

NIST ATOMIC TRANSITION PROBABILITIES

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For the 2005 edition of this *Handbook*, we include new, more accurate data for Fe I and Fe II,¹ and Ba I and Ba II.² The new tables contain critically evaluated atomic transition probabilities for over 10500 selected lines of all elements for which reliable data are available on an absolute scale. The material is largely for neutral and singly ionized spectra, but also includes a number of prominent lines of more highly charged ions of important elements.

Many of the data are obtained from comprehensive compilations of the Data Center on Atomic Transition Probabilities at the National Institute of Standards and Technology. Specifically, data have been taken from three recent comprehensive critical compilations on C, N and O,³ on Sc through Mn⁴ and Fe through Ni,⁵ and special compilations on neutral and singly ionized iron and barium. Material from earlier compilations for the elements H through Ne⁶ and Na through Ca⁷ was supplemented by more recent material taken directly from the original literature. For the highly charged ions, some of the data were derived from studies of the systematic behavior of transition probabilities.⁸⁻¹⁰ Most of the original literature is cited in the above tables and in recent bibliographies;^{11,12} for lack of space, individual literature references are not cited here.

The wavelength range for the neutral species is normally the visible spectrum or shorter wavelengths; only the very prominent near infrared lines are included. For the higher ions, most of the strong lines are located in the far UV. The tabulation is limited to electric dipole — including intercombination — lines and comprises essentially the fairly strong transitions with estimated uncertainties in the 10% to 50% range. With the exception of hydrogen, helium, and the alkali metals, most transitions are between states with low principal quantum numbers.

The transition probability, A , is given in units of 10^8 s^{-1} and is listed to as many digits as is consistent with the indicated accuracy. The power of 10 is indicated by the E notation (i.e., E-02 means 10^{-2}). Generally, the estimated uncertainties of the A -values are ± 25 to 50% for two-digit numbers, ± 10 to 25% for three-digit numbers and $\pm 1\%$ or better for four- and five-digit numbers.

Each transition is identified by the wavelength λ in ångströms ($1 \text{ \AA} = 10^{-10} \text{ m}$); and the statistical weights, g_i and g_k , of the lower (i) and upper (k) states [the product $g_k A$ (or $g_i f$) is needed for many applications]. Whenever the wavelengths of individual lines within a multiplet are extremely close, only an average wavelength for the multiplet as well as the multiplet A -value are given, and this is indicated by an asterisk (*) to the left of the wavelength. This also has been done when the transition probability for an entire multiplet has been taken from the literature and values for individual lines cannot be determined because of insufficient knowledge of the coupling of electrons. The wavelength data have been taken either from recent compilations or from the original literature cited in bibliographies published by the Atomic Energy Levels Data Center^{13,14} at the National Institute of Standards and Technology. Wavelength values are consistent with those given in the table "Line Spectra of the Elements," which appears elsewhere in this *Handbook*.

In addition to the transition probability A , the atomic oscillator strength f and the line strength S are often used in the literature. The conversion factors between these quantities are (for electric-dipole transitions):

$$g_i f = 1.499 \cdot 10^{-8} \lambda^2 g_k A = 303.8 \lambda^{-1} S$$

where λ is in ångströms, A is in 10^8 s^{-1} , and S is in atomic units, which are

$$a_0^2 e^2 = 7.188 \cdot 10^{-59} \text{ m}^2 \text{ C}^2.$$

The table for hydrogen is presented first, followed by the tables for other elements in alphabetical sequence by element name (not symbol). Within each element, the tables are ordered by increasing ionization stage (e.g., Al I, Al II, etc.).

The transition probabilities for hydrogen and hydrogen-like ions are known precisely. Because of the hydrogen degeneracy, a "transition" is actually the sum of all fine-structure transitions between the principal quantum numbers; therefore, the hydrogen table gives weighted average A -values. For hydrogen-like ions of nuclear charge Z , the following scaling laws hold:

$$A_Z = Z^4 A_{\text{Hydrogen}}$$

$$f_Z = f_{\text{Hydrogen}}$$

$$S_Z = Z^{-2} S_{\text{Hydrogen}}$$

$$\lambda_Z = Z^{-2} \lambda_{\text{Hydrogen}}$$

For very highly charged hydrogen-like ions, starting at about $Z > 25$, relativistic corrections¹⁵ must be applied.

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λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
<i>Hydrogen</i>											
<i>HI</i>											
912.768	2	1800	5.167E-06	3721.94	8	392	1.303E-04	75004	72	128	1.561E-03
912.839	2	1682	6.122E-06	3734.37	8	338	1.893E-04	123680	72	98	4.561E-03
912.918	2	1568	7.297E-06	3750.15	8	288	2.834E-04	<i>Aluminum</i>			
913.006	2	1458	8.753E-06	3770.63	8	242	4.397E-04	<i>AlI</i>			
913.104	2	1352	1.057E-05	3797.90	8	200	7.122E-04	2263.5	2	4	6.6E-01
913.215	2	1250	1.286E-05	3835.38	8	162	1.216E-03	2269.1	4	6	7.9E-01
913.339	2	1152	1.578E-05	3889.05	8	128	2.215E-03	2269.2	4	4	1.3E-01
913.480	2	1058	1.952E-05	3970.07	8	98	4.389E-03	2367.1	2	4	7.2E-01
913.641	2	968	2.438E-05	4101.73	8	72	9.732E-03	2373.1	4	6	8.6E-01
913.826	2	882	3.077E-05	4340.46	8	50	2.530E-02	2373.4	4	4	1.4E-01
914.039	2	800	3.928E-05	4861.32	8	32	8.419E-02	2568.0	2	4	2.3E-01
914.286	2	722	5.077E-05	6562.80	8	18	4.410E-01	2575.1	4	6	2.8E-01
914.576	2	648	6.654E-05	8392.40	18	800	1.517E-05	2575.4	4	4	4.4E-02
914.919	2	578	8.858E-05	8413.32	18	722	1.964E-05	2652.5	2	2	1.33E-01
915.329	2	512	1.200E-04	8437.96	18	648	2.580E-05	2660.4	4	2	2.64E-01
915.824	2	450	1.657E-04	8467.26	18	578	3.444E-05	3082.2	2	4	6.3E-01
916.429	2	392	2.341E-04	8502.49	18	512	4.680E-05	3092.7	4	6	7.4E-01
917.181	2	338	3.393E-04	8545.39	18	450	6.490E-05	3092.8	4	4	1.2E-01
918.129	2	288	5.066E-04	8598.40	18	392	9.211E-05	3944.0	2	2	4.93E-01
919.351	2	242	7.834E-04	8665.02	18	338	1.343E-04	3961.5	4	2	9.8E-01
920.963	2	200	1.263E-03	8750.48	18	288	2.021E-04	6696.0	2	4	1.69E-02
923.150	2	162	2.143E-03	8862.79	18	242	3.156E-04	6698.7	2	2	1.69E-02
926.226	2	128	3.869E-03	9014.91	18	200	5.156E-04	7835.3	4	6	5.7E-02
930.748	2	98	7.568E-03	9229.02	18	162	8.905E-04	7836.1	6	8	6.2E-02
937.803	2	72	1.644E-02	9545.97	18	128	1.651E-03	<i>AlII</i>			
949.743	2	50	4.125E-02	10049.4	18	98	3.358E-03	1047.9	1	3	3.6E-01
972.537	2	32	1.278E-01	10938.1	18	72	7.783E-03	1048.6	3	5	4.8E-01
1025.72	2	18	5.575E-01	12818.1	18	50	2.201E-02	1539.8	3	5	8.8E+00
1215.67	2	8	4.699E+00	16407.2	32	288	1.620E-04	1670.8	1	3	1.46E+01
3662.26	8	1800	2.847E-06	16806.5	32	242	2.556E-04	1719.4	1	3	6.79E+00
3663.40	8	1682	3.374E-06	17362.1	32	200	4.235E-04	1764.0	5	5	9.8E+00
3664.68	8	1568	4.022E-06	18174.1	32	162	7.459E-04	1772.8	1	3	9.5E+00
3666.10	8	1458	4.826E-06	18751.0	18	32	8.986E-02	1777.0	5	7	1.7E+01
3667.68	8	1352	5.830E-06	19445.6	32	128	1.424E-03	*1819.0	15	15	5.6E+00
3669.46	8	1250	7.096E-06	21655.3	32	98	3.041E-03	1855.9	1	3	8.32E-01
3671.48	8	1152	8.707E-06	26251.5	32	72	7.711E-03	1858.0	3	3	2.48E+00
3673.76	8	1058	1.078E-05	27575	50	288	1.402E-04	1862.3	5	3	4.12E+00
3676.36	8	968	1.347E-05	28722	50	242	2.246E-04	1931.0	3	1	1.08E+01
3679.35	8	882	1.700E-05	30384	50	200	3.800E-04	1990.5	3	5	1.47E+01
3682.81	8	800	2.172E-05	32961	50	162	6.908E-04	2816.2	3	1	3.83E+00
3686.83	8	722	2.809E-05	37395	50	128	1.388E-03	4663.1	5	3	5.3E-01
3691.55	8	648	3.685E-05	40511.5	32	50	2.699E-02	6226.2	1	3	6.2E-01
3697.15	8	578	4.910E-05	43753	72	288	1.288E-04	6231.8	3	5	8.4E-01
3703.85	8	512	6.658E-05	46525	50	98	3.253E-03	6243.4	5	7	1.1E+00
3711.97	8	450	9.210E-05	46712	72	242	2.110E-04	6335.7	5	3	1.4E-01
				51273	72	200	3.688E-04	6823.4	3	3	3.4E-01
				59066	72	162	7.065E-04	6837.1	5	3	5.7E-01
				74578	50	72	1.025E-02				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
6920.3	3	1	9.6E-01	*308.6	2	6	9.9E+01	4587.21	3	1	4.9E-03
7042.1	3	5	5.9E-01	*341.3	6	2	1.3E+02	4589.29	3	5	6.2E-05
7056.7	3	3	5.8E-01	550.05	2	4	8.55E+00	4596.10	3	3	9.47E-04
7471.4	5	7	9.4E-01	568.12	2	2	7.73E+00	4628.44	3	5	3.83E-04
<i>Al III</i>				1997	2	4	1.07E+00	4642.15	3	5	9.6E-04
*560.36	2	6	4.0E-01	2069	2	2	9.7E-01	4647.49	3	3	1.2E-03
695.83	2	4	7.4E-01	*4761	2	6	2.55E-01	4702.32	3	3	1.09E-03
696.22	2	2	7.2E-01	5172	2	4	3.95E-02	4746.82	3	1	3.6E-03
*1352.8	10	14	4.40E+00	5551	4	6	3.85E-02	4752.94	3	3	4.5E-03
1379.7	2	2	4.59E+00	5687	4	4	6.0E-03	4768.68	3	5	8.6E-03
1384.1	4	2	9.1E+00	<i>Argon</i>				4798.74	7	9	8.8E-04
1605.8	2	4	1.22E+01	<i>Ar I</i>				4835.97	7	9	9.3E-04
1611.8	4	4	2.42E+00	1048.22	1	3	5.36E+00	4836.70	3	5	1.02E-03
1611.9	4	6	1.45E+01	1066.66	1	3	1.29E+00	4876.26	3	5	7.8E-03
1854.7	2	4	5.40E+00	3406.18	3	1	3.9E-03	4886.29	7	9	1.2E-03
1862.8	2	2	5.33E+00	3461.08	3	5	6.7E-04	4887.95	3	3	1.3E-02
*1935.9	10	14	1.22E+01	3554.30	5	5	2.7E-03	4894.69	3	1	1.8E-02
3601.6	6	4	1.34E+00	3563.29	1	3	1.2E-03	4921.04	5	7	5.9E-04
3601.9	4	4	1.49E-01	3567.66	5	7	1.1E-03	4937.72	7	5	3.6E-04
3612.4	4	2	1.5E+00	3572.30	3	1	5.1E-03	4956.75	7	9	1.8E-03
<i>Al X</i>				3606.52	3	1	7.6E-03	4989.95	5	7	1.1E-03
39.925	1	3	2.22E+03	3632.68	3	5	6.6E-04	5032.03	7	5	8.2E-04
51.979	1	3	4.8E+03	3634.46	3	3	1.3E-03	5048.81	3	5	4.6E-03
55.227	1	3	5.2E+03	3643.12	3	5	2.4E-04	5054.18	3	3	4.5E-03
55.272	3	5	7.2E+03	3649.83	3	1	8.0E-03	5056.53	3	1	5.7E-03
55.376	5	7	9.5E+03	3659.53	3	3	4.4E-04	5060.08	7	9	3.7E-03
59.107	3	5	4.6E+03	3670.67	3	5	3.1E-04	5070.99	5	3	2.6E-03
332.78	1	3	5.6E+01	3675.23	3	3	4.9E-04	5073.08	3	5	5.9E-04
394.83	3	1	8.3E+01	3770.37	1	3	7.0E-04	5078.03	7	7	4.7E-04
395.36	3	5	1.2E+01	3834.68	3	1	7.5E-03	5087.09	5	7	1.6E-03
397.76	1	3	1.7E+01	3894.66	3	3	5.7E-04	5104.74	3	5	8.7E-04
400.43	3	3	1.3E+01	3947.50	5	5	5.6E-04	5118.21	5	7	2.7E-03
401.12	5	5	3.6E+01	3948.98	5	3	4.55E-03	5127.80	5	5	3.3E-04
403.55	3	1	4.9E+01	4044.42	3	5	3.33E-03	5151.39	3	1	2.39E-02
406.31	5	3	1.9E+01	4045.96	3	3	4.1E-04	5152.30	3	5	1.1E-03
670.06	3	5	9.8E+00	4054.53	3	3	2.7E-04	5162.29	3	3	1.90E-02
2535	1	3	3.8E-01	4158.59	5	5	1.40E-02	5177.54	7	5	2.4E-03
<i>Al XI</i>				4164.18	5	3	2.88E-03	5192.72	7	7	1.2E-04
*36.675	2	6	1.5E+03	4181.88	1	3	5.61E-03	5194.02	3	1	7.8E-03
39.091	2	4	2.6E+03	4190.71	5	5	2.80E-03	5210.49	7	7	1.1E-03
39.180	4	6	3.1E+03	4191.03	1	3	5.39E-03	5214.77	5	3	2.1E-03
39.530	2	2	1.8E+02	4198.32	3	1	2.57E-02	5216.28	5	3	1.3E-03
39.623	4	2	3.7E+02	4200.67	5	7	9.67E-03	5221.27	7	9	8.8E-03
48.298	2	4	3.09E+03	4251.18	5	3	1.11E-03	5241.09	5	5	1.3E-03
48.338	2	2	3.08E+03	4259.36	3	1	3.98E-02	5246.24	5	7	1.2E-03
52.299	2	4	8.1E+03	4266.29	3	5	3.12E-03	5249.20	5	5	7.9E-04
52.446	4	6	9.6E+03	4272.17	3	3	7.97E-03	5252.79	5	7	5.4E-03
52.458	4	4	1.6E+03	4300.10	3	5	3.77E-03	5254.47	3	5	3.6E-03
54.217	2	2	4.8E+02	4333.56	3	5	5.68E-03	5286.07	5	7	9.6E-04
54.388	4	2	9.6E+02	4335.34	3	3	3.87E-03	5290.00	5	3	9.0E-04
*99.083	2	6	2.2E+02	4345.17	3	3	2.97E-03	5309.52	5	5	1.2E-03
103.6	2	4	4.2E+02	4363.79	3	3	1.2E-04	5317.73	5	7	2.6E-03
103.8	4	6	5.0E+02	4424.00	1	3	7.3E-05	5373.50	3	5	2.7E-03
*141.6	2	6	4.07E+02	4510.73	3	1	1.18E-02	5393.27	5	5	9.6E-04
150.31	2	4	8.5E+02	4522.32	1	3	8.98E-04	5410.48	5	7	2.0E-03
150.61	4	6	9.9E+02	4544.75	3	3	8.3E-04	5421.35	7	5	6.0E-03
157.0	2	2	1.3E+02	4554.32	3	5	3.8E-04	5439.99	3	3	1.9E-03
157.4	4	2	2.6E+02	4584.96	3	5	1.6E-03	5442.24	7	7	9.3E-04
*205.0	2	6	6.3E+01	4586.61	3	3	2.3E-03	5451.65	3	5	4.7E-03
								5457.42	5	3	3.6E-03

