*	555	344	343	18990.0256	
	5262.744	2															18996.3078	
1	5262.656	4	16155.109-21417.765	0				5.0- 4.0				0.948	0.802	146	32	34	18996.6255	IS*
1	5258.972	2	24091.173-23350.139	6				3.0- 3.0				1.245	0.910	335	103	103	19009.9329	
1	5255.872	2	22176.323-27432.195	0				1.0- 1.0				1.210	1.130*	80		-128	19021.1453	
1	5255.714	2H	23578.836-28334.535	15				5.0- 5.0				1.120	0.978*	142	+	39	19021.7171	IS* 2LNS
1	5255.714	2H	24090.570-29346.299	-15				7.0- 7.0				1.130	1.200*	70	158	153	19021.7171	IS* 2LNS
1	5253.967	2	27705.804-22451.834	-3				5.0- 5.0				1.160	0.000*	0	237	235	19028.0421	
	5253.791	2													15		19028.6795	IS*
	5252.136	2													372		19034.6756	
	5250.702	1															19039.8741	
1	5249.529	7	29901.880-24652.353	2				8.0- 9.0				1.450	0.000*	0	043	43	19044.1286	
1	5242.289	3	32126.115-26943.829	3				4.0- 5.0				1.212	1.220	8	-038	-37	19070.4300	
1	5240.950	2	24644.996-29335.947	-1				3.0- 3.0				1.195	1.330*	135	-267	-268	19075.3022	
	5240.516	2															19076.8820	
1	5239.867	2	21703.960-26943.829	-2				5.0- 5.0				1.120	1.220	100	-219	-220	19079.2448	
1	5239.045	3	18963.921-24202.966	0				4.0- 5.0				1.251	1.012	239	+	7	19082.2383	
1	5238.806	3	21515.136-16276.332	2				1.0- 2.0				1.180	1.880*	700	328	328	19083.1089	
1	5236.968	3	28890.990-34127.955	3				7.0- 8.0				1.272	1.185	87	066	62	19089.8064	
2	5235.247	2	17242.750-12007.503	0				2.5- 1.5				1.200	-0.019*	1219	476	476	19096.0819	
1	5232.418	3	19426.512-24558.931	-1				3.0- 4.0				1.435	1.090	355	035	42	19106.4065	IS*
2	5227.776	1	25403.645-20175.895	26				2.5- 3.5				1.029	1.515	486	340	340	19123.3721	
1	5227.356	3	23766.136-18539.782	2				1.0- 2.0				2.162	1.600	562	016	17	19124.9086	IS*
1	5222.915	3	15449.472-20572.390	-3				0.0- 1.0				0.000	0.000*	0	-101	-102	19141.1703	
	5222.666	3													000		19142.0829	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVE	LENGTH	NOTES	
1	5220.387	3		22416.990	-	27637.377	0	.	.	2.0-	1.0	.	.	.	1.675	1.280	395	+	11	19150.4395			
	5219.848	1						.	.			.	.	.				-005		19152.4170		IS*
1	5219.378	2		28320.548	-	23601.171	1	.	.	0.0-	1.0	.	.	.	0.000	0.565	0	-049	-58*	19154.1417			
	5218.360	2						.	.			.	.	.						19157.8783		
1	5217.724	2		26654.150	-	31881.871	3	.	.	6.0-	7.0	.	.	.	1.135	1.120	15	47	46	19160.2135			
1	5217.621	2		22922.904	-	17765.281	-2	.	.	2.0-	3.0	.	.	.	1.257	1.680*	423	336	335	19160.5917			
1	5216.312	3		19550.257	-	14341.947	2	.	.	2.0-	2.0	.	.	.	-0.145	0.852	997	163	163	19165.3999			
1	5215.231	3		23281.721	-	20496.950	2	.	.	5.0-	4.0	.	.	.	1.235	0.810	425	8	7	19169.3725		IS*	
	5213.917	1H						.	.			.	.	.						19174.2035		
1	5213.808	2		23032.853	-	23618.964	-1	.	.	2.0-	3.0	.	.	.	0.000	0.000*	0	206	203	19174.3102			
1	5211.959	2		31425.212	-	26213.253	0	.	.	7.0-	7.0	.	.	.	1.170	0.000*	0	264	264	19181.4068			
1	5210.486	3		22518.312	-	27728.796	2	.	.	2.0-	3.0	.	.	.	1.350	1.060	290	111	111	19186.8294			
1	5207.531	3		27975.402	-	33182.933	0	.	.	7.0-	6.0	.	.	.	1.017	1.050	33	070	64	19197.7169			
	5202.540	3H						.	.			.	.	.						19216.1340		
2	5200.554	3		26689.110	-	15488.530	-26	.	.	3.5-	3.5	.	.	.	1.270	1.057*	213	464	464	19223.4723			
1	5199.788	2		24090.570	-	29290.355	3	.	.	7.0-	6.0	.	.	.	1.130	0.920	210	24	24	19226.3042		IS*	
1	5198.402	3		25870.685	-	20672.283	0	.	.	2.0-	2.0	.	.	.	1.170	1.430*	260	170	172	19231.4303			
1	5198.295	3		25070.685	-	20672.390	0	.	.	2.0-	1.0	.	.	.	1.170	0.000*	0	172	175	19231.8262			
1	5194.235	1		31199.300	-	36393.534	1	.	.	9.0-	10.0	.	.	.	0.000	1.150*	0	043	42	19246.8585			
1	5193.701	2		30262.453	-	25368.751	-1	.	.	6.0-	7.0	.	.	.	1.284	0.000*	0	138	142	19248.8374			
1	5192.207	2		29568.328	-	34760.532	3	.	.	7.0-	6.0	.	.	.	0.000	1.140*	0	045	47	19254.3760			
1	5190.963	4		24970.474	-	19779.507	-4	.	.	4.0-	4.0	.	.	.	1.460	0.000*	0	167	168	19258.9903			
1	5189.271	2		21218.180	-	25407.449	2	.	.	3.0-	2.0	.	.	.	0.860	0.972	112	-186	-186	19265.2698			
1	5188.641	1		26606.405	-	21417.765	1	.	.	5.0-	4.0	.	.	.	1.130	0.802*	328	-244	-240	19267.6090			
1	5186.421	2		22509.712	-	17323.291	0	.	.	5.0-	4.0	.	.	.	1.287	1.250*	37	343	343	19275.8563			
1	5184.601	2		31425.212	-	26240.609	-2	.	.	7.0-	8.0	.	.	.	1.170	0.000*	0	+	239	19282.6229		ISQ	
1	5182.807	2		23550.352	-	28733.159	0	.	.	3.0-	4.0	.	.	.	1.090	1.035*	55	138	137	19289.2975			
	5182.585	1						.	.			.	.	.						19290.1238		
1	5181.893	3		23720.664	-	19538.782	1	.	.	3.0-	2.0	.	.	.	0.790	1.600*	810	126	127	19292.7371			
1	5177.641	3		16532.104	-	21709.745	0	.	.	3.0-	3.0	.	.	.	0.300	0.980	680	232	232	19308.5435			
1	5176.858	2		23895.741	-	18718.822	-1	.	.	2.0-	2.0	.	.	.	-0.100	0.504*	604	-211	-222	19311.4639			
1	5174.331	2		21031.258	-	26205.589	0	.	.	2.0-	3.0	.	.	.	1.455	0.701	754	122	120	19320.8951			
1	5172.260	2		29810.974	-	24638.713	-1	.	.	3.0-	2.0	.	.	.	1.184	0.000*	0	131	131	19328.6313			
1	5161.884	1		19203.415	-	24365.295	4	.	.	2.0-	3.0	.	.	.	1.021	1.475	454	-349	-357	19367.4841			
1	5161.543	2		25100.598	-	19939.052	-3	.	.	2.0-	3.0	.	.	.	1.430	0.000*	0	160	159	19368.7637			
	5160.016	1										085		19374.4955		ISQ
1	5157.309	1		27415.500	-	32572.811	-2	.	.	5.0-	5.0	.	.	.	1.370	1.010*	360		36	19384.6649			
1	5156.048	2		24012.505	-	18956.461	4	.	.	6.0-	5.0	.	.	.	1.248	1.325	77	304	311	19389.4057		IS*	
1	5152.732	3		15249.635	-	20402.369	-2	.	.	2.0-	3.0	.	.	.	0.715	1.265*	550	-144	-145	19401.8836			
1	5152.252	2		26708.790	-	21556.538	0	.	.	3.0-	4.0	.	.	.	0.855	1.290	435	174	169	19403.6912		IS*	
1	5151.335	1		24824.706	-	29776.039	2	.	.	4.0-	4.0	.	.	.	1.145	1.070	75		-86	19407.1453			
1	5147.433	1		28890.990	-	23743.557	0	.	.	7.0-	6.0	.	.	.	1.272	0.000*	0	204	205	19421.8568			
1	5144.651	5		21420.983	-	16276.332	0	.	.	3.0-	2.0	.	.	.	1.663	1.880*	217	202	202	19432.3593			
	5144.141	2H						.	.			.	.	.						19434.2859		
1	5143.008	3		19059.958	-	24202.966	0	.	.	5.0-	5.0	.	.	.	1.375	1.012	363	-008	-10	19438.5672		IS*	
1	5140.994	3		24149.351	-	29290.355	0	.	.	5.0-	6.0	.	.	.	1.262	0.920	342	-008	-10	19446.1824		IS*	
1	5139.544	3		26696.093	-	21556.538	-1	.	.	5.0-	4.0	.	.	.	1.315	1.290	25	134	134	19451.6686			
1	5138.853	5		23766.136	-	18627.281	3	.	.	1.0-	1.0	.	.	.	2.162	0.000*	0	071	71	19454.2653			
	5138.392	2										195		19456.0296		
1	5133.013	2		24091.173	-	29229.190	1	.	.	3.0-	4.0	.	.	.	1.245	1.480*	235	-109	-109	19457.4458			
1	5137.813	1		28738.988	-	23501.171	-4	.	.	1.0-	1.0	.	.	.	1.892	0.565	1327		34	19458.2222			
1	5135.535	4		25074.585	-	19939.052	2	.	.	4.0-	3.0	.	.	.	1.507	0.000*	0	073	75	19466.8534			
1	5133.206	1		21227.793	-	26360.997	2	.	.	4.0-	5.0	.	.	.	1.346	0.796	550		-141	19475.6858			
1	5132.550	2		22705.153	-	17572.608	0	.	.	1.0-	2.0	.	.	.	-0.020	0.555*	575	186	180	19478.1750		IS*	
1	5131.145	2		21812.682	-	26943.829	-2	.	.	4.0-	5.0	.	.	.	1.040	1.220	180	-061	-64	19483.5085			

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5130.339	2	24437.792	-	19307.447	-6	.	.	4.0-	4.0	.	.	.	1.500	0.000*	0	.	69	19486.5694	
1	5127.332	2	23636.914	-	30764.244	2	.	.	6.0-	6.0	.	.	.	1.335	0.975	360	+	0	19497.9976	
	5126.574	2					.	.			.	.	.					347	19500.8305	
1	5126.432	3	27536.236	-	22409.753	-1	.	.	3.0-	2.0	.	.	.	1.355	1.413	58	.	216	19501.2305	
1	5125.601	3	25064.653	-	19939.052	0	.	.	3.0-	3.0	.	.	.	0.980	0.000*	0	.	157	19504.5824	
1	5122.727	1	26894.711	-	32017.434	4	.	.	3.0-	4.0	.	.	.	1.465	1.020*	445	-	040	19515.5251	
1	5121.503	3	28595.088	-	23473.585	0	.	.	6.0-	6.0	.	.	.	1.200	0.000*	0	.	114	19520.1891	
1	5120.693	4	26885.388	-	21764.690	-5	.	.	5.0-	5.0	.	.	.	1.055	0.000*	0	.	125	19523.2769	
1	5119.063	2	22518.312	-	27637.377	-2	.	.	2.0-	1.0	.	.	.	1.350	1.280	70	+	3	19529.4934	
1	5118.789	2	18397.584	-	24016.378	-5	.	.	5.0-	5.0	.	.	.	1.280	1.560	280	-	390	19530.5388	
1	5116.459	2	26894.711	-	32011.173	-3	.	.	3.0-	3.0	.	.	.	1.465	1.140*	325	.	024	19539.4329	
	5115.784	2					.	.			.	.	.					165	19542.0110	
1	5115.563	2	25100.598	-	30216.163	-2	.	.	2.0-	2.0	.	.	.	1.430	1.143	287	.	032	19542.8553	
1	5114.633	1	16595.109	-	21709.745	-3	.	.	3.0-	3.0	.	.	.	0.999	0.980	19	.	060	19546.4088	
1	5113.505	3	16304.260	-	21417.765	0	.	.	4.0-	4.0	.	.	.	1.285	0.802	483	+	30	19550.7206	
1	5112.892	2	22429.984	-	27542.874	2	.	.	4.0-	5.0	.	.	.	1.279	1.270*	9	.	-51	19553.0645	
1	5112.629	1	24970.474	-	30083.102	1	.	.	4.0-	5.0	.	.	.	1.460	1.150*	310	.	020	19554.0704	
1	5112.154	1	23241.585	-	23129.429	-2	.	.	5.0-	5.0	.	.	.	1.180	1.168	12	.	179	19555.8873	IS*
1	5111.933	1	21337.573	-	26449.501	5	.	.	4.0-	3.0	.	.	.	1.137	0.940*	197	.	-215	19556.7327	
1	5111.766	3	28470.960	-	23359.187	-7	.	.	2.0-	3.0	.	.	.	1.104	1.030*	74	.	070	19557.3716	
1	5110.301	1	17911.977	-	23022.274	4	.	.	5.0-	5.0	.	.	.	1.145	0.817	328	.	-225	19562.9783	
	5107.049	2					.	.			.	.	.						19575.4353	
1	5106.693	6	22429.984	-	17323.291	0	.	.	4.0-	4.0	.	.	.	1.279	1.250*	29	.	173	19576.8000	
1	5105.195	2	24816.699	-	29921.899	-5	.	.	2.0-	2.0	.	.	.	1.165	1.070*	95	-	032	19582.5443	
1	5099.282	4	22671.890	-	17572.608	0	.	.	1.0-	2.0	.	.	.	0.599	0.555	44	.	283	19605.2518	
	5099.187	2					.	.			.	.	.					-063	19605.6170	
	5098.811	1					.	.			.	.	.					-148	19607.0628	IS*
1	5098.256	2	27334.422	-	32432.680	-2	.	.	7.0-	7.0	.	.	.	1.240	1.140*	100	.	073	19609.1973	
1	5097.657	6	21263.339	-	26360.997	-1	.	.	5.0-	5.0	.	.	.	0.610	0.796*	186	.	038	19611.5014	IS*
	5097.382	2					.	.			.	.	.						19612.5595	
1	5095.500	2	20055.327	-	25160.827	0	.	.	3.0-	3.0	.	.	.	0.998	0.800	198	-	-23	19619.8033	
1	5094.501	1	24437.792	-	19343.298	7	.	.	4.0-	3.0	.	.	.	1.500	1.135*	365	.	345	19623.6506	
	5094.256	1					.	.			.	.	.					15	19624.5944	IS*
1	5094.170	2	22666.777	-	17572.608	1	.	.	3.0-	2.0	.	.	.	0.977	0.555	422	.	326	19624.9257	
1	5092.022	2	23814.130	-	23906.150	2	.	.	6.0-	5.0	.	.	.	0.890	1.105	215	.	8	19633.2042	IS*
1	5085.571	2	26317.729	-	31403.302	-2	.	.	4.0-	5.0	.	.	.	1.180	1.205*	25	-	043	19658.1087	
1	5085.214	1	22719.949	-	27805.163	0	.	.	4.0-	5.0	.	.	.	1.070	1.024	46	.	89	19659.4888	
1	5084.566	4	19426.512	-	14341.947	1	.	.	3.0-	2.0	.	.	.	1.435	0.852	583	.	298	19661.9943	
1	5084.400	1	19203.415	-	24287.814	1	.	.	2.0-	3.0	.	.	.	1.021	0.585	436	-	140	19662.6363	
1	5083.319	4	18046.108	-	23129.429	-2	.	.	4.0-	5.0	.	.	.	0.694	1.168	474	-	134	19666.8176	
1	5081.447	2	27491.196	-	22409.753	4	.	.	2.0-	2.0	.	.	.	1.345	1.413	68	.	256	19674.0629	
1	5080.857	1	26572.296	-	21491.439	0	.	.	2.0-	3.0	.	.	.	1.014	0.000*	0	.	217	19676.3475	
1	5079.474	3	26344.163	-	21764.690	1	.	.	4.0-	5.0	.	.	.	1.020	0.000*	0	.	262	19681.7048	
1	5077.061	4	18591.122	-	23568.134	-1	.	.	4.0-	4.0	.	.	.	0.965	0.940*	25	-	096	19691.0590	
1	5075.235	4	26811.368	-	21736.133	0	.	.	7.0-	7.0	.	.	.	1.180	0.000*	0	.	249	19698.1436	
1	5073.982	2	21350.311	-	16276.332	3	.	.	2.0-	2.0	.	.	.	0.350	1.880*	1530	.	315	19703.0030	
1	5071.067	3	23763.470	-	20834.535	2	.	.	4.0-	5.0	.	.	.	0.970	0.978*	8	-	012	19714.3339	IS*
1	5070.505	1	26811.368	-	31881.871	2	.	.	7.0-	7.0	.	.	.	1.180	1.120*	60	-	008	19716.5190	IS*
1	5067.460	1	22021.637	-	33089.092	5	.	.	5.0-	5.0	.	.	.	1.400	1.069*	331	.	-36	19728.3665	
1	5067.376	3	26150.730	-	31218.105	1	.	.	8.0-	8.0	.	.	.	0.000	1.155*	0	-	008	19728.6935	
2	5065.838	2	17073.340	-	12007.503	1	.	.	1.5-	1.5	.	.	.	0.576	-0.019	595	.	472	19734.6832	
1	5065.596	3	20540.110	-	25505.707	-1	.	.	3.0-	4.0	.	.	.	0.830	1.160*	330	.	052	19735.6260	
	5063.925	2					.	.			.	.	.					-036	19742.1334	
1	5063.582	1	19865.603	-	24929.184	1	.	.	4.0-	4.0	.	.	.	1.100	1.080	20	-	141	19743.4757	
1	5062.510	2	21227.793	-	26290.302	1	.	.	4.0-	5.0	.	.	.	1.346	1.125	221	-	267	19747.6564	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2 - J1	OBS J2 - J1	TERM	TERM	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
1	5050.607	2	22337.092-17776.483	-2					3.0- 2.0					1.110	0.565*	545	131	129	19755.0824	
1	5058.248	2	18591.122-23649.372	-2					4.0- 4.0					0.965	0.000*	0	-347	-345	19764.2955	
1	5054.951	2	24149.361-29204.308	4					5.0- 5.0					1.262	0.896	366	-032	-30	19777.1864	IS*
	5053.210	2																	19784.0003	
1	5053.125	5	23909.585-18856.461	1					5.0- 5.0					1.242	1.325	83	279	279	19784.3331	
1	5052.643	1	20654.712-25707.348	7					1.0- 2.0					0.200	0.720	520	118	123	19786.2204	
1	5052.013	2	22518.312-27570.322	3					2.0- 3.0					1.350	1.265	85	-107	-109	19788.6878	
1	5049.793	3	25371.962-20322.165	-4					6.0- 6.0					1.165	1.360*	195	166	166	19797.3874	
1	5049.396	1	22181.368-27230.768	-4					3.0- 4.0					0.780	0.000*	0	-194	-192	19798.9439	
1	5046.857	1	25717.388-30764.244	1					5.0- 6.0					0.970	0.975*	5	16	15	19808.9045	IS*
	5045.205	1															309		19815.3907	
1	5044.422	2	25328.907-30373.329	0					3.0- 4.0					1.340	1.345	5	8	6	19818.4665	IS*
1	5043.298	2	29810.974-24767.674	-2					3.0- 2.0					1.184	1.455	271	133	127	19822.8834	
	5042.422	2															-012		19826.3272	IS*
1	5033.750	1	25706.036-20672.283	-3					2.0- 2.0					1.290	1.430*	140	176	172	19860.4834	
1	5033.643	2	25706.036-20672.390	-3					2.0- 1.0					1.290	0.000*	0	177	175	19860.9056	
1	5033.164	2	22509.712-27542.874	2					5.0- 5.0					1.287	1.270*	17	-220	-221	19862.7958	
	5031.083	3																	19871.0116	
1	5031.059	4	21307.390-16276.332	1					1.0- 2.0					2.360	1.880*	480	155	155	19871.1064	
1	5030.831	2	31199.300-36230.135	-4					9.0- 9.0					0.000	1.255*	0		140	19872.0069	
1	5030.436	3	19426.512-24456.948	0					3.0- 3.0					1.435	0.000*	0	-203	-202	19873.5673	
1	5029.285	4	11747.245-16776.530	0					0.0- 1.0					0.000	0.000*	0	-404	-404	19878.1156	
1	5028.303	2	26374.994-31403.302	-5					4.0- 5.0					0.000	1.205	0	-079	-85	19881.9977	IS*
1	5027.803	2	19203.415-24231.226	-8					2.0- 2.0					1.021	0.411	610	-040	-41	19883.9749	
1	5027.507	1	28156.938-23129.429	-2					6.0- 5.0					1.335	1.168	167	096	97	19885.1456	ISQ
1	5026.962	4	21263.339-26290.302	-1					5.0- 5.0					0.610	1.125*	515	-093	-94	19887.3014	
1	5025.994	2	28156.938-33182.933	-1					6.0- 6.0					1.335	1.050	285	089	100	19891.1317	
1	5024.978	1	27903.565-32928.540	3					2.0- 2.0					1.300	1.060*	240		-166	19895.1535	
	5024.922	1																	19895.3752	
	5024.731	2																	19896.1315	
1	5024.596	3	19558.257-24582.849	4					2.0- 2.0					-0.145	0.640	785	202	199	19896.6661	
1	5023.864	7	20769.512-15745.648	0					2.0- 3.0					1.070	1.145*	75	114	114	19899.5651	
	5022.031	2																	19906.8283	
1	5021.140	1	13517.647-18538.782	5					2.0- 2.0					0.892	1.600	708		-355	19910.3607	
1	5020.890	2	25009.000-20928.110	0					3.0- 4.0					0.870	1.374*	504	170	170	19911.3521	
1	5020.476	2	24534.240-29554.716	0					2.0- 3.0					0.000	0.831*	0	10	11	19912.9941	IS*
1	5020.412	2	23814.130-22834.535	7					6.0- 5.0					0.890	0.978	88	87	85	19913.2479	
	5018.459	2																	19920.8783	
1	5018.365	2	22038.306-27106.673	-2					6.0- 6.0					1.060	1.040	20	117	115	19921.3706	ISQ
	5017.320	2															174		19925.5198	
1	5015.270	4	14292.176-19307.447	-1					5.0- 4.0					0.970	0.000*	0	-144	-143	19933.6644	
1	5014.394	2	28035.676-23022.274	-8					6.0- 5.0					1.216	0.817	399		39	19937.1467	
1	5014.167	2	22820.548-23805.381	0					0.0- 1.0					0.000	0.094	0	-206	-206*	19938.0493	
1	5011.566	2	23550.352-18538.782	-4					3.0- 2.0					1.090	1.600*	510	119	122	19948.3971	
1	5011.196	2	23550.352-28561.548	0					3.0- 2.0					1.090	0.784*	306	077	73	19949.8700	
1	5009.098	3	28482.680-23473.585	3					6.0- 6.0					1.180	0.000*	0	190	191	19958.2258	
1	5005.616	1	30612.323-25505.707	0					3.0- 4.0					1.408	1.160	248	-102	-94	19968.1200	
1	5005.893	1	19281.917-24207.814	-4					2.0- 3.0					1.822	0.585	1237	-148	-146	19971.0040	
1	5005.080	3	23735.353-28740.433	0					2.0- 3.0					0.935	0.970*	35	-024	-23	19974.2480	
1	5004.255	2	24347.551-19343.298	2					3.0- 3.0					1.300	1.135*	165	199	198	19977.5409	
1	5002.523	1	18763.921-23966.450	-6					4.0- 3.0					1.251	0.760	491	-156	-154	19984.4576	
1	5000.016	1	17081.874-22031.891	-1					4.0- 4.0					1.217	0.000*	0		-147	19994.4778	
1	4999.537	3	25113.744-30113.280	1					6.0- 6.0					1.302	1.050	252	103	103	19996.3935	
2	4999.459	2	22038.950-17039.437	-4					0.5- 1.5					0.344	1.354	1010	201	206	19996.7055	
1	4993.856	2	28457.436-23473.585	5					5.0- 6.0					1.210	0.000*	0	135	138	20019.1414	