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
5459.65	7	7	3.8E-04	6013.68	7	5	1.4E-03	6779.93	1	3	1.21E-03
5467.16	5	5	7.6E-04	6025.15	5	3	9.0E-03	6818.29	3	1	2.0E-03
5473.46	5	3	2.0E-03	6043.22	5	7	1.47E-02	6827.25	5	3	2.4E-03
5490.12	5	5	8.5E-04	6052.73	3	5	1.9E-03	6851.88	3	5	6.7E-04
5492.09	3	1	5.6E-03	6064.76	5	7	5.8E-04	6871.29	3	3	2.78E-02
5495.87	7	9	1.69E-02	6081.25	3	3	7.5E-04	6879.59	3	5	1.8E-03
5506.11	5	7	3.6E-03	6085.86	3	3	9.0E-05	6887.10	5	7	1.3E-03
5524.96	7	7	1.7E-03	6090.79	1	3	3.0E-03	6888.17	3	5	2.5E-03
5528.97	1	3	1.2E-03	6098.81	3	3	5.2E-03	6925.01	3	3	1.2E-03
5534.49	5	3	2.7E-03	6101.16	3	3	3.3E-03	6937.67	3	1	3.08E-02
5540.87	7	5	4.1E-04	6104.58	3	1	3.4E-03	6951.46	5	5	2.2E-03
5552.77	3	3	7.9E-04	6105.64	3	5	1.21E-02	6960.23	5	5	2.4E-03
5558.70	3	5	1.42E-02	6113.46	3	5	4.7E-04	6965.43	5	3	6.39E-02
5559.66	3	5	2.2E-03	6119.66	3	3	5.1E-04	6992.17	3	1	7.5E-03
5572.54	5	7	6.6E-03	6121.86	3	5	1.3E-04	7030.25	7	5	2.67E-02
5574.22	3	5	4.6E-04	6127.42	5	3	1.1E-03	7067.22	5	5	3.80E-02
5581.87	7	5	5.6E-04	6128.73	3	5	8.6E-04	7068.73	5	3	2.0E-02
5588.72	5	5	1.5E-03	6145.44	5	7	7.6E-03	7086.70	1	3	1.5E-03
5597.48	5	7	4.2E-03	6155.24	5	3	5.1E-03	7107.48	5	5	4.5E-03
5606.73	3	3	2.20E-02	6165.12	5	5	9.89E-04	7125.83	3	3	6.0E-03
5618.01	3	3	2.1E-03	6170.17	5	5	5.0E-03	7147.04	5	3	6.25E-03
5620.92	3	1	3.6E-03	6173.10	3	5	6.7E-03	7158.83	3	1	2.1E-02
5623.78	5	5	1.4E-03	6179.41	5	3	6.6E-04	7162.57	1	3	5.8E-04
5635.58	3	5	9.6E-04	6212.50	5	7	3.9E-03	7206.98	5	3	2.48E-02
5637.33	1	3	9.1E-04	6215.94	5	5	5.7E-03	7229.93	5	5	6.6E-04
5639.12	1	3	2.1E-03	6230.93	5	5	1.2E-04	7265.17	3	3	1.7E-03
5641.39	3	5	8.7E-04	6243.40	3	1	1.3E-03	7270.66	7	7	1.1E-03
5648.69	5	3	1.2E-03	6244.73	3	5	2.0E-04	7272.93	3	3	1.83E-02
5650.70	3	1	3.20E-02	6248.41	3	5	6.8E-04	7285.44	5	3	1.2E-03
5659.13	5	5	2.6E-03	6278.65	5	7	2.0E-04	7311.72	3	3	1.7E-02
5681.90	5	7	2.0E-03	6296.87	3	5	9.0E-03	7316.01	3	3	9.6E-03
5683.73	5	5	2.0E-03	6307.66	5	5	6.0E-03	7350.78	3	1	1.2E-02
5700.87	5	7	5.9E-03	6309.14	3	3	7.6E-04	7353.32	5	7	9.6E-03
5712.51	1	3	8.7E-04	6364.89	3	1	5.6E-03	7372.12	7	9	1.9E-02
5739.52	3	5	8.7E-03	6369.58	5	3	4.2E-03	7383.98	3	5	8.47E-02
5772.11	5	7	2.0E-03	6384.72	3	3	4.21E-03	7392.97	5	3	7.2E-03
5773.99	5	5	1.1E-03	6416.31	3	5	1.16E-02	7412.33	3	5	3.9E-03
5783.54	3	5	8.1E-04	6431.56	5	3	5.1E-04	7422.26	3	5	6.6E-04
5789.48	5	5	4.6E-04	6466.55	1	3	1.5E-03	7425.29	5	7	3.1E-03
5790.40	5	3	3.4E-04	6481.14	1	3	9.4E-04	7435.33	5	5	9.0E-03
5802.08	5	3	4.2E-03	6513.85	3	3	5.4E-04	7436.25	7	5	2.7E-03
5843.77	3	5	3.3E-04	6538.11	7	7	1.1E-03	7471.17	3	3	2.2E-04
5882.62	3	1	1.23E-02	6596.12	7	5	2.3E-04	7484.24	3	5	3.4E-03
5888.58	7	5	1.29E-02	6598.68	5	5	3.6E-04	7503.84	3	1	4.45E-01
5916.58	5	3	5.9E-04	6604.02	7	5	2.8E-03	7510.42	5	5	4.5E-03
5927.11	7	7	3.7E-04	6604.85	5	7	1.3E-04	7514.65	3	1	4.02E-01
5928.81	5	3	1.1E-02	6632.09	3	3	5.3E-04	7618.33	3	5	2.9E-03
5940.86	1	3	1.2E-03	6656.88	3	3	3.1E-04	7628.86	3	5	2.9E-03
5942.67	5	5	1.8E-03	6660.68	3	1	7.8E-03	7635.11	5	5	2.45E-01
5943.89	7	5	3.6E-04	6664.05	5	5	1.5E-03	7670.04	5	3	2.8E-03
5949.26	3	3	1.5E-03	6677.28	3	1	2.36E-03	7704.81	5	7	6.3E-04
5964.48	1	3	7.7E-04	6684.73	3	5	3.9E-04	7723.76	5	3	5.18E-02
5968.32	3	3	1.8E-03	6698.47	3	3	2.5E-04	7724.21	1	3	1.17E-01
5971.60	3	1	1.1E-02	6698.88	5	3	1.6E-03	7798.55	3	5	8.7E-04
5981.90	5	7	1.2E-04	6719.22	1	3	2.4E-03	7868.20	1	3	3.50E-03
5987.30	7	7	1.2E-03	6722.88	5	7	3.2E-04	7891.08	5	5	9.5E-03
5988.13	3	5	6.1E-04	6752.84	3	5	1.93E-02	7916.45	3	3	1.2E-03
5994.66	3	5	2.6E-04	6754.37	3	3	2.1E-03	7948.18	1	3	1.86E-01
5999.00	5	5	1.4E-03	6756.10	5	5	3.6E-03	8006.16	3	5	4.90E-02
6005.73	5	3	1.4E-03	6766.61	5	3	4.0E-03	8014.79	5	5	9.28E-02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
8037.23	1	3	3.59E-03	14093.6	1	3	4.3E-02	3582.4	4	6	2.53E+00
8046.13	3	1	1.12E-02	14739.1	5	7	8.8E-04	3588.4	8	10	3.03E+00
8053.31	5	3	8.6E-03	15046.4	1	3	5.2E-02	3605.9	4	6	4.4E-02
8066.60	5	5	1.4E-03	15172.3	1	3	1.3E-02	3656.0	6	6	7.6E-02
8103.69	3	3	2.5E-01	15329.6	5	5	1.2E-03	3682.5	4	2	1.7E-02
8115.31	5	7	3.31E-01	15555.5	5	7	9.8E-05	3709.9	4	4	4.7E-02
8264.52	3	3	1.53E-01	15734.9	5	3	2.9E-04	3717.2	6	8	5.2E-02
8384.73	5	7	2.4E-03	15816.8	5	3	8.7E-04	3729.3	6	4	4.80E-01
8408.21	3	5	2.23E-01	15989.3	1	3	1.9E-02	3746.9	4	6	2.1E-02
8424.65	3	5	2.15E-01	16122.7	5	3	3.9E-04	3763.5	8	6	1.78E-01
8490.30	3	5	9.6E-04	16180.0	5	5	1.2E-03	3766.1	4	4	7.4E-02
8521.44	3	3	1.39E-01	16264.1	3	3	3.0E-04	3777.5	2	2	1.1E-02
8605.78	5	5	1.04E-02	16520.1	3	5	2.6E-03	3780.8	8	8	7.7E-01
8620.46	1	3	9.2E-03	16739.8	3	5	3.1E-03	3786.4	8	6	1.5E-02
8667.94	1	3	2.43E-02	16940.4	5	5	2.5E-02	3799.4	6	4	1.7E-01
8761.69	3	5	9.5E-03	20317.0	1	3	1.6E-03	3808.6	6	6	1.0E-02
8784.61	3	1	2.4E-03	20616.5	5	5	3.9E-03	3826.8	6	6	2.81E-01
8799.08	5	3	4.6E-03	20812.0	5	7	7.6E-04	3841.5	4	2	2.69E-01
8962.19	3	3	1.6E-03	21332.2	3	3	3.2E-04	3844.7	6	8	4.8E-02
9075.42	3	1	1.2E-02	21534.9	3	5	1.1E-03	3845.4	6	4	1.6E-02
9122.97	5	3	1.89E-01	22039.2	3	1	1.2E-03	3850.6	4	4	3.87E-01
9194.64	3	3	1.76E-02	22077.4	5	3	1.4E-03	3868.5	4	6	1.4E+00
9224.50	3	5	5.03E-02	23133.4	3	3	1.7E-03	3872.1	4	4	1.5E-01
9291.53	3	1	3.26E-02	23844.8	9	7	1.1E-02	3875.3	4	2	8.2E-02
9354.22	3	3	1.06E-02	23967.5	3	1	3.6E-03	3880.3	2	2	2.32E-01
9657.78	3	3	5.43E-02	<i>Ar II</i>				3891.4	2	2	4.3E-02
9784.50	3	5	1.47E-02	2317.7	6	4	1.4E-01	3892.0	6	4	6.3E-02
10470.05	1	3	9.8E-03	2891.6	4	2	1.82E-01	3900.6	4	6	7.2E-02
10478.0	3	3	2.44E-02	2942.9	4	4	5.3E-01	3911.6	2	4	7.7E-02
10950.7	5	3	3.96E-03	2979.1	2	2	4.16E-01	3914.8	4	4	3.7E-02
11078.9	5	5	8.3E-03	3033.5	2	4	9.9E-02	3928.6	2	4	2.44E-01
11393.7	3	1	2.22E-02	3139.0	6	6	5.2E-01	3931.2	2	4	2.0E-02
11441.8	5	3	1.39E-02	3169.7	4	6	4.9E-01	3932.5	4	4	9.3E-01
11467.5	3	5	3.69E-03	3181.0	6	4	3.7E-01	3944.3	8	6	4.1E-02
11488.11	3	3	1.9E-03	3212.5	4	4	5.2E-02	3952.7	4	4	2.08E-01
11668.7	5	5	3.76E-02	3221.6	6	6	1.8E-02	3958.4	6	4	3.8E-02
11719.5	5	3	9.52E-03	3226.0	4	4	2.1E-02	3968.4	6	6	4.8E-02
12026.6	1	3	4.2E-03	3243.7	4	2	1.06E+00	3979.4	4	2	9.8E-01
12112.2	7	7	3.1E-02	3249.8	2	4	6.3E-01	3988.2	6	6	4.1E-02
12139.8	3	3	4.5E-02	3263.6	2	4	1.55E-01	3992.1	4	6	1.6E-02
12343.7	5	7	2.0E-02	3281.7	2	2	4.2E-01	4013.9	8	8	1.05E-01
12402.9	3	3	1.1E-01	3430.4	6	8	6.2E-02	4031.4	4	2	7.5E-02
12439.2	3	5	4.9E-02	3454.1	6	4	3.14E-01	4035.5	4	6	4.4E-02
12456.1	5	3	8.9E-02	3466.3	8	6	3.0E-02	4038.8	6	8	1.2E-02
12487.6	7	5	1.1E-01	3476.7	6	6	1.25E+00	4042.9	4	4	4.06E-01
12554.4	7	5	1.2E-03	3491.2	4	4	1.79E+00	4045.7	4	4	1.6E-02
12702.4	3	3	7.1E-02	3491.5	6	8	2.31E+00	4052.9	2	4	6.7E-01
12733.6	5	5	1.1E-02	3509.8	2	2	2.55E+00	4065.1	4	4	1.1E-02
12746.3	3	3	2.0E-02	3514.4	4	6	1.36E+00	4072.0	6	6	5.8E-01
12802.7	5	5	5.7E-02	3520.0	6	6	5.2E-01	4079.6	6	4	1.19E-01
12933.3	3	1	1.0E-01	3521.3	8	8	2.27E-01	4082.4	6	6	2.9E-02
12956.6	3	3	7.4E-02	3535.3	2	4	5.7E-01	4112.8	4	4	1.1E-02
13008.5	5	3	8.9E-02	3548.5	4	4	8.7E-01	4128.6	8	6	1.4E-02
13214.7	3	1	8.1E-02	3550.0	6	6	2.6E-02	4131.7	4	2	8.5E-01
13273.1	5	7	1.5E-01	3556.9	2	2	5.0E-02	4178.4	6	4	1.2E-02
13313.4	3	5	1.3E-01	3559.5	6	8	2.88E+00	4202.0	2	4	2.1E-02
13504.0	5	7	1.1E-01	3565.0	2	4	5.5E-01	4228.2	4	6	1.31E-01
13599.2	5	5	2.2E-02	3576.6	6	8	2.75E+00	4237.2	4	4	1.12E-01
13622.4	3	5	7.3E-02	3581.6	2	4	1.76E+00	4266.5	6	6	1.64E-01
13678.5	3	5	6.2E-02					4277.5	6	4	8.0E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2381.63	1	3	3.22E-04	4189.44	3	5	1.13E-03	9704.31	3	1	1.60E-01
2381.79	1	3	3.44E-04	4190.76	3	5	1.28E-03	9821.48	3	1	5.50E-02
2381.97	1	3	3.39E-04	4192.20	3	5	1.36E-03	10370.30	3	5	1.30E-02
2382.15	1	3	3.63E-04	4193.81	3	5	1.58E-03	10540.10	5	3	1.80E-02
2382.36	1	3	3.64E-04	4195.59	3	5	1.78E-03	10649.10	5	5	2.70E-02
2382.57	1	3	3.14E-04	4323.00	3	5	8.80E-02	11075.70	3	3	3.10E-05
2382.80	1	3	3.69E-04	4402.54	3	5	2.70E-01	11303.00	5	3	1.10E-03
2383.06	1	3	3.57E-04	4488.98	5	7	2.80E-01	11373.70	3	1	1.30E-01
2383.34	1	3	3.37E-04	4493.64	5	5	1.95E-01	12342.30	3	3	9.00E-04
2383.63	1	3	3.70E-04	4573.85	3	1	1.21E+00	14723.10	3	5	8.60E-03
2383.96	1	3	3.20E-04	4579.64	5	5	7.00E-01	14999.90	5	3	2.50E-03
2384.32	1	3	2.97E-04	4599.72	3	1	4.07E-01	17186.90	3	1	2.70E-02
2384.71	1	3	3.00E-04	4619.92	1	3	2.70E-02	18202.80	5	3	1.20E-02
2385.15	1	3	2.50E-04	4700.42	3	3	6.10E-02	21567.70	5	3	2.60E-03
2385.62	1	3	2.30E-04	4726.43	5	3	3.30E-01	30685.30	5	3	6.50E-03
2386.15	1	3	2.03E-04	4801.30	9	3	1.39E-01				
2386.74	1	3	1.87E-04	4902.85	5	3	5.40E-02	<i>Ba II</i>			
2387.40	1	3	1.37E-04	5169.53	5	3	9.00E-04	1622.43	2	4	2.46E-02
2388.13	1	3	9.66E-05	5519.04	3	5	5.70E-01	1630.36	2	2	2.42E-02
2388.96	1	3	8.37E-05	5535.48	1	3	1.19E+00	1761.74	4	4	1.00E-02
2399.39	1	3	1.10E-04	5777.62	5	7	8.00E-01	1771.10	4	2	1.00E-01
2402.07	1	3	4.60E-04	5784.04	3	5	2.10E-01	1786.95	6	4	9.00E-02
2405.30	1	3	4.90E-04	5800.23	5	5	2.39E-01	1892.49	2	4	1.30E-01
2409.23	1	3	8.60E-04	5826.27	5	3	4.50E-01	1954.28	4	6	1.40E-01
2414.08	1	3	1.50E-03	5971.70	5	5	1.62E-01	1955.05	4	4	2.40E-02
2420.11	1	3	2.30E-03	5997.09	3	3	2.80E-01	1985.75	2	4	2.00E-01
2427.41	1	3	5.60E-03	6019.47	3	1	8.10E-01	1999.55	2	4	7.12E-02
2438.81	1	3	1.40E-03	6063.11	5	3	5.60E-01	2009.28	2	2	6.51E-02
2452.33	1	3	8.10E-04	6083.39	3	1	1.10E-01	2024.06	2	2	6.86E-02
2472.74	1	3	4.60E-03	6129.23	3	1	6.00E-02	2052.75	4	6	2.20E-01
3071.58	1	3	4.20E-01	6309.36	3	3	2.00E-04	2054.09	4	4	3.70E-02
3501.11	1	3	3.50E-01	6341.68	5	7	1.16E-01	2079.98	4	2	1.17E-01
3889.33	1	3	1.10E-02	6450.85	3	5	1.10E-01	2153.93	2	4	3.43E-01
4132.43	1	3	1.50E-02	6498.76	7	7	5.40E-01	2200.89	2	2	1.13E-01
4175.69	3	5	1.97E-04	6527.31	5	5	3.30E-01	2214.76	4	4	1.60E-02
4175.91	3	5	1.98E-04	6527.40	15	15	6.15E-01	2232.79	4	6	3.69E-01
4176.12	3	5	2.08E-04	6595.33	3	3	3.80E-01	2235.38	4	4	6.13E-02
4176.36	3	5	2.19E-04	6675.27	5	3	1.89E-01	2245.69	4	2	1.60E-01
4176.60	3	5	2.26E-04	6693.84	7	5	1.46E-01	2254.78	6	4	1.40E-01
4176.86	3	5	2.48E-04	6986.80	5	3	5.20E-03	2285.99	4	2	2.03E-01
4177.15	3	5	2.77E-04	7059.94	7	9	5.00E-01	2528.41	2	4	6.91E-01
4177.44	3	5	3.03E-04	7120.33	3	5	1.10E-01	2634.78	4	6	7.33E-01
4177.74	3	5	3.14E-04	7195.23	1	3	5.60E-02	2641.37	4	4	1.21E-01
4178.07	3	5	3.07E-04	7213.60	5	5	6.50E-04	2647.26	2	2	2.26E-01
4178.43	3	5	3.64E-04	7280.30	5	7	3.20E-01	2771.35	4	2	3.95E-01
4178.80	3	5	4.01E-04	7392.41	3	3	1.81E-01	3390.18	4	6	4.54E-03
4179.20	3	5	4.31E-04	7417.54	7	5	7.70E-03	3412.44	6	8	4.77E-03
4179.64	3	5	4.46E-04	7488.08	7	7	7.30E-02	3413.95	6	6	3.18E-04
4180.09	3	5	4.53E-04	7528.18	5	5	2.70E-02	3552.45	4	6	3.87E-03
4180.57	3	5	4.55E-04	7610.48	5	5	1.10E-02	3576.28	6	8	4.07E-03
4181.09	3	5	4.99E-04	7644.90	9	3	5.03E-01	3578.57	6	6	2.71E-04
4181.66	3	5	5.42E-04	7672.09	3	5	1.52E-01	3891.78	2	4	2.17E+00
4182.27	3	5	6.11E-04	7780.48	5	5	7.60E-02	4130.65	4	6	2.18E+00
4182.94	3	5	6.65E-04	7877.80	3	5	1.60E-02	4166.00	4	4	3.54E-01
4183.64	3	5	6.70E-04	7905.75	5	3	2.65E-01	4216.07	2	4	5.09E-02
4184.40	3	5	7.93E-04	8147.70	5	5	6.30E-02	4267.92	6	8	3.10E-01
4185.25	3	5	8.43E-04	8560.00	5	5	2.00E-01	4309.26	8	10	3.10E-01
4186.16	3	5	9.24E-04	8654.08	5	7	3.10E-03	4325.75	4	6	5.65E-02
4187.15	3	5	9.90E-04	9370.12	5	5	7.60E-02	4329.56	4	4	9.39E-03
4188.25	3	5	1.03E-03	9645.60	7	5	1.10E-01	4524.93	2	2	6.63E-01