C	HAVERNUMBER	I	T2	-	T1	O-C	OBS		TERM		OBS	OBS	OBS	TERM			OBS		HAVELENGTH	NOTES	
							J2	J1	J2	J1				G2	G1	DG	G2	G1			DG	IS	IS
1	4992.220	3	13726.661	-	18718.882	-1	.	.	3.0-	2.0	.	.	.	1.150	0.504	646	-028	-27	20025.7018		
1	4928.508	3	25660.792	-	20372.283	-1	.	.	1.0-	2.0	.	.	.	1.146	1.430*	284	216	215	20040.6032		
1	4928.405	2	25660.792	-	20672.390	3	.	.	1.0-	1.0	.	.	.	1.146	0.000*	0	218	218	20041.0170		
1	4926.466	2	21420.983	-	23407.449	0	.	.	3.0-	2.0	.	.	.	1.663	0.972	691	000	1	20048.8100		
1	4934.342	2	22307.633	-	17323.291	0	.	.	3.0-	4.0	.	.	.	1.434	1.250*	184	287	286	20057.3535		
1	4977.983	2	15424.387	-	20402.359	1	.	.	3.0-	3.0	.	.	.	1.106	1.265*	159	-134	-138	20082.9753		
1	4976.166	5	18046.103	-	23022.274	0	.	.	4.0-	5.0	.	.	.	0.694	0.817	123	005	7	20090.3084		
	4974.032	2															-025			20098.9277	
1	4959.357	2H	25113.744	-	30053.102	-1	.	.	6.0-	5.0	.	.	.	1.302	1.150*	152	008	8	20117.8361		
1	4968.171	1H	23904.649	-	27972.815	5	.	.	5.0-	4.0	.	.	.	1.196	0.979	217		-44	20122.6386		
	4964.552	2																		20137.3074	
1	4964.472	2	26664.150	-	31628.619	3	.	.	6.0-	6.0	.	.	.	1.135	1.110	25		44	20137.6319		
1	4963.811	7	20709.458	-	15745.648	1	.	.	3.0-	3.0	.	.	.	1.240	1.145	95	172	170	20140.3135		
	4960.930	2																		20152.0097	
1	4959.725	1	26516.261	-	21556.538	2	.	.	5.0-	4.0	.	.	.	1.200	1.290*	90	+	281	20156.9058	ISQ	
1	4957.231	2	30612.323	-	25655.090	-2	.	.	3.0-	4.0	.	.	.	1.408	1.165	243	016	14	20167.0468		
1	4956.807	2	31197.417	-	26240.609	-1	.	.	7.0-	8.0	.	.	.	0.000	0.000*	0	186	190	20168.7719		
1	4956.415	2	19059.958	-	24016.378	-5	.	.	5.0-	5.0	.	.	.	1.375	1.560	185	-397	-391	20170.3670		
1	4954.666	3	22719.949	-	17765.281	-2	.	.	4.0-	3.0	.	.	.	1.070	1.680*	610	166	168	20177.4872		
1	4952.064	2	27361.817	-	22409.753	0	.	.	3.0-	2.0	.	.	.	1.310	1.413	103	168	170	20188.0892		
1	4950.832	1	28569.792	-	23618.964	4	.	.	3.0-	3.0	.	.	.	1.245	0.000*	0	156	152	20193.1130		
1	4948.168	2	21031.258	-	25979.424	2	.	.	2.0-	1.0	.	.	.	1.455	1.260	195	040	42	20203.9846		
1	4946.924	1	28565.887	-	23618.964	1	.	.	2.0-	3.0	.	.	.	0.911	0.000*	0	099	102	20209.0652		
1	4946.600	2	23550.352	-	28496.950	2	.	.	3.0-	4.0	.	.	.	1.090	0.810*	280	043	44	20210.3889		
1	4945.630	2	20709.458	-	25655.090	-2	.	.	3.0-	4.0	.	.	.	1.240	1.165	75	-060	-60	20214.3529	IS*	
1	4945.194	3	25517.477	-	20672.283	0	.	.	2.0-	2.0	.	.	.	1.360	1.430*	70	139	141	20216.1351		
1	4945.088	3	25617.477	-	20672.390	1	.	.	2.0-	1.0	.	.	.	1.360	0.000*	0	142	144	20216.5684		
1	4941.847	2	21218.180	-	16276.332	-1	.	.	3.0-	2.0	.	.	.	0.860	1.880*	1020	387	389	20229.8270		
	4939.884	1															258			20237.8659	
1	4933.784	3	19426.512	-	24365.295	1	.	.	3.0-	3.0	.	.	.	1.435	1.475	40	-283	-284	20242.3734		
1	4935.819	1	17615.482	-	22551.302	-1	.	.	2.0-	3.0	.	.	.	1.450	0.000*	0	-340	-342	20254.5332		
1	4935.471	3	28951.847	-	24016.378	2	.	.	5.0-	5.0	.	.	.	1.290	1.560*	270	136	137	20255.9614		
1	4932.217	2	22705.158	-	27637.377	-2	.	.	1.0-	1.0	.	.	.	-0.020	1.280*	1300	-036	-42	20269.3252		
1	4931.390	4	26696.083	-	21764.690	-3	.	.	5.0-	5.0	.	.	.	1.315	0.000*	0	114	113	20272.7243		
	4930.037	3H															474			20278.2880	
2	4929.959	4	18656.277	-	13726.318	0	.	.	1.5-	2.5	.	.	.	0.000	0.784*	0	466	467	20278.6088		
1	4928.650	1	22705.158	-	17776.483	5	.	.	1.0-	2.0	.	.	.	-0.020	0.565*	585		-34	20283.8712		
1	4928.018	3	26664.150	-	21736.133	1	.	.	6.0-	7.0	.	.	.	1.135	0.000*	0	196	196	20286.5960		
1	4925.626	3	13726.661	-	18652.287	0	.	.	3.0-	3.0	.	.	.	1.150	0.822	328	-144	-142	20296.4476		
1	4923.212	1	30995.841	-	26072.627	-2	.	.	2.0-	2.0	.	.	.	1.470	1.500*	30	096	96	20306.3996		
1	4923.134	2	22307.633	-	27230.768	-1	.	.	3.0-	4.0	.	.	.	1.434	0.000*	0	-291	-292	20306.7213		
1	4919.559	1	25591.845	-	20672.283	-3	.	.	3.0-	2.0	.	.	.	0.990	1.430*	440	209	207	20321.4781		
1	4912.179	3	28385.761	-	23473.585	3	.	.	6.0-	6.0	.	.	.	1.025	0.000*	0	246	246	20352.0088		
1	4909.305	2	24381.050	-	29290.355	0	.	.	5.0-	6.0	.	.	.	1.450	0.920*	530	084	83	20363.9233		
1	4908.838	1	31358.339	-	26449.501	0	.	.	4.0-	3.0	.	.	.	1.155	0.940*	215	020	19	20365.8606		
1	4903.427	1	20385.328	-	25293.751	4	.	.	2.0-	3.0	.	.	.	1.911	0.965	946	-120	-122	20367.5659		
1	4907.008	4	23763.470	-	18856.461	-1	.	.	4.0-	5.0	.	.	.	0.970	1.325*	355	252	251	20373.4558		
	4905.363	1															+			20380.2880	
1	4901.496	3	22666.777	-	17765.281	0	.	.	3.0-	3.0	.	.	.	0.977	1.680*	703	353	354	20396.3669		
1	4897.954	2	27909.524	-	23011.570	0	.	.	4.0-	4.0	.	.	.	1.270	0.000*	0	155	158	20411.1167		
1	4896.801	5	16520.962	-	21417.765	-2	.	.	5.0-	4.0	.	.	.	0.736	0.802	66	249	248	20415.9227		
1	4896.683	3	20877.600	-	25774.283	0	.	.	7.0-	6.0	.	.	.	1.060	0.915*	145		33	20416.3938		
1	4896.447	3	22219.737	-	17323.291	1	.	.	4.0-	4.0	.	.	.	0.750	1.250*	500	173	161	20417.3987	IS*	
1	4896.329	2	16595.109	-	21491.439	-1	.	.	3.0-	3.0	.	.	.	0.999	0.000*	0		-352	20417.8908		
1	4895.407	3	22671.890	-	17776.483	0	.	.	1.0-	2.0	.	.	.	0.599	0.565	34	072	74	20421.7363		

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	WAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	4894.000	2	19594.767-24498.767	0	.	.	.	0.0-	1.0	.	.	.	.	.	0.000	0.000*	0	-020	-22	20427.6074	
1	4889.515	2	24158.741-29048.255	1	.	.	.	2.0-	1.0	.	.	.	.	.	1.240	0.900*	340	030	35	20446.3450	
1	4883.083	2	19855.603-24753.684	2	.	.	.	4.0-	4.0	.	.	.	.	.	1.100	0.975	125	-170	-171	20452.3349	
1	4887.925	2	25560.208-20672.283	0	.	.	.	1.0-	2.0	.	.	.	.	.	1.500	1.430*	70	357	357	20452.9961	
1	4886.995	3	25209.152-20322.165	-1	.	.	.	5.0-	6.0	.	.	.	.	.	1.140	1.360*	220	359	358	20456.8841	
1	4886.797	2	22671.890-27558.688	-1	.	.	.	1.0-	0.0	.	.	.	.	.	0.599	0.000	0	-152	-152	20457.7171	
1	4835.788	2	20065.327-24951.118	-3	.	.	.	3.0-	3.0	.	.	.	.	.	0.998	0.840	158		-36	20461.9420	
1	4835.660	4	16532.104-21417.765	-1	.	.	.	3.0-	4.0	.	.	.	.	.	0.300	0.802	502	244	244	20462.4781	
1	4884.135	2H	15356.883-20741.029	-5	.	.	.	1.0-	2.0	.	.	.	.	.	1.103	0.000*	0	-340	-339	20468.8630	IS*
1	4884.034	1H	27415.500-32299.581	3	.	.	.	5.0-	5.0	.	.	.	.	.	1.370	0.000*	0		38	20469.0810	
1	4883.965	2	26301.732-21417.765	-2	.	.	.	5.0-	4.0	.	.	.	.	.	1.060	0.802*	258	-237	-232	20469.5797	
1	4882.270	1	31358.339-26476.068	-1	.	.	.	4.0-	4.0	.	.	.	.	.	1.155	1.605	450	142	142	20476.6862	
1	4881.955	3	27975.402-32857.357	0	.	.	.	7.0-	6.0	.	.	.	.	.	1.017	1.101	84	024	27	20478.0075	
1	4881.793	1	24091.173-28972.971	-5	.	.	.	3.0-	2.0	.	.	.	.	.	1.245	0.794	451		90	20478.6870	C2
1	4881.793	1	29810.974-24929.184	3	.	.	.	3.0-	4.0	.	.	.	.	.	1.184	1.080	104	-126	-126	20478.6870	C2 IS*
1	4881.674	2	23413.710-28295.390	4	.	.	.	4.0-	4.0	.	.	.	.	.	0.000	1.155*	0		-75	20479.1862	C2
1	4881.674	2	22429.984-27311.658	0	.	.	.	4.0-	5.0	.	.	.	.	.	1.279	1.035	244	150	143	20479.1862	C2 IS*
1	4879.546	2	28832.853-23953.307	0	.	.	.	2.0-	2.0	.	.	.	.	.	0.000	1.265*	0	+	188	20488.1173	ISQ
1	4878.203	4	20043.465-24921.671	-3	.	.	.	5.0-	5.0	.	.	.	.	.	0.925	1.034	109	132	132	20493.7578	
1	4877.883	2	23416.666-18533.782	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.320	1.600*	280	193	198	20495.1023	IS*
1	4877.644	2	22719.949-27597.590	3	.	.	.	4.0-	4.0	.	.	.	.	.	1.070	0.930	140	133	131	20496.1065	
1	4876.787	2	26341.320-31218.105	2*	.	.	.	8.0-	8.0	.	.	.	.	.	0.000	1.155*	0	-170	-173	20499.7083	
1	4875.491	1	29356.804-24481.313	0	.	.	.	5.0-	6.0	.	.	.	.	.	1.190	0.000*	0	163	166	20505.1575	
1	4875.283	2	21992.645-26873.930	-2	.	.	.	7.0-	6.0	.	.	.	.	.	1.269	1.125	144	-047	-47	20506.0324	
1	4873.566	1	24751.439-29625.003	2	.	.	.	1.0-	2.0	.	.	.	.	.	0.647	0.910*	263	-010	-11	20513.2568	
1	4868.424	2	29233.723-24365.295	-4	.	.	.	4.0-	3.0	.	.	.	.	.	1.260	1.475*	215	301	301	20534.9228	
1	4865.485	4	24644.996-19779.507	-4	.	.	.	3.0-	4.0	.	.	.	.	.	1.195	0.000*	0	290	290	20547.3270	
1	4864.449	2	26317.729-31182.179	-1	.	.	.	4.0-	4.0	.	.	.	.	.	1.180	1.210*	30	-030	-37	20551.7030	
1	4864.235	1	28513.607-23649.372	0	.	.	.	5.0-	4.0	.	.	.	.	.	1.157	0.000*	0	179	179	20552.6072	
1	4863.853	1	20065.327-24929.184	1	.	.	.	3.0-	4.0	.	.	.	.	.	0.998	1.080	82	-149	-153	20554.2002	
	4862.959	3			.	.	.			.	.	.	.	.						20558.0000	
1	4861.467	3	19203.415-14341.947	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.021	0.852	169	371	370	20564.3093	
1	4858.078	4	22181.368-17323.291	1	.	.	.	3.0-	4.0	.	.	.	.	.	0.780	1.250*	470	185	186	20578.6550	
1	4855.278	1	21350.311-26205.589	0	.	.	.	2.0-	3.0	.	.	.	.	.	0.350	0.701*	351	-104	-105	20590.5226	
1	4854.346	3	20306.482-25160.827	1	.	.	.	4.0-	3.0	.	.	.	.	.	1.123	0.800	323	-008	-9	20594.4758	
1	4853.530	1	22705.158-27558.688	0	.	.	.	1.0-	0.0	.	.	.	.	.	-0.020	0.000*	0	-040	-44	20597.9383	
1	4852.244	1	28268.619-24016.378	3	.	.	.	5.0-	5.0	.	.	.	.	.	1.085	1.560	475	201	200	20603.3974	
1	4850.087	2	20425.711-25275.795	3	.	.	.	1.0-	1.0	.	.	.	.	.	1.340	0.706	634	224	218	20612.5604	
1	4849.455	2	27301.288-22451.834	1	.	.	.	4.0-	5.0	.	.	.	.	.	0.985	0.000*	0	214	212	20615.2467	IS*
	4845.418	2			.	.	.			.	.	.	.	.						20632.4225	ISQ
1	4844.850	2	28446.024-23601.171	-3	.	.	.	1.0-	1.0	.	.	.	.	.	0.745	0.565	180	+	-1	20634.8414	
1	4844.380	2	22415.990-17572.608	-2	.	.	.	2.0-	2.0	.	.	.	.	.	1.675	0.555	1120	126	127	20636.8434	
1	4841.719	2	26606.405-21764.690	-5	.	.	.	5.0-	5.0	.	.	.	.	.	1.130	0.000*	0	188	188	20648.2238	
1	4840.883	1	23720.664-28561.548	-1	.	.	.	3.0-	2.0	.	.	.	.	.	0.790	0.784*	6	065	68	20651.7512	
1	4840.282	4	27975.402-23135.120	0	.	.	.	7.0-	8.0	.	.	.	.	.	1.017	0.000*	0	158	157	20654.3155	
1	4839.912	4	25828.024-20988.110	-2	.	.	.	4.0-	4.0	.	.	.	.	.	1.310	1.374*	64	101	103	20655.8945	
1	4839.747	2	22889.053-27728.796	4	.	.	.	4.0-	3.0	.	.	.	.	.	1.263	1.060	203		-83	20656.5987	
1	4839.370	2	26594.711-22055.339	-2	.	.	.	3.0-	3.0	.	.	.	.	.	1.465	0.000*	0	182	187	20658.2079	
1	4839.204	4	26575.338-21736.133	-1	.	.	.	7.0-	7.0	.	.	.	.	.	1.150	0.000*	0	270	269	20658.9165	IS*
1	4838.770	1	27643.693-32482.465	-2	.	.	.	4.0-	4.0	.	.	.	.	.	1.310	1.330*	20	-070	-70	20660.7695	
1	4836.053	2	31049.306-26213.253	0	.	.	.	7.0-	7.0	.	.	.	.	.	0.000	0.000*	0	220	220	20672.3772	
1	4835.721	2	23021.637-32857.357	1	.	.	.	5.0-	6.0	.	.	.	.	.	1.400	1.101*	299	047	48	20673.7964	
1	4833.767	1	24613.274-19779.507	0	.	.	.	5.0-	4.0	.	.	.	.	.	1.160	0.000*	0	183	189	20682.1536	
1	4833.127	2	23901.830-25058.751	-2	.	.	.	8.0-	7.0	.	.	.	.	.	1.450	0.000*	0	054	52	20684.8923	
1	4831.467	2	23550.352-18718.882	-3	.	.	.	3.0-	2.0	.	.	.	.	.	1.090	0.504*	506	-218	-219	20691.9993	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	WAVELENGTH	NOTES
	4827.385	2																		
1	4827.307	1	27415.500	-	32242.810	-3	.	.	5.0-	5.0	.	.	.	1.370	1.215*	155	-081	-18	20709.4963	
1	4826.289	2	26317.729	-	21491.439	-1	.	.	4.0-	3.0	.	.	.	1.180	0.000*	0	134	136	20709.8309	
1	4822.027	2	24012.505	-	28834.535	-3	.	.	6.0-	5.0	.	.	.	1.248	0.978	270	-070	-73	20714.1992	
1	4820.597	3	29307.360	-	34127.955	2	.	.	8.0-	8.0	.	.	.	0.000	1.185*	0	113	111	20732.5077	
1	4818.673	4	18346.917	-	13528.246	2	.	.	2.0-	1.0	.	.	.	1.518	-0.590*	2108	292	294	20738.6578	
1	4818.453	3	26374.994	-	21556.538	-3	.	.	4.0-	4.0	.	.	.	0.000	1.290	0	200	199	20746.9384	
1	4818.086	2	20457.704	-	25275.795	-5	.	.	0.0-	1.0	.	.	.	0.000	0.706	0	250	250	20747.8856	
1	4815.901	3	26105.952	-	21290.050	-1	.	.	2.0-	2.0	.	.	.	1.165	0.000*	0	285	285	20749.4660	
1	4815.443	3	24158.741	-	19343.298	0	.	.	2.0-	3.0	.	.	.	1.240	1.135*	105	119	117	20758.8802	
1	4815.427	2H	15856.828	-	20672.283	32	.	.	1.0-	2.0	.	.	.	1.103	1.430*	327	-365	-364	20760.8546	
1	4812.120	3	13726.661	-	18538.782	-1	.	.	3.0-	2.0	.	.	.	1.150	1.600	450	-369	-368	20760.9236	
1	4807.038	3	19558.257	-	24365.295	0	.	.	2.0-	3.0	.	.	.	-0.145	1.475	1620	-147	-150	20775.1910	
	4804.579	1															262		20797.1545	
1	4800.744	2	25541.775	-	20741.029	-2	.	.	3.0-	2.0	.	.	.	0.915	0.000*	0	290	292	20807.7986	
1	4800.207	2	27979.161	-	23178.955	1	.	.	2.0-	1.0	.	.	.	1.186	1.130*	56	142	142	20824.4206	
1	4794.464	5	20540.110	-	15745.648	2	.	.	3.0-	3.0	.	.	.	0.830	1.145*	315	167	166	20826.7502	
1	4794.268	2	17615.482	-	22409.753	-3	.	.	2.0-	2.0	.	.	.	1.450	1.413	37	-345	-345	20851.6973	
1	4793.327	2	19865.603	-	24658.931	-1	.	.	4.0-	4.0	.	.	.	1.100	1.080	20	-060	-60	20852.5498	
	4791.659	2H																	20856.6435	
1	4791.575	5	25113.744	-	20322.165	-4	.	.	6.0-	6.0	.	.	.	1.302	1.360*	58	173	172	20863.9038	
1	4791.401	1	24437.792	-	29229.190	3	.	.	4.0-	4.0	.	.	.	1.500	1.480*	20	-329	-330	20864.2695	
1	4791.194	2	22719.717	-	27510.909	2	.	.	9.0-	8.0	.	.	.	1.200	0.000*	0	-164	-161	20865.0272	
1	4789.386	3	23416.666	-	18627.281	1	.	.	2.0-	1.0	.	.	.	1.320	0.000*	0	252	252	20865.9287	
1	4787.950	3	22182.030	-	26959.979	1	.	.	2.0-	3.0	.	.	.	1.295	0.000*	0	-061	-61	20873.8056	
1	4786.651	2	27196.404	-	22409.753	0	.	.	3.0-	2.0	.	.	.	1.282	1.413	131	262	265	20880.0661	
1	4785.680	3	28738.988	-	23953.307	-1	.	.	1.0-	2.0	.	.	.	1.892	1.265	627	156	152	20885.7325	
1	4785.623	2	22088.306	-	26873.930	-1	.	.	6.0-	6.0	.	.	.	1.892	1.265	627	156	152	20889.9701	IS*
	4782.818	2															181	181	20890.2190	IS*
1	4776.430	2	23315.209	-	18538.782	3	.	.	2.0-	2.0	.	.	.	1.335	1.600	265	150	135	20902.4705	
	4776.275	3															134		20930.4255	
1	4773.782	2	24780.935	-	29554.716	1	.	.	2.0-	3.0	.	.	.	0.830	0.831*	1	-109	-109	20931.1048	
	4772.560	1																	20942.0356	
1	4770.600	2	18897.584	-	23668.184	0	.	.	5.0-	4.0	.	.	.	1.280	0.940*	340	-113	-118	20947.3977	
1	4770.052	2	22513.607	-	23743.557	2	.	.	5.0-	6.0	.	.	.	1.157	0.000*	0	213	212	20956.0040	
1	4766.873	1	25209.162	-	29976.039	-4	.	.	5.0-	4.0	.	.	.	1.140	1.070*	70	-137	-135	20958.4115	
1	4764.625	2	27216.458	-	22451.834	1	.	.	5.0-	5.0	.	.	.	1.180	0.000*	0	344	328	20972.3885	
1	4764.380	2	23416.665	-	18652.287	1	.	.	2.0-	3.0	.	.	.	1.320	0.822*	498	-	-28	20982.2835	
1	4763.040	2	19203.415	-	23966.450	5	.	.	2.0-	3.0	.	.	.	1.021	0.760	261	-128	-129	20983.3625	
1	4761.191	2	26317.729	-	21556.538	0	.	.	4.0-	4.0	.	.	.	1.180	1.290*	110	160	160	20989.2658	
1	4760.302	2	22671.890	-	27432.195	-3	.	.	1.0-	1.0	.	.	.	0.599	1.130*	531	-268	-266	20997.4170	
1	4760.107	3	8758.139	-	13528.246	0	.	.	2.0-	1.0	.	.	.	0.362	-0.590*	952	-401	-401	21001.3383	
1	4757.279	2	16734.151	-	21491.439	-9	.	.	2.0-	3.0	.	.	.	0.928	0.000*	0	-377	-376	21002.1936	
1	4754.927	6	21031.258	-	16276.332	1	.	.	2.0-	2.0	.	.	.	1.455	1.880*	425	092	92	21014.6835	
	4752.038	1																	21025.0784	
1	4751.570	3	26516.261	-	21764.690	-1	.	.	5.0-	5.0	.	.	.	1.200	0.000*	0	260	260	21037.8606	
	4749.756	2															204		21039.9327	
1	4747.876	2	24091.173	-	19343.298	1	.	.	3.0-	3.0	.	.	.	1.245	1.135	110	124	124	21047.9681	
1	4744.011	2	25717.388	-	30461.399	0	.	.	5.0-	5.0	.	.	.	0.970	0.990*	20	053	46	21056.3024	
1	4743.254	2	21350.311	-	26093.563	2	.	.	2.0-	1.0	.	.	.	0.350	-0.082*	432	-058	-61	21073.4572	
1	4738.016	2	24816.699	-	29554.716	-1	.	.	2.0-	3.0	.	.	.	1.165	0.831	334	059	56	21076.8205	
1	4737.692	1	27643.693	-	32381.372	3	.	.	4.0-	5.0	.	.	.	1.310	1.190*	120	-028	-28	21100.1214	
	4735.232	1																	21101.6090	
1	4735.026	2	22307.633	-	17572.608	1	.	.	3.0-	2.0	.	.	.	1.434	0.555	879	262	262	21112.5269	
	4734.367	1																	21113.4454	
																			21116.3843	

C	HAVE	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
	4734.178	1																21117.2273	
	4734.072	1																21117.7002	
1	4733.938	4	27869.060	-23135.120	-2	.	.	7.0-	8.0	.	.	.	1.250	0.000*	0	150	150	21118.2979	
	4733.646	2																21119.6006	
	4733.517	2																21120.1762	
	4733.214	2H																21121.5232	
	4733.085	2																21122.1039	
	4732.905	2																21122.9072	
1	4732.346	7	19074.292	-14341.947	1	.	.	2.0-	2.0	.	.	.	1.532	0.852	680	197	197	21125.4023	
1	4732.081	2	31702.058	-26969.979	2	.	.	3.0-	3.0	.	.	.	1.085	0.000*	0		226	21126.5853	
	4730.220	2																21134.8971	
	4729.907	2																21136.2957	
	4729.642	2																21137.4800	
1	4729.555	5	19558.257	-24287.814	-2	.	.	2.0-	3.0	.	.	.	-0.145	0.585	730	068	67	21137.8688	
1	4729.282	1	25717.388	-20988.110	4	.	.	5.0-	4.0	.	.	.	0.970	1.374*	404		159	21139.0890	
1	4729.116	3	19594.767	-24323.884	-1	.	.	0.0-	1.0	.	.	.	0.000	0.800*	0	112	111	21139.8310	
	4728.428	1																21142.9069	
1	4727.705	2	29209.020	-24481.313	-2	.	.	7.0-	6.0	.	.	.	1.390	0.000*	0	-050	-41	21146.1403	IS*
1	4723.895	3	27175.729	-22451.834	0	.	.	4.0-	5.0	.	.	.	1.021	0.000*	0	204	203	21163.1955	
1	4723.197	2	20709.458	-25432.655	0	.	.	3.0-	2.0	.	.	.	1.240	1.281	41	250	248	21166.3230	
	4722.880	1																21167.7437	
	4722.764	2																21168.2636	
1	4722.377	3	23578.836	-18356.461	2	.	.	5.0-	5.0	.	.	.	1.120	1.325*	205	199	199	21169.9983	
	4720.427	1																21178.7436	IS*
1	4715.143	1	27124.898	-22409.753	-2	.	.	2.0-	2.0	.	.	.	1.190	1.413*	223	186	191	21202.4775	
1	4712.174	2	29193.490	-24481.313	-3	.	.	6.0-	6.0	.	.	.	1.240	0.000*	0	45	47	21215.8365	IS*
1	4708.532	1	22889.053	-27597.590	-5	.	.	4.0-	4.0	.	.	.	1.263	0.930	333	-056	-58	21232.2468	
1	4705.942	4	24644.996	-19939.052	-2	.	.	3.0-	3.0	.	.	.	1.195	0.000*	0	302	303	21243.9323	
1	4705.580	2	23037.432	-27743.009	3	.	.	1.0-	2.0	.	.	.	0.870	0.568	302	-010	-18	21245.5566	IS*
1	4703.600	1	29356.804	-24653.200	-4	.	.	5.0-	6.0	.	.	.	1.190	0.000*	0	228	232	21254.5101	
1	4702.626	2	24091.173	-28793.800	-1	.	.	3.0-	3.0	.	.	.	1.245	1.083	162	005	3	21258.9123	
	4702.317	5																21260.3092	
1	4694.234	2	27705.804	-23011.570	0	.	.	5.0-	4.0	.	.	.	1.160	0.000*	0	224	226	21296.9174	
1	4691.092	2	23281.721	-27972.815	-2	.	.	5.0-	4.0	.	.	.	1.235	0.979	256	125	125	21311.1816	
1	4687.930	2	23315.209	-18527.281	2	.	.	2.0-	1.0	.	.	.	1.335	0.000*	0	189	189	21325.5560	
1	4683.591	2	19059.958	-23743.557	-8	.	.	5.0-	6.0	.	.	.	1.375	0.000*	0	-397	-400	21345.3126	
1	4683.353	2	28156.938	-23473.535	0	.	.	6.0-	6.0	.	.	.	1.335	0.000*	0	124	124	21346.3973	
1	4682.817	1	17081.874	-21764.690	1	.	.	4.0-	5.0	.	.	.	1.217	0.000*	0	-393	-389	21348.8406	
	4681.586	2																21354.4542	
1	4677.130	2	24456.635	-19779.507	2	.	.	3.0-	4.0	.	.	.	1.000	0.000*	0	204	206	21374.7991	SIGMA*
1	4677.079	3	24613.274	-29290.355	-2	.	.	5.0-	6.0	.	.	.	1.160	0.920	240	012	11	21375.0321	
1	4674.859	2	25662.969	-20988.110	0	.	.	5.0-	4.0	.	.	.	1.330	1.374*	44	355	357	21385.1827	
1	4673.367	2	16155.109	-20923.475	1	.	.	5.0-	4.0	.	.	.	0.948	0.352	596	-192	-193	21392.0101	
1	4672.966	2	19558.257	-24231.226	-3	.	.	2.0-	2.0	.	.	.	-0.145	0.411	556	160	166	21393.8458	
1	4670.676	1	28239.640	-23618.964	0	.	.	3.0-	3.0	.	.	.	1.130	0.000*	0	220	221	21404.3350	
1	4669.796	4	25959.849	-21290.050	-3	.	.	1.0-	2.0	.	.	.	1.037	0.000*	0	182	182	21408.3686	
1	4668.620	2	30375.227	-25706.606	-1	.	.	6.0-	7.0	.	.	.	1.320	0.000*	0	105	105	21413.7612	
	4668.594	2H																21413.8805	IS*
1	4667.092	2	28268.265	-23501.171	-2	.	.	1.0-	1.0	.	.	.	1.252	0.565	687	-049	-49	21420.7721	
1	4664.704	3	22429.984	-17765.281	1	.	.	4.0-	3.0	.	.	.	1.279	1.680*	401	175	177	21431.7380	
1	4664.635	2	30319.724	-25655.090	1	.	.	3.0-	4.0	.	.	.	1.010	1.165	155	000	5	21432.0550	
1	4662.923	1	23315.209	-18652.287	1	.	.	2.0-	3.0	.	.	.	1.335	0.822	513	-039	-91	21439.9239	
1	4662.346	2	22307.633	-26969.979	0	.	.	3.0-	3.0	.	.	.	1.434	0.000*	0	-265	-263	21442.5772	
1	4661.933	1	24347.551	-29009.433	1	.	.	3.0-	4.0	.	.	.	1.300	0.695*	605	046	46	21444.4768	
1	4660.595	1	29299.312	-24638.713	-4	.	.	1.0-	2.0	.	.	.	1.307	0.000*	0	162	159	21450.6333	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES	
1	4658.767	1	26009.000-30667.769	-2	.	.	.	.	.	3.0-	4.0	.	.	.	0.870	1.265*	395	-040	-46	21459.0500	
1	4657.035	1	21703.960-26330.997	-2	.	.	.	.	.	5.0-	5.0	.	.	.	1.120	0.796	324	-224	-228	21467.0309	
1	4656.622	3	25323.907-20672.283	-2	.	.	.	.	.	3.0-	2.0	.	.	.	1.340	1.430*	90	104	105	21468.9348	
1	4655.003	2	29307.360-24652.353	1	.	.	.	.	.	8.0-	9.0	.	.	.	0.000	0.000*	0	148	145	21476.3786	
1	4654.887	2	22182.030-26836.911	6	.	.	.	.	.	2.0-	2.0	.	.	.	1.295	1.260*	35	005	3	21476.9369	
1	4654.472	1	22982.904-27637.377	-1	.	.	.	.	.	2.0-	1.0	.	.	.	1.257	1.280	23	-168	-169	21478.8518	
1	4653.241	4	18131.485-13528.246	2	.	.	.	.	.	0.0-	1.0	.	.	.	0.000	-0.590*	0	396	396	21484.5339	
1	4651.708	3	22416.990-17765.281	-1	.	.	.	.	.	2.0-	3.0	.	.	.	1.675	1.680*	5	152	155	21491.6143	
1	4651.649	1	21420.983-26072.627	5	.	.	.	.	.	3.0-	2.0	.	.	.	1.663	1.500*	163	-162	-159	21491.8869	
1	4649.772	2	29568.328-24918.555	-1	.	.	.	.	.	7.0-	6.0	.	.	.	0.000	0.000*	0	173	172	21500.5627	
1	4649.259	2	24091.173-23740.433	-1	.	.	.	.	.	3.0-	3.0	.	.	.	1.245	0.970	275	028	27	21502.9350	
1	4647.531	1	23001.649-27652.180	0	.	.	.	.	.	5.0-	6.0	.	.	.	1.196	1.250	54	-341	-350	21510.9301	
1	4647.019	2	21703.960-26350.982	-3	.	.	.	.	.	5.0-	4.0	.	.	.	1.120	0.796	324	-129	-128	21513.3001	
1	4645.141	2	27096.974-22451.834	1	.	.	.	.	.	4.0-	5.0	.	.	.	1.180	0.000*	0	242	238	21521.9978	
1	4644.060	2	22176.323-26820.380	3	.	.	.	.	.	1.0-	2.0	.	.	.	1.210	1.160*	50	-064	-70	21527.0075	
1	4643.246	2	32185.115-27542.874	5	.	.	.	.	.	4.0-	5.0	.	.	.	1.212	1.270*	58	000	3	21530.7813	IS*
1	4641.985	1	24091.173-28733.159	-1	.	.	.	.	.	3.0-	4.0	.	.	.	1.245	1.035	210	187	189	21536.6302	
1	4639.680	3	20335.328-15745.648	0	.	.	.	.	.	2.0-	3.0	.	.	.	1.911	1.145	766	145	144	21547.3296	
1	4633.354	2	22182.030-26820.380	4	.	.	.	.	.	2.0-	2.0	.	.	.	1.295	1.160	135	020	20	21553.4895	
	4638.152	1																		359	21554.4282	
1	4635.061	2	24158.741-28793.800	2	.	.	.	.	.	2.0-	3.0	.	.	.	1.240	1.083*	157	010	10	21568.8023	
	4634.250	2																		369	21572.5769	
1	4633.376	1	25828.024-30461.399	1	.	.	.	.	.	4.0-	5.0	.	.	.	1.310	0.990*	320	103	102	21576.6462	
2	4632.610	2	20121.145-15688.530	-5	.	.	.	.	.	2.5-	3.5	.	.	.	0.710	1.057*	347	459	459	21580.2139	
1	4630.955	2H	22176.323-26807.278	0	.	.	.	.	.	1.0-	1.0	.	.	.	1.210	0.550*	660	-190	-187	21587.9262	
2	4630.921	2	21670.405-17039.487	3	.	.	.	.	.	1.5-	1.5	.	.	.	2.328	1.354	974	433	438	21588.0846	
1	4627.870	4	17081.874-21709.745	-1	.	.	.	.	.	4.0-	3.0	.	.	.	1.217	0.980	237	028	27	21602.3170	
1	4627.550	2	29108.865-24431.313	-2	.	.	.	.	.	5.0-	6.0	.	.	.	1.210	0.000*	0	050	57	21603.8108	
1	4627.280	1	14025.007-18652.287	0	.	.	.	.	.	2.0-	3.0	.	.	.	0.975	0.822	153	-141	-141	21605.0714	
1	4625.250	2	22182.030-26807.278	2	.	.	.	.	.	4.0-	1.0	.	.	.	1.295	0.550	745	-097	-97	21614.5537	
1	4623.823	2	19959.027-24582.849	1	.	.	.	.	.	1.0-	2.0	.	.	.	0.760	0.640*	120	278	273	21621.2244	
1	4619.972	3	27979.161-23359.187	-2	.	.	.	.	.	2.0-	3.0	.	.	.	1.186	1.030*	156	102	98	21639.2469	
1	4618.260	1	24216.272-28834.535	-3	.	.	.	.	.	6.0-	5.0	.	.	.	1.005	0.978	27	-134	-132	21647.2686	
1	4617.593	1	9724.351-14341.947	-3	.	.	.	.	.	3.0-	2.0	.	.	.	0.442	0.852	410	-400	-401	21650.3955	
1	4616.007	1	25109.417-29725.422	2	.	.	.	.	.	8.0-	7.0	.	.	.	1.090	1.220*	130	-318	-318	21657.8343	
1	4615.717	1	24653.345-29269.059	3	.	.	.	.	.	1.0-	1.0	.	.	.	0.860	1.110*	250	-010	-14	21659.1950	
1	4613.578	3	21737.407-26350.982	3	.	.	.	.	.	3.0-	4.0	.	.	.	1.026	0.796	230	101	99	21669.2369	
1	4610.300	2	26374.994-21764.690	-4	.	.	.	.	.	4.0-	5.0	.	.	.	0.000	0.000*	0	178	178	21684.6441	
1	4609.421	3	22182.030-17572.608	-1	.	.	.	.	.	2.0-	2.0	.	.	.	1.295	0.555	740	059	60	21688.7793	
1	4608.226	1	19059.958-23668.184	0	.	.	.	.	.	5.0-	4.0	.	.	.	1.375	0.940*	435	-120	-118	21694.4036	
1	4605.945	2	23720.664-28326.610	-1	.	.	.	.	.	3.0-	4.0	.	.	.	0.790	1.260*	470	-088	-88	21705.1473	
1	4603.735	4	25591.845-20983.110	0	.	.	.	.	.	3.0-	4.0	.	.	.	0.990	1.374*	384	192	188	21715.5668	2LNSIS*
1	4603.721	4	22176.323-17572.608	6	.	.	.	.	.	1.0-	2.0	.	.	.	1.210	0.555*	655	144	150	21715.6328	2LNSIS*
1	4603.007	4	27054.840-22451.834	1	.	.	.	.	.	4.0-	5.0	.	.	.	1.225	0.000*	0	149	149	21719.0013	
1	4601.539	4	24331.050-19779.507	-4	.	.	.	.	.	5.0-	4.0	.	.	.	1.450	0.000*	0	117	117	21725.9302	
1	4600.286	1	18578.669-23178.955	0	.	.	.	.	.	1.0-	1.0	.	.	.	1.932	1.130*	802	-165	-162	21731.8478	
	4599.536	1																		-005	21735.3914	
1	4595.185	1	24534.240-19939.052	-3	.	.	.	.	.	2.0-	3.0	.	.	.	0.000	0.000*	0	210	212	21755.9718	
1	4593.603	1	20065.327-24653.931	-1	.	.	.	.	.	3.0-	4.0	.	.	.	0.998	1.080	82	-061	-69	21763.4643	
1	4592.213	2	28241.585-23649.372	0	.	.	.	.	.	5.0-	4.0	.	.	.	1.180	0.000*	0	175	175	21770.0518	
1	4591.710	2	22719.949-27311.658	1	.	.	.	.	.	4.0-	5.0	.	.	.	1.070	1.035	35	153	152	21772.4367	
1	4587.877	2	25328.907-20741.029	-1	.	.	.	.	.	3.0-	2.0	.	.	.	1.340	0.000*	0	080	80	21790.6267	
1	4587.156	1	25617.477-30204.635	-2	.	.	.	.	.	2.0-	1.0	.	.	.	1.360	0.590*	770	075	74	21794.0517	
1	4583.383	3	16834.379-21417.765	-3	5.0-	4.0	.	.	.	0.961	0.802	159	055	56	21811.9924		
1	4581.693	2	24158.741-28740.433	1	2.0-	3.0	.	.	.	1.240	0.970*	270	030	34	21820.0380		

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C	HAVENUMBER	I	T2	T1	O-C	OBS J2	OSS J1	TERM J2	TERM J1	OBS 62	OBS 61	OBS 06	TERM 62	TERM 61	TERM 06	OBS IS	TERM IS	WAVELENGTH	NOTES
1	4580.631	3	25870.685	-21290.050	-4	.	.	2.0-	2.0	.	.	.	1.170	0.000*	0	149	150	21825.0969	
1	4573.709	3	28595.088	-24016.378	-1	.	.	6.0-	5.0	.	.	.	1.200	1.560*	360	106	106	21834.2584	
1	4577.051	1	18591.122	-23158.176	-3	.	.	4.0-	5.0	.	.	.	0.965	1.115	150	-166	-165	21842.1677	
1	4574.086	5	18578.669	-23152.755	0	.	.	1.0-	2.0	.	.	.	1.932	0.580	1352	-160	-155	21856.3261	
1	4573.593	1	27124.898	-22551.302	-3	.	.	2.0-	3.0	.	.	.	1.190	0.000*	0		128	21858.6821	
1	4569.657	2	14737.788	-19507.447	-2	.	.	3.0-	4.0	.	.	.	0.815	0.000*	0	-143	-144	21877.5097	
1	4568.040	1	24347.551	-19779.507	-4	.	.	3.0-	4.0	.	.	.	1.300	0.000*	0	176	175	21885.2539	
	4566.835	2				.	.			.	.	.				335		21891.0286	
1	4564.739	1	30995.841	-26431.101	-1	.	.	2.0-	3.0	.	.	.	1.470	0.807*	663	-015	-10	21901.0803	IS*
1	4563.625	1	27869.060	-32432.680	5	.	.	7.0-	7.0	.	.	.	1.250	1.140*	110	71	69	21906.4265	
1	4553.175	1	23413.710	-27976.881	4	.	.	4.0-	3.0	.	.	.	0.000	1.030*	0		-35	21908.5868	
1	4563.039	4	28036.676	-23473.535	-2	.	.	6.0-	6.0	.	.	.	1.216	0.000*	0	206	207	21908.9997	
1	4561.474	1	29307.360	-33868.834	0	.	.	8.0-	9.0	.	.	.	0.000	1.165*	0	-005	-3	21916.7566	
1	4559.102	1	23413.710	-27972.815	-3	.	.	4.0-	4.0	.	.	.	0.000	0.979*	0	028	27	21928.1594	
1	4558.067	1	26317.729	-30875.798	-2	.	.	4.0-	4.0	.	.	.	1.180	1.080*	100	-020	-19	21933.1387	
1	4557.250	4	23413.710	-18356.461	1	.	.	4.0-	5.0	.	.	.	0.000	1.325*	0	287	287	21937.0707	
1	4555.842	2	30262.453	-25706.606	-5	.	.	6.0-	7.0	.	.	.	1.284	0.000*	0	137	138	21943.8505	
1	4553.960	3	20554.712	-25208.672	0	.	.	1.0-	2.0	.	.	.	0.200	0.490	290	219	218	21952.9191	
1	4553.038	3	26317.729	-21764.690	-1	.	.	4.0-	5.0	.	.	.	1.180	0.000*	0	142	139	21957.3647	
1	4551.175	1	28021.637	-32572.811	1	.	.	5.0-	5.0	.	.	.	1.400	1.010*	390	-010	-5	21966.3528	
1	4548.422	3	29617.177	-25068.751	-4	.	.	7.0-	7.0	.	.	.	1.380	0.000*	0	100	100	21979.6483	
1	4548.052	2	28021.637	-23473.535	0	.	.	5.0-	6.0	.	.	.	1.400	0.000*	0	142	139	21981.4364	
1	4547.449	2	27334.422	-31231.871	0	.	.	7.0-	7.0	.	.	.	1.240	1.120*	120	094	94	21984.3512	IS*
1	4547.364	2	26283.495	-21736.133	2	.	.	7.0-	7.0	.	.	.	1.080	0.000*	0	138	138	21984.7621	
1	4547.168	1	20521.579	-25068.751	-4	.	.	6.0-	7.0	.	.	.	1.246	0.000*	0	-398	-394	21985.7097	
1	4546.339	2	30995.841	-26449.501	-1	.	.	2.0-	3.0	.	.	.	1.470	0.940*	530	005	6	21989.7187	
1	4545.305	2	25828.024	-30373.329	0	.	.	4.0-	4.0	.	.	.	1.310	1.345*	35	-005	-11	21994.7211	
1	4544.672	2	19074.292	-23618.964	0	.	.	2.0-	3.0	.	.	.	1.532	0.000*	0	-197	-198	21997.7846	
1	4544.378	1	27903.565	-23359.187	0	.	.	2.0-	3.0	.	.	.	1.300	1.030*	270	330	328	21999.2078	
1	4542.352	3	22307.633	-17765.281	0	.	.	3.0-	3.0	.	.	.	1.434	1.680*	246	288	290	22009.0200	
1	4541.059	2	28906.355	-24365.295	-1	.	.	3.0-	3.0	.	.	.	1.230	1.475	245	266	266	22015.2867	
1	4540.287	1	29193.490	-24653.200	-3	.	.	6.0-	6.0	.	.	.	1.240	0.000*	0	110	113	22019.0300	
1	4539.938	1	19426.512	-23766.450	0	.	.	3.0-	3.0	.	.	.	1.435	0.760	675	-053	-56	22020.7227	
1	4533.227	1	23004.649	-27542.874	2	.	.	5.0-	5.0	.	.	.	1.196	1.270*	74	-239	-239	22029.0250	
1	4530.859	4	21307.390	-16776.530	-1	.	.	1.0-	1.0	.	.	.	2.360	0.000*	0	156	156	22064.8482	
1	4526.922	2	18602.505	-23129.429	-2	.	.	6.0-	5.0	.	.	.	0.910	1.168	258	-134	-135	22084.0377	
1	4524.242	3	20769.512	-25293.751	3	.	.	2.0-	3.0	.	.	.	1.070	0.965*	105	-089	-92	22097.1195	
1	4523.845	1	27415.500	-31939.345	0	.	.	5.0-	6.0	.	.	.	1.370	1.200*	170	-040	-42	22099.0587	
1	4523.444	1	23281.721	-27805.163	2	.	.	5.0-	5.0	.	.	.	1.235	1.024	211	061	61	22101.0177	
1	4521.267	1	30997.335	-26476.063	0	.	.	5.0-	4.0	.	.	.	1.200	1.605*	405	162	162	22111.6594	
1	4517.577	2	24456.635	-19939.052	-6	.	.	3.0-	3.0	.	.	.	1.000	0.000*	0	219	219	22129.7205	
1	4514.663	2	15424.387	-19939.052	-2	.	.	3.0-	3.0	.	.	.	1.106	0.000*	0	-404	-404	22144.0041	
1	4514.264	3	27643.693	-23129.429	0	.	.	4.0-	5.0	.	.	.	1.310	1.168*	142	089	90	22145.9614	
1	4513.845	2	22429.984	-26943.829	0	.	.	4.0-	5.0	.	.	.	1.279	1.220	59	-005	-11	22148.0171	
1	4503.105	1	25121.896	-29625.003	-2	.	.	1.0-	2.0	.	.	.	1.444	0.910*	534	036	36	22200.8406	
2	4501.590	3	24023.940	-20322.349	-1	.	.	5.5-	6.5	.	.	.	0.000	1.314*	0	458	460	22208.3123	
1	4500.427	2	25328.907	-20828.475	-5	.	.	3.0-	4.0	.	.	.	1.340	0.352	988	-125	-125	22214.0513	
1	4498.740	2	24437.792	-19939.052	0	.	.	4.0-	3.0	.	.	.	1.500	0.000*	0	335	335	22222.3815	
1	4497.231	1	28513.607	-24016.378	2	.	.	5.0-	5.0	.	.	.	1.157	1.560	403	203	203	22229.8380	
1	4496.335	2	22377.599	-26373.930	4	.	.	7.0-	6.0	.	.	.	1.076	1.125	49	-056	-56	22234.2678	
1	4494.894	1	27909.524	-32104.416	2	.	.	4.0-	5.0	.	.	.	1.270	1.055*	215	073	72	22241.3953	
1	4493.180	4	20769.512	-16276.332	0	.	.	2.0-	2.0	.	.	.	1.070	1.880*	810	118	120	22249.8801	
1	4492.717	2	23446.024	-23953.307	0	.	.	1.0-	2.0	.	.	.	0.745	1.265	520	118	117	22252.1731	
1	4490.322	1	21603.247	-26093.563	6	.	.	2.0-	1.0	.	.	.	0.060	0.082*	142	000	1	22264.0418	
	4489.113	2				.	.			.	.	.				350		22270.0379	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	4484.956	1	26394.711-22409.753			-2	.	.	3.0-	2.0	.	.	.	1.465	1.413	52	197	200	22290.6795	IS*
1	4480.752	3	26283.495-30764.244			3	.	.	7.0-	6.0	.	.	.	1.080	0.975	105	024	23	22311.5934	
1	4476.364	2	25636.914-30113.280			-2	.	.	6.0-	6.0	.	.	.	1.335	1.050	285	114	111	22333.4646	
1	4476.297	2	30131.323-25555.090			-1	.	.	3.0-	4.0	.	.	.	1.232	1.165	67	020	20	22333.7988	
1	4474.662	1	17051.874-21556.538			-2	.	.	4.0-	4.0	.	.	.	1.217	1.290	73	-413	-410	22341.9594	
1	4472.235	1	27651.193-23178.955			-2	.	.	2.0-	1.0	.	.	.	1.570	1.130*	440	189	190	22354.0790	
	4471.209	2					.	.			.	.	.				194		22359.2135	
1	4471.051	1	20654.712-25125.763			0	.	.	1.0-	1.0	.	.	.	0.200	0.314	114	231	231	22360.0037	
1	4470.534	3	28951.847-24481.313			0	.	.	5.0-	6.0	.	.	.	1.290	0.000*	0	-	-1	22362.5395	
1	4470.274	3	16202.112-20672.390			-4	.	.	0.0-	1.0	.	.	.	0.000	0.000*	0	-351	-350	22363.8902	
	4469.099	2					.	.			.	.	.				-457		22369.7700	ISQ
1	4466.304	2	28432.680-24016.378			2	.	.	6.0-	5.0	.	.	.	1.180	1.560*	330	183	185	22383.7690	
1	4465.425	1	27975.402-32440.827			0	.	.	7.0-	6.0	.	.	.	1.017	1.120*	103	-008	-8	22388.1751	
1	4464.607	2	14853.317-19317.922			2	.	.	4.0-	5.0	.	.	.	0.786	0.000*	0	-085	-84	22392.2771	
1	4457.276	2	27975.402-32432.680			-2	.	.	7.0-	7.0	.	.	.	1.017	1.140	123	071	62	22429.1062	
1	4455.663	2	29108.265-24653.200			-2	.	.	5.0-	6.0	.	.	.	1.210	0.000*	0	122	123	22437.2258	
1	4454.457	1	22219.737-17765.281			1	.	.	4.0-	3.0	.	.	.	0.750	1.680*	930	164	165	22443.3005	
1	4454.128	3	14353.317-19307.447			-2	.	.	4.0-	4.0	.	.	.	0.786	0.000*	0	-071	-70	22444.9583	
1	4453.917	2	12322.613-16776.530			0	.	.	2.0-	1.0	.	.	.	1.036	0.000*	0	-415	-411	22446.0216	
1	4449.614	3	25121.893-20672.283			1	.	.	1.0-	2.0	.	.	.	1.444	1.430*	14	191	191	22467.7280	
1	4449.508	2	25121.836-20672.390			2	.	.	1.0-	1.0	.	.	.	1.444	0.000*	0	193	194	22468.2633	
1	4447.571	3	24090.570-28538.138			3	.	.	7.0-	7.0	.	.	.	1.130	1.060	70	*	34	22478.0486	
1	4447.201	1	20366.432-24753.684			-1	.	.	4.0-	4.0	.	.	.	1.123	0.975	148	-166	-166	22479.9187	
1	4446.190	1	25636.914-30033.102			2	.	.	6.0-	5.0	.	.	.	1.335	1.150*	185	016	16	22485.0304	
1	4444.121	3	22982.904-18538.782			-1	.	.	2.0-	2.0	.	.	.	1.257	1.600	343	297	298	22495.4985	
1	4439.854	2	17615.482-22055.339			-3	.	.	2.0-	3.0	.	.	.	1.450	0.000*	0	-329	-332	22517.1182	
1	4437.084	2	24759.250-20322.165			-1	.	.	6.0-	6.0	.	.	.	1.098	1.360*	262	364	364	22531.1753	
1	4435.007	2	24153.741-28593.749			-1	.	.	2.0-	1.0	.	.	.	1.240	1.713*	473	-069	-73	22541.7271	ISQ
1	4434.119	2	22509.712-26943.829			2	.	.	5.0-	5.0	.	.	.	1.287	1.220	67	-178	-181	22546.2414	IS*
1	4433.552	3	26285.338-22451.834			-2	.	.	5.0-	5.0	.	.	.	1.055	0.000*	0	128	131	22549.1248	
1	4433.126	3	20709.458-16276.332			0	.	.	3.0-	2.0	.	.	.	1.240	1.830*	640	176	176	22551.2916	
1	4431.146	2	18591.122-23022.274			-6	.	.	4.0-	5.0	.	.	.	0.965	0.817	148	-206	-207	22561.3684	
1	4428.706	3	23766.136-19337.431			1	.	.	1.0-	1.0	.	.	.	2.162	2.410*	248	051	54	22573.7986	
1	4426.061	4	19776.904-24202.966			-1	.	.	6.0-	5.0	.	.	.	1.012	1.012	0	-012	-11	22587.2887	
1	4425.260	4	23281.721-18856.461			0	.	.	5.0-	5.0	.	.	.	1.235	1.325	90	189	189	22591.3771	
1	4421.030	1	30932.959-35354.050			-1	.	.	6.0-	7.0	.	.	.	1.340	0.000*	0	093	92	22612.6854	
1	4420.172	1	23763.470-19343.298			0	.	.	4.0-	3.0	.	.	.	0.970	1.135*	165	275	275	22617.3817	
1	4419.769	3	18602.505-23022.274			0	.	.	6.0-	5.0	.	.	.	0.910	0.817	93	008	6	22619.4440	
	4418.937	1					.	.			.	.	.				091		22623.7028	
1	4418.398	4	23274.858-18856.461			1	.	.	4.0-	5.0	.	.	.	1.604	1.325	279	147	155	22626.4627	
1	4416.748	5	22132.030-17765.281			-1	.	.	2.0-	3.0	.	.	.	1.295	1.680*	335	086	88	22634.9154	
1	4415.935	1	25706.036-21270.050			-1	.	.	2.0-	2.0	.	.	.	1.290	0.000*	0	154	150	22638.8263	
1	4415.550	2	19203.415-23618.964			1	.	.	2.0-	3.0	.	.	.	1.021	0.000*	0	-377	-371	22641.0566	
1	4414.115	6	21737.407-17323.291			-1	.	.	3.0-	4.0	.	.	.	1.026	1.250*	224	155	155	22648.4171	
1	4413.381	2	23156.938-23743.557			0	.	.	6.0-	6.0	.	.	.	1.335	0.000*	0	126	127	22652.1838	
1	4410.461	2	27563.217-23152.755			-1	.	.	1.0-	2.0	.	.	.	0.745	0.580	165	146	144	22667.1810	
2	4409.474	2	23171.032-13761.530			22	.	.	4.5-	5.5	.	.	.	1.240	1.296*	56	462	464	22672.2547	
1	4408.195	3	19553.257-23956.450			2	.	.	2.0-	3.0	.	.	.	-0.145	0.760	905	080	78	22678.8329	
1	4405.912	1	14912.011-19317.922			1	.	.	4.0-	5.0	.	.	.	0.496	0.000*	0	010	13	22690.5843	
1	4405.545	2	22132.030-17776.483			-2	.	.	2.0-	2.0	.	.	.	1.295	0.565	730	-154	-154	22692.4745	
1	4403.930	4	27415.500-23011.570			0	.	.	5.0-	4.0	.	.	.	1.370	0.000*	0	097	97	22700.7963	
1	4400.039	1	20521.579-24921.671			-3	.	.	6.0-	5.0	.	.	.	1.246	1.034	212	-111	-106	22720.6126	IS*
1	4399.839	3	22176.323-17776.483			-1	.	.	1.0-	2.0	.	.	.	1.210	0.565*	645	-065	-64	22721.9036	
1	4399.633	1	24648.621-29048.255			-1	.	.	0.0-	1.0	.	.	.	0.000	0.900	0		-24	22722.9675	
1	4396.971	2	20521.579-24918.555			-5	.	.	6.0-	6.0	.	.	.	1.246	0.000*	0	-395	-392	22736.7244	