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
8446.6	4	4	1.2E-01	4289.4	1	3	6.0E-01	2103.2	2	4	8.2E-01
8638.7	6	4	9.7E-02	4299.0	3	3	4.66E-01	2112.8	4	6	9.7E-01
Br II				4302.5	5	5	1.36E+00	2113.2	4	4	1.6E-01
4704.9	5	7	1.1E+00	4307.7	3	1	1.99E+00	2197.8	2	2	3.1E-01
4785.5	5	5	9.4E-01	4318.7	5	3	7.4E-01	2208.6	4	2	6.2E-01
4816.7	5	3	1.1E+00	4355.1	5	7	1.9E-01	3158.9	2	4	3.1E+00
Cadmium				4425.4	1	3	4.98E-01	3179.3	4	6	3.6E+00
Cd I				4435.0	3	5	6.7E-01	3181.3	4	4	5.8E-01
2288.0	1	3	5.3E+00	4435.7	3	3	3.42E-01	3706.0	2	2	8.8E-01
2836.9	1	3	2.8E-01	4454.8	5	7	8.7E-01	3736.9	4	2	1.7E+00
2880.8	3	5	4.2E-01	4455.9	5	5	2.0E-01	3933.7	2	4	1.47E+00
2881.2	3	3	2.4E-01	4526.9	5	3	4.1E-01	3968.5	2	2	1.4E+00
2980.6	5	7	5.9E-01	4578.6	3	5	1.76E-01	Ca III			
2981.4	5	5	1.5E-01	4581.4	5	7	2.09E-01	357.97	1	3	8.8E+02
3261.1	1	3	4.06E-03	4585.9	7	9	2.29E-01	439.69	1	3	1.9E-01
3403.7	1	3	7.7E-01	4685.3	3	5	8.0E-02	490.55	1	3	1.6E-02
3466.2	3	5	1.2E+00	4878.1	5	7	1.88E-01	Ca V			
3467.7	3	3	6.7E-01	5041.6	5	3	3.3E-01	558.60	5	3	2.2E+01
3610.5	5	7	1.3E+00	5188.9	3	5	4.0E-01	637.93	5	3	3.9E+00
3612.9	5	5	3.5E-01	5261.7	3	3	1.5E-01	643.12	3	1	9.1E+00
4140.5	3	5	4.7E-02	5262.2	3	1	6.0E-01	646.57	5	5	6.9E+00
4662.4	3	5	5.5E-02	5264.2	5	5	9.1E-02	647.88	3	3	2.3E+00
4678.1	1	3	1.3E-01	5265.6	5	3	4.4E-01	651.55	1	3	2.9E+00
4799.9	3	3	4.1E-01	5270.3	7	5	5.0E-01	656.76	3	5	2.1E+00
5085.8	5	3	5.6E-01	5582.0	5	7	6.0E-02	Ca VII			
6438.5	3	5	5.9E-01	5588.8	7	7	4.9E-01	550.20	5	5	1.8E+01
Cd II				5590.1	3	5	8.3E-02	624.39	1	3	3.3E+00
2144.4	2	4	2.8E+00	5594.5	5	5	3.8E-01	630.54	3	5	4.5E+00
2265.0	2	2	3.0E+00	5598.5	3	3	4.3E-01	630.79	3	3	2.2E+00
2572.9	2	2	1.7E+00	5601.3	7	5	8.6E-02	639.15	5	7	5.7E+00
2748.5	4	2	2.8E+00	5602.9	5	3	1.4E-01	640.41	5	5	1.3E+00
4415.6	4	6	1.4E-02	5857.5	3	5	6.6E-01	Ca VIII			
Calcium				6102.7	1	3	9.6E-02	182.71	2	2	1.6E+02
Ca I				6122.2	3	3	2.87E-01	184.16	4	2	3.2E+02
2275.5	1	3	3.01E-01	6161.3	5	5	3.3E-02	Ca IX			
2995.0	1	3	3.67E-01	6162.2	5	3	3.54E-01	163.23	5	3	3.76E+02
2997.3	3	5	2.41E-01	6162.2	5	3	3.54E-01	371.89	1	3	8.8E+01
2999.6	3	3	2.79E-01	6163.8	3	3	5.6E-02	373.81	3	5	1.16E+02
3000.9	3	1	1.58E+00	6166.4	3	1	2.2E-01	378.08	5	7	1.5E+02
3006.9	5	5	7.5E-01	6169.1	5	3	1.7E-01	395.03	3	5	2.2E+02
3009.2	5	3	4.30E-01	6169.6	7	5	1.9E-01	466.24	1	3	1.12E+02
3344.5	1	3	1.51E-01	6439.1	7	9	5.3E-01	498.01	3	5	2.49E+01
3350.2	3	5	1.78E-01	6449.8	3	5	9.0E-02	506.18	5	5	7.2E+01
3361.9	5	7	2.23E-01	6462.6	5	7	4.7E-01	515.57	5	3	3.75E+01
3624.1	1	3	2.12E-01	6471.7	7	7	5.9E-02	Ca X			
3630.8	3	5	2.97E-01	6493.8	3	5	4.4E-01	110.96	2	4	2.9E+02
3631.0	3	3	1.53E-01	6499.7	5	5	8.1E-02	111.20	2	2	2.92E+02
3644.4	5	7	3.55E-01	Ca II			151.84	2	2	2.3E+02	
3644.8	5	5	9.4E-02	1341.9	2	4	1.5E-02	153.02	4	2	4.5E+02
3870.5	3	5	7.2E-02	1342.5	2	2	1.5E-02	206.57	4	4	2.9E+01
3957.1	3	3	9.8E-02	1649.9	2	4	3.2E-03	206.75	6	4	2.6E+02
3973.7	5	3	1.75E-01	1652.0	2	2	3.1E-03	207.39	4	2	2.8E+02
4092.6	3	5	1.1E-01	1673.9	2	4	2.24E-01	411.70	2	4	8.3E+01
4094.9	5	7	1.2E-01	1680.1	4	6	2.65E-01	419.75	4	6	9.5E+01
4098.5	7	9	1.3E-01	1680.1	4	4	4.41E-02	420.47	4	4	1.6E+01
4108.5	5	7	9.0E-01	1807.3	2	4	3.54E-01	557.76	2	4	3.50E+01
4226.7	1	3	2.18E+00	1814.5	4	6	4.2E-01	574.01	2	2	3.2E+01
4283.0	3	5	4.34E-01	1814.7	4	4	7.0E-02				
				1843.1	2	2	1.6E-01				
				1850.7	4	2	3.08E-01				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
<i>Ca XI</i>				1431.60	5	7	2.11E+00	6655.52	3	3	5.03E-03
30.448	1	3	6.2E+03	1432.10	5	5	2.01E+00	6828.12	3	5	9.89E-03
30.867	1	3	4.9E+04	1432.53	5	3	2.11E+00	7111.47	3	5	2.17E-02
35.212	1	3	2.0E+03	1459.03	5	3	4.76E-01	7113.18	7	9	2.47E-02
<i>Ca XII</i>				1463.34	5	7	1.88E+00	7115.17	5	7	2.19E-02
140.05	4	2	3.7E+02	1467.40	5	3	5.49E-01	7115.18	3	1	4.43E-02
147.27	2	2	1.6E+02	1468.41	5	3	3.90E-02	7116.99	7	5	3.26E-02
<i>Ca XV</i>				1470.09	5	7	1.37E-02	7119.66	5	3	3.12E-02
141.69	5	3	4.08E+02	1472.23	5	3	8.01E-03	7860.88	5	5	1.53E-02
*142.23	9	3	6.3E+02	1481.76	5	5	3.92E-01	8058.62	5	5	1.09E-02
161.00	5	5	1.9E+02	1560.31	1	3	6.57E-01	8335.15	3	1	3.51E-01
<i>Ca XVII</i>				1561.34	5	5	2.94E-01	9061.44	3	5	7.31E-02
19.558	1	3	3.8E+04	1561.44	5	7	1.18E+00	9062.49	1	3	9.48E-02
21.198	3	5	4.9E+04	1656.27	3	5	8.58E-01	9078.29	3	3	7.07E-02
192.82	1	3	1.21E+02	1656.93	1	3	1.13E+00	9088.51	3	1	3.00E-01
218.82	3	5	2.76E+01	1657.01	5	5	2.52E+00	9094.83	5	5	2.28E-01
223.02	1	3	3.44E+01	1657.38	3	3	8.64E-01	9111.81	5	3	1.35E-01
228.72	3	3	2.37E+01	1657.91	3	1	3.43E+00	9405.73	3	5	2.91E-01
232.83	5	5	6.5E+01	1658.12	5	3	1.44E+00	9603.03	1	3	3.06E-02
244.06	5	3	3.28E+01	1751.83	1	3	9.07E-01	9620.78	3	3	8.62E-02
<i>Ca XVIII</i>				1763.91	1	3	3.59E-02	9658.43	5	3	1.25E-01
*18.71	2	6	2.31E+04	1765.37	1	3	1.04E-02	<i>C II</i>			
*19.74	6	10	7.0E+04	1930.90	5	3	3.51E+00	687.345	4	6	2.84E+01
302.19	2	4	2.0E+01	2478.56	1	3	3.40E-01	858.092	2	2	1.18E+00
344.76	2	2	1.3E+01	2902.23	1	3	4.32E-03	858.559	4	2	2.35E+00
<i>Carbon</i>				2903.27	3	3	1.29E-02	903.623	2	4	6.85E+00
<i>CI</i>				2905.00	5	3	2.15E-02	903.962	2	2	2.74E+01
945.191	1	3	3.79E+00	4371.37	3	3	1.27E-02	904.142	4	4	3.42E+01
945.338	3	3	1.14E+01	4762.31	1	3	3.37E-03	904.480	4	2	1.37E+01
945.579	5	3	1.89E+01	4762.53	3	5	2.72E-03	1009.86	2	4	5.71E+00
1193.24	5	7	1.22E+00	4766.67	3	3	2.36E-03	1010.08	4	4	1.14E+01
1260.74	1	3	5.32E-01	4770.03	3	1	1.07E-02	1010.37	6	4	1.71E+01
1260.93	3	1	1.70E+00	4771.74	5	5	7.97E-03	1036.34	2	2	7.61E+00
1261.00	3	3	4.42E-01	4775.90	5	3	4.84E-03	1037.02	4	2	1.52E+01
1261.12	3	5	3.71E-01	4812.92	1	3	4.03E-04	1323.91	4	4	4.33E+00
1261.43	5	3	7.06E-01	4817.37	3	3	8.76E-04	1323.95	6	6	4.49E+00
1261.55	5	5	1.27E+00	4826.80	5	3	6.28E-04	1334.53	2	4	2.37E+00
1274.11	5	7	1.03E-02	4932.05	3	1	6.02E-02	1335.71	4	6	2.84E+00
1277.25	1	3	1.27E+00	5023.84	7	9	1.81E-03	2091.14	2	4	1.00E-01
1277.28	3	5	1.73E+00	5039.06	7	9	4.73E-03	2091.19	4	6	1.69E-01
1277.51	3	3	9.12E-01	5041.48	3	5	5.25E-03	2091.65	6	8	2.41E-01
1277.55	5	7	2.31E+00	5041.79	5	7	3.28E-03	2093.16	6	6	7.20E-02
1277.72	5	5	6.35E-01	5052.17	3	5	2.60E-02	2173.85	2	4	2.31E-01
1277.95	5	3	5.56E-02	5380.34	3	3	1.86E-02	2174.17	2	2	2.31E-01
1279.23	5	7	1.10E-01	5545.05	3	3	3.04E-03	2509.13	2	4	4.53E-01
1279.89	3	5	3.08E-01	5668.94	3	3	2.35E-02	2511.74	4	4	9.04E-02
1280.14	1	3	3.11E-01	5793.12	7	5	3.44E-03	2512.06	4	6	5.42E-01
1280.33	5	5	5.77E-01	5794.47	5	5	6.44E-04	2727.31	2	4	6.63E-02
1280.40	3	3	1.73E-01	5800.23	3	3	1.04E-03	2728.72	4	4	3.31E-01
1280.60	3	1	8.22E-01	5800.60	5	3	3.04E-03	2729.21	2	2	2.65E-01
1280.85	5	3	3.33E-01	5805.20	3	1	4.12E-03	2730.63	4	2	1.32E-01
1328.83	1	3	7.95E-01	6001.12	5	5	3.22E-03	5132.95	2	4	3.89E-01
1329.09	3	1	2.41E+00	6006.02	7	5	1.79E-02	5133.28	4	6	2.80E-01
1329.58	5	5	1.79E+00	6007.18	3	3	5.34E-03	5137.26	2	2	1.55E-01
1329.60	5	3	1.00E+00	6010.68	3	1	2.13E-02	5139.17	4	4	1.24E-01
1355.84	5	7	1.04E+00	6013.17	7	5	1.79E-02	5143.49	4	2	7.73E-01
1364.16	5	5	1.57E-01	6013.21	7	9	4.35E-03	5145.16	6	6	6.49E-01
				6014.83	5	3	1.60E-02	5151.08	6	4	4.16E-01
				6016.45	5	7	3.86E-03	5640.55	2	4	9.89E-02
				6587.61	3	3	5.09E-02				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
5648.07	4	4	1.97E-01	386.203	1	3	3.46E+01	9705.41	3	5	5.93E-02
5662.46	6	4	2.93E-01	459.466	1	3	5.91E+01	9706.44	3	3	3.29E-02
5818.31	2	2	3.38E-02	459.514	3	5	7.97E+01	9715.09	5	7	7.88E-02
5822.98	2	4	3.38E-03	459.627	5	7	1.06E+02	9717.75	5	5	1.97E-02
5823.18	4	2	3.38E-02	574.281	3	5	6.24E+01	9718.79	5	3	2.19E-03
5827.85	4	4	2.16E-02	977.020	1	3	1.767E+01				
5836.37	6	4	4.22E-02	1174.93	3	5	3.293E+00	<i>C IV</i>			
5843.62	6	6	1.20E-02	1175.26	1	3	4.385E+00	*312.43	2	6	4.63E+01
5856.06	8	6	5.31E-02	1175.59	3	3	3.287E+00	*384.13	6	10	1.76E+02
6095.29	2	4	4.20E-01	1175.71	5	5	9.856E+00	1548.19	2	4	2.65E+00
6098.51	4	6	5.03E-01	1175.99	3	1	1.313E+01	1550.77	2	2	2.64E+00
6102.56	4	4	8.37E-02	1176.37	5	3	5.468E+00	5801.31	2	4	3.17E-01
6578.05	2	4	3.63E-01	1247.38	3	1	2.082E+01	5811.97	2	2	3.16E-01
6582.88	2	2	3.62E-01	2296.87	3	5	1.376E+00	<i>C V</i>			
6724.56	2	4	3.17E-02	2849.05	3	1	1.95E-01	34.9728	1	3	2.554E+03
6727.07	2	2	6.34E-02	3703.70	3	3	5.90E-01	40.2678	1	3	8.873E+03
6727.26	4	6	2.96E-02	4325.56	3	5	1.24E-01	*227.19	3	9	1.363E+02
6731.07	4	4	5.06E-02	4647.42	3	5	7.26E-01	247.315	1	3	1.278E+02
6733.58	4	2	6.32E-02	4650.25	3	3	7.25E-01	*248.71	9	15	4.247E+02
6734.00	6	8	1.80E-02	4651.02	3	5	2.28E-01	*260.19	9	3	6.680E+01
6738.61	6	6	7.23E-02	4651.47	3	1	7.24E-01	267.267	3	5	3.947E+02
6742.43	6	4	4.41E-02	4652.05	1	3	3.04E-01	*2273.9	3	9	5.646E-01
6750.54	8	8	1.08E-01	4659.06	3	3	2.27E-01	3526.66	1	3	1.663E-01
6755.16	8	6	2.38E-02	4663.64	3	1	9.05E-01	8420.72	3	5	6.898E-02
6779.94	4	6	2.56E-01	4665.86	5	5	6.78E-01	*8433.2	3	9	6.868E-02
6780.59	2	4	1.52E-01	4673.95	5	3	3.75E-01	8448.12	3	1	6.832E-02
6783.91	6	8	3.65E-01	5244.66	1	3	5.30E-02	8449.19	3	3	6.829E-02
6787.21	2	2	3.04E-01	5253.58	3	3	1.58E-01	<i>Cesium</i>			
6791.47	4	4	1.94E-01	5272.52	5	3	2.61E-01	<i>Cs I</i>			
6798.10	4	2	6.04E-02	5695.92	3	5	4.27E-01	3203.5	2	4	7.6E-06
6800.69	6	6	1.09E-01	5858.34	3	1	1.34E-01	3205.3	2	4	7.9E-06
6812.28	6	4	1.80E-02	5863.25	3	3	3.35E-02	3207.5	2	4	8.5E-06
7046.25	4	2	3.20E-01	5871.68	5	3	1.00E-01	3210.0	2	4	9.4E-06
7053.09	4	4	3.19E-01	5880.56	5	5	1.99E-02	3212.8	2	4	1.19E-05
7063.68	4	6	3.17E-01	5894.07	7	5	1.11E-01	3216.2	2	4	1.49E-05
7112.48	2	4	2.94E-01	6727.48	1	3	1.12E-01	3220.1	2	4	1.7E-05
7113.04	4	6	3.15E-01	6731.04	3	5	1.50E-01	3220.2	2	2	1.07E-07
7115.63	6	8	3.60E-01	6742.15	3	3	8.32E-02	3224.8	2	4	2.0E-05
7119.76	4	4	1.17E-01	6744.39	5	7	1.99E-01	3225.0	2	2	1.43E-07
7119.91	8	10	4.19E-01	6762.17	5	5	4.95E-02	3230.5	2	4	2.5E-05
7125.72	6	6	1.02E-01	6773.39	5	3	5.47E-03	3230.7	2	2	1.97E-07
7132.47	6	4	8.33E-03	6851.18	3	5	7.60E-03	3237.4	2	4	2.8E-05
7134.10	8	8	5.93E-02	6853.68	5	7	5.64E-03	3237.6	2	2	2.63E-07
7231.33	2	4	3.52E-01	6857.24	3	3	3.79E-02	3245.9	2	4	3.45E-05
7236.42	4	6	4.22E-01	6862.69	5	5	3.51E-02	3246.2	2	2	3.7E-07
7237.17	4	4	7.03E-02	6868.78	5	3	1.26E-02	3256.7	2	4	4.25E-05
8028.85	2	2	1.71E-02	6872.04	7	7	4.46E-02	3257.1	2	2	7.0E-07
8037.73	2	4	4.26E-02	6881.10	7	5	7.80E-03	3270.5	2	4	5.6E-05
8039.40	4	2	8.51E-02	7353.88	5	3	3.09E-02	3271.0	2	2	9.8E-07
8048.31	4	4	1.36E-02	7707.43	3	5	1.30E-01	3288.6	2	4	1.0E-04
8062.10	4	6	3.04E-02	7771.76	3	1	1.77E-01	3289.3	2	2	2.7E-06
8062.80	6	4	4.56E-02	7780.41	3	3	1.76E-01	3313.1	2	4	1.6E-04
8076.64	6	6	7.05E-02	7796.00	3	5	1.75E-01	3314.0	2	2	5.2E-06
9238.30	4	6	3.34E-02	8500.32	1	3	1.01E-01	3347.5	2	4	2.2E-04
9251.01	2	4	2.77E-02	9593.32	3	3	5.32E-03	3348.8	2	2	1.1E-05
9863.06	2	4	5.56E-02	9651.47	5	5	1.57E-02	3397.9	2	4	4.0E-04
9870.78	4	6	9.31E-02	9696.48	5	7	7.53E-03	3400.0	2	2	2.4E-05
9882.68	6	8	1.33E-01	9696.54	3	5	7.12E-03	3476.8	2	4	6.6E-04
<i>C III</i>				9699.57	7	9	8.47E-03	3480.0	2	2	6.6E-05
310.170	1	3	6.56E+00	9701.10	1	3	4.40E-02				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3611.4	2	4	1.5E-03	4917.7	3	5	7.5E-01	2769.90	7	5	1.1E+00
3617.3	2	2	2.5E-04	5078.3	7	7	7.7E-01	2780.70	9	7	1.4E+00
3876.1	2	4	3.8E-03	5219.1	3	9	8.6E-01	2879.27	5	7	2.1E-01
3888.6	2	2	9.7E-04	5392.1	5	7	1.0E+00	2887.00	3	5	2.7E-01
4555.3	2	4	1.88E-02	<i>Cl III</i>				2889.22	9	9	6.6E-01
4593.2	2	2	8.0E-03	2298.5	4	4	4.2E+00	2893.25	7	7	5.2E-01
8521.1	2	4	3.27E-01	2340.6	6	6	4.2E+00	2894.17	1	3	3.3E-01
8943.5	2	2	2.87E-01	2370.4	8	6	2.8E+00	2896.76	5	5	3.0E-01
<i>Chlorine</i>				2531.8	2	4	4.4E+00	2905.48	3	1	1.3E+00
<i>Cl I</i>				2532.5	4	6	5.3E+00	2909.05	5	3	6.8E-01
1188.8	4	6	2.33E+00	2577.1	4	6	4.3E+00	2910.89	7	5	3.4E-01
1188.8	4	4	2.71E-01	2580.7	6	8	4.7E+00	2911.15	9	7	2.6E-01
1201.4	2	4	2.39E+00	2601.2	2	4	4.6E+00	2967.64	7	9	3.9E-01
1335.7	4	2	1.74E+00	2603.6	4	6	5.0E+00	2971.10	5	7	7.1E-01
1347.2	4	4	4.19E+00	2609.5	6	8	5.7E+00	2975.48	3	5	8.9E-01
1351.7	2	2	3.23E+00	2617.0	8	10	6.6E+00	2980.78	1	3	5.10E-01
1363.4	2	4	7.5E-01	2661.6	4	6	3.4E+00	2988.64	5	7	5.2E-01
4323.3	4	4	1.1E-02	2665.5	6	8	4.8E+00	2991.88	3	1	3.0E+00
4363.3	4	6	6.8E-03	2691.5	4	4	3.5E+00	2994.06	5	5	2.5E-01
4379.9	4	4	1.4E-02	2710.4	4	6	3.5E+00	2995.09	5	5	4.3E-01
4389.8	6	8	1.4E-02	3340.4	6	6	1.5E+00	2996.57	5	3	2.0E+00
4526.2	4	4	5.1E-02	3392.9	4	4	1.9E+00	2998.78	5	3	4.07E-01
4601.0	2	2	4.2E-02	3393.5	6	6	1.9E+00	3000.88	7	5	1.6E+00
4661.2	2	4	1.2E-02	3530.0	6	8	1.8E+00	3005.06	9	7	9.2E-01
7256.6	6	4	1.5E-01	3560.7	4	6	1.7E+00	3013.72	3	5	8.3E-01
7414.1	6	4	4.7E-02	3602.1	6	8	1.7E+00	3015.20	1	3	1.63E+00
7547.1	4	4	1.2E-01	3612.9	4	6	1.2E+00	3020.67	3	3	1.5E+00
7717.6	4	4	3.0E-02	3720.5	4	6	1.7E+00	3021.58	9	11	2.91E+00
7745.0	2	4	6.3E-02	<i>Chromium</i>				3024.36	5	5	1.27E+00
7769.2	6	6	6.0E-02	<i>Cr I</i>				3029.17	5	3	3.8E-01
7821.4	6	8	9.8E-02	1999.95	9	9	1.4E+00	3030.25	7	7	1.1E+00
7830.8	4	4	9.7E-02	2383.30	9	11	4.1E-01	3031.35	5	3	3.1E-01
7878.2	6	6	1.8E-02	2389.21	3	5	2.3E-01	3034.19	7	7	3.5E-01
7899.3	4	6	5.1E-02	2408.60	9	7	6.7E-01	3037.05	9	9	5.4E-01
7924.6	2	4	2.1E-02	2408.72	7	5	2.9E-01	3040.84	7	5	7.4E-01
7935.0	6	8	3.9E-02	2492.57	3	5	4.5E-01	3053.87	9	7	7.97E-01
7997.9	4	4	2.1E-02	2495.08	3	3	2.7E-01	3148.44	9	11	5.6E-01
<i>Cl II</i>				2496.30	5	7	5.6E-01	3155.16	11	13	5.7E-01
3329.1	5	7	1.5E+00	2502.55	7	9	2.2E-01	3163.76	13	15	6.0E-01
3522.1	7	7	1.4E+00	2504.31	7	9	4.5E-01	3237.73	9	9	1.3E+00
3798.8	5	7	1.6E+00	2508.11	5	5	2.1E-01	3238.09	11	11	2.0E-01
3805.2	7	9	1.8E+00	2508.97	5	3	3.8E-01	3578.68	7	9	1.48E+00
3809.5	3	5	1.5E+00	2527.11	9	9	5.3E-01	3593.48	7	7	1.50E+00
3851.0	5	7	1.8E+00	2549.55	3	3	4.8E-01	3605.32	7	5	1.62E+00
3851.4	5	5	1.6E+00	2560.70	5	5	4.3E-01	3639.80	13	11	1.8E+00
3854.7	3	5	2.2E+00	2571.74	7	5	6.4E-01	3743.89	13	13	7.61E-01
3861.9	5	7	2.4E+00	2577.66	7	7	2.6E-01	3757.66	7	7	4.13E-01
3868.6	7	9	2.7E+00	2591.84	9	7	6.5E-01	3768.24	5	5	5.10E-01
3913.9	9	9	8.2E-01	2620.48	5	3	1.9E-01	3804.80	9	9	6.9E-01
3990.2	5	7	8.4E-01	2673.64	3	3	1.8E-01	3963.69	13	15	1.3E+00
4132.5	5	5	1.6E+00	2701.99	9	11	2.1E-01	3969.75	11	13	1.2E+00
4276.5	9	7	7.6E-01	2726.50	5	7	7.5E-01	3983.90	7	9	1.05E+00
4768.7	3	5	7.7E-01	2731.90	5	5	7.8E-01	3991.12	5	7	1.07E+00
4781.3	5	7	1.0E+00	2736.46	5	3	7.5E-01	4001.44	9	11	6.8E-01
4794.6	5	7	1.04E+00	2752.85	3	3	8.7E-01	4039.10	15	15	6.7E-01
4810.1	5	5	9.9E-01	2757.09	5	5	6.8E-01	4048.78	13	13	6.4E-01
4819.5	5	3	1.00E+00	2761.74	5	3	6.8E-01	4058.78	11	11	6.7E-01
4904.8	5	7	8.1E-01	2764.36	7	7	3.7E-01	4065.71	9	11	3.5E-01
								4165.52	11	13	7.5E-01
								4204.48	13	11	3.1E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
13.76	1	3	1.51E+05	2424.93	10	10	3.2E+00	3523.42	4	2	9.8E-01
13.78	5	7	1.7E+05	2432.21	8	8	2.6E+00	3526.85	10	10	1.3E-01
13.84	5	7	2.59E+05	2436.66	6	6	2.6E+00	3529.03	6	8	8.8E-02
13.87	3	5	8.5E+04	2439.04	4	4	2.7E+00	3529.82	8	10	4.6E-01
13.92	3	5	8.5E+04	2460.80	4	6	1.2E-01	3533.36	4	6	9.1E-02
13.93	5	7	4.2E+04	2467.69	6	8	7.0E-02	3560.89	4	4	2.3E-01
13.95	5	5	3.8E+04	2470.27	10	12	1.5E-01	3564.95	6	8	7.0E-02
14.04	3	5	1.2E+05	2476.64	10	8	2.2E-01	3569.37	8	8	1.6E+00
14.24	1	3	1.41E+05	2504.52	10	8	1.8E-01	3574.97	6	6	1.5E-01
<i>Cr XXII</i>				2511.02	10	10	9.2E-01	3575.36	8	8	9.6E-02
2.190	4	2	1.7E+06	2521.36	10	8	3.0E+00	3585.15	8	8	7.1E-02
2.191	2	2	2.5E+06	2528.97	8	6	2.8E+00	3587.19	6	6	1.4E+00
2.198	4	4	4.5E+06	2530.13	6	6	7.1E-02	3594.87	6	6	9.2E-02
2.199	2	4	2.3E+06	2535.96	6	4	1.9E+00	3602.08	4	4	1.0E-01
2.202	4	6	1.6E+06	2536.50	8	8	3.0E-01	3704.06	6	8	1.2E-01
2.203	4	2	1.3E+06	2544.25	4	2	3.0E+00	3745.49	8	8	7.5E-02
13.149	2	4	1.29E+05	2562.12	4	4	3.9E-01	3842.05	8	6	1.3E-01
13.292	4	6	1.54E+05	2567.34	6	6	3.0E-01	3845.47	8	10	4.6E-01
<i>Cr XXIII</i>				2574.35	8	8	1.7E-01	3861.16	6	4	1.4E-01
1.7632	1	3	3.68E+05	2685.34	6	8	5.5E-02	3873.12	10	8	1.2E-01
1.8557	1	3	8.97E+05	3017.55	8	6	6.9E-02	3873.95	8	6	1.0E-01
2.095	3	1	3.5E+06	3044.00	10	10	1.9E-01	3881.87	6	4	8.2E-02
2.101	1	3	2.0E+06	3048.89	6	4	7.5E-02	3894.07	6	8	6.9E-01
2.101	5	5	7.9E+05	3061.82	8	8	1.6E-01	3894.98	4	2	8.8E-02
2.102	3	5	2.1E+06	3072.34	6	6	1.5E-01	3935.96	8	10	6.2E-02
2.103	3	5	1.2E+06	3086.78	4	4	1.9E-01	3995.31	8	10	2.5E-01
2.104	1	3	1.4E+06	3354.37	8	6	1.1E-01	3997.90	6	8	7.0E-02
2.105	3	3	9.6E+05	3367.11	10	8	6.0E-02	4092.39	8	8	5.7E-02
2.106	3	3	2.0E+06	3385.22	8	6	1.1E-01	4110.53	6	6	5.5E-02
2.107	5	5	2.3E+06	3388.16	6	4	2.4E-01	4118.77	6	8	1.6E-01
2.107	3	5	3.3E+06	3395.37	6	8	2.9E-01	4121.32	8	10	1.9E-01
2.109	5	3	1.7E+06	3405.12	10	10	1.0E+00	5146.75	8	8	1.5E-01
2.113	3	5	5.9E+05	3409.17	8	8	4.2E-01	5212.70	10	10	1.9E-01
2.119	3	1	2.7E+05	3412.34	8	10	6.1E-01	5265.79	6	8	5.0E-02
2.129	3	1	5.1E+05	3412.63	10	8	1.2E-01	5280.63	10	8	2.8E-01
2.1818	1	3	3.37E+06	3414.74	4	4	8.8E-02	5352.05	12	10	2.7E-01
2.1923	1	3	2.34E+05	3417.15	6	6	3.2E-01	5477.09	6	8	6.8E-02
<i>Cobalt</i>				3431.58	8	6	1.1E-01	5483.96	8	10	7.3E-02
<i>Co I</i>				3433.05	4	4	1.0E+00	6082.43	10	10	5.4E-02
2287.80	8	8	8.6E-01	3442.92	6	4	1.2E-01	6455.00	8	10	9.0E-02
2295.22	10	8	2.2E-01	3443.64	8	8	6.9E-01	7838.12	8	10	5.4E-02
2309.03	10	10	5.6E-01	3449.17	6	6	7.6E-01	8093.93	12	10	2.0E-01
2323.13	8	8	5.0E-01	3449.44	10	10	1.8E-01	8372.79	10	10	8.7E-02
2325.53	6	8	1.1E-01	3453.51	10	12	1.1E+00	<i>Co II</i>			
2335.98	6	6	5.1E-01	3455.24	4	2	1.9E-01	2286.15	11	13	3.3E+00
2338.66	4	4	7.7E-01	3462.80	4	6	7.9E-01	2307.85	9	11	2.6E+00
2353.36	8	10	1.5E-01	3465.79	10	12	9.2E-02	2311.61	7	9	2.8E+00
2355.48	6	8	1.3E-01	3474.02	6	8	5.6E-01	2314.05	5	7	2.8E+00
2358.18	4	6	1.4E-01	3483.41	8	10	5.5E-02	2314.97	3	5	2.7E+00
2365.06	10	10	1.3E-01	3489.40	8	6	1.3E+00	2330.36	5	3	1.32E+00
2371.85	6	8	7.3E-02	3491.32	4	4	5.0E-02	2344.28	3	3	1.5E+00
2384.86	10	8	2.4E-01	3495.68	4	6	4.9E-01	2353.41	7	7	1.9E+00
2392.03	6	6	4.0E-01	3502.28	10	8	8.0E-01	2363.80	9	9	2.1E+00
2402.06	8	6	5.1E-01	3502.63	6	6	5.2E-02	2378.62	11	9	1.9E+00
2407.25	10	12	3.6E+00	3506.32	8	6	8.2E-01	2383.45	9	7	1.8E+00
2412.76	4	6	6.5E-01	3509.84	6	8	3.2E-01	2388.92	11	11	2.8E+00
2414.46	6	8	3.4E+00	3512.64	6	4	1.0E+00	2389.54	5	3	1.5E+00
2415.29	4	6	3.6E+00	3513.48	8	10	7.8E-02	2404.17	3	3	1.5E+00
				3518.34	6	4	1.6E+00	2417.66	9	9	8.5E-01
				3521.58	10	8	1.8E-01				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
Copper				Erbium				Fluorine			
Cu I				Er I				Fl I			
*2024.3	2	6	9.8E-02	4194.8	17	17	7.2E-01	3212.8	8	8	2.9E-01
2165.1	2	4	5.1E-01	4211.7	17	19	2.08E+00	3213.8	8	6	1.8E-01
2178.9	2	4	9.13E-01	4218.1	15	15	1.85E+00	3235.1	8	10	1.0E-02
2181.7	2	2	1.0E+00	4221.1	15	17	1.52E+00	3241.4	8	8	2.3E-02
2225.7	2	2	4.6E-01	4225.2	13	15	4.5E+00	3246.0	8	6	1.4E-02
2244.3	2	4	1.19E-02	4268.3	15	15	3.6E-02	3247.6	8	8	2.3E-02
2441.6	2	2	2.0E-02	4276.7	13	13	7.3E-01	3322.3	8	6	3.5E-02
2492.2	2	4	3.11E-02	4292.0	15	15	5.8E-02	3334.3	8	6	3.4E-01
2618.4	6	4	3.07E-01	4577.8	17	19	2.2E-02	3350.4	8	10	1.5E-02
2766.4	4	4	9.6E-02	4589.4	17	15	1.3E-01	3353.7	8	8	5.8E-03
2824.4	6	6	7.8E-02	4612.3	17	15	8.2E-02	3457.1	8	8	8.4E-03
2961.2	6	8	3.76E-02	5077.7	17	17	5.7E-03	3467.9	8	8	1.0E-02
3063.4	4	4	1.55E-02	5301.6	17	15	1.1E-02	3589.3	8	6	6.9E-03
3194.1	4	4	1.55E-02	5547.3	17	17	2.7E-03	4594.0	8	10	1.4E+00
3247.5	2	4	1.39E+00	5639.5	17	19	4.7E-03	4627.2	8	8	1.3E+00
3274.0	2	2	1.37E+00	5974.5	17	17	4.0E-03	4661.9	8	6	1.3E+00
3337.8	6	8	3.8E-03	5988.6	17	15	5.3E-03	5645.8	8	6	5.4E-03
4022.6	2	4	1.90E-01	6010.8	15	15	2.6E-02	5765.2	8	8	1.1E-02
4062.6	4	6	2.10E-01	6088.3	15	13	3.5E-02	6018.2	8	10	8.5E-03
4249.0	2	2	1.95E-01	6168.4	15	17	2.5E-02	6291.3	8	6	1.8E-03
4275.1	6	8	3.45E-01	6259.1	17	19	8.5E-03	6864.5	8	10	5.8E-03
4480.4	2	2	3.0E-02	6579.4	17	15	7.5E-03	7106.5	8	8	2.6E-03
4509.4	4	2	2.75E-01	Europium							
4530.8	4	2	8.4E-02	Eu I							
4539.7	6	4	2.12E-01	3862.9	13	13	2.5E+00	806.96	4	6	3.3E+00
4587.0	8	6	3.20E-01	4008.0	13	15	2.6E+00	809.60	2	4	2.8E+00
4651.1	10	8	3.80E-01	4151.1	13	11	1.8E+00	951.87	4	2	2.6E+00
4704.6	8	8	5.5E-02	Er I				954.83	4	4	5.77E+00
5105.5	6	4	2.0E-02	2372.9	8	6	1.9E-01	955.55	2	2	5.1E+00
5153.2	2	4	6.0E-01	2375.3	8	8	2.0E-01	958.52	2	4	1.3E+00
5218.2	4	6	7.5E-01	2379.7	8	10	2.0E-01	6239.7	6	4	2.5E-01
5220.1	4	4	1.50E-01	2619.3	8	10	7.0E-03	6348.5	4	4	1.8E-01
5292.5	8	8	1.09E-01	2643.8	8	8	6.6E-03	6413.7	2	4	1.1E-01
5700.2	4	4	2.4E-03	2659.4	8	10	1.2E-02	6708.3	6	4	1.4E-02
5782.1	4	2	1.65E-02	2682.6	8	6	1.2E-02	6774.0	6	6	1.0E-01
Cu II				2682.6	8	6	1.2E-02	6795.5	4	2	5.2E-02
2489.7	5	5	1.5E-02	2710.0	8	10	1.4E-01	6834.3	4	4	2.1E-01
2544.8	9	7	1.1E+00	2724.0	8	8	1.2E-01	6856.0	6	8	4.94E-01
2689.3	7	7	4.1E-01	2731.4	8	8	3.1E-02	6870.2	2	2	3.8E-01
2701.0	5	5	6.7E-01	2732.6	8	6	3.7E-02	6902.5	4	6	3.2E-01
2703.2	3	3	1.2E+00	2735.3	8	10	4.7E-02	6909.8	2	4	2.2E-01
2713.5	5	5	6.8E-01	2738.6	8	10	1.3E-02	6966.4	4	2	1.1E-01
Dysprosium				2743.3	8	6	1.1E-01	7037.5	4	4	3.0E-01
Dy I				2745.6	8	6	5.0E-02	7127.9	2	2	3.8E-01
2862.7	17	15	6.5E-02	2745.6	8	6	5.0E-02	7309.0	6	8	4.7E-01
2964.6	17	17	6.5E-02	2747.8	8	8	5.2E-02	7311.0	4	2	3.9E-01
3147.7	15	17	1.1E-01	2772.9	8	6	1.0E-02	7314.3	4	6	4.8E-01
3263.2	15	13	1.4E-01	2878.9	8	10	2.8E-02	7332.0	6	4	3.1E-01
3511.0	15	13	3.1E-01	2892.5	8	8	1.0E-01	7398.7	6	6	2.85E-01
3571.4	15	13	2.0E-01	2893.0	8	6	1.0E-01	7425.7	4	2	3.4E-01
3757.1	17	19	3.0E+00	2909.0	8	10	6.9E-02	7482.7	4	4	5.6E-02
3868.8	17	17	3.1E+00	2958.9	8	6	1.6E-02	7489.2	2	2	1.1E-01
3967.5	17	19	8.7E-01	3059.0	8	8	3.8E-02	7514.9	2	2	5.2E-02
4046.0	17	15	1.5E+00	3067.0	8	10	9.1E-03	7552.2	4	6	7.8E-02
4103.9	13	11	1.7E+00	3106.2	8	10	5.5E-02	7573.4	2	4	1.0E-01
4186.8	17	17	1.32E+00	3111.4	8	10	3.0E-01	7607.2	4	4	7.0E-02
				3168.3	8	10	6.9E-02	7754.7	4	6	3.82E-01
				3185.5	8	10	5.8E-03	7800.2	2	4	2.1E-01
				3210.6	8	8	1.1E-01				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}								
	g_i	g_k			g_i	g_k			g_i	g_k									
Gallium																			
Ga I																			
2195.4	2	2	1.9E-02	1075.1	4	2	1.3E+00	4024.0	3	1	1.128E-02								
2199.7	4	2	3.3E-02	1237.1	2	4	1.9E+01	*4026.2	9	15	1.160E-01								
2214.4	4	6	1.2E-02	1261.9	4	6	2.2E+01	*4120.8	9	3	4.453E-02								
2235.9	4	2	4.3E-02	1264.7	4	4	3.5E+00	4143.8	3	5	4.881E-02								
2255.0	2	2	3.1E-02	1602.5	2	2	3.4E+00	4169.0	3	1	1.830E-02								
2259.2	4	6	3.1E-02	1649.2	4	2	6.5E+00	4387.9	3	5	8.989E-02								
2294.2	2	4	7.0E-02	4741.8	2	4	4.6E-01	4437.6	3	1	3.269E-02								
2297.9	4	2	5.8E-02	4814.6	4	6	5.1E-01	*4471.5	9	15	2.458E-01								
2338.2	4	6	9.8E-02	4824.1	4	4	8.6E-02	*4713.2	9	3	9.521E-02								
2371.3	2	2	5.7E-02	5131.8	4	6	1.9E+00	4921.9	3	5	1.986E-01								
2418.7	4	2	1.0E-01	5178.5	6	6	1.3E-01	5015.7	1	3	1.337E-01								
2450.1	2	4	2.8E-01	5178.6	6	8	2.0E+00	5047.7	3	1	6.771E-02								
2500.2	4	6	3.4E-01	5893.4	2	4	9.2E-01	*5875.7	9	15	7.070E-01								
2659.9	2	2	1.2E-01	6021.0	2	2	8.4E-01	6678.2	3	5	6.371E-01								
2719.7	4	2	2.3E-01	6336.4	2	2	4.4E-01	*7065.2	9	3	2.785E-01								
2874.2	2	4	1.2E+00	6484.2	4	2	8.5E-01	7281.4	3	1	1.830E-01								
2943.6	4	6	1.4E+00	Gold															
2944.2	4	4	2.7E-01	Au I															
4033.0	2	2	4.9E-01	2427.95	2	4	1.99E+00	9603.4	1	3	5.829E-03								
4172.0	4	2	9.2E-01	2675.95	2	2	1.64E+00	*9702.6	9	3	8.651E-03								
Ga II																			
829.60	1	3	2.2E-01	3122.78	6	4	1.90E-01	*10311	9	15	1.995E-02								
1414.4	1	3	1.88E+01	6278.30	4	2	3.4E-02	*10668	9	3	1.447E-02								
Germanium																			
Ge I																			
1944.7	3	1	7.0E-01	Helium															
1955.1	3	3	2.8E-01	He I															
1988.3	5	3	2.5E-01	510.00	1	3	4.622E-01	11013	1	3	9.250E-03								
1998.9	5	5	5.5E-01	512.10	1	3	7.317E-01	11045	3	5	1.846E-02								
2041.7	1	3	1.1E+00	515.62	1	3	1.258E+00	11226	3	1	1.117E-02								
2065.2	3	3	8.5E-01	522.21	1	3	2.436E+00	*11969	9	15	3.478E-02								
2068.7	3	5	1.2E+00	537.03	1	3	5.663E+00	*12528	3	9	7.093E-03								
2086.0	3	5	4.0E-01	584.33	1	3	1.799E+01	12756	5	3	1.275E-03								
2094.3	5	7	9.7E-01	*2677.1	3	9	4.417E-03	*12785	15	21	4.134E-02								
2105.8	5	5	1.7E-01	*2696.1	3	9	6.023E-03	12791	5	7	3.248E-02								
2256.0	5	5	3.2E-02	*2723.2	3	9	8.500E-03	*12846	9	3	2.732E-02								
2417.4	5	5	9.6E-01	*2763.8	3	9	1.251E-02	12968	3	5	3.362E-02								
2498.0	1	3	1.3E-01	*2829.1	3	9	1.939E-02	*12985	15	9	2.729E-03								
2533.2	3	3	1.0E-01	*2945.1	3	9	3.201E-02	Indium											
2589.2	5	3	5.1E-02	*3187.7	3	9	5.636E-02	In I											
2592.5	3	5	7.1E-01	3231.3	1	3	5.102E-03	2560.2	2	4	4.0E-01								
2651.2	5	5	2.0E+00	3258.3	1	3	6.963E-03	2710.3	4	6	4.0E-01								
2651.6	1	3	8.5E-01	3296.8	1	3	9.843E-03	3039.4	2	4	1.3E+00								
2691.3	3	3	6.1E-01	3354.6	1	3	1.454E-02	3256.1	4	6	1.3E+00								
2709.6	3	1	2.8E+00	3447.6	1	3	2.269E-02	4101.8	2	2	5.6E-01								
2754.6	5	3	1.1E+00	*3554.4	9	15	7.597E-03	4511.3	4	2	1.02E+00								
3039.1	5	3	2.8E+00	*3563.0	9	3	4.836E-03	In II											
3124.8	5	5	3.1E-02	*3587.3	9	15	1.811E-02	2941.1	3	1	1.4E+00								
3269.5	5	3	2.9E-01	3613.6	1	3	3.802E-02	Iodine											
4226.6	1	3	2.1E-01	*3634.2	9	15	2.606E-02	I I											
4685.8	1	3	9.5E-02	*3652.0	9	3	9.744E-03	1782.8	4	4	2.71E+00								
Ge II																			
999.10	2	4	1.9E+00	*3705.0	9	15	3.953E-02	1830.4	4	6	1.6E-01								
1016.6	4	6	2.1E+00	*3819.6	9	15	6.435E-02	Iridium											
1017.1	4	4	3.5E-01	3833.6	3	5	9.647E-03	Ir I											
1055.0	2	2	6.9E-01	*3867.5	9	3	2.447E-02	2475.12	10	10	2.1E-01								
				3871.8	3	5	1.339E-02	2502.98	10	12	3.2E-01								
				*3888.7	3	9	9.475E-02	2639.71	10	10	4.7E-01								
				3926.5	3	5	1.937E-02	2661.98	10	10	2.5E-01								
				3935.9	3	1	7.448E-03												
				3964.7	1	3	6.951E-02												
				4009.3	3	5	2.961E-02												