C	WAVELENGTH	I	T2	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS 62	OBS 61	OBS DG	TERM 62	TERM 61	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	4395.892	2	25717.383	-30113.280	0	.	.	5.0-	6.0	.	.	.	0.970	1.050*	80	131	126	22742.3053	
1	4395.435	2	14912.011	-19307.447	-1	.	.	4.0-	4.0	.	.	.	0.496	0.000*	0	030	27	22744.6698	
1	4394.032	2	23274.858	-27658.890	0	.	.	4.0-	5.0	.	.	.	1.604	1.312	292	-020	-32	22751.9321	
1	4393.680	1	22837.092	-27259.768	4	.	.	3.0-	4.0	.	.	.	1.110	0.000*	0	-373	-373	22753.7549	
1	4393.000	3	16595.109	-20988.110	-1	.	.	3.0-	4.0	.	.	.	0.999	1.374	375	-365	-365	22757.2770	
1	4392.906	2	21812.682	-26205.589	-1	.	.	4.0-	3.0	.	.	.	1.040	0.701	339	-020	-24	22757.7640	
1	4392.368	2	25064.653	-20672.283	-2	.	.	3.0-	2.0	.	.	.	0.980	1.430*	450	174	171	22760.5515	IS*
1	4391.453	2	23413.710	-27805.163	0	.	.	4.0-	5.0	.	.	.	0.000	1.024*	0	-030	-37	22765.2938	
1	4387.306	2	28268.619	-24481.313	0	.	.	5.0-	6.0	.	.	.	1.085	0.000*	0	061	62	22786.8122	
1	4385.612	2	24347.551	-28733.159	4	.	.	3.0-	4.0	.	.	.	1.300	1.035*	265	114	115	22795.6139	
1	4384.850	1	26149.538	-21764.690	2	.	.	4.0-	5.0	.	.	.	1.360	0.000*	0	160	158	22799.5753	
1	4384.192	1	25591.845	-29976.039	-2	.	.	3.0-	4.0	.	.	.	0.990	1.070*	80	040	45	22802.9972	
1	4379.252	1	25370.685	-21491.439	6	.	.	2.0-	3.0	.	.	.	1.170	0.000*	0	136	140	22828.7201	
1	4378.381	3	20554.712	-16276.332	1	.	.	1.0-	2.0	.	.	.	0.200	1.880*	1680	143	143	22833.2614	
1	4377.370	2	23720.654	-19343.298	4	.	.	3.0-	3.0	.	.	.	0.790	1.135*	345	179	181	22838.5350	
2	4374.807	3	19863.335	-15488.530	2	.	.	2.5-	3.5	.	.	.	0.921	1.057	136	450	450	22851.9151	
1	4372.910	2	24188.639	-28561.548	1	.	.	1.0-	2.0	.	.	.	0.667	0.784	117	088	87	22861.8284	
1	4369.850	2	24149.361	-19779.507	-4	.	.	5.0-	4.0	.	.	.	1.262	0.000*	0	209	210	22877.8375	
1	4364.854	1	19959.027	-24323.894	-3	.	.	1.0-	1.0	.	.	.	0.760	0.800*	40	118	118	22904.0234	
1	4359.531	1	25916.069	-21556.538	0	.	.	3.0-	4.0	.	.	.	1.350	1.290*	60	120	123	22931.9893	
1	4355.625	2	22982.904	-18627.281	2	.	.	2.0-	1.0	.	.	.	1.257	0.000*	0	351	352	22952.5541	
1	4355.125	1	15424.357	-19779.507	5	.	.	3.0-	4.0	.	.	.	1.106	0.000*	0	-392	-391	22955.1892	
1	4352.448	2	20306.482	-24558.931	-1	.	.	4.0-	4.0	.	.	.	1.123	1.030	43	-054	-55	22969.3079	
1	4347.590	1	24149.361	-28496.950	1	.	.	5.0-	4.0	.	.	.	1.262	0.810	452	-012	-13	22994.9739	
1	4340.794	4	25328.907	-20938.110	-3	.	.	3.0-	4.0	.	.	.	1.340	1.374	34	085	86	23030.9751	
1	4337.046	2	19281.917	-23618.964	-1	.	.	2.0-	3.0	.	.	.	1.822	0.000*	0	-377	-377	23050.8781	
1	4336.585	2	25828.024	-21491.439	0	.	.	4.0-	3.0	.	.	.	1.310	0.000*	0	090	90	23053.3285	
1	4335.889	2	17081.874	-21417.765	-2	.	.	4.0-	4.0	.	.	.	1.217	0.802	415	036	39	23057.0290	
1	4333.286	2	27909.524	-32242.810	0	.	.	4.0-	5.0	.	.	.	1.270	1.215*	55	-078	-79	23070.8794	ISQ
1	4327.424	3	25617.477	-21290.050	-3	.	.	2.0-	2.0	.	.	.	1.360	0.000*	0	118	119	23102.1316	
	4322.744	2				.	.			.	.	.				441		23127.1430	
1	4321.817	1	22219.737	-17897.917	-3	.	.	4.0-	3.0	.	.	.	0.750	0.450	300	-273	-277	23132.1037	
1	4319.676	3	20065.327	-15745.648	-3	.	.	3.0-	3.0	.	.	.	0.998	1.145	147	406	405	23143.5688	
1	4318.979	2	24437.792	-28756.769	2	.	.	4.0-	5.0	.	.	.	1.500	1.165*	335	-203	-202	23147.3038	
1	4318.550	2	23037.432	-18718.882	0	.	.	1.0-	2.0	.	.	.	0.870	0.504	366	008	9	23149.6032	
1	4314.956	2	28268.265	-23953.307	-2	.	.	1.0-	2.0	.	.	.	1.252	1.265	13	061	69	23168.8849	
	4313.861	1				.	.			.	.	.				010		23174.7659	
1	4312.241	2	27491.196	-23178.955	0	.	.	2.0-	1.0	.	.	.	1.345	1.130*	215	268	267	23183.4721	
1	4311.662	5	24091.173	-19779.507	-4	.	.	3.0-	4.0	.	.	.	1.245	0.000*	0	102	101	23186.5853	
1	4308.797	1	30549.406	-26240.609	0	.	.	8.0-	8.0	.	.	.	0.000	0.000*	0	158	162	23202.0025	
1	4307.512	3	16520.962	-20828.475	-1	.	.	5.0-	4.0	.	.	.	0.736	0.352	384	+	21	23208.9241	
1	4307.445	3	27781.032	-23473.535	-2	.	.	6.0-	6.0	.	.	.	1.250	0.000*	0	160	162	23209.2851	
1	4298.646	3	28951.847	-24653.200	-1	.	.	5.0-	6.0	.	.	.	1.290	0.000*	0	065	65	23256.7927	
1	4298.308	2	22837.092	-18538.782	-2	.	.	3.0-	2.0	.	.	.	1.110	1.600*	490	334	334	23258.6216	
1	4296.371	0	16532.104	-20828.475	0	.	.	3.0-	4.0	.	.	.	0.300	0.352	52	016	17	23269.1076	
1	4293.119	2	28036.676	-23743.557	0	.	.	6.0-	6.0	.	.	.	1.216	0.000*	0	212	210	23286.7338	
1	4291.109	4	24613.274	-20322.165	0	.	.	5.0-	6.0	.	.	.	1.160	1.360*	200	182	185	23297.6415	
1	4290.794	1	30766.862	-26476.068	0	.	.	5.0-	4.0	.	.	.	0.950	1.605*	655	137	140	23299.3519	IS*
1	4286.070	2	27415.500	-23129.429	-1	.	.	5.0-	5.0	.	.	.	1.370	1.168*	202	072	71	23325.0319	
1	4284.894	3	19074.292	-23359.137	-1	.	.	2.0-	3.0	.	.	.	1.532	1.030*	502	-165	-166	23331.4335	
1	4279.011	2	27301.298	-23022.274	-3	.	.	4.0-	5.0	.	.	.	0.985	0.817	168	036	36	23363.5107	
1	4276.526	1	24456.635	-28733.159	2	.	.	3.0-	4.0	.	.	.	1.000	1.035*	35	085	84	23377.0868	
1	4274.937	1	29193.490	-24918.555	2	.	.	6.0-	6.0	.	.	.	1.240	0.000*	0	191	190	23385.7761	
1	4272.196	2	19959.027	-24231.226	-3	.	.	1.0-	2.0	.	.	.	0.760	0.411*	349	236	240	23400.7802	
1	4271.485	4	25328.024	-21556.538	-1	.	.	4.0-	4.0	.	.	.	1.310	1.290*	20	112	114	23404.6753	

C	HAVE	NUMBER	I	T2	-	T1	O-C	OBS	OBS	TERM	TERM	OBS	OBS	OBS	TERM	TERM	TERM	OBS	TERM	HAVELENGTH	NOTES
								J2	J1	J2	J1	G2	G1	DG	G2	G1	DG	IS	IS		
1	4270.156	1	25560.208-21290.050	-2	.	.	.	1.0-	2.0	.	.	.	.	.	1.500	0.000*	0	336	335	23411.9595	ISQ
1	4267.392	1	24742.092-29009.483	1	.	.	.	4.0-	4.0	.	.	.	.	.	0.980	0.695*	285	012	11	23427.1235	
1	4264.022	2	22982.904-18718.882	0	.	.	.	2.0-	2.0	.	.	.	.	.	1.257	0.504	753	-040	-43	23445.6338	IS*
1	4263.779	3	20540.110-16276.332	1	.	.	.	3.0-	2.0	.	.	.	.	.	0.830	1.880*	1050	172	172	23446.9750	
1	4262.496	3	21031.253-25293.751	3	.	.	.	2.0-	3.0	.	.	.	.	.	1.455	0.965	490	-061	-64	23454.0325	
1	4262.391	3	26317.729-22055.339	1	.	.	.	4.0-	3.0	.	.	.	.	.	1.180	0.000*	0	135	141	23454.6102	IS*
1	4254.726	2	21031.252-16776.530	-2	.	.	.	2.0-	1.0	.	.	.	.	.	1.455	0.000*	0	093	93	23496.8644	IS*
1	4253.384	3	20385.328-24638.713	-1	.	.	.	2.0-	2.0	.	.	.	.	.	1.911	0.000*	0	-146	-149	23504.2779	
	4252.811	2			.	.	.			.	.	.	.	.						23507.4448	
1	4249.074	2	22182.030-26431.101	3	.	.	.	2.0-	3.0	.	.	.	.	.	1.295	0.807	488	056	55	23528.1192	
1	4244.250	2	26696.033-22451.834	1	.	.	.	5.0-	5.0	.	.	.	.	.	1.315	0.000*	0	117	119	23554.8612	
1	4243.867	2	25828.024-30071.890	1	.	.	.	4.0-	5.0	.	.	.	.	.	1.310	1.290*	20	-	-3	23556.9870	
1	4241.955	3	21998.645-26240.609	-9	.	.	.	7.0-	8.0	.	.	.	.	.	1.269	0.000*	0	-390	-388	23567.6050	
1	4241.532	1	23735.353-27976.881	4	.	.	.	2.0-	3.0	.	.	.	.	.	0.935	1.080*	145	101	102	23569.9554	
	4240.031	1			.	.	.			.	.	.	.	.				177		23578.2993	
1	4238.503	4	25974.634-21736.133	2	.	.	.	6.0-	7.0	.	.	.	.	.	1.370	0.000*	0	198	198	23586.7994	
1	4235.884	2	25109.417-29346.299	2	.	.	.	8.0-	7.0	.	.	.	.	.	1.090	1.200*	110	-080	-82	23595.8124	
1	4236.723	2	18578.669-14341.947	1	.	.	.	1.0-	2.0	.	.	.	.	.	1.932	0.852	1080	154	149	23596.7090	ISQ
	4235.760	1			.	.	.			.	.	.	.	.				074		23602.0738	ISQ
1	4235.437	1	24091.173-28326.610	0	.	.	.	3.0-	4.0	.	.	.	.	.	1.245	1.260*	15	-030	-31	23603.8737	
1	4233.364	3	16595.109-20828.475	-2	.	.	.	3.0-	4.0	.	.	.	.	.	0.999	0.352	647	-154	-154	23615.4321	
1	4232.225	2	27705.804-23473.585	6	.	.	.	5.0-	6.0	.	.	.	.	.	1.160	0.000*	0	223	227	23621.7876	
1	4226.083	1	22181.358-26407.449	2	.	.	.	3.0-	2.0	.	.	.	.	.	0.780	0.972*	192	+	7	23656.1185	
2	4222.926	1	18656.277-14433.351	0	.	.	.	1.5-	1.5	.	.	.	.	.	0.000	1.925*	0	448	447	23673.8035	
1	4222.859	1	19426.512-23649.372	-1	.	.	.	3.0-	4.0	.	.	.	.	.	1.435	0.000*	0	-249	-252	23674.1791	
1	4221.050	1	25209.162-20988.110	-2	.	.	.	5.0-	4.0	.	.	.	.	.	1.140	1.374*	234	377	368	23684.3250	
1	4219.728	3	20709.458-24929.184	2	.	.	.	3.0-	4.0	.	.	.	.	.	1.240	1.080	160	082	82	23691.7451	
1	4215.418	2	28968.619-24653.200	-1	.	.	.	5.0-	6.0	.	.	.	.	.	1.085	0.000*	0	131	128	23715.9684	
1	4213.574	3	20540.110-24753.684	0	.	.	.	3.0-	4.0	.	.	.	.	.	0.830	0.975*	145	060	59	23726.3473	
1	4211.614	1	19594.767-23806.381	0	.	.	.	0.0-	1.0	.	.	.	.	.	0.000	0.094	0	184	184	23737.3891	
1	4209.941	1	25974.634-21764.690	-3	.	.	.	6.0-	5.0	.	.	.	.	.	1.370	0.000*	0	197	201	23746.8222	
1	4207.055	1	23550.352-19343.298	1	.	.	.	3.0-	3.0	.	.	.	.	.	1.090	1.135*	45	171	176	23763.1123	
1	4204.836	2	27216.458-23011.570	-2	.	.	.	5.0-	4.0	.	.	.	.	.	1.180	0.000*	0	319	319	23775.3700	
1	4204.382	2	18346.917-22551.302	-3	.	.	.	2.0-	3.0	.	.	.	.	.	1.518	0.000*	0	-292	-293	23778.2200	
1	4199.300	4	27334.422-23135.120	-2	.	.	.	7.0-	8.0	.	.	.	.	.	1.240	0.000*	0	146	146	23806.9965	
1	4195.274	2	29901.880-25706.606	0	.	.	.	8.0-	7.0	.	.	.	.	.	1.450	0.000*	0	046	48	23829.8429	
	4193.601	1			.	.	.			.	.	.	.	.				244		23839.3496	
1	4171.856	2	27301.228-23129.429	-3	.	.	.	4.0-	5.0	.	.	.	.	.	0.985	1.168	183	177	177	23963.6077	
1	4171.256	3	13726.661-17397.917	0	.	.	.	3.0-	3.0	.	.	.	.	.	1.150	0.450	700	026	37	23967.0547	IS*
1	4169.613	3	22181.368-26350.982	2	.	.	.	3.0-	4.0	.	.	.	.	.	0.780	0.796*	16	072	68	23976.4815	
	4167.223	2			.	.	.			.	.	.	.	.				162		23990.2210	
1	4166.375	1	22705.158-18538.782	-1	.	.	.	1.0-	2.0	.	.	.	.	.	-0.020	1.600*	1620	170	171	23995.1327	
1	4165.024	1	22671.890-26336.911	3	.	.	.	1.0-	2.0	.	.	.	.	.	0.599	1.260*	661	-224	-225	24002.9159	
1	4162.867	1	24903.894-20741.029	2	.	.	.	3.0-	2.0	.	.	.	.	.	0.915	0.000*	0	310	318	24015.3531	
1	4161.973	4	30375.227-26213.253	-1	.	.	.	6.0-	7.0	.	.	.	.	.	1.320	0.000*	0	132	132	24020.5116	
	4161.831	1			.	.	.			.	.	.	.	.				-065		24021.3312	ISQ
1	4159.500	3	20043.465-24202.966	-1	.	.	.	5.0-	5.0	.	.	.	.	.	0.925	1.012	87	232	232	24034.7929	
1	4157.140	1	20425.711-24582.849	2	.	.	.	1.0-	2.0	.	.	.	.	.	1.340	0.640	700	223	218	24048.4374	
1	4156.272	1	24816.699-28972.971	0	.	.	.	2.0-	2.0	.	.	.	.	.	1.165	0.794	371	030	37	24053.4597	
1	4154.568	3	26606.405-22451.834	-3	.	.	.	5.0-	5.0	.	.	.	.	.	1.130	0.000*	0	194	194	24063.3252	
1	4152.119	5	24091.173-19939.052	-2	.	.	.	3.0-	3.0	.	.	.	.	.	1.245	0.000*	0	114	114	24077.5183	
1	4149.373	4	20425.711-16276.332	-1	.	.	.	1.0-	2.0	.	.	.	.	.	1.340	1.830*	540	146	147	24093.4234	
1	4148.189	3	23004.649-13355.461	1	.	.	.	5.0-	5.0	.	.	.	.	.	1.196	1.325	129	359	358	24100.3293	
1	4144.420	1	24816.699-20572.233	4	.	.	.	2.0-	2.0	.	.	.	.	.	1.165	1.430*	265	177	179	24122.2466	
1	4141.998	1	24970.474-20828.475	-1	.	.	.	4.0-	4.0	.	.	.	.	.	1.460	0.352*	1108	-040	-37	24136.3519	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS J2	OBS J1	TERM J2	TERM J1	OBS G2	OBS G1	OBS G6	TERM G2	TERM G1	TERM G6	OBS IS	TERM IS	WAVELENGTH	NOTES
1	4141.261	3	22219.737-26360.997			1	.	.	4.0-	5.0	.	.	.	0.750	0.796	46	-008	-7	24140.6473	
1	4140.557	1	28156.938-24016.378			-3	.	.	6.0-	5.0	.	.	.	1.335	1.560	225	118	118	24144.7518	
1	4133.678	2	28906.355-24767.674			-3	.	.	3.0-	2.0	.	.	.	1.230	1.455	225	282	277	24155.7138	
1	4137.010	3	27755.977-23618.964			-3	.	.	3.0-	3.0	.	.	.	1.370	0.000*	0	128	128	24165.4531	
1	4129.879	3	23100.887-27230.768			-2	.	.	3.0-	4.0	.	.	.	1.520	0.000*	0	-061	-61	24207.1793	
1	4127.994	2	22566.777-18538.782			-1	.	.	3.0-	2.0	.	.	.	0.977	1.600	623	318	317	24218.2332	
1	4124.739	3	29193.490-25068.751			0	.	.	6.0-	7.0	.	.	.	1.240	0.000*	0	192	192	24237.3448	
1	4118.821	2	20540.110-24658.931			0	.	.	3.0-	4.0	.	.	.	0.830	1.080*	250	171	170	24272.1695	
	4111.991	1					.	.			.	.	.						24312.4855	
	4109.083	2H					.	.			.	.	.						24329.6915	
1	4108.996	6	20385.328-16276.332			0	.	.	2.0-	2.0	.	.	.	1.911	1.880*	31	150	150	24330.2066	
	4108.854	2					.	.			.	.	.						24331.0474	
1	4104.840	1	27578.418-23473.585			7	.	.	5.0-	6.0	.	.	.	1.120	0.000*	0	330	329	24354.8400	
	4103.870	2H					.	.			.	.	.						24360.5966	
1	4103.785	5	25339.917-21736.133			1	.	.	6.0-	7.0	.	.	.	1.250	0.000*	0	269	268	24361.1012	
1	4103.436	2	20385.328-24488.767			-3	.	.	2.0-	1.0	.	.	.	1.911	0.000*	0		-73	24363.1731	
1	4100.851	2	19865.603-23966.450			4	.	.	4.0-	3.0	.	.	.	1.100	0.760	340	-159	-158	24378.5306	
1	4097.694	3	21420.983-17323.291			2	.	.	3.0-	4.0	.	.	.	1.663	1.250*	413	192	192	24397.3127	
1	4095.025	1	25083.129-20988.110			6	.	.	5.0-	4.0	.	.	.	1.160	1.374*	214	391	397	24413.2140	
1	4093.657	2	15249.635-19343.298			-6	.	.	2.0-	3.0	.	.	.	0.715	1.135	420	-421	-421	24421.3723	
	4091.098	1					.	.			.	.	.				197		24436.6480	
1	4090.571	2	25113.744-29204.308			7	.	.	6.0-	5.0	.	.	.	1.302	0.896	406	000	4	24439.7963	IS*
1	4087.235	3	17615.482-13528.246			-1	.	.	2.0-	1.0	.	.	.	1.450	0.590*	2040	344	343	24459.7440	
1	4036.475	4	25074.585-20988.110			0	.	.	4.0-	4.0	.	.	.	1.507	1.374	133	068	68	24464.2930	
1	4084.555	1	20984.195-25068.751			-1	.	.	6.0-	7.0	.	.	.	1.319	0.000*	0	-401	-398	24475.7928	
1	4079.153	3	24751.439-20672.283			-3	.	.	1.0-	2.0	.	.	.	0.647	1.430*	783	238	238	24508.2060	
1	4077.878	2	22705.158-18627.281			1	.	.	1.0-	1.0	.	.	.	-0.020	0.000*	0	226	225	24515.8688	
1	4076.542	3	25064.653-20928.110			-1	.	.	3.0-	4.0	.	.	.	0.980	1.374	394	152	152	24523.9033	
1	4073.370	4	23416.666-19343.298			2	.	.	2.0-	3.0	.	.	.	1.320	1.135*	185	252	252	24543.0005	
1	4070.569	1	22219.737-26290.302			4	.	.	4.0-	5.0	.	.	.	0.750	1.125	375		-133	24559.8888	
1	4064.429	4	26516.261-22451.834			2	.	.	5.0-	5.0	.	.	.	1.200	0.000*	0	265	266	24596.9907	
1	4063.330	4	25828.024-21764.690			-4	.	.	4.0-	5.0	.	.	.	1.310	0.000*	0	093	93	24603.6434	
	4061.487	2					.	.			.	.	.				-010		24614.8079	
1	4058.881	4	24381.050-20322.165			-4	.	.	5.0-	6.0	.	.	.	1.450	1.360*	90	113	113	24630.6118	
1	4058.213	1	20709.458-24767.674			-3	.	.	3.0-	2.0	.	.	.	1.240	1.455	215		-171	24634.6661	
1	4056.576	3	25044.687-20988.110			-1	.	.	4.0-	4.0	.	.	.	1.210	1.374*	164	356	354	24644.6072	
1	4054.959	1	13517.647-17572.608			-2	.	.	2.0-	2.0	.	.	.	0.892	0.555	337	-365	-364	24654.4348	
1	4054.775	2	22289.053-26943.829			-1	.	.	4.0-	5.0	.	.	.	1.263	1.220	43	-186	-191	24655.5536	
1	4049.820	2	13726.661-17776.483			-2	.	.	3.0-	2.0	.	.	.	1.150	0.565	585	-162	-163	24685.7199	IS*
1	4049.203	3	30262.453-26213.253			3	.	.	6.0-	7.0	.	.	.	1.284	0.000*	0	164	165	24689.4814	
1	4047.402	1	21812.682-17765.281			1	.	.	4.0-	3.0	.	.	.	1.040	1.680*	640	227	230	24700.4677	
1	4047.241	1	23550.352-27597.590			3	.	.	3.0-	4.0	.	.	.	1.090	0.930*	160	144	140	24701.4503	
1	4046.300	2	27175.729-23129.429			0	.	.	4.0-	5.0	.	.	.	1.021	1.168	147	167	168	24707.1948	
1	4042.740	1	20540.110-24582.849			1	.	.	3.0-	2.0	.	.	.	0.830	0.640*	190	202	193	24728.9518	
2	4038.130	2	22799.695-18761.580			15	.	.	4.5-	5.5	.	.	.	1.330	1.296*	34	466	467	24757.1828	
1	4037.475	3	27781.032-23743.557			0	.	.	6.0-	6.0	.	.	.	1.250	0.000*	0	165	165	24761.1991	
1	4035.306	2	25591.845-21556.538			-1	.	.	3.0-	4.0	.	.	.	0.990	1.290*	300	198	199	24774.5084	
1	4032.591	4	22889.053-18856.461			-1	.	.	4.0-	5.0	.	.	.	1.263	1.325	62	349	350	24791.1882	
1	4026.329	3	14692.549-18718.882			-4	.	.	2.0-	2.0	.	.	.	0.292	0.504	212	-024	-26	24829.7451	
1	4025.855	1	27979.161-23953.307			1	.	.	2.0-	2.0	.	.	.	1.186	1.265	79	113	115	24832.6685	
	4024.128	1					.	.			.	.	.						24843.3257	
1	4014.280	3	21337.573-17323.291			-2	.	.	4.0-	4.0	.	.	.	1.137	1.250*	113	338	338	24904.2724	
1	4006.707	1	26516.261-30522.971			-3	.	.	5.0-	6.0	.	.	.	1.200	0.000*	0	-249	-249	24951.3435	
1	4005.404	2	19594.767-23601.171			0	.	.	0.0-	1.0	.	.	.	0.000	0.565	0	+	36	24953.2306	
	4005.060	2					.	.			.	.	.						24961.6043	