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2664.79	10	8	4.0E-01	2443.87	11	11	5.89E-02	2606.83	9	11	2.43E-01
2694.23	10	12	4.8E-01	2453.48	9	7	1.89E-01	2609.22	7	7	4.60E-01
2849.72	10	10	2.2E-01	2453.57	11	13	1.23E-01	2618.02	7	7	1.50E-01
2853.31	10	10	2.0E-03	2457.60	11	11	4.81E-01	2623.53	7	9	2.13E-01
2882.64	10	8	7.2E-02	2462.18	7	5	1.10E-01	2632.24	5	5	1.21E-01
2924.79	10	12	1.42E-01	2462.65	9	9	5.85E-01	2635.72	11	9	4.29E-02
2934.64	8	10	2.0E-01	2463.73	7	5	1.64E-01	2635.81	5	7	2.11E-01
2951.22	10	8	2.8E-02	2465.15	9	9	4.35E-01	2641.03	9	7	7.71E-02
3003.63	8	10	5.9E-02	2468.88	11	11	2.40E-01	2641.64	9	7	6.47E-02
3168.88	8	10	5.47E-02	2470.97	9	11	2.36E-02	2644.00	3	5	2.34E-01
3220.78	10	8	2.4E-01	2472.34	11	13	7.21E-02	2656.15	13	15	1.63E-01
3558.99	6	8	1.5E-02	2472.87	5	3	2.10E-01	2662.06	7	5	4.64E-02
3573.72	8	10	5.4E-02	2472.89	7	7	1.30E+00	2666.81	11	9	8.91E-02
3617.21	6	8	2.0E-02	2473.16	9	9	2.75E-02	2666.97	9	11	5.16E-02
3628.67	8	8	2.8E-02	2474.81	7	7	6.13E-01	2669.49	11	13	1.34E-01
3661.71	8	10	4.0E-02	2476.66	5	3	3.05E-01	2679.02	9	11	1.10E-01
3734.77	8	8	2.7E-02	2479.48	5	5	2.10E-01	2679.06	11	11	1.50E-01
4033.76	8	10	2.7E-02	2479.78	5	5	1.74E+00	2689.21	9	7	1.68E-01
4069.92	6	8	3.6E-02	2483.27	9	11	4.80E+00	2689.83	7	9	3.04E-02
4913.35	12	12	3.3E-02	2483.53	5	5	2.09E-01	2697.02	7	9	3.51E-02
4939.24	10	12	2.5E-03	2484.19	3	3	2.26E+00	2699.11	9	9	5.59E-02
<i>Iron</i>				2485.99	9	9	2.94E-02	2701.91	9	7	1.05E-01
<i>Fe I</i>				2486.69	7	9	1.47E-01	2702.45	13	11	4.23E-02
1934.54	9	7	2.5E-01	2487.07	3	3	6.40E-01	2706.01	13	13	2.28E-01
1937.27	9	7	2.2E-01	2488.14	7	9	4.20E+00	2706.58	7	5	2.69E-01
1940.66	7	5	2.6E-01	2489.75	1	3	2.31E+00	2708.57	9	9	6.49E-01
2132.02	9	9	7.6E-02	2489.91	3	5	8.72E-02	2710.54	5	7	5.99E-02
2145.19	7	7	5.7E-02	2490.64	5	7	3.44E+00	2711.66	9	11	4.99E-02
2153.01	5	5	6.9E-02	2491.16	3	5	2.91E+00	2716.26	9	9	3.70E-02
2161.58	3	5	5.0E-02	2491.99	9	9	3.25E-01	2716.42	11	9	4.96E-02
2166.77	9	7	2.7E+00	2494.00	3	5	8.89E-02	2718.44	5	3	3.79E-01
2171.30	5	7	5.1E-02	2496.53	9	11	2.15E-01	2719.03	9	7	1.42E+00
2173.21	3	5	8.3E-02	2501.13	9	7	6.75E-01	2719.06	7	7	7.40E-01
2176.84	1	3	1.0E-01	2501.69	11	9	3.69E-02	2719.42	11	11	3.20E-01
2191.84	5	5	1.2E+00	2505.01	9	11	2.56E-01	2720.90	7	5	1.04E+00
2196.04	3	3	1.2E+00	2506.57	7	9	2.04E-01	2723.58	5	3	5.69E-01
2200.39	1	3	8.9E-01	2507.90	7	9	1.93E-01	2724.95	7	9	4.76E-02
2200.72	3	5	2.8E-01	2510.83	7	5	1.29E+00	2726.06	3	1	5.52E-01
2259.51	9	11	5.66E-02	2517.66	5	7	1.58E-01	2728.02	9	9	3.45E-02
2272.07	7	9	2.92E-02	2518.10	5	3	1.93E+00	2728.82	9	9	2.98E-01
2276.03	9	7	1.25E-01	2519.63	3	5	1.34E-01	2731.28	5	7	6.84E-02
2284.09	7	5	1.29E-01	2522.85	9	9	2.13E+00	2733.58	11	9	7.10E-01
2287.25	5	3	2.23E-01	2524.29	3	1	3.23E+00	2735.48	9	7	5.03E-01
2292.52	7	9	2.96E-02	2527.27	13	13	3.46E-01	2737.31	3	3	7.25E-01
2294.41	3	1	3.61E-01	2527.44	7	7	1.93E+00	2737.64	13	11	1.14E-01
2297.79	7	7	1.44E-01	2529.14	5	5	9.91E-01	2742.25	7	5	3.41E-01
2298.17	9	9	3.09E-01	2529.31	5	7	4.86E+00	2742.41	5	5	4.70E-01
2299.22	5	5	7.03E-02	2529.84	3	3	3.83E-01	2743.57	7	7	4.84E-02
2300.14	5	7	4.99E-02	2533.14	11	11	2.07E-01	2744.07	1	3	3.09E-01
2301.68	1	3	8.68E-02	2535.61	1	3	9.59E-01	2744.53	5	3	2.53E-01
2303.58	3	5	4.83E-02	2537.17	13	15	3.70E+00	2750.14	7	7	2.74E-01
2309.00	3	5	1.02E-01	2537.46	9	11	3.19E-02	2753.69	3	1	4.00E-01
2313.10	5	7	1.18E-01	2540.97	3	5	9.59E-01	2754.03	5	5	7.29E-02
2320.36	7	9	1.41E-01	2542.10	11	13	4.47E+00	2755.18	11	9	5.13E-02
2373.62	7	7	6.53E-02	2543.92	9	11	4.70E+00	2756.33	3	5	1.41E-01
2389.97	5	7	4.47E-02	2545.98	5	7	7.16E-01	2757.32	3	3	2.85E-01
2438.18	11	9	7.09E-02	2549.61	7	9	2.31E-01	2761.78	5	5	1.94E-01
2439.74	13	13	3.46E+00	2576.69	11	11	1.13E-01	2762.03	7	7	1.76E-01
2442.57	11	11	3.12E+00	2584.54	11	13	3.15E-01	2767.52	9	9	1.48E-01
				2599.57	9	9	1.47E-01	2769.30	13	13	1.80E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2772.07	11	11	2.34E-02	2973.13	5	7	1.35E-01	3099.89	3	3	1.93E-01
2772.11	5	7	4.12E-02	2973.24	7	9	1.83E-01	3099.97	9	9	8.23E-02
2778.22	11	11	9.08E-02	2976.13	5	7	9.70E-02	3100.30	5	5	1.87E-01
2780.70	9	9	9.01E-02	2980.53	7	7	1.66E-01	3100.67	7	7	1.35E-01
2784.34	11	11	2.30E-02	2981.45	7	5	6.53E-02	3100.84	13	11	2.73E-02
2787.93	9	11	2.27E-02	2981.85	7	9	1.86E-01	3101.00	9	9	5.53E-02
2788.10	11	13	5.92E-01	2982.23	9	7	3.47E-02	3112.08	11	11	5.24E-02
2789.80	11	9	2.36E-01	2983.57	9	7	2.79E-01	3119.49	11	9	8.28E-02
2797.78	9	9	4.52E-02	2987.29	9	7	5.25E-02	3120.44	9	7	7.26E-02
2803.61	9	9	1.04E-01	2990.39	9	11	3.5E-01	3125.68	13	11	8.46E-02
2804.52	9	9	1.05E-01	2994.43	7	5	4.39E-01	3132.52	9	7	3.39E-01
2804.86	9	7	2.40E-01	2996.39	3	5	1.70E-01	3142.45	7	7	3.93E-02
2806.98	9	11	1.15E-01	2999.51	11	11	1.70E-01	3142.89	5	5	5.65E-02
2812.04	9	9	5.00E-02	3000.45	9	11	5.41E-02	3143.99	9	9	6.10E-01
2813.29	9	11	3.42E-01	3000.95	5	3	6.42E-01	3145.06	9	9	4.65E-02
2823.28	7	7	1.51E-01	3003.03	7	5	7.50E-02	3147.79	7	7	7.59E-02
2825.56	7	9	1.32E-01	3004.11	11	11	2.79E-02	3153.20	7	9	7.91E-02
2832.44	7	9	2.38E-01	3005.30	13	15	2.94E-02	3154.50	5	7	4.64E-02
2834.75	9	11	5.41E-02	3007.15	9	7	7.34E-02	3156.27	7	7	6.36E-01
2838.12	5	5	1.28E-01	3008.14	3	1	1.07E+00	3157.04	9	11	1.26E-01
2843.63	9	7	6.96E-02	3009.09	13	11	7.77E-02	3157.89	5	7	1.61E-01
2843.98	5	7	3.17E-01	3009.57	9	9	1.43E-01	3160.66	9	9	1.93E-01
2845.59	7	5	7.86E-02	3011.48	7	9	3.79E-01	3161.95	11	13	4.65E-02
2851.80	3	5	3.37E-01	3015.92	11	9	6.3E-02	3165.86	7	9	5.35E-02
2853.77	7	9	5.91E-02	3016.18	5	3	8.85E-02	3166.44	9	7	1.14E-01
2863.43	9	9	4.13E-02	3018.98	7	7	1.03E-01	3171.35	9	7	1.85E-01
2868.45	5	3	1.45E-01	3019.29	9	11	2.33E-02	3175.44	11	11	1.44E-01
2877.30	9	9	4.61E-02	3020.49	5	5	1.94E-01	3178.01	11	9	1.28E-01
2883.75	11	11	2.91E-02	3020.64	9	9	7.59E-01	3180.22	7	9	4.42E-01
2887.81	11	13	7.98E-02	3021.07	7	7	4.55E-01	3181.52	7	5	1.84E-01
2892.48	9	9	8.78E-02	3024.03	3	5	4.87E-02	3182.06	9	9	3.23E-02
2894.50	5	5	4.83E-01	3025.64	13	13	5.86E-01	3182.97	5	7	1.42E-01
2895.03	7	7	4.24E-02	3025.84	1	3	3.48E-01	3188.57	11	11	5.00E-02
2899.41	5	3	4.68E-01	3026.46	5	5	1.10E-01	3188.82	3	5	2.53E-01
2901.91	11	11	1.78E-01	3030.15	11	11	5.04E-01	3190.65	9	11	5.75E-02
2907.52	9	11	1.61E-01	3031.64	3	3	1.38E-01	3190.82	9	9	5.55E-02
2908.86	7	9	8.98E-02	3037.39	3	5	2.91E-01	3192.80	3	5	5.01E-01
2918.02	13	13	1.18E+00	3040.43	9	11	2.45E-02	3193.30	5	7	3.07E-01
2919.84	9	11	7.44E-02	3041.64	7	9	4.24E-02	3194.42	5	3	1.08E-01
2920.69	5	5	6.38E-02	3041.74	7	9	5.20E-02	3196.12	11	9	1.40E-01
2923.29	11	11	1.39E+00	3042.02	3	5	4.70E-02	3196.93	9	11	5.97E-01
2923.85	11	11	2.97E-01	3042.66	5	7	5.20E-02	3199.53	9	9	2.23E-01
2925.36	7	9	1.69E-01	3047.60	5	7	2.84E-01	3202.56	9	7	6.18E-02
2929.01	7	5	5.10E-02	3053.07	3	5	1.53E-01	3205.40	3	3	9.77E-01
2929.12	9	9	1.53E+00	3055.26	7	5	9.48E-02	3210.23	9	11	1.15E-01
2936.90	9	9	1.40E-01	3057.45	11	9	3.13E-01	3210.83	5	3	9.24E-01
2947.36	5	5	9.30E-02	3059.09	7	9	1.63E-01	3211.61	9	9	3.07E-02
2947.88	7	7	1.83E-01	3060.54	9	7	6.75E-02	3211.99	11	9	4.64E-01
2948.43	9	9	3.32E-01	3066.48	9	7	9.11E-02	3214.01	7	7	8.38E-01
2953.49	7	7	3.64E-01	3067.00	11	13	1.71E-01	3214.06	7	5	1.18E+00
2953.94	5	5	1.89E-01	3067.12	5	7	3.89E-02	3215.94	5	5	6.19E-01
2954.65	5	7	1.06E-01	3067.24	9	7	3.12E-01	3217.38	11	9	1.50E-01
2957.36	3	3	1.77E-01	3068.17	5	3	1.11E-01	3219.58	7	9	4.64E-01
2957.48	5	3	1.31E-01	3073.98	11	9	3.83E-02	3219.80	9	7	3.61E-01
2959.99	11	13	5.02E-01	3075.72	7	5	3.14E-01	3221.92	3	3	1.22E-01
2960.66	11	9	8.48E-02	3078.43	1	3	1.52E-01	3222.07	11	11	8.65E-01
2965.25	1	3	1.16E-01	3079.99	9	11	8.35E-02	3225.79	11	13	1.18E+00
2966.90	9	11	2.72E-01	3083.74	5	3	3.08E-01	3227.80	9	7	4.96E-01
2968.48	3	3	8.26E-02	3091.58	3	1	5.53E-01	3228.25	5	3	3.72E-01
2970.10	3	5	1.08E-01	3098.19	11	11	7.52E-02	3229.99	9	11	1.06E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3230.21	5	5	2.06E-01	3406.80	3	3	2.08E-01	3534.53	11	11	2.20E-02
3230.96	7	5	3.7E-01	3407.46	7	9	6.09E-01	3536.56	5	7	9.95E-01
3233.05	13	15	4.19E-01	3410.17	3	5	5.07E-01	3537.73	5	3	1.33E-01
3233.97	9	9	2.08E-01	3411.35	9	9	6.0E-02	3537.89	11	11	8.0E-02
3239.43	9	9	2.95E-01	3413.13	5	7	3.23E-01	3540.12	7	9	9.48E-02
3244.19	9	11	3.06E-01	3415.53	3	5	4.64E-02	3541.08	9	11	8.65E-01
3246.96	5	3	1.09E-01	3417.84	3	3	4.01E-01	3542.08	7	9	9.51E-01
3248.20	7	7	1.92E-01	3418.51	3	1	9.88E-01	3543.67	3	5	1.6E-01
3250.76	11	11	2.85E-02	3422.66	3	5	1.38E-01	3545.64	9	9	2.05E-01
3252.91	9	11	2.20E-02	3424.28	7	7	1.61E-01	3547.19	9	9	7.13E-02
3253.60	7	9	1.62E-01	3425.01	9	7	2.57E-01	3552.11	3	5	4.8E-02
3254.36	11	13	4.24E-01	3426.63	5	3	1.94E-01	3552.83	5	5	1.74E-01
3257.23	9	9	4.76E-02	3426.67	11	11	1.07E-01	3553.74	11	9	1.09E+00
3257.59	7	5	8.94E-02	3427.12	7	9	5.04E-01	3554.50	3	5	9.87E-02
3259.99	7	9	2.99E-02	3428.19	5	5	1.71E-01	3554.92	11	13	1.40E+00
3264.51	5	3	1.01E-01	3431.81	5	7	5.53E-02	3556.88	9	11	4.1E-01
3265.62	7	5	3.06E-01	3440.61	9	7	1.71E-01	3558.52	5	7	1.77E-01
3271.00	5	3	6.4E-01	3440.99	7	5	1.24E-01	3559.50	3	3	2.2E-01
3271.48	7	7	8.47E-02	3443.88	5	3	7.92E-02	3560.70	7	9	7.4E-02
3280.26	9	11	4.21E-01	3445.15	5	7	2.34E-01	3565.38	7	9	4.29E-01
3282.89	3	5	3.42E-01	3447.28	5	5	1.07E-01	3567.03	5	7	8.34E-02
3284.59	5	5	5.64E-02	3450.33	3	3	2.34E-01	3568.82	7	9	6.72E-02
3286.75	7	7	5.99E-01	3451.91	3	5	1.13E-01	3568.97	11	9	4.64E-02
3290.99	3	5	7.58E-02	3458.30	3	1	2.92E-01	3570.10	9	11	6.76E-01
3292.02	7	9	5.77E-01	3459.91	5	3	2.17E-01	3572.00	11	11	2.89E-01
3292.59	3	3	3.0E-01	3465.86	3	3	1.19E-01	3572.59	9	9	3.31E-02
3298.13	3	5	9.01E-02	3468.84	9	11	2.61E-02	3573.39	5	7	1.05E-01
3305.97	5	7	4.05E-01	3469.01	9	9	8.58E-02	3573.83	13	13	2.41E-02
3306.34	9	9	5.74E-01	3475.45	5	5	9.75E-02	3573.89	9	7	5.73E-01
3306.35	3	5	4.84E-01	3475.65	7	5	8.61E-02	3575.11	3	3	1.60E-01
3307.23	13	13	1.97E-01	3476.34	7	7	2.70E-01	3575.25	11	9	7.43E-02
3310.34	11	11	3.78E-02	3476.85	7	9	3.21E-02	3575.37	5	5	3.06E-01
3310.49	7	9	6.17E-02	3485.34	5	3	1.30E-01	3576.76	11	9	8.8E-02
3314.74	5	7	7.25E-01	3489.67	11	13	7.47E-02	3578.38	1	3	7.82E-02
3319.25	9	9	3.73E-02	3490.57	7	7	6.14E-02	3581.19	11	13	1.02E+00
3322.47	9	11	8.21E-02	3495.29	9	7	9.46E-02	3581.65	11	9	3.21E-02
3323.74	5	5	2.8E-01	3497.10	7	7	9.02E-02	3581.81	3	5	8.68E-02
3328.87	11	11	2.21E-01	3500.56	7	5	5.28E-02	3582.20	13	11	2.35E-01
3335.77	3	5	7.48E-02	3505.06	5	3	1.77E-01	3584.66	11	11	3.29E-01
3336.26	9	9	4.91E-02	3506.50	5	5	7.35E-02	3584.79	7	5	1.56E-01
3337.67	11	9	6.06E-02	3508.47	9	11	6.46E-02	3584.96	11	9	6.74E-01
3340.56	5	5	4.95E-02	3513.82	11	11	3.40E-02	3585.19	11	9	3.19E-02
3341.91	11	11	3.02E-02	3516.41	7	9	3.6E-02	3585.32	7	7	1.17E-01
3342.29	3	3	9.42E-02	3516.56	7	5	6.82E-02	3585.71	9	9	3.75E-02
3347.93	5	5	4.91E-02	3521.26	9	9	6.14E-02	3586.11	13	11	7.02E-01
3354.06	1	3	1.34E-01	3522.27	11	11	5.03E-02	3586.74	13	13	3.62E-02
3355.23	9	9	2.59E-01	3522.90	5	7	3.51E-02	3586.98	5	5	1.66E-01
3369.55	9	9	2.15E-01	3523.31	5	3	1.06E-01	3587.24	7	9	7.73E-02
3370.78	11	11	2.89E-01	3524.07	7	5	9.9E-02	3588.53	9	7	7.21E-02
3380.11	7	7	1.66E-01	3524.24	5	7	5.04E-02	3588.61	11	11	1.19E-01
3383.69	5	3	8.33E-02	3526.17	7	7	4.14E-02	3588.92	5	3	2.15E-01
3383.98	7	7	6.52E-02	3526.24	7	9	1.70E-01	3589.45	9	7	1.05E-01
3392.30	5	5	9.93E-02	3526.38	7	7	4.13E-01	3594.63	9	9	3.14E-01
3392.65	7	7	1.88E-01	3526.47	5	5	1.29E-01	3595.30	5	5	8.21E-02
3394.58	5	3	8.70E-02	3526.67	5	5	5.26E-01	3597.02	5	3	1.8E-01
3399.33	5	5	2.76E-01	3527.79	9	9	2.17E-01	3599.63	11	9	2.33E-01
3402.26	13	13	2.19E-01	3529.82	3	3	7.75E-01	3602.46	7	7	1.02E-01
3403.29	5	7	3.98E-02	3530.39	13	13	4.65E-02	3602.53	7	5	2.12E-01
3404.35	5	7	1.09E-01	3533.01	1	3	8.52E-01	3603.20	11	11	2.59E-01
3406.44	3	5	2.7E-01	3533.20	3	5	8.25E-01	3603.82	3	3	1.70E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3605.45	9	9	4.66E-01	3689.46	9	9	3.70E-01	3781.94	5	7	3.8E-02
3605.50	13	11	2.12E-01	3690.45	1	3	1.22E-01	3785.95	11	13	4.14E-02
3606.68	11	13	8.29E-01	3690.73	11	11	2.99E-01	3786.19	5	5	1.3E-01
3608.14	9	11	6.22E-02	3694.01	5	7	8.35E-01	3787.16	5	5	9.9E-02
3608.86	3	5	8.13E-01	3695.05	7	9	2.01E-01	3787.88	3	5	1.29E-01
3610.16	13	13	5.90E-01	3697.43	7	7	1.94E-01	3789.18	9	11	2.16E-02
3610.69	5	3	1.05E-01	3698.60	5	7	3.6E-02	3789.82	9	7	4.1E-02
3612.07	11	13	1.11E-01	3699.14	5	7	4.9E-02	3793.48	7	7	7.92E-02
3613.44	7	7	7.0E-02	3701.09	7	9	6.35E-01	3794.34	9	11	4.15E-02
3617.79	5	7	7.09E-01	3702.03	3	1	3.7E-01	3795.00	5	7	1.15E-01
3618.30	11	9	4.89E-02	3703.55	7	7	3.84E-02	3797.51	13	13	4.57E-01
3618.39	9	9	8.88E-02	3703.69	9	11	6.31E-02	3798.51	9	11	3.23E-02
3618.77	5	7	7.22E-01	3703.82	1	3	1.02E-01	3799.55	7	9	7.31E-02
3621.46	9	11	4.45E-01	3704.46	11	9	1.42E-01	3801.68	5	7	6.26E-02
3621.72	11	9	1.07E-01	3707.92	7	5	3.32E-01	3801.98	11	13	3.7E-02
3622.00	7	7	5.14E-01	3709.25	9	7	1.56E-01	3802.28	5	5	5.63E-02
3623.19	13	13	6.68E-02	3711.22	7	9	3.62E-02	3804.01	11	9	4.6E-02
3625.14	11	9	8.15E-02	3711.41	3	5	1.28E-01	3805.34	9	11	8.60E-01
3630.35	9	7	1.04E-01	3716.44	9	7	3.49E-01	3806.22	3	3	2.5E-01
3631.10	11	11	2.15E-01	3718.41	7	7	5.17E-02	3806.70	11	11	4.35E-01
3631.46	7	9	5.17E-01	3719.93	9	11	1.62E-01	3807.54	3	5	9.37E-02
3632.04	3	5	6.74E-01	3721.50	5	5	1.94E-01	3808.73	9	9	3.54E-02
3632.56	11	9	5.69E-02	3722.56	5	5	4.97E-02	3810.76	5	3	1.94E-01
3633.07	9	11	3.54E-02	3724.38	5	7	1.04E-01	3812.96	7	5	7.91E-02
3634.33	9	7	1.05E-01	3726.93	5	5	4.57E-01	3813.06	7	7	5.52E-02
3636.22	5	7	2.20E-01	3727.09	9	7	1.71E-01	3813.88	13	11	6.62E-02
3637.87	9	9	5.9E-02	3727.62	7	5	2.24E-01	3815.84	9	7	1.12E+00
3638.30	7	9	2.36E-01	3727.81	7	5	1.91E-01	3816.34	5	7	4.16E-02
3640.39	9	11	3.57E-01	3730.39	9	11	9.73E-02	3817.64	11	11	7.7E-02
3644.80	7	5	8.3E-02	3730.46	7	9	3.09E-02	3819.49	7	5	4.9E-02
3645.07	9	9	2.91E-02	3730.95	5	7	3.50E-02	3820.43	11	9	6.67E-01
3645.82	1	3	4.87E-01	3732.40	5	5	2.69E-01	3821.18	11	13	5.54E-01
3647.42	3	3	3.38E-01	3734.86	11	11	9.01E-01	3821.83	5	5	7.30E-02
3647.84	9	11	2.91E-01	3735.32	9	9	2.70E-01	3825.88	9	7	5.97E-01
3649.51	11	9	3.94E-01	3737.13	7	9	1.41E-01	3827.82	7	5	1.05E+00
3650.03	7	7	2.26E-01	3738.31	11	13	3.44E-01	3829.45	3	3	1.32E-01
3650.28	11	11	6.15E-02	3740.24	7	9	1.3E-01	3833.31	9	9	4.68E-02
3651.47	7	9	5.83E-01	3742.62	9	9	6.75E-02	3834.22	7	5	4.52E-01
3655.46	5	5	1.18E-01	3743.36	5	3	2.60E-01	3836.33	5	5	3.29E-01
3659.52	9	9	6.31E-02	3743.47	11	11	6.05E-01	3839.26	9	9	2.35E-01
3664.54	7	9	4.68E-02	3744.10	5	3	3.17E-01	3840.44	5	3	4.70E-01
3666.24	11	9	3.87E-02	3745.56	5	7	1.15E-01	3841.05	5	3	1.36E+00
3667.25	9	7	1.3E-01	3746.93	7	7	2.33E-01	3843.26	9	7	3.70E-01
3668.21	7	9	3.2E-02	3748.26	3	5	9.15E-02	3845.70	5	7	5.89E-02
3669.15	9	7	8.03E-02	3748.96	9	11	1.48E-01	3845.99	9	7	4.5E-02
3669.52	9	7	2.34E-01	3749.49	9	9	7.63E-01	3846.41	11	9	1.68E-01
3670.02	3	5	8.60E-02	3753.61	7	5	1.22E-01	3846.80	7	7	6.20E-01
3670.09	11	13	7.20E-02	3756.94	11	11	2.2E-01	3849.97	3	1	6.05E-01
3674.76	5	3	7.91E-02	3757.45	5	3	8.26E-02	3852.57	7	9	3.26E-02
3676.31	9	11	4.63E-02	3758.23	7	7	6.34E-01	3854.37	9	7	5.07E-02
3677.31	5	7	2.28E-01	3759.15	13	11	4.55E-02	3856.37	7	5	4.64E-02
3677.63	7	5	6.08E-01	3760.05	13	15	4.47E-02	3859.21	13	11	7.25E-02
3682.17	7	5	1.04E-01	3760.53	3	5	5.50E-02	3859.91	9	9	9.69E-02
3682.24	5	5	1.5E+00	3762.20	9	11	2.4E-02	3865.52	3	3	1.55E-01
3684.11	9	7	2.97E-01	3763.79	5	5	5.44E-01	3867.22	5	5	3.16E-01
3684.14	9	7	9.29E-02	3765.54	13	15	9.51E-01	3871.75	11	11	5.83E-02
3686.00	9	11	3.34E-01	3765.70	11	11	2.36E-02	3872.50	5	5	1.05E-01
3687.46	11	9	8.00E-02	3767.19	3	3	6.39E-01	3873.76	11	9	6.57E-02
3687.66	9	9	7.38E-02	3778.51	7	5	1.17E-01	3878.02	7	7	7.72E-02
3688.46	7	9	7.3E-02	3779.45	3	3	1.05E-01	3878.67	9	7	7.02E-02