C	HAVENUMBER	I	T2	-	T1	O-C	OBS		OBS		OBS	TERM			OBS		WAVELENGTH	NOTES	
							J2	J1	J2	J1		G2	G1	DG	G2	G1			DG	IS	IS
	4004.998	4H																	
1	4004.973	5	18346.917	-	14341.947	3	.	.	.	.	.	.	1.518	0.852	666	296	294	24961.9907	
1	4004.833	2	30974.813	-	26959.979	-1	.	.	.	.	.	.	1.050	0.000*	0	+	265	24962.1465	
2	4004.833	2	42293.740	-	46304.585	-12	.	.	.	.	.	.	1.065	0.980*	85	+		24963.0192	C2 CQ
1	3994.278	3	19959.027	-	23953.307	-2	.	.	.	.	.	.	0.760	1.265*	505	-072	-75	25028.9847	C2 CQ
1	3994.095	2	16834.379	-	20328.475	-1	.	.	.	.	.	.	0.961	0.352	609	-172	-171	25030.1315	
1	3986.119	2	28467.436	-	24481.313	-4	.	.	.	.	.	.	1.210	0.000*	0	-005	-6	25080.2154	
1	3982.361	4	24970.474	-	20588.110	-3	.	.	.	.	.	.	1.460	1.374*	86	172	174	25103.8826	
1	3981.067	2	24653.345	-	20672.283	5	.	.	.	.	.	.	0.860	1.430*	570	234	234	25112.0424	
1	3977.778	3	23315.209	-	19337.431	0	.	.	.	.	.	.	1.335	2.410*	1075	170	172	25132.8061	
1	3971.911	4	23315.209	-	19343.298	0	.	.	.	.	.	.	1.335	1.135	200	189	189	25169.9304	
1	3970.977	3	21307.390	-	17336.413	0	.	.	.	.	.	.	2.360	0.000*	0	145	148	25175.8505	
1	3962.254	2	27705.804	-	23743.557	7	.	.	.	.	.	.	1.160	0.000*	0	230	230	25231.2758	
1	3955.168	3	14763.705	-	18718.882	-9	.	.	.	.	.	.	-0.066	0.504	570	-	-26	25276.4797	
1	3953.717	2	12322.613	-	16276.332	-2	.	.	.	.	.	.	1.036	1.880*	844	-411	-410	25285.7560	
1	3951.134	2	21703.960	-	25555.090	4	.	.	.	.	.	.	1.120	1.165	45	-278	-276	25302.2863	
1	3947.892	2	22666.777	-	18718.882	-3	.	.	.	.	.	.	0.977	0.504	473	-	-24	25323.0645	
1	3945.418	1	25681.552	-	21735.133	-1	.	.	.	.	.	.	1.039	0.000*	0	372	372	25338.9435	
1	3941.915	3	27415.500	-	23473.585	0	.	.	.	.	.	.	1.370	0.000*	0	098	98	25361.4610	
1	3941.153	3	23720.664	-	19779.507	-4	.	.	.	.	.	.	0.790	0.000*	0	158	158	25366.3645	
	3937.455	2					.	.	.	.	.	.						25390.1883	
	3936.874	2					.	.	.	.	.	.						25393.9353	
1	3931.559	2	23274.858	-	19343.298	-1	.	.	.	.	.	.	1.604	1.135	469	166	179	25428.2649	IS*
1	3914.497	2	14737.788	-	18652.287	-2	.	.	.	.	.	.	0.815	0.822	7	-136	-140	25539.0984	
1	3910.559	3	29617.177	-	25706.606	-2	.	.	.	.	.	.	1.380	0.000*	0	094	96	25564.7513	
1	3900.783	3	25636.914	-	21736.133	2	.	.	.	.	.	.	1.335	0.000*	0	162	161	25628.8863	
1	3894.888	3	21218.180	-	17323.291	-1	.	.	.	.	.	.	0.860	1.250*	390	380	379	25667.6762	
1	3887.953	2	15449.472	-	19337.431	-6	.	.	.	.	.	.	0.000	2.410*	0	-080	-80	25713.4601	
1	3878.204	3	22416.990	-	18538.782	-4	.	.	.	.	.	.	1.675	1.600	75	118	118	25778.0984	
1	3875.951	1	17615.482	-	21491.439	-6	.	.	.	.	.	.	1.450	0.000*	0	-321	-327	25793.0826	
1	3872.225	2	25636.914	-	21764.690	1	.	.	.	.	.	.	1.335	0.000*	0	164	164	25817.9017	
1	3863.488	3	22719.949	-	18856.461	0	.	.	.	.	.	.	1.070	1.325	255	161	161	25876.2871	
1	3860.316	2	22429.984	-	26290.302	-2	.	.	.	.	.	.	1.279	1.125	154	-140	-145	25897.5495	
1	3848.379	2	21420.983	-	17572.608	4	.	.	.	.	.	.	1.663	0.555	1108	173	168	25977.8792	
1	3827.193	3	24149.361	-	20322.165	-3	.	.	.	.	.	.	1.262	1.360*	98	206	206	26121.6837	
1	3789.071	2H	17500.977	-	21290.050	-2	.	.	.	.	.	.	2.258	0.000*	0	-269	-264	26384.4952	
1	3783.600	2	22416.990	-	25205.589	1	.	.	.	.	.	.	1.675	0.701	974	051	51	26387.7753	
1	3783.767	2	19865.603	-	23649.372	-2	.	.	.	.	.	.	1.100	0.000*	0	-352	-354	26421.4804	
1	3781.611	2	23720.664	-	19939.052	-1	.	.	.	.	.	.	0.790	0.000*	0	167	171	26436.5440	IS*
1	3775.070	2	14763.705	-	18538.782	-7	.	.	.	.	.	.	-0.066	1.600	1666	-367	-367	26482.3502	
1	3772.602	3	25828.024	-	22055.339	-3	.	.	.	.	.	.	1.310	0.000*	0	091	95	26499.1127	
1	3772.366	2	25328.907	-	21556.538	-3	.	.	.	.	.	.	1.340	1.290	50	100	97	26501.3325	
2	3771.131	1	15778.634	-	12007.503	0	.	.	.	.	.	.	1.133	-0.019	1152	472	472	26510.0114	
1	3768.045	2	22307.633	-	18538.782	-6	.	.	.	.	.	.	1.434	1.600	166	248	253	26526.0911	ISQ
1	3757.528	4	23100.837	-	19343.298	-1	.	.	.	.	.	.	1.520	1.135	385	076	76	26605.5581	
1	3700.734	2	25192.231	-	21491.439	-8	.	.	.	.	.	.	1.768	0.000*	0	+	4	27013.9318	
	3684.281	2					.	.	.	.	.	.						27134.9353	
1	3681.179	2	20457.704	-	16776.530	5	.	.	.	.	.	.	0.000	0.000*	0		116	27157.8010	
1	3680.870	4	19426.512	-	15745.648	6	.	.	.	.	.	.	1.435	1.145	290	287	294	27160.0308	
1	3661.272	2	29901.880	-	26240.609	1	.	.	.	.	.	.	1.450	0.000*	0	053	50	27305.4629	
	3653.267	2H					.	.	.	.	.	.						27365.2944	
1	3639.604	2H	22982.904	-	19343.298	-2	.	.	.	.	.	.	1.257	1.135	122	352	352	27468.0232	IS*
1	3635.837	2	25371.962	-	21736.133	8	.	.	.	.	.	.	1.165	0.000*	0	162	163	27496.4822	
1	3587.416	2	23909.585	-	20322.165	-4	.	.	.	.	.	.	1.242	1.360*	118		276	27867.6149	
1	3576.514	2	20654.712	-	24231.226	0	.	.	.	.	.	.	0.200	0.411	211	188	189	27952.5616	

C	HAVENUMBER	I	T2	T1	O-C	OBS J2 - J1	TERM J2 - J1	OBS G2	OBS G1	OBS DG	TERM G2	TERM G1	TERM DG	OBS IS	TERM IS	HAVELENGTH	NOTES
1	3573.522	4	22429.984	-18856.461	-1	.	4.0- 5.0	.	.	.	1.279	1.325	46	170	170	27975.9654	
	3549.042	2												191		28168.9335	
1	3518.303	1	20759.512	-24287.814	1	.	2.0- 3.0	.	.	.	1.070	0.585*	485	116	113	28415.0423	
1	3517.530	5	17045.776	-13528.246	0	.	1.0- 1.0	.	.	.	1.474	-0.590*	2064	134	132	28421.2867	
1	3493.797	2	22237.092	-19343.298	3	.	3.0- 3.0	.	.	.	1.110	1.135*	25	387	388	28614.3496	
1	3457.767	1	19203.415	-15745.648	0	.	2.0- 3.0	.	.	.	1.021	1.145	124	367	367	28912.5118	
1	3440.215	2	26575.338	-23135.120	-3	.	7.0- 8.0	.	.	.	1.150	0.000*	0	267	267	29060.0237	
1	3423.034	2	12322.613	-15745.648	-1	.	2.0- 3.0	.	.	.	1.036	1.145	109	-405	-404	29205.8827	
1	3413.930	1	28432.680	-25058.751	1	.	6.0- 7.0	.	.	.	1.180	0.000*	0	192	192	29283.7667	
1	3411.802	1	26085.388	-23473.585	-1	.	5.0- 6.0	.	.	.	1.055	0.000*	0	124	123	29302.0315	
1	3386.167	4	20709.453	-17323.291	0	.	3.0- 4.0	.	.	.	1.240	1.250*	10	168	166	29523.8628	
1	3377.613	2	25113.744	-21736.133	2	.	6.0- 7.0	.	.	.	1.302	0.000*	0	170	169	29598.6337	
1	3376.572	3	29617.177	-26240.609	4	.	7.0- 8.0	.	.	.	1.380	0.000*	0	097	98	29607.7590	
1	3352.720	1	26374.994	-23022.274	0	.	4.0- 5.0	.	.	.	0.000	0.817	0	010	8	29818.3953	
1	3350.143	2	24091.173	-20741.029	-1	.	3.0- 2.0	.	.	.	1.245	0.000*	0	100	101	29841.3322	SIGMA*
1	3328.644	4	19074.292	-15745.648	0	.	2.0- 3.0	.	.	.	1.532	1.145	387	194	194	30034.0711	
1	3321.374	3	23100.887	-19779.507	-6	.	3.0- 4.0	.	.	.	1.520	0.000*	0	053	53	30099.8113	
1	3309.894	2	25074.585	-21764.690	-1	.	4.0- 5.0	.	.	.	1.507	0.000*	0	059	58	30204.2092	
1	3273.538	3	17615.482	-14341.947	3	.	2.0- 2.0	.	.	.	1.450	0.852	598	345	343	30539.6580	
1	3265.976	3	21031.258	-17765.281	-1	.	2.0- 3.0	.	.	.	1.455	1.680*	225	085	86	30610.3692	
1	3256.664	2	23578.836	-20322.165	-7	.	6.0- 6.0	.	.	.	1.120	1.360*	240	201	196	30697.8955	
1	3245.560	2	26374.994	-23129.429	-5	.	4.0- 5.0	.	.	.	0.000	1.168	0	149	149	30802.9219	
1	3222.503	2	26696.083	-23473.585	5	.	5.0- 6.0	.	.	.	1.315	0.000*	0	111	111	31023.3168	
1	3216.822	3	20540.110	-17323.291	3	.	3.0- 4.0	.	.	.	0.830	1.250*	420	164	162	31078.1049	
1	3205.781	4	24970.474	-21764.690	-3	.	4.0- 5.0	.	.	.	1.460	0.000*	0	165	164	31185.1408	
1	3204.898	2	16734.151	-19939.052	-3	.	2.0- 3.0	.	.	.	0.928	0.000*	0	-396	-396	31193.7328	
1	3182.498	2	19959.027	-16776.530	1	.	1.0- 1.0	.	.	.	0.760	0.000*	0	093	93	31413.2898	
1	3152.336	2	16155.109	-19307.447	-2	.	5.0- 4.0	.	.	.	0.948	0.000*	0	-142	-145	31713.8567	
1	3148.381	2	26283.495	-23135.120	6	.	7.0- 8.0	.	.	.	1.080	0.000*	0	137	136	31753.6957	
1	3139.596	1	24091.173	-27230.768	1	.	3.0- 4.0	.	.	.	1.245	0.000*	0	-109	-109	31842.5467	
1	3135.317	1	16202.112	-19337.431	-2	.	0.0- 1.0	.	.	.	0.000	2.410*	0	-331	-328	31886.0046	
1	3132.025	2	15406.760	-18538.782	3	.	1.0- 2.0	.	.	.	0.890	1.600	710	-296	-296	31919.5193	
1	3103.065	2	24091.173	-20988.110	2	.	3.0- 4.0	.	.	.	1.245	1.374	129	105	107	32217.4150	
1	3088.187	2	28156.938	-25068.751	0	.	6.0- 7.0	.	.	.	1.335	0.000*	0	124	125	32372.6293	
1	3082.104	3	20554.712	-17572.608	0	.	1.0- 2.0	.	.	.	0.200	0.555	355	110	109	32436.5216	
1	3057.581	3	22837.092	-19779.507	-4	.	3.0- 4.0	.	.	.	1.110	0.000*	0	365	365	32696.6753	
1	3041.328	2	10486.922	-13528.246	4	.	1.0- 1.0	.	.	.	0.355	-0.590*	945	-392	-391	32871.4079	
1	3004.232	4	20769.512	-17765.281	1	.	2.0- 3.0	.	.	.	1.070	1.680*	610	111	114	33277.3014	
1	2985.906	3	14912.011	-17897.917	0	.	4.0- 3.0	.	.	.	0.496	0.450	46	210	210	33481.5409	
1	2838.739	2	22182.030	-19343.298	7	.	2.0- 3.0	.	.	.	1.295	1.135	160	102	105	35217.3043	

LINEs PROCESSED = 45055

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NOTES TO TABLE II.

COLUMN

- 1 Serial number
- 2 Energy level, in cm^{-1}
- 3 Isotope shift, in 10^{-3} cm^{-1} , with respect to assumed* value
 - (a) 465 for Pu I ground state $5f^6 7s^2 \ ^7F_0$
 - (b) 381 for Pu II ground state $5f^6 7s \ ^8F_{1/2}$ (even level #1)
- 4 Total angular momentum quantum number
- 5 Landé g-factor

* See K. Rajnak and M. Fred, J. Opt. Soc. Am. 67, 1314 (1977).



TABLE II. Plutonium Energy Levels

Pu I LEVELS, ODD PARITY

	ENERGY LEVEL	I.S.	J	g
1	6313.866	653	4.0	0.487
2	8768.139	654	2.0	0.362
3	9386.801	658	5.0	0.801
4	9724.351	654	3.0	0.442
5	10486.922	644	1.0	0.355
6	11747.245	653	0.0	0.000
7	11840.715	658	3.0	0.811
8	12159.465	657	4.0	0.844
9	12177.963	656	1.0	0.525
10	12322.613	660	2.0	1.036
11	12351.522	663	6.0	0.995
12	13517.647	648	2.0	0.892
13	13726.661	661	3.0	1.150
14	14025.007	660	4.0	0.975
15	14292.176	658	5.0	0.970
16	14692.549	660	2.0	0.292
17	14737.788	659	3.0	0.815
18	14763.705	660	1.0	-0.066
19	14853.317	585	4.0	0.786
20	14912.011	488	4.0	0.496
21	15074.958	667	7.0	1.097
22	15249.635	660	2.0	0.715
23	15406.760	589	1.0	0.890
24	15424.387	653	3.0	1.106
25	15449.472	336	0.0	0.000
26	15856.888	601	1.0	1.103
27	16155.109	660	5.0	0.948
28	16202.112	584	0.0	0.000
29	16304.260	664	4.0	1.285
30	16520.962	446	5.0	0.736
31	16532.104	450	3.0	0.300
32	16595.109	621	3.0	0.999
33	16734.151	645	2.0	0.928
34	16834.379	638	5.0	0.961
35	16888.909	663	6.0	1.098
36	17045.776	385	1.0	1.474
37	17081.874	655	4.0	1.217
38	17500.977	523	1.0	2.258
39	17554.704	671	8.0	1.17 *
40	17615.482	596	2.0	1.450
41	17911.977	661	5.0	1.145
42	18046.108	429	4.0	0.694
43	18147.975	663	3.0	1.049
44	18181.485	649	0.0	0.000
45	18346.917	547	2.0	1.518
46	18578.669	402	1.0	1.932
47	18591.122	643	4.0	0.965
48	18602.505	430	6.0	0.910
49	18672.411	661	6.0	1.19 *
50	18897.584	665	5.0	1.280

	ENERGY LEVEL	I. S.	J	g	Pu I ODD
51	18963.921	648	4.0	1.251	
52	19059.958	665	5.0	1.375	
53	19074.292	450	2.0	1.532	
54	19203.415	623	2.0	1.021	
55	19236.116	670	7.0	1.155	
56	19281.917	629	2.0	1.822	
57	19426.512	550	3.0	1.435	
58	19496.402	663	3.0	1.555	
59	19558.257	416	2.0	-0.145	
60	19594.767	349	0.0	0.000	
61	19776.904	666	6.0	1.012	
62	19865.603	652	4.0	1.100	
63	19872.154	678	9.0	1.199	
64	19959.027	342	1.0	0.76 *	
65	20043.465	423	5.0	0.925	
66	20065.327	661	3.0	0.998	
67	20306.482	647	4.0	1.123	
68	20385.328	400	2.0	1.911	
69	20425.711	397	1.0	1.340	
70	20457.704	365	0.0	0.000	
71	20521.579	661	6.0	1.246	
72	20540.110	422	3.0	0.83 *	
73	20654.712	393	1.0	0.200	
74	20697.436	661	7.0	1.250	
75	20709.458	426	3.0	1.240	
76	20769.512	370	2.0	1.07 *	
77	20830.616	670	8.0	1.11 *	
78	20877.600	436	7.0	1.06 *	
79	20984.195	665	6.0	1.319	
80	20990.684	648	5.0	1.308	
81	21031.258	342	2.0	1.455	
82	21218.180	639	3.0	0.860	
83	21227.793	555	4.0	1.346	
84	21263.339	382	5.0	0.61 *	
85	21307.390	405	1.0	2.36 *	
86	21337.573	598	4.0	1.137	
87	21350.311	567	2.0	0.35 *	
88	21420.983	452	3.0	1.663	
89	21515.136	578	1.0	1.18 *	
90	21600.100	670	6.0	1.390	
91	21603.247	505	2.0	0.06 *	
92	21703.960	642	5.0	1.120	
93	21737.407	415	3.0	1.026	
94	21812.682	486	4.0	1.040	
95	21998.645	657	7.0	1.269	
96	22088.306	429	6.0	1.060	
97	22160.184	674	8.0	1.230	
98	22176.323	434	1.0	1.21 *	
99	22181.368	446	3.0	0.78 *	
100	22182.030	344	2.0	1.295	
101	22219.737	421	4.0	0.750	
102	22307.633	546	3.0	1.434	

	ENERGY LEVEL	I.S.	J	g	Pu I ODD
103	22377.599	666	7.0	1.076	
104	22416.990	411	2.0	1.675	
105	22429.984	433	4.0	1.279	
106	22509.712	603	5.0	1.287	
107	22518.312	419	2.0	1.350	
108	22666.777	610	3.0	0.977	
109	22671.890	572	1.0	0.599	
110	22705.158	464	1.0	-0.02 *	
111	22710.37 *	683	10.0	1.260	
112	22719.717	676	9.0	1.20 *	
113	22719.949	424	4.0	1.070	
114	22818.840	654	6.0	1.335	
115	22837.092	627	3.0	1.11 *	
116	22889.053	613	4.0	1.263	
117	22982.904	591	2.0	1.257	
118	23004.649	621	5.0	1.196	
119	23037.432	643	1.0	0.870	
120	23100.887	315	3.0	1.520	
121	23207.126	434	8.0	1.135	
122	23274.858	418	4.0	1.604	
123	23281.721	452	5.0	1.235	
124	23315.209	428	2.0	1.335	
125	23413.710	550	4.0		
126	23416.666	491	2.0	1.32 *	
127	23550.352	415	3.0	1.09 *	
128	23578.836	462	5.0	1.12 *	
129	23705.495	670	7.0	1.277	
130	23720.664	420	3.0	0.79 *	
131	23735.353	413	2.0	0.935*	
132	23763.470	514	4.0	0.97 *	
133	23766.136	310	1.0	2.162	
134	23814.130	416	6.0	0.890	
135	23895.741	412	2.0	-0.10 *	
136	23909.585	542	5.0	1.242	
137	24012.505	574	6.0	1.248	
138	24090.570	438	7.0	1.130	
139	24091.173	363	3.0	1.245	
140	24149.361	472	5.0	1.262	
141	24158.741	356	2.0	1.24 *	
142	24188.639	401	1.0	0.667	
143	24216.272	633	6.0	1.005	
144	24347.551	437	3.0	1.30 *	
145	24381.050	379	5.0	1.45 *	
146	24437.792	584	4.0	1.50 *	
147	24456.635	468	3.0	1.00 *	
148	24534.240	461	2.0		
149	24613.274	451	5.0	1.160	
150	24644.996	552	3.0	1.195	
151	24648.621	415	0.0	0.000	
152	24653.345	471	1.0	0.86 *	
153	24733.061	676	7.0	1.275	
154	24742.092	472	4.0	0.98 *	

	ENERGY LEVEL	I.S.	J	g	Pu I ODD
155	24751.439	475	1.0	0.647	
156	24759.250	630	6.0	1.098	
157	24780.935	581	2.0	0.83 *	
158	24816.699	416	2.0	1.165	
159	24824.706	575	4.0	1.145	
160	24903.894	580	3.0	0.915	
161	24970.474	430	4.0	1.46 *	
162	25044.687	610	4.0	1.21 *	
163	25064.653	408	3.0	0.980	
164	25074.585	324	4.0	1.507	
165	25083.129	653	5.0	1.16 *	
166	25100.598	408	2.0	1.430	
167	25109.417	673	8.0	1.09 *	
168	25113.744	438	6.0	1.302	
169	25121.896	428	1.0	1.444	
170	25192.231	273	4.0	1.768	
171	25209.162	624	5.0	1.14 *	
172	25328.907	342	3.0	1.340	
173	25371.962	432	6.0	1.165	
174	25397.206	453	1.0	0.776	
175	25499.501	434	9.0	1.200	
176	25541.775	554	3.0	0.915	
177	25560.208	594	1.0	1.50 *	
178	25591.845	444	3.0	0.99 *	
179	25617.477	378	2.0	1.36 *	
180	25636.914	430	6.0	1.335	
181	25660.792	452	1.0	1.146	
182	25662.969	613	5.0	1.33 *	
183	25664.825	397	0.0	0.000	
184	25681.552	641	7.0	1.039	
185	25706.036	409	2.0	1.290	
186	25717.388	415	5.0	0.97 *	
187	25828.024	359	4.0	1.31 *	
188	25839.917	537	6.0	1.250	
189	25870.685	409	2.0	1.170	
190	25916.069	368	3.0	1.35 *	
191	25959.849	441	1.0	1.037	
192	25974.634	467	6.0	1.37 *	
193	26009.000	426	3.0	0.87 *	
194	26105.952	544	2.0	1.165	
195	26149.538	424	4.0	1.36 *	
196	26150.730	477	8.0		
197	26163.752	545	0.0	0.000	
198	26250.080	435	1.0	1.29 *	
199	26258.661	483	3.0	0.965	
200	26283.495	407	7.0	1.080	
201	26301.732	462	5.0	1.06 *	
202	26317.729	405	4.0	1.18 *	
203	26341.32 *	636	8.0		
204	26374.994	444	4.0		
205	26443.910	617	6.0	1.045	
206	26498.599	320	0.0	0.000	

	ENERGY LEVEL	I. S.	J	g	Pu I ODD
207	26516.261	526	5.0	1.20 *	
208	26572.296	489	2.0	1.014	
209	26575.338	538	7.0	1.15 *	
210	26606.405	454	5.0	1.13 *	
211	26633.286	343	1.0	1.124	
212	26664.150	465	6.0	1.135	
213	26696.083	379	5.0	1.315	
214	26708.790	414	3.0	0.855	
215	26730.201	451	3.0	0.950	
216	26735.491	547	2.0	1.062	
217	26811.368	518	7.0	1.18 *	
218	26844.163	528	4.0	1.020	
219	26872.321	396	1.0	2.69 *	
220	26885.388	391	5.0	1.055	
221	26894.711	451	3.0	1.465	
222	26973.744	500	2.0	1.210	
223	27045.963	372	0.0	0.000	
224	27054.840	409	4.0	1.225	
225	27068.524	552	3.0	0.960	
226	27096.974	498	4.0	1.18 *	
227	27124.898	442	2.0	1.19 *	
228	27175.729	463	4.0	1.021	
229	27196.404	516	3.0	1.282	
230	27216.458	588	5.0	1.18 *	
231	27228.191	382	1.0	1.767	
232	27257.860	531	2.0	1.190	
233	27301.288	472	4.0	0.985	
234	27334.422	417	7.0	1.24 *	
235	27361.817	421	3.0	1.310	
236	27415.500	366	5.0	1.37 *	
237	27447.115	475	10.0		
238	27491.196	507	2.0	1.345	
239	27536.236	472	3.0	1.355	
240	27563.217	391	1.0	0.745	
241	27578.418	597	5.0	1.12 *	
242	27643.693	385	4.0	1.31 *	
243	27651.193	430	2.0	1.570	
244	27705.804	495	5.0	1.16 *	
245	27755.977	380	3.0	1.370	
246	27768.715	485	1.0	0.722	
247	27781.032	430	6.0	1.25 *	
248	27869.060	421	7.0	1.25 *	
249	27887.955	502	1.0	0.87 *	
250	27903.565	612	2.0	1.300	
251	27909.524	427	4.0	1.27 *	
252	27975.402	428	7.0	1.017	
253	27979.161	382	2.0	1.186	
254	28021.637	407	5.0	1.40 *	
255	28023.294	488	4.0	1.24 *	
256	28036.676	475	6.0	1.216	
257	28106.505	478	3.0	1.19 *	
258	28156.938	392	6.0	1.335	

	ENERGY LEVEL	I.S.	J	g	Pu I ODD
259	28174.233	522	9.0		
260	28210.060	391	2.0	0.865	
261	28214.784	422	3.0	0.905	
262	28241.585	473	5.0	1.180	
263	28268.265	336	1.0	1.252	
264	28289.640	473	3.0	1.13 *	
265	28348.462	443	4.0		
266	28368.512	510	3.0	0.83 *	
267	28385.761	514	6.0	1.025	
268	28446.024	384	1.0	0.745	
269	28447.41 *	608*	4.0	1.025	
270	28467.436	406	5.0	1.21 *	
271	28470.960	353	2.0	1.104	
272	28482.680	459	6.0	1.18 *	
273	28513.607	477	5.0	1.157	
274	28565.887	354	2.0	0.911	
275	28569.792	404	3.0	1.245	
276	28584.353	451	4.0	0.92 *	
277	28595.088	380	6.0	1.20 *	
278	28690.482	484	1.0	1.195	
279	28696.299*		0.0	0.000	
280	28738.988	419	1.0	1.892	
281	28749.920	504	2.0	1.48 *	
282	28820.548	327*	0.0	0.000	
283	28832.853	455	2.0		
284	28868.619	474	5.0	1.085	
285	28885.208	407	2.0	0.912	
286	28890.990	470	7.0	1.272	
287	28900.213	427	8.0		
288	28906.355	532	3.0	1.230	
289	28951.847	411	5.0	1.29 *	
290	29021.267	432	4.0		
291	29037.158	402	3.0	0.986	
292	29068.029	425	2.0	1.284	
293	29073.454	430	1.0	1.356	
294	29088.272	417	3.0	1.005	
295	29108.865	469	5.0	1.21 *	
296	29118.602	446	4.0	1.51 *	
297	29193.490	459	6.0	1.24 *	
298	29209.020	371	7.0	1.39 *	
299	29233.723	567	4.0	1.26 *	
300	29295.313	480	4.0	1.27 *	
301	29299.312	410	1.0	1.307	
302	29307.360	421	8.0		
303	29341.761	468	2.0	1.184	
304	29356.804	578	5.0	1.19 *	
305	29542.214	492	2.0	1.298	
306	29568.328	441	7.0		
307	29571.327	384	1.0	1.132	
308	29588.570	609	3.0	1.165	
309	29606.506	427	5.0		
310	29610.675	457	4.0	1.02 *	