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
3878.73	3	3	5.34E-01	3997.39	9	11	1.26E-01	4175.64	3	5	1.14E-01
3883.28	7	7	1.28E-01	3998.05	11	9	5.70E-02	4181.75	5	7	2.32E-01
3884.36	11	9	3.99E-02	4005.24	7	5	2.04E-01	4182.38	5	5	5.04E-02
3885.51	3	5	7.26E-02	4006.31	11	9	5.1E-02	4184.89	5	5	1.03E-01
3886.28	7	7	5.29E-02	4009.71	3	5	4.64E-02	4187.04	7	5	2.15E-01
3887.05	9	9	3.52E-02	4014.53	9	7	1.53E-01	4187.80	9	7	1.52E-01
3888.51	5	5	2.50E-01	4017.15	9	11	3.25E-02	4191.43	5	3	2.73E-01
3888.82	5	3	1.95E-01	4018.27	5	7	3.44E-02	4195.33	11	11	1.11E-01
3891.93	3	3	2.71E-01	4021.87	7	9	8.55E-02	4196.21	7	7	1.09E-01
3893.39	11	11	1.00E-01	4024.73	7	9	8.09E-02	4198.25	9	9	1.47E-01
3894.01	5	5	1.03E-01	4030.49	9	11	1.04E-01	4198.30	11	9	8.03E-02
3897.89	11	13	6.20E-02	4030.89	9	7	5.02E-02	4198.63	5	5	1.25E-01
3900.52	7	7	7.9E-02	4031.96	3	5	7.6E-02	4199.10	9	11	4.92E-01
3902.95	7	7	2.14E-01	4040.64	5	7	4.8E-02	4200.92	7	9	6.25E-02
3903.90	9	9	7.61E-02	4043.90	7	7	8.69E-02	4202.03	9	9	8.22E-02
3906.75	5	7	7.05E-02	4044.61	5	3	8.17E-02	4203.94	13	13	2.97E-02
3907.93	7	5	6.67E-02	4045.59	9	7	7.39E-02	4203.98	3	5	7.37E-02
3909.66	3	5	5.7E-02	4045.81	9	9	8.62E-01	4210.34	3	3	1.48E-01
3911.00	9	9	2.68E-02	4054.87	5	3	9.61E-02	4217.55	3	5	2.46E-01
3916.73	13	11	9.83E-02	4058.22	9	7	4.47E-02	4219.36	11	13	2.88E-01
3918.42	3	1	4.22E-01	4062.44	3	3	1.85E-01	4222.21	7	7	5.76E-02
3918.64	7	7	1.17E-01	4063.59	7	7	6.65E-01	4224.17	9	11	1.06E-01
3919.07	9	9	3.72E-02	4067.98	9	9	1.51E-01	4224.51	3	5	6.81E-02
3925.64	5	5	8.04E-02	4070.77	7	5	1.1E-01	4225.45	5	7	1.65E-01
3925.94	1	3	1.67E-01	4071.74	5	5	7.64E-01	4227.43	11	13	5.29E-01
3926.01	7	7	7.26E-02	4073.76	5	3	1.68E-01	4233.60	3	5	1.85E-01
3928.08	9	9	5.64E-02	4074.79	9	9	3.43E-02	4235.94	9	9	1.88E-01
3931.12	5	7	4.8E-02	4076.63	9	9	1.32E-01	4238.81	7	9	2.41E-01
3932.63	9	11	2.70E-02	4076.80	5	7	3.81E-02	4245.26	1	3	9.0E-02
3933.60	3	5	5.92E-02	4079.17	5	5	5.4E-02	4246.09	7	5	5.85E-02
3935.81	5	5	1.14E-01	4080.21	3	1	2.3E-01	4247.43	9	11	1.94E-01
3941.28	5	5	9.1E-02	4084.49	11	9	8.66E-02	4250.12	5	7	2.07E-01
3942.44	3	5	9.62E-02	4085.00	3	5	4.7E-02	4250.79	7	7	1.02E-01
3946.99	9	11	3.91E-02	4085.30	7	7	8.92E-02	4260.47	11	11	3.99E-01
3947.53	5	5	5.12E-02	4085.98	7	5	5.1E-02	4267.83	1	3	8.17E-02
3948.10	7	9	1.31E-01	4098.18	7	7	7.49E-02	4271.15	7	9	1.82E-01
3948.77	11	9	2.08E-01	4107.49	5	3	1.74E-01	4271.76	9	11	2.28E-01
3949.95	7	5	4.79E-02	4109.80	3	3	1.51E-01	4276.68	9	9	2.6E-02
3951.16	3	5	4.29E-01	4112.96	11	13	1.1E-01	4282.40	7	5	1.21E-01
3952.60	11	11	2.97E-02	4118.55	11	13	4.96E-01	4294.12	9	9	3.12E-02
3953.15	7	9	2.97E-02	4125.62	9	11	9.9E-02	4299.23	9	11	1.29E-01
3955.34	3	3	1.5E-01	4126.18	11	11	4.2E-02	4307.90	7	9	3.38E-01
3956.46	13	11	1.76E-01	4127.61	1	3	1.43E-01	4309.03	13	13	1.96E-02
3956.68	11	13	1.22E-01	4132.06	5	7	1.18E-01	4315.08	5	5	7.76E-02
3957.02	5	7	1.67E-01	4132.90	3	5	7.70E-02	4325.76	5	7	5.16E-01
3960.28	5	7	4.10E-02	4134.68	5	7	1.25E-01	4327.10	5	5	1.12E-01
3963.10	3	5	1.5E-01	4137.00	3	5	2.75E-01	4369.77	9	9	6.09E-02
3967.42	9	7	1.52E-01	4142.59	3	5	7.5E-02	4383.55	9	11	5.00E-01
3967.96	7	9	6.09E-02	4143.41	9	9	2.70E-01	4388.41	7	7	1.03E-01
3969.26	9	7	2.26E-01	4143.87	7	9	1.33E-01	4401.29	7	7	6.4E-02
3970.39	3	1	3.9E-01	4149.37	11	13	4.23E-02	4404.75	7	9	2.75E-01
3971.32	11	9	4.97E-02	4153.90	7	9	2.05E-01	4415.12	5	7	1.19E-01
3973.65	5	7	5.81E-02	4154.50	5	3	2.64E-01	4422.57	3	3	8.72E-02
3976.61	3	5	1.20E-01	4154.81	9	11	1.40E-01	4433.22	5	3	2.1E-01
3977.74	5	5	6.41E-02	4156.80	5	5	1.20E-01	4443.19	1	3	1.02E-01
3981.77	9	9	3.57E-02	4157.78	5	7	2.18E-01	4455.03	9	7	4.1E-02
3983.96	9	7	5.72E-02	4158.79	3	5	1.6E-01	4466.55	5	7	1.20E-01
3985.39	5	5	8.53E-02	4170.90	5	5	6.29E-02	4469.38	5	7	1.59E-01
3989.86	5	7	5.3E-02	4172.12	7	5	9.80E-02	4476.02	3	5	1.01E-01
3996.96	9	9	7.95E-02	4172.64	11	11	2.24E-02	4484.22	7	9	5.04E-02

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
4485.68	3	3	1.1E-01	5364.87	5	7	5.59E-01	22473.28	11	11	3.32E-02
4494.56	5	7	3.45E-02	5367.47	7	9	7.13E-01	23566.67	9	11	2.21E-02
4528.61	7	9	5.44E-02	5369.96	9	11	7.22E-01	24547.95	11	9	3.72E-02
4547.85	5	7	4.48E-02	5373.71	7	9	3.7E-02	24729.10	13	11	5.08E-02
4556.13	7	5	1.05E-01	5383.37	11	13	7.81E-01				
4619.29	7	5	5.2E-02	5393.17	7	9	4.91E-02	<i>Fe II</i>			
4638.01	7	7	3.37E-02	5398.28	5	5	9.0E-02	1055.26	10	8	4.6E-01
4654.61	7	7	3.68E-02	5404.15	9	11	6.92E-01	1063.97	10	8	3.5E-01
4667.45	7	9	6.03E-02	5410.91	7	9	6.33E-01	1068.35	8	8	1.59E+00
4673.16	5	7	3.81E-02	5415.20	11	13	7.67E-01	1071.58	6	8	1.14E+00
4678.85	7	9	4.97E-02	5463.28	9	9	2.9E-01	1096.88	10	8	2.26E+00
4736.77	9	11	4.78E-02	5473.90	7	7	5.2E-02	1112.05	10	12	2.0E-01
4789.65	5	7	4.57E-02	5476.29	7	9	2.87E-02	1121.97	10	8	1.92E+00
4800.65	7	9	3.01E-02	5476.56	9	9	8.70E-02	1122.84	8	6	1.81E+00
4859.74	5	3	1.62E-01	5563.60	5	7	3.4E-02	1125.45	10	8	1.03E+00
4871.32	7	5	2.44E-01	5569.62	5	3	2.34E-01	1127.10	10	10	5.9E-02
4872.14	3	3	2.54E-01	5572.84	7	5	2.28E-01	1128.05	2	4	1.40E+00
4878.21	1	3	1.21E-01	5576.09	3	1	2.5E-01	1130.44	6	8	3.1E-01
4890.76	5	5	2.25E-01	5586.76	9	7	2.19E-01	1133.40	8	10	2.6E-01
4891.49	9	7	3.08E-01	5594.66	9	9	5.20E-02	1133.67	10	8	3.1E-01
4903.31	3	5	6.58E-02	5602.95	3	3	1.00E-01	1138.63	8	8	5.5E-01
4918.99	7	7	1.79E-01	5615.64	11	9	2.64E-01	1142.37	10	8	2.6E-01
4920.50	11	9	3.58E-01	5624.54	5	5	7.41E-02	1143.23	10	10	9.8E-01
4957.30	9	9	1.18E-01	5633.95	11	13	7.7E-02	1144.94	10	12	3.52E+00
4957.60	13	11	4.22E-01	5638.26	9	7	4.4E-02	1147.41	8	8	1.24E+00
4966.09	11	11	3.31E-02	5649.99	3	5	5.1E-02	1148.28	8	10	3.35E+00
4973.10	3	3	1.1E-01	5655.18	7	9	4.7E-02	1151.15	6	8	2.23E+00
4978.60	5	3	1.19E-01	5658.82	7	7	4.34E-02	1267.42	8	6	9.3E-01
4985.25	5	5	1.48E-01	5662.52	11	9	6.18E-02	1272.61	6	4	3.3E-01
4988.95	7	7	5.2E-02	5679.02	5	7	3.7E-02	1272.65	6	4	2.2E-01
5001.86	9	7	3.7E-01	5686.53	9	11	6.71E-02	1371.02	14	12	1.74E+00
5006.12	11	11	5.87E-02	5705.99	7	9	6.1E-02	1563.79	8	8	1.33E+00
5014.94	7	5	2.64E-01	5753.12	3	5	8.26E-02	1580.63	8	10	5.8E-01
5021.59	7	9	6.18E-02	5762.99	5	7	9.6E-02	1588.69	10	8	4.9E-03
5022.24	5	3	2.4E-01	5816.37	9	11	4.49E-02	1608.45	10	8	1.91E+00
5048.44	3	5	4.88E-02	5905.67	5	3	1.1E-01	1608.54	10	8	2.1E-02
5068.77	9	7	3.37E-02	6301.50	5	5	6.43E-02	1610.92	10	10	1.94E-01
5074.75	9	11	1.4E-01	6400.00	7	9	9.27E-02	1611.20	10	8	4.40E-02
5090.77	7	5	1.9E-01	6411.65	5	7	4.43E-02	1618.47	8	8	5.53E-01
5121.64	5	5	7.9E-02	6419.95	7	7	1.2E-01	1621.25	8	8	1.3E-02
5137.38	11	9	1.0E-01	6469.19	3	3	8.3E-02	1621.69	8	6	1.32E+00
5139.25	7	5	9.16E-02	6496.47	5	5	7.8E-02	1623.09	8	8	1.99E-01
5139.46	9	9	8.69E-02	6569.22	7	9	6.0E-02	1625.52	8	10	4.04E-01
5184.27	5	7	3.8E-02	6633.75	7	7	3.44E-02	1625.91	6	8	1.02E-01
5191.46	5	3	2.32E-01	6841.34	5	7	3.4E-02	1629.16	6	6	8.66E-01
5192.34	7	7	1.34E-01	6855.16	7	9	2.86E-02	1631.13	6	4	6.93E-01
5208.59	7	5	6.23E-02	7187.32	9	11	8.36E-02	1633.91	6	8	3.85E-01
5215.18	5	3	1.10E-01	7511.02	11	11	1.35E-01	1634.35	4	6	3.21E-01
5226.86	5	5	1.36E-01	8220.38	13	11	1.69E-01	1635.40	8	6	2.28E+00
5232.94	9	11	1.94E-01	8699.45	7	9	4.08E-02	1636.33	4	4	9.63E-01
5235.39	9	7	3.75E-02	9012.07	11	9	4.46E-02	1637.40	10	8	3.57E-01
5242.49	13	11	2.38E-02	9401.11	9	11	2.64E-02	1639.40	2	4	6.85E-01
5263.31	5	5	6.36E-02	9414.04	7	9	3.98E-02	1641.76	6	4	1.76E+00
5266.56	7	9	1.10E-01	9443.80	5	7	6.39E-02	1647.16	6	6	4.98E-01
5273.16	1	3	8.12E-02	9569.91	11	11	2.50E-02	1661.32	10	8	1.2E-02
5281.79	5	7	5.00E-02	9626.50	9	9	4.51E-02	1663.70	6	8	9.9E-03
5283.62	7	7	1.02E-01	9738.57	11	13	7.64E-02	1670.75	10	8	1.06E+00
5302.30	3	5	9.04E-02	9763.38	3	5	5.42E-02	1676.86	8	8	6.75E-02
5324.18	9	9	2.06E-01	9861.74	7	9	5.49E-02	1688.40	6	8	2.53E-02
5339.93	5	7	6.36E-02	9889.04	9	11	2.22E-02	1702.04	10	12	1.02E+00