	ENERGY LEVEL	I.S.	J	g	Pu I ODD
311	29617.177	367	7.0	1.38 *	
312	29631.948	417	5.0		
313	29663.455	401	3.0	1.232	
314	29722.097	402	2.0	1.335	
315	29732.960	443	1.0	1.289	
316	29765.568	425*	3.0	1.162	
317	29810.974	382	3.0	1.184	
318	29817.890	450*	5.0	1.11 *	
319	29845.430	472	1.0	1.336	
320	29881.327	458	2.0	1.153	
321	29901.880	319	8.0	1.45 *	
322	29914.927	548	3.0	1.194	
323	30025.300	565	2.0	1.120	
324	30066.252	371	1.0	0.476	
325	30131.388	386	3.0	1.232	
326	30204.810	407	3.0	1.215	
327	30225.210	400	2.0	1.300	
328	30262.453	409	6.0	1.284	
329	30306.965	408	1.0	0.820	
330	30319.724	371	3.0	1.010	
331	30327.96 *	474	10.0		
332	30361.813	376	2.0	1.044	
333	30375.227	376	6.0	1.32 *	
334	30462.625	548	1.0	1.250	
335	30499.250	450*	4.0	1.15 *	
336	30503.896	421	5.0		
337	30544.891	412	3.0	0.958	
338	30549.406	431	8.0		
339	30554.070	500	4.0	1.26 *	
340	30578.731	513	5.0	1.209	
341	30612.323	380	3.0	1.408	
342	30645.856	389	2.0	1.541	
343	30671.063	541	1.0	0.771	
344	30766.862	400	5.0	0.95 *	
345	30770.199	398	2.0	1.216	
346	30899.721	527	5.0	1.09 *	
347	30905.445	439	6.0		
348	30929.516	391	1.0	2.260	
349	30932.959	420	6.0	1.34 *	
350	30974.813	548	3.0	1.05 *	
351	30995.841	389	2.0	1.47 *	
352	30997.335	422	5.0	1.20 *	
353	31024.953	407	3.0	1.335	
354	31042.369	425*	4.0	1.150	
355	31046.528	402	2.0	1.48 *	
356	31049.306	464	7.0		
357	31118.615		2.0	0.865	
358	31130.605	397	1.0	2.342	
359	31151.870	350	2.0	1.632	
360	31197.417	459	7.0		
361	31199.300	440	9.0		
362	31211.905	393	1.0	1.235	

	ENERGY LEVEL	I.S.	J	g	Pu I ODD
363	31233.379	399	4.0	1.090	
364	31238.645		3.0	1.105	
365	31272.205	415	2.0	1.173	
366	31312.780	450	4.0	1.189	
367	31358.339	402	4.0	1.155	
368	31411.690	461	2.0	1.289	
369	31425.212	508	7.0	1.170	
370	31460.669	551	7.0	1.14 *	
371	31470.224	507	3.0	1.07 *	
372	31521.279	371	4.0	1.206	
373	31540.149	505	7.0	1.205	
374	31656.500	425	1.0	0.901	
375	31657.182	485	2.0		
376	31702.058	509	3.0	1.085	
377	31724.867	394	2.0	1.016	
378	31767.869		4.0	1.189	
379	31829.899	390	3.0	1.228	
380	31858.170	649	1.0	1.335	
381	31895.185	613	2.0	1.070	
382	31899.095	420	4.0	1.380	
383	31922.720	500*	1.0	1.278	
384	31947.617	417	3.0	1.250	
385	32038.61 *	430	3.0	1.165	
386	32073.180	405	7.0		
387	32100.500	426	6.0	1.126	
388	32118.980	410	4.0	1.039	
389	32130.660	558	3.0	1.186	
390	32137.795	421	2.0	0.827	
391	32186.115	385	4.0	1.212	
392	32212.561	450	2.0	1.40 *	
393	32253.195	450*	3.0	1.115	
394	32263.305	414	4.0	1.158	
395	32266.529	451	8.0		
396	32280.169	420	5.0	1.15 *	
397	32294.378	420	2.0	1.016	
398	32296.17 *	423	1.0	0.935	
399	32308.557	404	2.0	1.327	
400	32319.412	410	4.0	1.220	
401	32359.115	560	3.0	1.320	
402	32445.590	514	4.0	1.125	
403	32459.347	419	3.0	1.118	
404	32519.048	377	2.0	0.880	
405	32552.325	409	2.0	0.982	
406	32560.225	389	5.0	1.23 *	
407	32603.005		1.0	0.920	
408	32669.73 *		2.0	0.965	
409	32674.758	501	3.0	1.189	
410	32724.820	411	4.0	1.186	
411	32728.585	413	3.0	0.947	
412	32749.507	452	2.0	1.166	
413	32773.905	576	5.0	1.15 *	
414	32790.36 *		4.0	1.24 *	

ENERGY LEVEL	I.S.	J	G	PU I ODD
415	32903.777	425	4.0	1.12 *
416	32919.605		1.0	1.49 *
417	32930.874	430*	3.0	1.216
418	32954.929	418	3.0	1.105
419	32982.090	450*	5.0	
420	32985.135	420	2.0	0.757
421	32988.621	454	3.0	1.173
422	33028.868	475	2.0	0.987
423	33036.920		0.0	0.000
424	33047.830	505	1.0	1.207
425	33070.573	293	2.0	0.673
426	33075.985		3.0	1.05 *
427	33120.375	565	3.0	1.113
428	33144.500	390*	4.0	1.052
429	33174.265	429	2.0	0.864
430	33181.27 *		1.0	1.49 *
431	33260.650	480	3.0	1.015
432	33275.150		4.0	1.253
433	33301.630	548	5.0	1.221
434	33340.653	404	2.0	0.69 *
435	33380.841	380*	1.0	1.81 *
436	33384.270	328	4.0	1.08 *
437	33390.95 *	430	3.0	1.050
438	33405.200	452	2.0	1.272
439	33456.315	455	4.0	1.207
440	33483.590	519	4.0	1.022
441	33507.825	435	2.0	1.109
442	33558.579	420	4.0	1.059
443	33575.046	482	3.0	1.056
444	33584.384	498	3.0	1.058
445	33609.070	447	5.0	1.057
446	33627.017	490	2.0	1.304
447	33690.140	435	5.0	1.242
448	33729.775	600	5.0	1.125
449	33753.360	460*	3.0	0.980
450	33762.720	480*	4.0	1.120
451	33825.820	448	2.0	1.104
452	33829.570	399	5.0	1.175
453	33853.410	450	3.0	1.021
454	33884.565		1.0	1.04 *
455	33941.055	442	3.0	1.118
456	33974.800	390	2.0	1.11 *
457	33979.215	508	4.0	1.115
458	34004.281	397	5.0	1.239
459	34030.240	452	2.0	1.300
460	34075.080	411	3.0	0.975
461	34093.140	437	3.0	1.053
462	34103.210	541	5.0	1.028
463	34150.575	589	4.0	0.985
464	34228.090	470*	4.0	1.05 *
465	34240.242	470*	2.0	1.19 *
466	34240.784	410	3.0	1.067

	ENERGY LEVEL	I.S.	J	g	Pu I	ODD
467	34283.083	450	5.0	1.110		
468	34378.267	408	4.0	1.272		
469	34397.513	445*	3.0	1.155		
470	34495.354	398	2.0	1.18 *		
471	34497.235	382	3.0	1.07 *		
472	34527.915	378*	2.0	1.310		
473	34565.410		1.0	0.98 *		
474	34613.555		3.0	1.13 *		
475	34628.584	519	4.0	1.144		
476	34632.045		6.0	1.081		
477	34650.965	415*	2.0	1.25 *		
478	34656.014	426	3.0	1.110		
479	34692.946	421	3.0	1.191		
480	34708.947	500*	4.0	1.043		
481	34710.860		2.0	1.170		
482	34723.000	435*	2.0	1.28 *		
483	34751.714	391	4.0	1.146		
484	34772.583	383	3.0	0.99 *		
485	34799.810		4.0	1.145		
486	34829.137	370	3.0	1.125		
487	34889.189	400	3.0	0.990		
488	34936.994	454	6.0	1.230		
489	34964.470	470	4.0	1.081		
490	35060.819		2.0	1.125		
491	35063.037	423	6.0	1.188		
492	35083.570		5.0	1.170		
493	35102.955	380	3.0	1.39 *		
494	35115.625	446	4.0	1.110		
495	35178.224	541	3.0	1.070		
496	35182.696		5.0	1.037		
497	35223.380	435*	3.0	1.24 *		
498	35284.096		6.0	1.143		
499	35299.015	343	3.0	1.035		
500	35360.215	519	6.0	1.220		
501	35375.000	535	6.0	1.182		
502	35378.940	500	5.0	1.165		
503	35383.505	408	3.0	1.032		
504	35453.905		4.0	1.130		
505	35472.852	450	5.0	1.200		
506	35494.450	451	4.0	1.098		
507	35503.238		3.0	1.135		
508	35556.380		6.0	1.10 *		
509	35578.900	432	5.0	1.193		
510	35616.875		1.0	1.00 *		
511	35644.175		4.0	1.100		
512	35649.165	508	5.0	1.186		
513	35722.593	461	3.0	1.119		
514	35740.015	465	4.0	1.105		
515	35741.610		3.0	0.965		
516	35785.250	300*	1.0	0.53 *		
517	35846.861	510	5.0	1.151		
518	35848.508	534	4.0	1.080		

	ENERGY LEVEL	I.S.	J	g	Pu I	ODD
519	35868.246	441	6.0	1.162		
520	35883.360	434	5.0	1.164		
521	35899.859	419	3.0	0.870		
522	35913.980	516	7.0	1.090		
523	35969.064	300*	2.0	0.765		
524	35970.903	344*	1.0	1.00 *		
525	36017.000	449	4.0	1.09 *		
526	36030.884	468	7.0	1.05 *		
527	36059.430	485	4.0	1.090		
528	36061.589	480	5.0	1.167		
529	36090.717	529	4.0	1.227		
530	36100.190	468	5.0	1.223		
531	36107.991	453	7.0	1.135		
532	36129.102	620	7.0	1.08 *		
533	36178.230	432	4.0	1.08 *		
534	36190.615		5.0	1.123		
535	36192.641	404	7.0	1.234		
536	36230.220	469	2.0	1.20 *		
537	36297.181	446	2.0	1.01 *		
538	36372.21 *	469	4.0	1.082		
539	36414.798	359	4.0	1.10 *		
540	36483.410	385	4.0	1.10 *		
541	36522.818	490	5.0	1.104		
542	36528.843		7.0	1.130		
543	36583.653	330	1.0	1.135		
544	36603.601	471	4.0	1.134		
545	36635.245	596	7.0	1.12 *		
546	36668.045	475	3.0	1.158		
547	36669.985		1.0	1.01 *		
548	36687.810	395	6.0	1.140		
549	36737.406	436	7.0	1.083		
550	36763.260	500	5.0	1.089		
551	36831.210	512	5.0	1.08 *		
552	36838.415	372	6.0	1.318		
553	36870.455	527	5.0	1.125		
554	36888.610	465*	4.0	1.094		
555	36889.583	463*	6.0	1.153		
556	36964.778		4.0	1.110		
557	36997.640		4.0	1.256		
558	37051.050		5.0	1.192		
559	37063.300	521	4.0	0.965		
560	37073.910	433	5.0	1.160		
561	37100.000	467	6.0	1.088		
562	37154.100	446	5.0	1.120		
563	37202.870	409	4.0	1.125		
564	37271.740		2.0	1.115		
565	37333.515	428	5.0	1.065		
566	37377.330	381	2.0	1.26 *		
567	37428.345		2.0	1.33 *		
568	37456.630		5.0	1.085		
569	37521.550		3.0	1.315		
570	37536.120	399	2.0	1.03 *		

	ENERGY LEVEL	I.S.	J	g	Pu I	ODD
571	37615.923	410	5.0	1.095		
572	37639.270	381	2.0	1.02 *		
573	37712.550	416*	5.0	1.164		
574	37750.470	386*	2.0	0.98 *		
575	37912.285	479	6.0	1.109		
576	38088.18 *		4.0	1.23 *		
577	38168.603	328	5.0	1.08 *		
578	38212.799	402	5.0	1.170		
579	38473.945	412	3.0	1.02 *		
580	38485.49 *		4.0	1.145		
581	38914.005	300	2.0	1.140		
582	38946.490		1.0	1.06 *		
583	39012.195		3.0	1.08 *		
584	39618.160	503	3.0	0.27 *		
585	39623.901	355	6.0	1.14 *		
586	39692.853	301*	3.0	1.025		

Pu I LEVELS, EVEN PARITY

	ENERGY LEVEL	I. S.	J	g
1	0.000	465	0.0	0.000
2	2203.606	468	1.0	1.495
3	4299.659	470	2.0	1.482
4	6144.515	472	3.0	1.473
5	7774.653	475	4.0	1.463
6	9179.262	478	5.0	1.454
7	9772.532	483	0.0	0.000
8	10238.473	479	6.0	1.431
9	13528.246	253	1.0	-0.59 *
10	13677.903	498	1.0	1.442
11	14341.947	253	2.0	0.852
12	15745.648	256	3.0	1.145
13	16276.332	250	2.0	1.88 *
14	16604.786	494	6.0	0.95 *
15	16776.530	249	1.0	
16	17305.142	499	2.0	
17	17323.291	260	4.0	1.25 *
18	17336.413	257	0.0	0.000
19	17572.608	284	2.0	0.555
20	17765.281	256	3.0	1.68 *
21	17776.483	498	2.0	0.565
22	17897.917	698	3.0	0.450
23	18538.782	293	2.0	1.600
24	18627.281	239	1.0	
25	18652.287	519	3.0	0.822
26	18718.882	634	2.0	0.504
27	18856.461	263	5.0	1.325
28	19307.447	515	4.0	
29	19317.922	501	5.0	
30	19337.431	256	1.0	2.41 *
31	19343.298	239	3.0	1.135
32	19779.507	262	4.0	
33	19939.052	249	3.0	
34	20322.165	266	6.0	1.36 *
35	20402.369	515	3.0	1.265*
36	20672.283	237	2.0	1.43 *
37	20672.390	234	1.0	
38	20741.029	262	2.0	
39	20828.475	467	4.0	0.352
40	20988.110	256	4.0	1.374
41	21290.050	259	2.0	
42	21417.765	694	4.0	0.802
43	21491.439	269	3.0	
44	21556.538	245	4.0	1.290
45	21709.745	682	3.0	0.980
46	21736.133	269	7.0	
47	21764.690	266	5.0	
48	22055.339	264	3.0	
49	22081.891	508	4.0	
50	22339.429	481	2.0	1.049

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
51	22409.753	251	2.0	1.413		
52	22451.834	260	5.0			
53	22551.302	254	3.0			
54	22974.132	514	3.0	1.147		
55	23011.570	269	4.0			
56	23022.274	436	5.0	0.817		
57	23129.429	295	5.0	1.168		
58	23135.120	271	8.0			
59	23152.755	247	2.0	0.580		
60	23168.176	478	5.0	1.115		
61	23178.955	240	1.0	1.13 *		
62	23359.187	284	3.0	1.03 *		
63	23473.585	268	6.0			
64	23601.171	385	1.0	0.565		
65	23618.964	252	3.0			
66	23649.372	298	4.0			
67	23668.184	547	4.0	0.94 *		
68	23743.557	265	6.0			
69	23806.381	533	1.0	0.094		
70	23953.307	267	2.0	1.265		
71	23966.450	494	3.0	0.760		
72	24016.378	274	5.0	1.560		
73	24202.966	655	5.0	1.012		
74	24231.226	582	2.0	0.411		
75	24287.814	483	3.0	0.585		
76	24323.884	460	1.0	0.80 *		
77	24365.295	266	3.0	1.475		
78	24456.948	348	3.0			
79	24481.313	412	6.0			
80	24488.767	327	1.0			
81	24582.849	615	2.0	0.640		
82	24638.713	251	2.0			
83	24652.353	276	9.0			
84	24653.200	346	6.0			
85	24658.931	592	4.0	1.080		
86	24753.684	481	4.0	0.975		
87	24767.674	255	2.0	1.455		
88	24918.555	269	6.0			
89	24921.671	555	5.0	1.034		
90	24929.184	508	4.0	1.080		
91	24951.118	625	3.0	0.840		
92	25068.751	267	7.0			
93	25125.763	624	1.0	0.314		
94	25160.827	638	3.0	0.800		
95	25208.672	611	2.0	0.490		
96	25275.795	615	1.0	0.706		
97	25293.751	278	3.0	0.965		
98	25310.375	648	0.0	0.000		
99	25432.655	674	2.0	1.281		
100	25605.707	474	4.0	1.160		
101	25655.090	366	4.0	1.165		
102	25706.606	271	7.0			

	ENERGY LEVEL	I. S.	J	g	Pu I	EVEN
103	25707.348	516	2.0	0.720		
104	25774.288	469	6.0	0.915		
105	25979.424	384	1.0	1.260		
106	26072.627	293	2.0	1.50 *		
107	26093.563	506	1.0	-0.082		
108	26205.589	462	3.0	0.701		
109	26213.253	244	7.0			
110	26240.609	269	8.0			
111	26290.302	288	5.0	1.125		
112	26350.982	514	4.0	0.796		
113	26360.997	414	5.0	0.796		
114	26407.449	453	2.0	0.972		
115	26431.101	399	3.0	0.807		
116	26449.501	383	3.0	0.94 *		
117	26476.068	260	4.0	1.605		
118	26655.622	476	3.0	1.015		
119	26807.278	247	1.0	0.550		
120	26820.380	364	2.0	1.160		
121	26836.911	347	2.0	1.26 *		
122	26873.930	610	6.0	1.125		
123	26943.829	422	5.0	1.220		
124	26969.979	283	3.0			
125	27037.718	317	2.0	1.30 *		
126	27106.673	544	6.0	1.040		
127	27230.768	254	4.0			
128	27311.658	576	5.0	1.035		
129	27432.195	306	1.0	1.13 *		
130	27505.246	518	7.0			
131	27510.909	515	8.0			
132	27523.650	548	6.0	1.080		
133	27542.874	382	5.0	1.27 *		
134	27558.688	420	0.0	0.000		
135	27570.322	310	3.0	1.265		
136	27597.590	555	4.0	0.930		
137	27637.377	422	1.0	1.280		
138	27652.180	271	6.0	1.250		
139	27668.890	386	5.0	1.312		
140	27728.796	530	3.0	1.060		
141	27743.009	625	2.0	0.568		
142	27805.163	513	5.0	1.024		
143	27832.430	570	4.0	0.920		
144	27970.881	442	2.0	0.194		
145	27972.815	577	4.0	0.979		
146	27976.881	515	3.0	1.080		
147	28118.262	629	3.0	1.25 *		
148	28135.924	297	2.0	1.101		
149	28178.473	277	3.0			
150	28295.380	475	4.0	1.155		
151	28326.610	332	4.0	1.26 *		
152	28345.647	308	6.0			
153	28360.802	531	3.0	0.887		
154	28496.950	459	4.0	0.810		

	ENERGY LEVEL	I. S.	J	g	Pu I	EVEN
155	28538.138	472	7.0	1.060		
156	28561.548	488	2.0	0.784		
157	28593.749	283	1.0	1.713		
158	28733.159	552	4.0	1.035		
159	28740.433	390	3.0	0.970		
160	28756.769	382	5.0	1.165		
161	28763.085	411	0.0	0.000		
162	28793.800	366	3.0	1.083		
163	28834.535	501	5.0	0.978		
164	28906.150	434	5.0	1.105		
165	28972.971	453	2.0	0.794		
166	29009.483	483	4.0	0.695		
167	29048.255	391	1.0	0.900		
168	29139.061	292	2.0			
169	29182.445	468	1.0			
170	29204.308	442	5.0	0.896		
171	29229.190	254	4.0	1.48 *		
172	29269.059	457	1.0	1.11 *		
173	29290.355	462	6.0	0.920		
174	29346.299	591	7.0	1.20 *		
175	29350.139	466	3.0	0.910		
176	29420.042	362	1.0	1.095		
177	29554.716	472	3.0	0.831		
178	29558.591	271	2.0	1.030		
179	29625.003	464	2.0	0.91 *		
180	29637.242	457	6.0	1.020		
181	29645.433	359	1.0	0.705		
182	29669.807	497	6.0	1.150		
183	29725.422	355	7.0	1.220		
184	29854.442	400	1.0	1.18 *		
185	29885.947	284	3.0	1.33 *		
186	29921.899	381	2.0	1.07 *		
187	29976.039	489	4.0	1.070		
188	30016.377	333	2.0	1.140		
189	30071.890	356	5.0	1.29 *		
190	30083.102	446	5.0	1.15 *		
191	30113.280	541	6.0	1.050		
192	30133.953	389	3.0	1.20 *		
193	30160.664	477	4.0	1.030		
194	30204.635	452	1.0	0.59 *		
195	30210.416	407	4.0	1.16 *		
196	30216.163	439	2.0	1.143		
197	30314.443	360	3.0	1.14 *		
198	30318.195	432	2.0	0.940		
199	30324.858	532	7.0	1.17 *		
200	30371.819	371	3.0	0.640		
201	30373.329	348	4.0	1.345		
202	30395.062	469	4.0	0.920		
203	30397.106	546	5.0	1.005		
204	30459.091	356	2.0	1.255		
205	30461.399	461	5.0	0.990		
206	30522.971	277	6.0			

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
207	30544.187	502	3.0	0.946		
208	30590.673	285	6.0			
209	30649.882	421	0.0	0.000		
210	30667.769	380	4.0	1.265		
211	30675.497	472	2.0	0.375		
212	30677.044	331	8.0	1.245		
213	30714.385	558	4.0	1.150		
214	30764.244	430	6.0	0.975		
215	30779.585	470	3.0	0.860		
216	30814.939	432	5.0	1.111		
217	30875.798	386	4.0	1.08 *		
218	30940.068	570	5.0	1.080		
219	30957.140	435	2.0	0.980		
220	30970.926	487	1.0	0.295		
221	30992.449	518	7.0	1.21 *		
222	31014.877	524	4.0	1.170		
223	31042.204	573	3.0	1.010		
224	31069.124	612	8.0	1.135		
225	31086.744	624	5.0	0.795		
226	31119.494	426	2.0	0.814		
227	31173.814	474	1.0	0.45 *		
228	31182.179	368	4.0	1.21 *		
229	31198.642	538	3.0	1.070		
230	31205.200	493	2.0	1.09 *		
231	31218.105	463	8.0	1.155		
232	31260.046	279	6.0	1.21 *		
233	31267.919	537	3.0	1.080		
234	31278.667	545	5.0	1.01 *		
235	31286.029	563	2.0	1.280		
236	31352.983	430	7.0			
237	31377.193	462	4.0	0.973		
238	31403.302	359	5.0	1.205		
239	31413.230	526	3.0	0.742		
240	31451.814	519	4.0	1.080		
241	31452.362	575	1.0	0.852		
242	31471.542	546	1.0	2.188		
243	31535.835	360	5.0	1.020		
244	31572.610	446	1.0	2.403		
245	31586.283	566	8.0	1.053		
246	31628.619	509	6.0	1.110		
247	31697.633	536	4.0	1.187		
248	31710.912	115	2.0	0.200		
249	31732.582	432	5.0	1.049		
250	31810.821	533	2.0	0.865		
251	31820.494	350	4.0	1.240		
252	31831.325		0.0	0.000		
253	31876.909	439	2.0			
254	31881.871	511	7.0	1.120		
255	31909.212	589	1.0	0.888		
256	31939.345	324	6.0	1.20 *		
257	31970.100	459	4.0	1.10 *		
258	31976.844	494	7.0	1.095		

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
259	31984.470	563	3.0	1.090		
260	32011.173	475	3.0	1.14 *		
261	32017.434	414	4.0	1.02 *		
262	32044.652	488	1.0	0.800		
263	32066.452	402	2.0	0.91 *		
264	32103.687	465	4.0	1.040		
265	32134.354	452	3.0			
266	32210.885	559	4.0	0.995		
267	32213.814	593	2.0	0.725		
268	32242.810	348	5.0	1.215		
269	32272.487	360	3.0			
270	32299.581	404	5.0			
271	32304.979	360	4.0	0.99 *		
272	32324.169	480	0.0	0.000		
273	32349.853	382	2.0			
274	32381.372	357	5.0	1.190		
275	32404.416	499	5.0	1.055		
276	32413.146	349	3.0	0.995		
277	32424.890	397	1.0	1.77 *		
278	32432.680	490	7.0	1.140		
279	32440.827	420	6.0	1.12 *		
280	32478.986	362	6.0	1.110		
281	32482.465	315	4.0	1.33 *		
282	32572.811	402	5.0	1.01 *		
283	32577.204	380	4.0	0.98 *		
284	32637.106	482	3.0	0.82 *		
285	32645.106	408	5.0	1.135		
286	32669.040	472	3.0	1.00 *		
287	32718.268	453	1.0	0.60 *		
288	32755.472	344	4.0	1.005		
289	32803.199	493	3.0	0.825		
290	32809.844	440	4.0	0.900		
291	32857.357	455	6.0	1.101		
292	32866.230	377	1.0	0.32 *		
293	32869.165	410	5.0	0.916		
294	32928.540	446	2.0	1.06 *		
295	32955.538	338	6.0	1.265		
296	32968.906	458	4.0	1.115		
297	33033.638	390	3.0	0.910		
298	33089.092	371	5.0	1.069		
299	33110.165	403	4.0	1.22 *		
300	33111.557	469	2.0	1.315		
301	33180.043	445	2.0	1.79 *		
302	33182.933	492	6.0	1.050		
303	33212.897	491	4.0	1.11 *		
304	33217.880		1.0	0.52 *		
305	33251.780	444	2.0	1.465		
306	33273.528	436	7.0	1.07 *		
307	33289.869	526	5.0	1.095		
308	33304.400	344	0.0	0.000		
309	33321.067	470	5.0	1.20 *		
310	33351.007	620	6.0	1.24 *		

	ENERGY LEVEL	I. S.	J	g	Pu I	EVEN
311	33354.592	498	3.0			
312	33362.705	475	7.0	1.14 *		
313	33371.251	451	3.0	1.113		
314	33387.151	367	2.0	1.288		
315	33418.637	393	5.0	0.872		
316	33461.419	357	3.0	0.95 *		
317	33464.592	410	4.0			
318	33490.744	420	5.0	1.084		
319	33498.071	472	3.0	0.770		
320	33542.506	418	2.0	1.123		
321	33563.924	375	1.0	0.43 *		
322	33570.935	488	4.0	1.13 *		
323	33572.999	341	9.0	1.16 *		
324	33596.975	444	5.0	1.315		
325	33599.280	370	2.0	1.606		
326	33604.497	475	3.0	1.210		
327	33632.520	493	5.0	1.305		
328	33696.921	591	6.0	1.10 *		
329	33724.837	416	3.0	1.160		
330	33758.523	418	5.0	0.830		
331	33833.699	389	2.0	0.930		
332	33868.834	418	9.0	1.165		
333	33884.230	340	7.0	1.105		
334	33892.650	438	3.0	1.060		
335	33920.944	455	2.0	1.04 *		
336	33990.780	503	6.0	0.92 *		
337	34006.573	315	0.0	0.000		
338	34042.040	508	4.0	0.806		
339	34045.560	503	7.0	1.17 *		
340	34093.375	426	1.0	1.31 *		
341	34107.378	430	3.0	1.16 *		
342	34127.955	532	8.0	1.185		
343	34128.094	428	4.0			
344	34128.739	403	3.0	1.106		
345	34156.245	333	1.0	1.305		
346	34171.155	581	5.0	1.230		
347	34251.764	429	4.0	1.005		
348	34279.010	329	1.0	1.71 *		
349	34281.845	415	2.0	0.85 *		
350	34313.475	508	6.0	1.03 *		
351	34337.597	322	7.0	1.34 *		
352	34349.740	404	1.0	0.81 *		
353	34362.360	500	5.0	1.12 *		
354	34398.550	440	4.0	0.87 *		
355	34429.460	435	2.0	0.93 *		
356	34429.910	444	3.0	0.910		
357	34430.160		3.0			
358	34479.473	457	4.0	0.944		
359	34500.445	420	6.0	1.030		
360	34507.044	410	1.0	1.02 *		
361	34519.250	495	5.0	1.17 *		
362	34540.469	395	3.0	0.888		

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
363	34540.88 *	425	8.0	1.27 *		
364	34548.900	496	2.0	0.85 *		
365	34594.350	507	3.0	1.198		
366	34624.299	379	2.0	1.15 *		
367	34634.053	493	8.0			
368	34661.105	509	4.0	1.100		
369	34670.995	446	5.0	1.01 *		
370	34677.111	420	4.0	1.080		
371	34720.110	170	4.0	1.030		
372	34735.314	400	3.0	0.899		
373	34741.198	450	5.0	1.070		
374	34746.981	598	8.0			
375	34760.532	488	6.0	1.14 *		
376	34804.860	363	4.0	0.941		
377	34852.445	370	3.0	1.230		
378	34888.198	465	5.0	1.070		
379	34906.470	480	5.0	0.925		
380	34920.315	410	3.0	0.930		
381	34949.520	444	2.0	1.085		
382	34966.946	362	4.0	1.025		
383	34974.486	512	7.0	1.135		
384	34976.640	340	3.0	1.16 *		
385	34983.667	597	7.0	1.060		
386	34993.452	460	4.0	1.213		
387	35032.090	391*	0.0	0.000		
388	35054.565	450	3.0	0.998		
389	35070.230	519	5.0	0.869		
390	35088.705		1.0	1.380		
391	35169.790	419	6.0	1.12 *		
392	35185.490	440	1.0	0.905		
393	35197.829	429	3.0	1.080		
394	35210.360	430	2.0	1.18 *		
395	35212.127	515	6.0	1.13 *		
396	35253.102	380	5.0	1.11 *		
397	35255.665	400	4.0	1.08 *		
398	35323.031	439	6.0	1.090		
399	35342.260	475	4.0	1.110		
400	35354.050	512	7.0			
401	35369.610	474	5.0	1.12 *		
402	35379.603	420	3.0	1.165		
403	35482.018	340	3.0	1.679		
404	35558.235	436	4.0	0.990		
405	35563.728	246	3.0	1.204		
406	35568.740	400	2.0	1.040		
407	35591.995	458	8.0	1.105		
408	35603.582	482	6.0	1.07 *		
409	35613.490	402	5.0	1.09 *		
410	35644.180	494	7.0	1.07 *		
411	35685.835	535	5.0	1.104		
412	35766.380	512	4.0	1.055		
413	35768.160	483	8.0	1.12 *		
414	35805.270	515	5.0	1.075		

ENERGY LEVEL		I.S.	J	g	Pu I	EVEN
415	35830.380	428	4.0	0.965		
416	35850.314	488	6.0	1.04 *		
417	35888.025	596	7.0	1.05 *		
418	35919.595	575	5.0	1.12 *		
419	35928.010	475	4.0	0.960		
420	35950.800		3.0	1.005		
421	35952.890		4.0	1.10 *		
422	35953.183	378	8.0	1.105		
423	36017.900	413	1.0	0.910		
424	36021.165	498	3.0	1.048		
425	36037.220		5.0	1.155		
426	36050.540	535	6.0	0.83 *		
427	36128.425	547	7.0	1.060		
428	36137.730	365	2.0	1.525		
429	36170.11 *	450	4.0	0.942*		
430	36190.820		5.0	1.030		
431	36204.345	465	3.0	1.200		
432	36230.135	580	9.0	1.255		
433	36254.860	475	5.0	1.030		
434	36291.840	403	3.0	0.980		
435	36343.14 *	423	0.0	0.000		
436	36359.387	457	8.0	1.185		
437	36364.850	445	4.0	1.08 *		
438	36369.870	395	5.0	1.069		
439	36393.534	482	10.0	1.15 *		
440	36418.125	455	4.0	1.075		
441	36420.170	356	5.0	1.025		
442	36436.294	460	3.0	1.095		
443	36502.980	383	2.0	0.90 *		
444	36524.475	388	6.0	1.05 *		
445	36528.070		3.0	0.985		
446	36536.380	493	3.0	0.95 *		
447	36547.135		4.0	1.080		
448	36592.070	421	3.0	1.300		
449	36609.850	379	2.0	1.025		
450	36609.983	437	7.0	1.195		
451	36627.825	479	4.0	0.980		
452	36640.400	448	3.0	1.035		
453	36676.620	304	4.0	1.15 *		
454	36722.663	497	9.0	1.110		
455	36727.705	466	3.0	0.905		
456	36784.100	411	3.0	1.115		
457	36791.380		5.0	1.025		
458	36818.300	406	1.0	1.103*		
459	36821.290	370	5.0	1.162		
460	36837.19 *		5.0	0.965		
461	36912.410	468	7.0			
462	36931.250		3.0	1.030		
463	36958.09 *	390	5.0	1.000		
464	37001.490	428	6.0	1.035		
465	37129.590	466	5.0	1.010		
466	37177.970	430	5.0	1.125		

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
467	37212.310	407	5.0	0.990		
468	37215.900	400	4.0	1.485		
469	37243.390		3.0	1.30 *		
470	37272.921	490	8.0	1.175		
471	37308.707	432	4.0	1.040		
472	37352.720	386	3.0	1.13 *		
473	37378.815	455	2.0	0.964		
474	37389.145	499	6.0	1.085		
475	37408.285	454	4.0	1.045		
476	37415.495	403	5.0	0.980		
477	37418.345	443	2.0	0.932		
478	37477.540		3.0	1.120		
479	37522.600		3.0	1.26 *		
480	37523.250	477	6.0	1.055		
481	37537.100		3.0	1.07 *		
482	37575.92 *	370	2.0	1.22 *		
483	37614.165	462	6.0	1.190		
484	37624.090	443	3.0	1.15 *		
485	37628.055	486	7.0	1.14 *		
486	37657.560		3.0	1.132		
487	37696.345	500	6.0	1.066		
488	37721.235	354	4.0	1.180		
489	37752.690	443	6.0	1.11 *		
490	37761.260		3.0	1.11 *		
491	37787.990	301	4.0	1.260		
492	37803.250	404	3.0	1.081		
493	37803.470	475	9.0	1.22 *		
494	37813.200	418	2.0	0.955		
495	37819.58 *	527	7.0	1.11 *		
496	37864.295	452	4.0	1.11 *		
497	37901.880	449	4.0	1.166		
498	37918.620		1.0	0.690		
499	37940.455	415	3.0	1.17 *		
500	37988.680	427	6.0	1.09 *		
501	38034.960	402	6.0	1.140		
502	38094.515	437	6.0	1.095		
503	38140.400		3.0	1.12 *		
504	38148.375		3.0	0.690		
505	38186.420	450	5.0	0.952		
506	38199.170	405	6.0	1.068		
507	38204.990	377	3.0	1.085		
508	38253.110	440	4.0	0.92 *		
509	38285.120		5.0	1.145		
510	38300.595		2.0	1.150		
511	38339.55 *	462	4.0	1.07 *		
512	38389.560	454*	4.0	1.070		
513	38462.875	427	1.0	0.765		
514	38472.24 *		3.0	1.05 *		
515	38495.570	475	5.0	1.085		
516	38599.385		6.0	1.039		
517	38607.775		4.0	1.105		
518	38617.815	438	1.0	1.035		

	ENERGY LEVEL	I. S.	J	g	Pu I	EVEN
519	38650.550	414	2.0	0.785		
520	38652.990		4.0	1.09 *		
521	38692.075		5.0	1.17 *		
522	38758.100	370	5.0	1.530		
523	38773.125	424	2.0	1.038		
524	38801.97 *	388	4.0	1.09 *		
525	38824.820	464	3.0	0.832		
526	38907.115		2.0	1.135		
527	38954.840		2.0	1.02 *		
528	38968.370		5.0	1.065		
529	39097.075		3.0	1.345		
530	39160.12 *		1.0	1.230		
531	39168.610	412	9.0	1.19 *		
532	39182.490	370	2.0	0.99 *		
533	39188.962	490	11.0			
534	39230.61 *	447	4.0	1.09 *		
535	39237.380		2.0	1.21 *		
536	39268.050		4.0	1.14 *		
537	39285.76 *	390	2.0	1.020		
538	39333.250		2.0	0.995		
539	39336.870	403	1.0	1.025		
540	39364.330	458	5.0	1.130		
541	39372.685		5.0	1.01 *		
542	39374.580		3.0	0.885		
543	39380.945		4.0	1.07 *		
544	39387.16 *	370	6.0	1.029		
545	39433.510	388	4.0	0.925		
546	39466.835	441	5.0	1.065		
547	39479.000		3.0	0.970		
548	39481.900	381	5.0	1.165		
549	39508.910		3.0	0.870		
550	39513.87 *	394	1.0	0.965		
551	39570.175	400*	2.0	1.15 *		
552	39594.68 *	543	4.0	1.070		
553	39619.53 *		4.0	1.115		
554	39620.765	390	6.0	0.965		
555	39688.980		4.0	0.98 *		
556	39709.46 *	420	5.0	1.070		
557	39730.200		4.0	1.025		
558	39739.87 *	392	6.0	1.140		
559	39775.870	452	4.0	0.985		
560	39816.41 *		2.0	1.19 *		
561	39825.550	414	4.0	1.030		
562	39913.605		3.0	1.075		
563	39956.990	422	2.0	1.050		
564	39981.145	389	3.0	0.905		
565	40028.005		2.0	0.98 *		
566	40029.640	393	5.0	1.230		
567	40048.08 *		3.0	1.005		
568	40072.38 *		5.0	1.100		
569	40084.697	360	6.0	1.510		
570	40102.977	451	10.0	1.31 *		

	ENERGY LEVEL	I.S.	J	g	Pu I	EVEN
571	40104.650		2.0	1.090		
572	40118.85 *		3.0	1.020		
573	40127.80 *		4.0	1.020		
574	40165.495	415	7.0	1.120		
575	40190.580		2.0	0.920		
576	40241.170	383	7.0	1.175		
577	40277.55 *		5.0	1.125		
578	40345.74 *	498	7.0	1.065		
579	40351.235		5.0	1.070		
580	40497.975	397	5.0	1.06 *		
581	40662.380		3.0	1.050		
582	40732.070		2.0	1.04 *		
583	40748.54 *		3.0	1.020		
584	40924.450	463	3.0	1.185		
585	40935.79 *		4.0	1.16 *		
586	40947.640	441	5.0	1.145		
587	40989.380		4.0	1.000		
588	41006.85 *		4.0	1.210		
589	41077.010	366	3.0	1.100		
590	41140.580	373	7.0	1.470		
591	41173.38 *		4.0	1.150		
592	41207.555		2.0	0.925		
593	41234.990	415	4.0	1.080		
594	41236.870		4.0	1.020		
595	41247.030		4.0	1.065		
596	41369.665		4.0	1.12 *		
597	41477.600	522	7.0	1.085		
598	41858.135		3.0	1.090		
599	41976.230		5.0	1.12 *		
600	42059.140		4.0	1.060		
601	42180.15 *		4.0	1.02 *		
602	42599.780	405	6.0	1.14 *		
603	42602.51 *		7.0	1.320		
604	43201.845		5.0	1.090		
605	43801.856	393	2.0	0.35 *		
606	43822.815		5.0	0.795		

Pu II LEVELS, ODD PARITY

	ENERGY LEVEL	I.S.	J	g
1	8198.666	896	2.5	0.414
2	8709.640	555	3.5	0.308
3	10436.770	555	4.5	0.724
4	11504.095	897	3.5	0.859
5	12048.548	553	1.5	-0.054
6	12992.644	547	2.5	0.643
7	13013.685	551	5.5	0.950
8	13192.903	551	2.5	0.372
9	13809.910	523	4.5	0.657
10	14221.716	588	0.5	-0.108
11	14295.565	547	3.5	0.790
12	14476.135	871*	4.5	1.060
13	14561.607	646	1.5	1.149
14	15098.815	794	1.5	1.079
15	15178.115	814	0.5	-0.085
16	15235.771	558	0.5	1.791
17	15578.500		6.5	
18	15641.100	562	3.5	1.04 *
19	15657.156	550	2.5	1.000
20	15778.634	549	1.5	1.133
21	16362.000	550	4.5	1.05 *
22	16499.640	510	3.5	0.773
23	16593.963	546	2.5	0.983
24	17073.340	550	1.5	0.576
25	17121.640		5.5	
26	17242.750	553	2.5	1.20 *
27	17296.905	242	4.5	0.494
28	17532.937	571	3.5	1.238
29	17733.709	565	0.5	-0.51 *
30	18152.580	526	0.5	-0.51 *
31	18656.277	546	1.5	
32	18720.075	490	3.5	1.060
33	19277.180	457	3.5	0.847
34	19317.370	538	4.5	1.225
35	19397.055	516	0.5	3.328
36	19466.530	517	4.5	1.151
37	19632.555	525*	1.5	1.01 *
38	19863.335	529	2.5	0.921
39	20044.005	522	1.5	0.820
40	20056.725	519	0.5	0.047
41	20063.650	484	4.5	1.049
42	20073.840	241	5.5	0.79 *
43	20121.145	538	2.5	0.71 *
44	20291.680	533	1.5	1.377
45	20511.945	554	4.5	1.310
46	20689.110	543	3.5	1.27 *
47	20952.550	503	1.5	0.350
48	21048.190	526	2.5	1.03 *
49	21359.050	560	2.5	1.254
50	21670.405	519	1.5	2.328

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
51	21828.590	709	2.5	0.99 *		
52	21991.980	523	2.5	1.344		
53	22038.950	287	0.5	0.344		
54	22107.410	554	5.5	1.362*		
55	22341.990	468	0.5	1.370		
56	22372.325	652*	2.5	1.33 *		
57	22409.025	541	5.5	1.205		
58	22537.265	548	5.5	1.315		
59	22541.470	498	1.5	0.42 *		
60	22652.035	539	3.5	1.185		
61	22653.965	563	2.5	1.36 *		
62	22799.695	546	4.5	1.33 *		
63	23170.720	498	0.5	1.082*		
64	23171.032	543	4.5	1.24 *		
65	23272.420	396	2.5	0.951		
66	23312.615	490	1.5	0.68 *		
67	23426.895	460	2.5	1.340		
68	23538.650	535	3.5	1.47 *		
69	23671.715	514	3.5	1.380		
70	23738.900	348	2.5	0.679		
71	23788.355	553	6.5	1.325		
72	24206.690	344	1.5	0.863		
73	24276.225	555	6.5	1.43 *		
74	24337.845	485	2.5	0.900		
75	24341.940	535	4.5	1.310		
76	24366.120	244	0.5	2.42 *		
77	24387.360	652	1.5	0.955		
78	24432.860	481	3.5	1.11 *		
79	24587.415	290	2.5	0.302		
80	24615.450	503	1.5	1.011		
81	24634.455	362	3.5	0.839		
82	24659.305	441*	4.5	1.14 *		
83	24700.905	445	0.5	2.025		
84	24823.940	536	5.5			
85	24840.100	682	1.5	1.025*		
86	24976.585	419	3.5	0.960		
87	25018.940	702	2.5	1.385		
88	25064.960	287	1.5	0.580		
89	25293.605	421	3.5	0.97 *		
90	25358.470	534	4.5	1.443		
91	25403.645	427	2.5	1.029		
92	25520.005	560*	7.5	1.33 *		
93	25556.740		4.5	0.976		
94	25573.915	318	1.5	1.627		
95	25614.115	519	3.5	1.48 *		
96	25944.980	497*	1.5	1.550		
97	25962.945	545	4.5	1.065		
98	26070.615	431	3.5	1.119		
99	26097.505	706	5.5	1.10 *		
100	26162.460	500	1.5	0.71 *		
101	26201.645	512	2.5	1.036		
102	26215.440	714	5.5	1.121		

	ENERGY LEVEL	I. S.	J	g	Pu II	ODD
103	26320.735	396	2.5	1.050		
104	26401.370	510	4.5	1.22 *		
105	26405.340	394	3.5	0.852		
106	26478.685	557	3.5	1.045		
107	26535.775	426*	0.5	-0.071		
108	26643.435	515	5.5	1.42 *		
109	26669.945	469	1.5	1.350		
110	26755.425	506	4.5	1.20 *		
111	26766.650	437	2.5	1.058		
112	26830.020	449	0.5	-0.097		
113	26916.090	446	2.5	1.04 *		
114	27059.565	325	4.5	1.03 *		
115	27162.335	356	1.5	1.046		
116	27266.960	475	3.5	1.155		
117	27306.210	491	2.5	1.04 *		
118	27338.500	423	1.5	0.876		
119	27466.315	532	1.5	1.793		
120	27523.600	411	0.5	0.940		
121	27542.165	519*	2.5	0.934		
122	27680.460	365*	2.5	1.31 *		
123	27691.000	515	6.5	1.16 *		
124	27702.165	414	1.5	1.135		
125	27798.480	452	3.5	1.06 *		
126	27828.005	463	4.5	1.41 *		
127	27830.060	400	2.5	1.216		
128	27879.305	426	0.5	0.802		
129	27982.155	291	2.5	0.52 *		
130	28026.690	514	2.5	1.32 *		
131	28110.650	424	1.5	0.899		
132	28158.490	487	5.5	1.14 *		
133	28225.815	379	3.5	1.20 *		
134	28252.945	374	0.5	0.920		
135	28259.990	527	1.5	1.263		
136	28322.800	522	6.5	1.443		
137	28421.805	339	2.5	0.878		
138	28478.585	400*	3.5	1.175		
139	28481.495	400	4.5	1.07 *		
140	28686.100	456	5.5	1.29 *		
141	28715.965	484	1.5	0.875		
142	28774.175	451	3.5	1.14 *		
143	28802.375	702	0.5	0.800		
144	28809.965	396	2.5	1.23 *		
145	28838.570	348	3.5	0.845		
146	28887.310	404	0.5	0.162		
147	28894.140	388	3.5	1.009		
148	28913.915	501	5.5	1.30 *		
149	28927.075	477*	4.5	1.04 *		
150	28941.215	310	2.5	0.968		
151	29026.425	273	2.5	1.150		
152	29040.245	401	1.5	1.447		
153	29074.145	319	5.5	0.94 *		
154	29197.755	425	2.5	0.989		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
155	29259.700	354	1.5	1.250		
156	29269.625	472	5.5	1.110		
157	29393.835	286	0.5	-0.516		
158	29457.315	400*	4.5	1.230		
159	29523.355	411	5.5	1.165		
160	29556.550	288	1.5	0.484		
161	29615.520	490	4.5	1.160		
162	29621.300	442*	1.5	1.045		
163	29630.290	364	5.5	1.13 *		
164	29647.060	400*	6.5	0.98 *		
165	29710.665	298	3.5	1.10 *		
166	29717.090		2.5	1.014		
167	29753.225	445	3.5	1.103		
168	29783.410	392*	0.5	2.59 *		
169	29804.680	445*	6.5	0.91 *		
170	29809.915	350*	3.5	1.068		
171	29821.685	448	5.5	1.005		
172	29879.945	461	2.5	1.026		
173	29888.135	522*	3.5	1.14 *		
174	29895.355	454	4.5	1.150		
175	29952.065	380	1.5	1.184		
176	30031.180	423	3.5	1.250		
177	30102.315	436	2.5	1.158		
178	30104.835		3.5	1.159		
179	30111.540	450*	5.5	1.10 *		
180	30193.265	399	1.5	1.364		
181	30223.215	440	2.5	1.025		
182	30229.760	472*	4.5	1.075		
183	30292.495	391	6.5	1.123		
184	30339.150	489	4.5	1.154		
185	30381.705	334	3.5	1.109		
186	30410.665	754*	4.5	1.126		
187	30562.000	443	0.5	2.689		
188	30590.765	477*	2.5	0.900		
189	30626.955	515	4.5	1.055		
190	30646.175	386	3.5	1.272		
191	30727.440	418	1.5	1.208		
192	30759.570	514	2.5	1.220		
193	30765.285	363	3.5	1.19 *		
194	30775.140	295	3.5	1.099		
195	30790.830	458	5.5	1.175		
196	30794.930	377	1.5	1.084		
197	30802.205	306	4.5	1.16 *		
198	30865.395	312	3.5	1.328		
199	31000.010	448	1.5	1.669		
200	31095.675	438	2.5	1.17 *		
201	31152.740		5.5	1.24 *		
202	31160.405	711	3.5	0.978		
203	31173.370	435*	6.5	1.16 *		
204	31197.285	370*	0.5	0.776		
205	31231.210	392*	0.5	0.86 *		
206	31255.945	374	1.5	0.921		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
207	31274.745	422*	2.5	1.20 *		
208	31284.370	372	3.5	1.114		
209	31351.800	510	4.5	1.12 *		
210	31442.330		5.5	1.17 *		
211	31454.580	462	3.5	1.18 *		
212	31485.455	460	1.5	1.300		
213	31507.220	323	4.5	1.130		
214	31516.780		2.5	1.215		
215	31542.950		1.5	1.026		
216	31590.115	731	4.5	1.054		
217	31596.070	400*	6.5	1.000		
218	31619.095	325*	1.5	1.613		
219	31702.260	384	6.5	1.05 *		
220	31739.610	390	2.5	1.17 *		
221	31750.220		5.5	1.180		
222	31758.755		2.5	1.270		
223	31778.615		0.5	2.897		
224	31798.195	445	4.5	1.29 *		
225	31916.975	407*	1.5	1.363		
226	31964.795		6.5	1.189		
227	31972.395		4.5	1.21 *		
228	32032.585	372	4.5	1.335		
229	32041.795	251	1.5	0.981		
230	32154.455		0.5	1.97 *		
231	32155.060	532*	2.5	1.284		
232	32210.400	395	2.5	1.339		
233	32259.765*	488	5.5	1.18 *		
234	32283.420	420	2.5	1.045		
235	32324.550		3.5	0.975		
236	32332.915	295	4.5	1.10 *		
237	32393.315	463*	6.5	1.15 *		
238	32398.160	572*	2.5	1.308		
239	32399.895	434*	4.5	1.11 *		
240	32403.385		5.5	1.145		
241	32501.390	440	4.5	1.190		
242	32521.16 *		2.5	1.020		
243	32544.185	294	3.5	1.130		
244	32555.705	339*	1.5	1.269		
245	32558.100	443	0.5	1.37 *		
246	32602.725		4.5	1.28 *		
247	32607.135	406	4.5	1.047		
248	32630.100	487*	5.5	1.08 *		
249	32670.835	335	2.5	1.361		
250	32740.875	352*	4.5	0.970		
251	32763.860		6.5	1.21 *		
252	32820.775	310	2.5	1.315		
253	32841.375	292	1.5	1.234		
254	32880.32 *	393	5.5	1.209		
255	32893.805	487	4.5	0.98 *		
256	32994.525		1.5	1.110		
257	32995.835	445	4.5	1.164		
258	33019.160	369	3.5	1.160		

	ENERGY LEVEL	I. S.	J	g	Pu II	ODD
259	33052.825	405*	0.5	1.242		
260	33094.805	502	5.5	1.05 *		
261	33123.580	499*	2.5	1.285		
262	33189.610	327	2.5	1.121		
263	33332.350	373*	4.5	1.072		
264	33363.790	385	3.5	1.078		
265	33381.120	480	5.5	1.152		
266	33389.920	334	1.5	0.943		
267	33440.770	422*	2.5	1.016		
268	33443.355	534	5.5	1.10 *		
269	33457.050	306	3.5	1.002		
270	33520.920		4.5	0.996		
271	33532.385	382	5.5	1.341		
272	33619.660	425	0.5	1.470		
273	33629.300	305	2.5	1.242		
274	33634.550	420*	1.5	1.23 *		
275	33721.040	417	1.5	1.228		
276	33756.860	334	3.5	1.272		
277	33784.830		4.5	1.070		
278	33809.795	451	5.5	1.180		
279	33820.430		1.5	1.410		
280	33867.535	408	1.5	1.67 *		
281	33876.910	544*	3.5	1.043		
282	33892.325		0.5	1.220		
283	34013.940	430	3.5	1.121		
284	34048.700		0.5	0.40 *		
285	34077.830	288*	1.5	1.650		
286	34088.695	339*	2.5	1.340		
287	34193.640		1.5	0.97 *		
288	34232.360		3.5	0.980		
289	34300.160		2.5	1.37 *		
290	34353.025	562	3.5	1.199		
291	34361.635	258	5.5	1.222		
292	34362.170	438	4.5	1.198		
293	34452.020		3.5	1.215		
294	34460.555	277*	5.5	1.066		
295	34470.355	444*	0.5	0.48 *		
296	34482.680		2.5	1.307		
297	34522.010		2.5	1.085		
298	34560.050		1.5	1.130		
299	34595.165	652	6.5	1.16 *		
300	34630.315	407	5.5	1.155		
301	34630.775	474*	1.5	1.198		
302	34651.175	477	3.5	1.047		
303	34668.015	432*	2.5	1.175		
304	34703.075	479	5.5	1.030		
305	34738.755	425	6.5	1.270		
306	34757.860	430	3.5	1.202		
307	34807.830	345	7.5	1.170		
308	34844.620	336	1.5	1.528		
309	34895.470	582	3.5	1.165		
310	34902.775	556	3.5	1.155		

ENERGY LEVEL		I.S.	J	g	Pu II	ODD
311	34907.455	480	6.5	1.10 *		
312	34911.115		1.5	1.300		
313	34922.835		0.5	1.010		
314	34925.920	412*	2.5	1.115		
315	34964.825	425	4.5	1.122		
316	35028.065	543	4.5	1.144		
317	35117.695	271	1.5	1.505		
318	35188.565	396*	3.5	1.154		
319	35210.405		4.5	0.977		
320	35212.780		2.5	1.108		
321	35265.810	464*	3.5	0.98 *		
322	35273.260		1.5	0.865		
323	35332.255	313	2.5	1.263		
324	35386.270	454	4.5	1.100		
325	35390.520	475*	5.5	1.055		
326	35432.095		1.5	1.190		
327	35435.415		2.5	0.937		
328	35460.660	552	3.5	1.145		
329	35479.995		3.5	1.335		
330	35525.910	425*	4.5	1.176		
331	35545.800	190	0.5	0.961		
332	35579.170	392*	2.5	1.19 *		
333	35586.850	309	1.5	1.16 *		
334	35607.320		3.5	1.150		
335	35614.250	309	1.5	1.560		
336	35635.830		2.5	1.165		
337	35637.895		3.5	1.158		
338	35653.670	429	6.5	1.105		
339	35659.575	267*	0.5	0.46 *		
340	35688.405	441*	6.5	1.11 *		
341	35726.195		0.5	1.55 *		
342	35749.300		2.5	1.14 *		
343	35831.915		4.5	1.17 *		
344	35861.855	405	3.5	1.155		
345	35863.985	350*	4.5	1.21 *		
346	35888.345	476*	2.5	0.965		
347	35897.685		0.5	2.17 *		
348	35901.360	449*	5.5	1.015		
349	35902.735	407	1.5	1.605		
350	35955.905	427	6.5	1.14 *		
351	35993.175	441*	2.5	0.99 *		
352	36026.425		2.5	1.344		
353	36033.315	396	4.5	1.134		
354	36060.445	388	1.5	1.52 *		
355	36159.885	400*	6.5	1.090		
356	36203.035		4.5	0.983		
357	36206.050		1.5	0.87 *		
358	36256.590		3.5	1.115		
359	36300.540	380	4.5	1.142		
360	36309.025		2.5	1.095		
361	36326.420	378*	2.5	1.099		
362	36333.015	365	5.5	1.137		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
363	36345.225		3.5	1.214		
364	36346.625	421*	0.5	2.24 *		
365	36437.710	439	5.5	1.137		
366	36456.850		1.5	1.325		
367	36470.320		3.5	1.172		
368	36494.740		1.5	1.470		
369	36540.920	351*	3.5	1.20 *		
370	36545.045	458	2.5	1.330		
371	36586.190		2.5	1.330		
372	36593.540	300*	5.5	1.145		
373	36613.145		4.5	1.01 *		
374	36642.955	326	3.5	1.356		
375	36663.170		1.5	1.635		
376	36666.870		2.5	1.157		
377	36692.525	363*	5.5	1.070		
378	36774.865		3.5	1.127		
379	36787.360	472	5.5	1.150		
380	36838.925	154*	3.5	1.225		
381	36845.610	599*	4.5	1.180		
382	36882.645		2.5	1.010		
383	36931.980	584	5.5	1.214		
384	36942.795		2.5	1.040		
385	36943.155	300*	6.5	1.098		
386	36945.320		1.5	1.030		
387	36953.625		0.5	0.92 *		
388	36967.635		4.5	1.190		
389	36970.040		2.5	1.405		
390	36976.110		3.5	1.200		
391	36977.120	360*	5.5	1.125		
392	37012.210	447	4.5	1.164		
393	37016.265		5.5	1.150		
394	37058.525		1.5	1.180		
395	37084.510		3.5	1.08 *		
396	37088.890		0.5	0.89 *		
397	37104.860	456	4.5	1.171		
398	37144.560		3.5	1.220		
399	37211.420	420	6.5	1.069		
400	37212.525		2.5	0.96 *		
401	37224.725		4.5	1.145		
402	37232.550		2.5	0.985		
403	37240.235	322*	3.5	1.240		
404	37281.410		0.5	0.73 *		
405	37336.640		2.5	1.207		
406	37362.265		1.5	1.215		
407	37373.930		4.5	1.175		
408	37406.230		5.5	1.125		
409	37426.335		3.5	1.149		
410	37439.680		0.5	1.11 *		
411	37440.110		4.5	1.125		
412	37450.390		7.5	1.210		
413	37535.41 *		2.5	1.140		
414	37564.000		4.5	1.12 *		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
415	37580.805	388*	2.5	1.215		
416	37589.795		5.5	1.12 *		
417	37640.995		2.5	1.35 *		
418	37665.440	328*	4.5	1.105		
419	37681.895	459	6.5	1.090		
420	37720.350	421	4.5	1.145		
421	37735.495		3.5	1.090		
422	37748.140	391*	6.5	1.135		
423	37771.420		1.5	1.47 *		
424	37807.135	299*	3.5	1.09 *		
425	37832.845	298	4.5	1.250		
426	37839.835		3.5	1.220		
427	37855.640		6.5	1.09 *		
428	37874.470		1.5	1.030		
429	37904.140	350*	3.5	1.275		
430	37942.885		6.5	1.097		
431	37957.130		4.5	1.160		
432	37957.445		2.5	1.26 *		
433	37979.815		1.5	1.10 *		
434	37985.715		3.5	1.18 *		
435	38012.065		2.5	0.99 *		
436	38013.250		5.5	1.145		
437	38016.965		0.5	1.390		
438	38062.615		2.5	1.110		
439	38094.785		5.5	1.09 *		
440	38109.990	436*	3.5	1.105		
441	38163.310		1.5	1.220		
442	38199.355		2.5	1.045		
443	38215.850		0.5	0.996		
444	38231.070		3.5	1.13 *		
445	38238.390		5.5	1.095		
446	38262.375		6.5	1.06 *		
447	38276.535	382	5.5	1.20 *		
448	38308.875		3.5	1.01 *		
449	38317.610		2.5	1.170		
450	38337.450		1.5	1.160		
451	38359.000		1.5	0.995		
452	38435.630	438*	5.5	1.15 *		
453	38455.355		2.5	1.300		
454	38492.760		3.5	1.095		
455	38507.290	380*	3.5	1.270		
456	38521.710		4.5	1.145		
457	38530.110		2.5	1.245		
458	38536.615		1.5	1.000		
459	38572.970		5.5	1.035		
460	38575.800		3.5	1.150		
461	38582.890		2.5	1.120		
462	38629.265		0.5	1.38 *		
463	38667.180	356*	4.5	1.092		
464	38708.515		5.5	1.035		
465	38712.675		0.5	1.313		
466	38724.885		2.5	1.140		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
467	38759.850		3.5	1.165		
468	38774.085		2.5	1.17 *		
469	38809.725		4.5	1.110		
470	38811.900	212*	3.5	1.115		
471	38844.845		2.5	1.340		
472	38880.705		0.5	1.05 *		
473	38892.715		3.5	1.165		
474	38903.090		4.5	1.135		
475	38915.335		5.5	1.12 *		
476	38948.000		2.5	1.090		
477	38955.805		3.5	1.165		
478	38993.130		2.5	1.025		
479	38997.205	567	5.5	1.073		
480	39042.775		1.5	1.050		
481	39057.100		3.5	1.220		
482	39057.820	544	4.5	1.156		
483	39080.135		2.5	1.255		
484	39081.580	315	4.5	1.207		
485	39092.590		3.5	1.180		
486	39101.810	335*	1.5	0.98 *		
487	39127.295	421*	5.5	1.179		
488	39152.255		4.5	1.187		
489	39173.105		4.5	1.035*		
490	39176.695	408*	6.5	1.180		
491	39185.820	340*	5.5	1.313		
492	39187.220		2.5	1.17 *		
493	39250.070		4.5	1.155		
494	39262.620		3.5	0.950		
495	39289.160		2.5	1.020		
496	39290.645		6.5	1.075		
497	39336.975		1.5	0.78 *		
498	39362.185		4.5	1.075		
499	39370.905	364*	5.5	1.16 *		
500	39394.720		2.5	1.100		
501	39405.150		3.5	1.110		
502	39421.670		4.5	1.100		
503	39465.195		2.5	1.070		
504	39475.380	464*	6.5	1.110		
505	39510.275		0.5	0.29 *		
506	39531.705	375*	3.5	1.060		
507	39542.145		4.5	0.985		
508	39566.980		1.5	1.18 *		
509	39574.070		2.5	0.99 *		
510	39574.860		5.5	1.07 *		
511	39611.620	421*	3.5	1.19 *		
512	39630.685		4.5	1.125		
513	39688.175		4.5	1.140		
514	39696.890		0.5	0.900		
515	39703.385		5.5	1.090		
516	39704.305		1.5	1.22 *		
517	39732.360	322	3.5	1.275		
518	39745.960		5.5	1.185		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
519	39788.335		2.5			
520	39801.675		4.5	1.065		
521	39847.645		1.5	0.940		
522	39866.140		2.5	1.095		
523	39873.620		3.5	1.16 *		
524	39876.970		4.5	1.115		
525	39886.605	387*	5.5	1.228		
526	39891.565		4.5	1.090		
527	39922.940		1.5	1.06 *		
528	39933.405		3.5	1.045		
529	39976.890	367*	3.5	1.170		
530	39984.710	444*	5.5	1.085		
531	40013.240		2.5	1.185		
532	40015.520		2.5	1.07 *		
533	40035.490		1.5	1.18 *		
534	40047.795		3.5	1.10 *		
535	40054.100		4.5	1.160		
536	40068.320		6.5	1.135		
537	40104.34 *		2.5	1.000		
538	40114.225		4.5	1.135		
539	40130.265		5.5	1.150		
540	40142.525		6.5	1.165		
541	40148.535		3.5	1.060		
542	40181.615		3.5	1.08 *		
543	40213.870		2.5	1.28 *		
544	40214.805	377*	4.5	1.320		
545	40254.585		1.5	1.14 *		
546	40295.200		4.5	1.045		
547	40297.730		5.5	1.070		
548	40316.585		3.5	1.085		
549	40331.990		0.5	1.92 *		
550	40341.970		1.5	0.89 *		
551	40344.355	274*	5.5	1.165		
552	40363.785		2.5	1.08 *		
553	40374.595		0.5	0.96 *		
554	40400.610		6.5	1.18 *		
555	40400.905		2.5	1.100		
556	40412.140		3.5	1.170		
557	40425.890		5.5	1.130		
558	40427.180		4.5	1.165		
559	40469.010		1.5	1.25 *		
560	40491.205		4.5	1.155		
561	40503.160		5.5	1.11 *		
562	40513.220		3.5	0.925		
563	40563.165		2.5	0.995		
564	40566.005		0.5	1.17 *		
565	40595.070		1.5	0.825		
566	40639.100		4.5	1.310		
567	40658.815		3.5	1.17 *		
568	40663.645		5.5	1.145		
569	40667.340		0.5	1.925		
570	40716.010		3.5	1.10 *		

	ENERGY LEVEL	I. S.	J	g	Pu II	ODD
571	40833.605		4.5	1.09 *		
572	40841.155		5.5	1.105		
573	40853.860		2.5	1.16 *		
574	40861.025		3.5	1.105		
575	40873.960		5.5	1.080		
576	40889.360		1.5	1.35 *		
577	40918.485		4.5	1.075		
578	40934.150		5.5	1.165		
579	40951.155		2.5	1.015		
580	40965.950		3.5	1.105		
581	40973.325		0.5	0.485		
582	41030.115		3.5	1.10 *		
583	41062.170		1.5	1.425		
584	41113.050		4.5	1.120		
585	41133.595		3.5	1.195		
586	41133.945		1.5	1.21 *		
587	41183.055		3.5	1.100		
588	41202.885		1.5	1.07 *		
589	41221.810		4.5	1.180		
590	41243.080		3.5	1.145		
591	41294.660		2.5	1.180		
592	41308.120		5.5	1.040		
593	41325.730		0.5	0.56 *		
594	41352.185		4.5	1.225		
595	41381.835		4.5	1.145		
596	41387.240		5.5	1.125		
597	41404.605		6.5	1.080		
598	41444.280		5.5	1.065		
599	41451.460	128*	5.5	1.280		
600	41457.915		6.5	1.10 *		
601	41458.205		4.5	1.130		
602	41464.210		1.5	1.065		
603	41498.165		0.5	0.325		
604	41518.100		2.5	1.160		
605	41529.540		4.5	1.165		
606	41536.885		4.5	1.155		
607	41593.040		1.5	1.15 *		
608	41608.075	398*	6.5	1.095		
609	41621.445		2.5	1.065		
610	41628.325		4.5	1.155		
611	41659.050		4.5	1.120		
612	41690.195		6.5	1.090		
613	41697.420		3.5	1.13 *		
614	41701.060		5.5	1.085		
615	41711.780		1.5	1.13 *		
616	41763.300		6.5	1.125		
617	41764.120		5.5	1.080		
618	41770.185		6.5	1.090		
619	41775.135		4.5	1.070		
620	41819.660		4.5	1.150		
621	41824.260		3.5	1.120		
622	41862.090	438*	6.5	1.145		

	ENERGY LEVEL	I. S.	J	g	Pu II	ODD
623	41920.925		5.5	1.120		
624	41939.060		2.5	1.03 *		
625	41949.045		3.5	1.050		
626	41955.897		2.5	1.090		
627	41982.315		0.5	1.62 *		
628	42029.980		3.5	1.06 *		
629	42050.415		1.5	1.18 *		
630	42061.340		4.5	1.175		
631	42069.210		3.5	1.190		
632	42125.715		5.5	1.165		
633	42139.380		6.5	1.150		
634	42207.525	325	6.5	1.140		
635	42236.985		3.5	1.035		
636	42254.735	397*	5.5	1.180		
637	42273.350		6.5	1.065		
638	42282.525		3.5	1.360		
639	42299.740		2.5	1.065		
640	42316.425		5.5	1.155		
641	42326.310		6.5	1.095		
642	42370.412		3.5			
643	42413.240		4.5	1.055		
644	42418.545		1.5	1.06 *		
645	42475.410		4.5	1.140		
646	42482.960		6.5	1.135		
647	42503.155		6.5	1.090		
648	42513.590		5.5	1.115		
649	42575.325		5.5	1.090		
650	42595.005		4.5	1.115		
651	42607.125		4.5	1.130		
652	42630.250		2.5	1.15 *		
653	42658.795		6.5	1.180		
654	42669.090		6.5	1.110		
655	42699.235		4.5	1.195		
656	42719.590		5.5	1.185		
657	42733.945		4.5	1.090		
658	42752.670		1.5	1.20 *		
659	42775.870		2.5	1.180		
660	42789.075		1.5	1.215		
661	42813.440		6.5	1.185		
662	42837.570		5.5	1.220		
663	42873.785		5.5	1.215		
664	42891.360		4.5	1.17 *		
665	42898.175		6.5	1.095		
666	42908.300		5.5	1.105		
667	42932.085		3.5	1.170		
668	43030.420		6.5	1.110		
669	43052.285		5.5	1.150		
670	43075.060		4.5	1.080		
671	43095.860		1.5	1.12 *		
672	43113.500		6.5	1.130		
673	43124.930		7.5	1.105		
674	43145.645		3.5	1.195		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
675	43156.875		5.5	1.16 *		
676	43163.110		7.5	1.180		
677	43203.480		5.5	1.120		
678	43218.185		4.5	1.155		
679	43230.265		6.5	1.075		
680	43252.700		7.5	1.190		
681	43254.910		3.5	1.355		
682	43287.195		1.5	1.205		
683	43288.355		6.5	1.150		
684	43339.890		7.5	1.213		
685	43348.445		5.5	1.115		
686	43370.680		2.5	1.265		
687	43403.995		6.5	1.130		
688	43408.215		3.5	1.080		
689	43529.065		1.5	1.04 *		
690	43558.060		0.5	1.58 *		
691	43566.215		5.5	1.12 *		
692	43681.995		1.5	1.065		
693	43694.395		5.5	1.130		
694	43765.665		2.5	1.11 *		
695	43771.490		4.5	1.045		
696	43805.265		1.5	1.090		
697	43823.020		4.5	1.235		
698	43830.510		3.5	1.02 *		
699	43834.325		5.5	1.09 *		
700	43847.065		5.5	1.120		
701	43911.020		6.5	1.130		
702	43934.325		1.5	1.060		
703	43943.935		1.5	1.095		
704	43965.055		0.5	0.77 *		
705	43989.695		3.5	1.11 *		
706	44079.570		5.5	1.085		
707	44102.745		1.5	1.16 *		
708	44178.800		2.5	1.17 *		
709	44193.995		3.5	1.215		
710	44200.775		5.5	1.100		
711	44257.315		1.5	1.185		
712	44257.905		6.5	1.130		
713	44383.735		5.5	1.09 *		
714	44392.825		1.5	0.95 *		
715	44425.305		5.5	1.065		
716	44449.545		6.5	1.170		
717	44465.940		5.5	1.095		
718	44539.630		6.5	1.060		
719	44580.780		4.5	1.060		
720	44636.635		4.5	1.075		
721	44746.615		4.5	1.095		
722	44750.600		6.5	1.15 *		
723	44766.125		4.5	1.09 *		
724	44831.060		4.5	1.085		
725	44941.447		3.5	1.23 *		
726	44991.755		6.5	1.145		

	ENERGY LEVEL	I.S.	J	g	Pu II	ODD
727	45011.730		4.5	1.055		
728	45051.680		6.5	1.09 *		
729	45086.735		5.5	1.12 *		
730	45185.970		6.5	1.040		
731	45203.680		2.5	1.15 *		
732	45278.700		4.5	1.090		
733	45294.560		5.5	1.09 *		
734	45296.930		1.5	1.245		
735	45405.840		4.5	1.09 *		
736	45474.760		4.5	1.090		
737	45804.115		5.5	1.105		
738	45890.950		5.5	1.07 *		
739	46141.340		1.5	0.96 *		
740	46335.210		6.5	1.01 *		
741	46411.689		3.5	1.08 *		
742	47594.160		5.5	1.090		
743	47643.785		4.5	1.10 *		
744	47735.510		1.5	1.095		
745	48967.305		3.5	1.090		
746	56714.368		1.5			

Pu II LEVELS, EVEN PARITY

	ENERGY LEVEL	I.S.	J	g
1	0.000	381	0.5	3.150
2	2014.966	384	1.5	1.881
3	3235.770	365	0.5	0.299
4	3969.846	391	2.5	1.670
5	5502.060	364	1.5	1.169
6	5717.976	384	3.5	1.596
7	7278.862	378	4.5	1.545
8	7498.364	362	2.5	1.321
9	8638.233	385	5.5	1.514
10	9242.356	373	3.5	1.369
11	9707.980	380	6.5	1.485
12	10188.463	385	0.5	2.402
13	10726.322	356	4.5	1.391
14	11799.241	357	5.5	1.373
15	12007.503	77	1.5	-0.019
16	13726.318	79	2.5	0.784
17	13990.952	382	1.5	1.728
18	14433.351	99	1.5	1.925
19	14693.090	357*	0.5	0.840
20	15488.530	79	3.5	1.057
21	16286.582	79	0.5	-0.122
22	16745.720	81	2.5	1.671
23	17039.487	81	1.5	1.354
24	17163.470	79	4.5	1.200
25	18517.872	77	0.5	2.755
26	18666.006	153	2.5	1.365
27	18761.580	79	5.5	1.296
28	19827.020	80	1.5	1.733
29	20175.895	87	3.5	1.515
30	20322.349	76	6.5	1.314
31	21057.925	78	2.5	1.590
32	21291.350	96	4.5	1.590
33	21542.435	81	2.5	1.279
34	21862.135	112	2.5	1.32 *
35	21919.400	74	7.5	1.345
36	22197.670	81	3.5	1.530
37	22500.225	84	5.5	1.555
38	23249.745	81	4.5	1.475
39	23914.960		8.5	1.385
40	24894.460	401	3.5	0.740
41	29066.645	104*	1.5	0.670
42	29316.115	364*	2.5	1.140
43	29606.060	103	4.5	0.790
44	29929.355	341	2.5	1.28 *
45	30688.110		2.5	1.11 *
46	30956.365	424	2.5	0.646
47	31213.510	423	3.5	1.045
48	31448.910	259	2.5	0.800
49	31677.390	428	2.5	0.675
50	32064.280	342	3.5	1.09 *

	ENERGY LEVEL	I.S.	J	g	Pu II	EVEN
51	32443.065	385	1.5	0.730		
52	32474.965	578*	1.5	1.15 *		
53	32531.815	265	2.5	1.01 *		
54	32910.615	377	3.5	0.845		
55	32986.390	210	2.5	1.04 *		
56	33057.710	426	3.5	0.857		
57	33254.995	228	3.5	0.975		
58	33351.730	448	2.5	0.80 *		
59	33366.475	576	1.5	0.129		
60	33450.655	428	2.5	0.941		
61	33600.850	443	2.5	1.263		
62	33793.295	208	4.5	0.800		
63	33880.390	262*	3.5	1.00 *		
64	34261.065	396	4.5	0.920		
65	34296.050	295	4.5	0.768		
66	34577.135	237*	4.5	1.01 *		
67	35018.725	409	3.5	0.911		
68	35182.315	370*	4.5	1.000		
69	35347.740	384	3.5	1.195		
70	35493.485	300	3.5	0.931		
71	35552.385	273	3.5	0.903		
72	35856.485	245	3.5	1.025		
73	36098.770	482	4.5	1.029		
74	36252.985	432	3.5	1.004		
75	36330.720	202	4.5	1.16 *		
76	37049.535	563	2.5	0.730		
77	37299.525	362	5.5	0.923		
78	37323.995	360	5.5	0.935		
79	37439.105	300*	3.5	0.926		
80	37526.775	646	4.5	0.591		
81	37562.100	156*	5.5	0.950		
82	37581.395	435	3.5	0.748		
83	37640.775	813	5.5	0.70 *		
84	37729.665	236	2.5	1.05 *		
85	37855.640		6.5	1.09 *		
86	37956.685	499	1.5	0.904		
87	37969.065	245	2.5	0.832		
88	38355.450	454	1.5	0.698		
89	38443.925	517	4.5	1.020		
90	38563.445		2.5	1.085		
91	38623.240		3.5	0.64 *		
92	38692.585		2.5	0.720		
93	38832.875	326	4.5	0.995		
94	38990.840	327	4.5	1.105		
95	39014.660	357	5.5	1.07 *		
96	39218.825	423	0.5	1.61 *		
97	39463.005	495*	1.5	1.420		
98	39502.705	390	3.5	0.92 *		
99	39807.520		4.5	0.725		
100	39835.970	328	3.5	0.85 *		
101	39846.560		4.5	1.021		
102	39903.115		4.5	1.06 *		

	ENERGY LEVEL	I. S.	J	g	Pu II	EVEN
103	40025.010	290	3.5	0.900		
104	40037.11 *	482	5.5	0.884		
105	40038.370		1.5	0.44 *		
106	40054.350	382*	0.5	0.390		
107	40080.685	320	5.5	1.06 *		
108	40099.165		2.5	0.95 *		
109	40140.890		2.5	0.72 *		
110	40207.135		2.5	1.02 *		
111	40313.110		4.5	1.010		
112	40367.875		4.5	1.175		
113	40406.550		4.5	1.09 *		
114	40498.010	494	4.5	0.86 *		
115	40514.565	432*	2.5	0.800		
116	40755.465		2.5	0.800		
117	40896.955		1.5	0.80 *		
118	40949.343		6.5			
119	40955.385	389	3.5	0.850		
120	41027.335		4.5	0.895		
121	41089.060	299	2.5	0.935		
122	41267.915		2.5	0.860		
123	41316.930		1.5	0.70 *		
124	41460.320		3.5	0.98 *		
125	41549.68 *		5.5	1.07 *		
126	41605.005	409	2.5	0.935		
127	41849.030		2.5	1.080		
128	42029.735		3.5	0.695		
129	42117.035	475*	2.5	0.835		
130	42118.305	295	4.5	1.040		
131	42276.885		4.5	1.12 *		
132	42400.935		4.5	1.00 *		
133	42581.655		1.5	0.79 *		
134	42700.125		2.5	0.815		
135	42792.230		3.5	0.900		
136	43040.400		1.5	0.74 *		
137	43045.525	500*	1.5	0.79 *		
138	43073.510	378*	4.5	0.95 *		
139	43078.770		2.5	0.84 *		
140	43122.525		2.5			
141	43331.31 *		5.5	1.055		
142	43353.370		3.5	0.97 *		
143	43437.020		3.5	0.96 *		
144	43451.520		1.5	1.19 *		
145	43464.975		5.5	1.05 *		
146	43470.195		3.5	0.860		
147	43569.180		3.5	1.005		
148	43643.060		3.5	0.99 *		
149	43711.415		3.5	0.955		
150	43822.335	376*	2.5	0.95 *		
151	43953.290		1.5	1.510		
152	43981.710		2.5	1.090		
153	44016.500		4.5	1.05 *		
154	44081.440		4.5	0.875		

	ENERGY LEVEL	I. S.	J	g	Pu II	EVEN
155	44134.025		0.5	1.620		
156	44186.735		5.5	1.09 *		
157	44318.570	219*	5.5	1.035		
158	44326.520		4.5	0.96 *		
159	44361.495		2.5	0.85 *		
160	44371.925		3.5	0.97 *		
161	44415.30 *		3.5	0.940		
162	44493.850		1.5	1.11 *		
163	44690.770		4.5			
164	44705.905		3.5	0.95 *		
165	44723.835		2.5	0.81 *		
166	44836.670		4.5	1.085		
167	44853.015		2.5	0.92 *		
168	45056.650		2.5	1.030		
169	45069.320		2.5	0.73 *		
170	45101.220		5.5	1.06 *		
171	45140.685		2.5	0.850		
172	45267.550		4.5	1.045		
173	45286.880		5.5	1.00 *		
174	45445.065		4.5	1.00 *		
175	45479.584		2.5	0.895		
176	45490.030		4.5	1.065		
177	45490.434		4.5	1.065		
178	45551.330		5.5	1.06 *		
179	45685.090		4.5	0.955		
180	45718.025		3.5	1.065		
181	45744.825		3.5			
182	45764.910		1.5	0.66 *		
183	45768.610		2.5	0.755		
184	45786.224		2.5	0.895		
185	46009.840		4.5	1.050		
186	46017.075		2.5			
187	46031.465		2.5	0.80 *		
188	46032.640		1.5			
189	46154.290		3.5	1.09 *		
190	46187.750		1.5	0.740		
191	46192.700		3.5	0.950		
192	46199.395		3.5	0.955		
193	46304.585		2.5	0.98 *		
194	46314.760		3.5	1.055		
195	46345.820		4.5	1.030		
196	46355.430		3.5	0.950		
197	46488.000		2.5	1.00 *		
198	46565.005		4.5	1.04 *		
199	46573.500		5.5	1.025		
200	46577.625		3.5	0.75 *		
201	46591.055		3.5	1.100		
202	46740.710		1.5	0.93 *		
203	46748.670		3.5	1.00 *		
204	46813.360		2.5	1.07 *		
205	46887.595		3.5	0.930		
206	46893.745		1.5	0.67 *		

	ENERGY LEVEL	I.S.	J	g	Pu II	EVEN
207	47003.820		3.5	0.935		
208	47039.640		1.5	1.02 *		
209	47079.610		2.5	0.96 *		
210	47129.430		2.5	0.920		
211	47153.090		5.5	1.04 *		
212	47201.830		3.5	0.895		
213	47248.155		5.5	1.030		
214	47475.820		6.5	1.085		
215	47481.485		3.5	1.000		
216	47683.770		3.5	1.09 *		
217	47687.019		2.5			
218	47810.565		3.5	1.160		
219	47872.094		1.5	0.76 *		
220	48015.425		3.5	1.08 *		
221	48091.025		2.5	1.100		
222	48149.055		3.5	0.98 *		
223	48151.405		3.5	1.010		
224	48156.010		2.5	0.920		
225	48213.315		3.5	1.04 *		
226	48340.695		4.5	1.26 *		
227	48399.780		3.5	0.950		
228	48478.270		3.5	0.970		
229	48504.345		2.5	0.79 *		
230	48553.715		2.5	0.64 *		
231	48618.050		3.5	0.92 *		
232	48619.650		4.5	1.00 *		
233	48737.664		2.5	0.97 *		
234	48762.625		3.5	0.82 *		
235	48963.485		4.5	1.055		
236	48967.305		3.5	1.090		
237	49054.605		4.5	1.02 *		
238	49101.285		4.5	1.05 *		
239	49103.065		2.5	0.955		
240	49177.890		3.5	1.04 *		
241	49233.475		3.5	0.98 *		
242	49349.270		4.5	1.110		
243	49384.725		2.5	0.93 *		
244	49742.440		3.5	0.975		
245	49753.063		3.5	1.00 *		
246	49904.305		3.5			
247	50058.235		3.5	1.00 *		
248	50912.115		3.5	0.95 *		
249	51444.460		2.5	0.91 *		
250	51744.19 *		1.5	0.75 *		
251	51825.535		2.5	0.99 *		
252	52159.630		3.5			

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