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
1761.37	8	8	1.42E+00	2352.31	2	4	4.38E+00	2412.01	6	8	1.66E-01
1785.27	6	8	1.2E+01	2353.47	12	14	4.98E+00	2413.31	2	4	1.02E+00
1786.75	6	6	1.2E+01	2353.68	8	8	1.30E+00	2414.10	14	12	1.05E-02
1788.08	6	4	4.6E+00	2354.48	10	8	8.13E-01	2414.51	10	8	4.2E-03
1796.98	6	8	3.0E-03	2354.89	6	4	2.67E-01	2416.45	8	10	2.38E+00
1818.52	8	8	5.70E-02	2356.21	6	8	7.1E-03	2417.87	12	12	9.5E-01
1833.08	6	8	2.2E-02	2359.11	4	6	5.0E-01	2418.17	6	8	2.0E-02
1863.11	6	8	2.4E-03	2359.60	10	10	2.25E-01	2418.44	6	8	2.28E+00
2020.75	6	8	1.83E-01	2360.00	10	10	3.59E-01	2419.89	10	10	2.2E-02
2057.33	6	8	2.80E-02	2360.29	8	6	6.23E-01	2422.69	6	8	1.46E+00
2074.19	10	8	2.30E-02	2360.53	6	8	2.22E-01	2422.93	10	8	2.94E-02
2078.16	10	10	2.84E-02	2361.73	8	8	2.40E-01	2423.21	4	6	1.40E+00
2097.02	8	8	1.07E-02	2362.02	8	8	1.41E-01	2424.15	10	12	2.21E+00
2122.45	10	8	4.8E-03	2363.86	8	10	5.3E+00	2424.39	6	8	1.61E-01
2146.37	8	8	7.1E-03	2364.83	8	8	5.90E-01	2424.50	8	8	2.9E-03
2162.02	10	10	2.54E-01	2365.76	6	6	2.16E+00	2424.59	6	6	1.24E+00
2182.36	10	8	8.6E-02	2366.59	6	6	1.01E-01	2424.65	8	8	6.55E-02
2187.68	8	8	2.87E-02	2366.88	8	10	3.51E-02	2428.08	12	10	7.0E-03
2189.03	10	10	1.97E-02	2368.60	6	4	6.06E-01	2428.36	8	10	2.68E+00
2191.98	8	8	7.54E-01	2369.95	10	12	5.9E+00	2428.80	4	4	1.38E+00
2201.59	6	8	7.77E-01	2370.50	4	4	1.73E-01	2429.04	2	4	1.23E+00
2208.41	10	10	1.59E+00	2372.36	10	8	6.6E-03	2429.39	4	4	6.9E-01
2209.03	10	8	1.27E+00	2373.74	10	10	4.25E-01	2429.86	8	8	1.51E+00
2213.66	14	14	3.26E-01	2375.19	4	2	9.81E-01	2430.08	8	10	1.91E+00
2218.26	8	10	1.57E+00	2376.43	12	14	6.4E+00	2432.26	6	8	1.57E+00
2220.38	12	12	4.19E-01	2378.55	8	8	1.70E-01	2432.87	14	14	2.86E+00
2228.73	6	8	1.59E+00	2378.70	8	8	1.49E-01	2433.50	10	12	1.30E-01
2249.18	10	8	3.00E-02	2379.28	8	8	2.73E-01	2434.06	8	6	7.2E-01
2250.18	4	4	1.67E-02	2379.42	10	10	3.68E-01	2434.24	8	10	2.01E+00
2250.94	6	6	3.19E-02	2380.76	6	8	3.10E-01	2434.73	12	12	2.79E+00
2251.56	8	6	9.8E-03	2382.04	10	12	3.13E+00	2434.95	4	6	1.39E+00
2253.13	8	8	4.41E-02	2382.36	4	6	3.19E-02	2435.00	8	8	2.02E+00
2254.41	4	2	5.5E-03	2382.90	12	14	1.62E-01	2436.62	6	8	2.70E+00
2255.77	6	4	4.75E-01	2383.06	8	6	1.0E-01	2439.30	12	14	2.25E+00
2260.08	10	10	3.18E-02	2383.24	6	6	3.59E-01	2440.42	6	8	1.18E+00
2260.24	2	2	3.4E-02	2384.39	4	4	3.22E-01	2441.13	10	10	8.95E-01
2260.86	4	6	2.16E-02	2385.01	6	8	3.60E-02	2442.38	10	12	2.75E+00
2262.69	4	4	1.98E-02	2388.39	10	12	2.02E-01	2443.71	8	10	1.44E+00
2266.00	6	6	1.0E-02	2388.63	8	8	1.05E+00	2444.52	6	8	2.78E+00
2267.59	6	8	3.69E-02	2390.10	14	16	5.5E+00	2445.11	12	12	2.03E+00
2268.56	2	4	6.0E-03	2390.76	6	6	1.17E+00	2445.57	4	6	2.07E+00
2268.82	8	8	3.97E-03	2391.48	8	10	3.77E-02	2445.80	4	6	1.23E+00
2279.92	8	10	4.49E-02	2394.00	12	10	9.4E-02	2446.11	8	8	1.06E+00
2292.42	12	10	8.42E-03	2395.42	6	4	2.67E-01	2446.47	12	14	2.99E-01
2296.88	6	8	1.82E-02	2395.63	8	10	2.59E+00	2447.21	6	6	1.15E+00
2312.22	10	8	9.3E-03	2396.72	10	12	2.15E-01	2447.33	4	2	2.56E+00
2327.40	6	4	6.55E-01	2399.24	6	6	1.39E+00	2447.76	12	10	1.97E+00
2327.88	10	12	1.08E+00	2400.05	12	14	4.57E+00	2449.96	4	4	1.24E+00
2331.31	10	8	3.17E-01	2401.29	6	8	1.89E+00	2450.21	2	4	1.26E+00
2332.80	8	6	1.31E+00	2402.45	10	10	5.8E-01	2453.98	8	10	1.31E+00
2338.01	4	4	1.13E+00	2402.60	6	8	2.17E-02	2454.58	14	12	1.16E+00
2338.54	10	12	5.6E-02	2402.63	8	8	8.19E-01	2455.71	8	8	1.01E+00
2343.50	10	8	1.73E+00	2404.43	4	2	6.44E-01	2455.90	4	6	1.73E+00
2343.96	8	6	3.13E-01	2404.89	6	8	1.96E+00	2457.10	6	4	4.71E-01
2344.28	2	4	9.27E-01	2406.09	6	8	2.05E-02	2458.78	10	12	2.31E+00
2345.34	14	12	7.3E-01	2406.66	4	4	1.61E+00	2458.97	6	4	2.51E+00
2348.12	10	8	6.50E-01	2410.27	8	8	7.65E-01	2460.44	10	12	5.39E+00
2348.30	6	6	1.15E+00	2410.52	4	6	1.55E+00	2461.28	6	8	2.34E+00
2351.20	12	10	7.19E-01	2411.07	2	2	2.37E+00	2461.86	8	10	2.43E+00
2351.67	6	6	1.80E+00	2411.81	10	12	4.33E+00	2463.28	12	10	7.1E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2464.01	10	8	1.32E+00	2525.92	8	8	7.4E-01	2559.93	6	8	2.47E-01
2464.91	6	4	2.22E+00	2526.08	10	8	3.52E-01	2560.28	4	4	1.77E+00
2465.91	8	6	1.62E+00	2526.29	6	6	2.47E+00	2561.59	10	10	1.1E-02
2466.50	2	4	2.40E+00	2527.10	12	10	3.67E-01	2562.09	4	2	1.62E+00
2466.67	4	2	2.64E+00	2527.71	10	8	9.1E-01	2562.54	8	6	1.79E+00
2466.82	6	4	1.77E+00	2528.68	10	8	2.3E-02	2563.48	6	4	1.51E+00
2468.30	10	10	9.8E-02	2529.08	4	6	1.80E+00	2566.22	8	10	2.61E+00
2469.37	10	8	2.23E-02	2529.23	12	10	3.27E-01	2566.40	8	6	2.29E+00
2469.52	8	6	2.58E+00	2529.55	10	10	2.20E+00	2566.62	10	12	7.1E-02
2470.41	6	6	6.0E-01	2530.10	4	6	6.6E-01	2566.91	4	2	1.15E+00
2470.67	8	6	1.54E+00	2533.63	12	12	1.92E+00	2568.41	2	4	4.77E-01
2470.85	8	8	5.4E-03	2534.42	8	8	1.83E+00	2568.89	8	8	2.8E-02
2471.28	10	8	4.15E-01	2535.36	6	4	2.46E+00	2569.78	2	4	1.11E+00
2472.61	8	10	3.22E+00	2535.49	10	8	7.47E-01	2570.55	6	8	1.1E-03
2473.32	2	2	2.74E+00	2536.67	12	12	5.7E-01	2570.85	8	6	1.84E+00
2475.12	4	6	3.72E+00	2536.81	10	10	1.69E+00	2571.55	10	10	2.89E-02
2475.54	6	8	3.18E+00	2536.84	12	14	6.8E-01	2572.97	6	8	7.89E-02
2476.27	8	10	9.7E-02	2537.14	10	10	1.44E+00	2573.21	8	10	1.42E-01
2477.35	8	8	1.70E-01	2538.21	14	12	1.26E+00	2573.76	8	8	2.3E-02
2478.57	6	6	9.1E-01	2538.40	6	8	3.7E-02	2574.37	6	4	2.43E+00
2480.16	10	8	1.55E+00	2538.50	8	6	5.9E-01	2576.86	10	12	1.32E+00
2481.05	12	12	1.46E-01	2538.68	6	8	7.4E-01	2577.43	6	8	7.8E-03
2482.12	14	14	6.5E-01	2538.91	10	8	1.28E+00	2577.92	2	2	1.24E+00
2482.33	4	4	2.23E+00	2538.99	14	12	1.93E+00	2580.72	8	6	2.2E-02
2482.66	12	10	1.25E+00	2539.81	8	8	5.6E-02	2581.11	6	6	7.61E-02
2482.87	6	4	1.69E+00	2540.52	2	2	1.26E+00	2582.41	6	8	2.22E-01
2483.72	8	10	5.4E-01	2540.66	6	8	1.70E+00	2582.58	4	4	8.80E-01
2484.24	4	6	8.3E-02	2541.10	8	6	9.6E-01	2583.05	8	10	2.16E-02
2484.44	8	8	2.16E+00	2541.84	8	6	8.2E-01	2583.35	8	10	9.0E-03
2489.11	4	4	2.6E-02	2542.32	4	2	3.9E-03	2585.62	10	10	3.09E-01
2489.48	12	12	5.1E-01	2542.74	2	2	1.61E+00	2585.88	10	8	8.94E-01
2489.83	12	12	1.94E+00	2543.38	10	12	6.7E-01	2586.06	6	4	5.8E-02
2490.71	10	12	1.44E+00	2543.43	6	4	8.3E-01	2587.95	8	10	1.69E+00
2490.86	8	8	8.8E-01	2544.97	4	6	3.93E-01	2588.19	2	2	1.5E-01
2491.40	10	8	1.01E+00	2545.22	8	10	5.3E-01	2588.80	8	8	8.4E-02
2492.34	10	12	2.30E-01	2545.44	8	10	1.52E-01	2590.55	4	6	7.9E-02
2493.26	14	16	3.04E+00	2545.53	8	10	1.2E-02	2591.54	6	6	5.72E-01
2493.88	6	6	1.74E+00	2546.67	8	8	7.98E-01	2592.79	14	16	2.74E+00
2494.12	12	10	2.97E-02	2547.34	8	8	2.28E-01	2593.73	2	4	1.63E-01
2497.68	10	12	8.4E-03	2548.16	6	8	8.0E-03	2594.96	8	8	1.0E-01
2497.82	6	6	1.68E+00	2548.32	4	6	2.69E-01	2595.28	12	10	1.67E-03
2500.92	6	8	2.41E+00	2548.59	10	10	2.67E-01	2595.30	10	8	1.2E-02
2501.35	2	2	1.48E+00	2548.74	4	2	2.43E+00	2598.37	8	6	1.43E+00
2502.39	8	8	1.43E+00	2548.92	12	10	6.0E-01	2599.40	10	10	2.35E+00
2503.33	12	12	7.3E-01	2549.08	10	8	1.89E+00	2604.05	8	8	1.49E-01
2503.54	8	8	3.32E-01	2549.40	4	4	1.65E+00	2604.67	8	10	1.2E-02
2503.57	10	10	2.53E-01	2549.46	6	6	1.12E+00	2605.04	6	8	2.34E+00
2503.88	10	10	2.23E+00	2549.77	8	6	2.35E-01	2605.31	4	4	1.99E+00
2506.09	10	10	9.9E-01	2550.03	10	10	1.74E+00	2605.43	6	6	3.40E-01
2506.80	8	10	1.98E+00	2550.15	8	10	3.91E-01	2605.90	4	2	1.27E+00
2508.34	8	10	3.79E-01	2550.57	12	12	1.6E-02	2606.52	6	6	2.31E+00
2510.57	8	8	1.54E-01	2550.68	12	12	1.07E+00	2607.09	6	4	1.73E+00
2511.76	8	10	2.30E+00	2551.20	10	8	2.48E-01	2608.85	10	8	5.0E-02
2513.15	10	8	2.49E-01	2554.94	8	8	2.6E-02	2609.13	8	10	2.77E-01
2514.38	8	8	2.11E+00	2555.07	6	8	1.96E-01	2609.44	6	8	6.0E-02
2517.14	2	4	9.2E-01	2555.45	4	6	2.49E-01	2609.87	8	8	1.34E-01
2519.05	8	6	2.10E+00	2557.08	8	10	2.8E-02	2611.07	4	6	7.28E-02
2521.09	6	4	2.05E+00	2557.51	10	8	1.53E-01	2611.34	8	6	1.4E-02
2521.82	8	8	2.36E+00	2559.24	8	8	6.4E-02	2611.87	8	8	1.20E+00
2525.39	14	14	1.91E+00	2559.77	6	8	2.42E-01	2613.57	10	12	2.0E-02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2613.82	4	2	2.12E+00	2699.20	4	4	6.2E-01	2770.50	12	10	4.08E-02
2614.19	8	10	3.3E-02	2703.99	8	8	1.38E+00	2771.19	10	12	4.3E-02
2614.59	10	8	3.37E-02	2704.58	8	8	1.66E-02	2771.56	6	4	1.9E-02
2614.87	8	6	3.5E-02	2707.13	4	6	8.3E-01	2772.73	6	8	1.1E-03
2617.62	6	6	4.88E-01	2709.06	4	6	3.88E-01	2774.69	2	4	2.73E-01
2619.08	10	10	2.48E-01	2709.38	6	4	2.78E-03	2775.34	6	6	1.5E-04
2620.17	6	6	1.1E-01	2709.99	6	8	8.7E-03	2776.18	6	8	2.66E-02
2620.41	4	4	4.30E-02	2711.84	12	14	4.36E-01	2776.91	8	8	4.08E-01
2620.70	8	8	3.43E-01	2712.39	10	12	1.29E-01	2779.30	10	8	1.00E+00
2621.67	2	2	5.60E-01	2714.41	8	6	5.70E-01	2779.91	2	4	2.56E-01
2623.13	14	14	8.8E-02	2716.22	6	6	1.15E+00	2780.05	2	2	3.3E-01
2623.72	6	6	1.92E-01	2716.44	6	6	2.8E-02	2783.69	12	10	1.06E+00
2625.49	12	14	2.55E+00	2716.57	14	12	1.35E+00	2784.28	2	4	3.4E-02
2625.67	8	10	3.52E-01	2716.70	8	8	1.02E-03	2785.19	12	10	1.53E+00
2626.50	4	6	3.48E-01	2717.88	16	14	1.51E+00	2787.24	8	6	1.83E-01
2626.70	8	8	1.94E-02	2718.64	10	8	1.18E+00	2790.56	8	10	2.1E-02
2628.29	2	4	8.74E-01	2719.30	6	8	4.44E-01	2793.89	10	12	1.26E-01
2628.58	6	6	3.4E-02	2721.81	12	10	5.1E-02	2796.63	10	10	2.0E-01
2629.59	6	8	7.2E-01	2722.06	8	8	1.42E-01	2797.92	10	10	3.2E-02
2630.07	4	6	5.1E-01	2722.74	6	8	8.2E-01	2799.29	10	8	1.55E-01
2631.05	4	6	8.16E-01	2724.88	6	6	9.58E-02	2799.72	10	10	5.0E-03
2631.32	6	8	6.29E-01	2726.52	6	8	5.0E-02	2804.02	6	6	1.6E-02
2631.61	10	12	6.6E-01	2727.38	12	10	3.12E-01	2805.32	4	6	2.5E-02
2633.20	6	4	1.21E+00	2727.54	6	4	9.38E-01	2805.79	8	8	3.22E-02
2636.70	4	4	8.8E-02	2728.91	8	10	1.25E-01	2809.78	8	8	3.10E-01
2637.50	6	6	6.2E-01	2730.73	4	4	2.79E-01	2811.27	12	10	1.2E-02
2637.64	2	4	6.6E-01	2732.01	10	8	7.05E-02	2812.49	4	4	2.9E-02
2639.57	2	2	8.0E-01	2732.45	10	10	9.8E-04	2813.61	8	10	3.40E-02
2641.12	4	4	3.7E-02	2732.94	8	6	9.5E-01	2817.09	6	4	3.37E-01
2642.01	6	6	2.29E-01	2736.49	2	4	1.5E-02	2819.34	12	12	9.7E-03
2646.21	12	10	1.44E-02	2736.97	4	2	1.22E+00	2826.03	8	6	4.5E-02
2649.47	6	8	1.98E+00	2739.55	8	8	2.21E+00	2827.43	12	14	2.4E-02
2650.48	6	8	1.60E+00	2741.39	6	6	2.03E-01	2828.63	12	10	6.9E-02
2651.30	12	12	4.0E-03	2743.20	2	4	1.97E+00	2831.56	4	6	7.6E-01
2652.57	10	8	4.45E-02	2744.90	6	8	3.62E-02	2833.09	6	6	4.55E-01
2654.63	4	4	8.1E-01	2746.48	4	6	2.05E+00	2835.71	4	6	5.1E-01
2657.92	10	10	3.2E-02	2746.98	6	6	1.69E+00	2836.19	4	4	5.4E-02
2658.25	8	8	2.12E-01	2749.18	4	4	1.21E+00	2836.51	2	4	9.8E-02
2659.06	10	10	2.5E-03	2749.32	6	8	2.16E+00	2837.30	10	12	1.9E-02
2662.56	2	2	1.33E+00	2749.49	2	2	1.16E+00	2838.22	4	2	8.6E-01
2664.66	8	10	1.91E+00	2750.01	10	10	1.8E-02	2839.51	10	8	1.47E+00
2666.64	6	8	1.87E+00	2751.13	4	4	2.92E-01	2839.80	8	10	5.8E-01
2667.22	4	6	1.02E+00	2752.15	4	4	7.7E-01	2840.34	12	12	7.7E-02
2669.93	2	4	5.2E-01	2753.29	10	12	1.89E+00	2840.65	2	4	7.6E-01
2670.38	6	8	6.0E-02	2754.89	8	6	1.21E+00	2840.76	10	12	1.49E-01
2671.39	2	4	6.5E-01	2755.74	8	10	2.15E+00	2841.36	10	10	4.3E-03
2680.23	6	8	1.10E-01	2756.51	6	8	7.3E-02	2842.08	8	8	1.5E-02
2682.51	8	10	9.2E-01	2757.03	10	8	8.07E-02	2843.32	10	10	1.40E-02
2683.00	4	6	7.3E-01	2759.33	8	8	2.7E-04	2843.48	4	6	9.6E-02
2684.75	8	10	1.57E+00	2761.81	2	4	1.38E-01	2844.96	2	2	5.5E-01
2684.96	12	12	6.4E-03	2762.33	6	6	6.0E-01	2845.60	8	6	1.57E+00
2686.11	6	6	9.4E-03	2762.45	6	4	3.3E-02	2847.21	8	6	1.7E-04
2686.39	6	4	1.6E-02	2763.66	14	12	1.34E+00	2847.77	4	4	5.1E-01
2691.74	10	8	5.04E-02	2763.91	8	6	2.9E-02	2848.11	6	6	9.9E-01
2692.60	10	12	1.40E+00	2764.79	12	12	1.1E-02	2848.32	6	4	1.59E+00
2692.83	8	6	1.64E-02	2765.13	10	8	1.47E+00	2848.91	12	10	5.3E-02
2693.86	8	6	4.2E-02	2767.50	12	14	1.58E+00	2849.61	10	12	4.6E-02
2697.33	4	4	2.48E-01	2768.93	4	6	4.75E-02	2852.87	2	4	1.65E-02
2697.46	4	2	1.65E+00	2769.15	8	10	6.6E-02	2853.21	6	6	2.3E-02
2697.73	10	8	2.6E-02	2769.35	12	14	2.07E-01	2855.67	8	10	9.2E-02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2856.15	10	10	5.0E-02	2975.94	2	2	9.1E-03	3210.44	2	4	3.63E-02
2856.38	6	8	4.42E-01	2978.85	10	10	7.2E-03	3211.08	6	8	2.1E-03
2856.91	8	8	1.32E+00	2979.35	2	4	1.61E-02	3213.31	4	6	6.12E-02
2857.17	6	8	1.22E-01	2980.96	6	8	1.1E-02	3227.74	6	8	8.9E-02
2857.42	6	6	2.0E-02	2982.06	4	6	2.41E-01	3231.71	6	8	1.4E-02
2858.34	10	12	4.85E-01	2984.82	6	6	4.29E-01	3232.78	8	6	5.0E-02
2861.17	4	4	1.7E-03	2985.54	2	4	2.39E-01	3237.40	4	4	1.8E-02
2864.97	8	8	4.3E-02	2997.30	6	8	8.6E-02	3237.82	2	4	6.8E-02
2868.87	6	6	7.3E-03	2998.85	6	8	4.2E-03	3241.69	8	8	1.9E-03
2869.16	8	10	1.4E-02	3000.06	8	6	3.0E-02	3243.72	10	8	5.1E-02
2869.31	4	6	4.04E-01	3002.32	6	8	2.0E-02	3247.17	4	6	7.1E-02
2869.70	8	6	1.1E-02	3002.65	4	6	1.79E-01	3247.39	8	8	6.0E-03
2870.61	8	10	7.5E-03	3004.26	8	8	8.6E-03	3255.89	8	8	2.78E-03
2871.06	10	12	2.2E-02	3020.01	12	10	6.4E-04	3257.36	8	6	1.5E-03
2871.13	12	10	3.0E-02	3021.42	8	6	3.8E-03	3258.77	6	8	9.39E-02
2872.38	10	8	1.70E-01	3036.96	6	6	2.22E-01	3259.05	8	10	6.7E-02
2873.40	8	10	4.56E-01	3044.84	8	10	1.2E-02	3266.94	10	10	4.5E-03
2875.35	8	10	1.35E-01	3048.99	4	4	3.84E-01	3267.04	8	10	2.0E-04
2876.80	8	8	9.56E-02	3056.80	14	12	1.7E-02	3268.51	8	6	6.8E-03
2879.25	10	8	3.6E-02	3062.24	12	10	1.36E-01	3269.77	10	8	5.2E-03
2880.76	8	8	2.21E-02	3065.32	6	6	2.9E-02	3273.49	8	8	8.5E-03
2883.71	12	14	1.48E-01	3070.69	10	8	1.28E-02	3276.60	6	8	1.0E-02
2884.76	6	8	2.46E-01	3071.12	2	4	2.59E-01	3277.35	8	10	3.31E-03
2885.93	14	12	3.8E-02	3076.44	4	6	3.75E-01	3279.64	10	10	5.8E-03
2886.24	12	10	6.9E-03	3077.17	14	12	1.35E-01	3281.29	6	6	2.31E-03
2887.31	6	4	1.9E-02	3078.68	6	8	5.5E-01	3285.41	4	2	4.5E-04
2888.10	4	6	6.1E-02	3089.38	6	8	2.2E-02	3289.35	8	8	2.1E-02
2892.83	4	6	1.8E-03	3096.29	8	8	1.9E-02	3295.23	6	8	3.6E-03
2894.78	10	12	5.7E-02	3101.89	6	8	9.1E-03	3295.82	4	4	2.04E-03
2895.22	8	10	1.09E-01	3105.17	4	2	7.5E-02	3297.88	6	4	1.0E-02
2897.27	6	4	1.8E-01	3105.55	2	2	7.0E-02	3302.86	6	8	2.78E-04
2902.32	6	8	8.81E-03	3106.57	8	8	1.88E-02	3303.46	2	2	6.5E-04
2902.46	10	10	3.2E-02	3114.30	4	4	6.4E-02	3304.43	6	8	2.0E-03
2906.12	2	4	4.4E-02	3114.69	2	4	2.5E-02	3313.99	2	4	1.4E-04
2907.86	8	6	1.3E-03	3116.58	6	4	5.5E-02	3323.06	8	10	1.4E-02
2910.76	8	8	1.5E-02	3129.01	8	10	2.3E-03	3325.01	8	8	3.35E-03
2916.15	8	8	4.8E-04	3131.72	12	10	6.6E-03	3360.11	12	12	2.1E-03
2917.08	6	8	2.7E-02	3133.05	4	6	1.5E-02	3366.97	8	6	2.2E-02
2917.47	6	8	1.4E-03	3135.36	6	6	8.8E-02	3381.01	6	4	3.0E-02
2922.02	8	10	3.8E-02	3144.75	8	6	2.7E-02	3388.14	8	10	3.8E-04
2926.59	8	10	5.1E-02	3146.75	10	10	4.9E-06	3395.33	8	8	3.66E-03
2934.49	8	10	5.6E-03	3154.20	10	10	2.06E-01	3398.36	14	14	2.5E-03
2939.51	6	4	4.0E-03	3155.95	10	8	4.17E-03	3416.02	4	2	2.6E-03
2944.40	4	2	3.5E-01	3162.80	8	8	5.5E-02	3425.57	6	8	2.1E-04
2945.26	6	6	5.6E-04	3163.09	6	6	1.92E-03	3436.11	8	6	5.7E-03
2947.65	6	4	2.01E-01	3166.67	6	4	1.4E-03	3442.22	8	6	3.2E-03
2949.18	10	8	2.45E-01	3167.86	8	8	1.59E-01	3453.62	8	10	8.5E-03
2953.77	6	8	5.2E-02	3170.34	4	2	8.2E-03	3456.92	8	6	7.1E-03
2954.05	8	8	1.2E-02	3177.53	8	8	1.74E-01	3463.96	6	6	7.6E-05
2959.60	8	6	9.7E-02	3179.50	6	8	1.11E-01	3464.50	10	8	2.2E-03
2959.84	8	6	1.36E-01	3180.15	4	6	7.7E-02	3468.68	8	8	2.0E-02
2961.28	4	2	8.9E-03	3183.11	4	6	9.80E-03	3475.74	6	8	1.7E-04
2964.13	8	6	4.6E-02	3185.32	2	4	3.00E-03	3487.99	4	6	1.7E-04
2964.62	2	2	6.5E-02	3186.74	4	4	3.85E-02	3493.47	10	10	3.2E-02
2965.03	4	4	9.43E-02	3187.30	10	10	5.0E-02	3494.67	4	6	7.1E-04
2965.41	6	4	1.1E-02	3192.07	8	10	5.2E-03	3495.62	10	8	2.62E-03
2968.74	8	10	2.4E-03	3192.91	6	6	1.27E-02	3499.88	8	8	4.29E-03
2969.94	8	6	2.28E-01	3193.80	2	2	5.4E-02	3503.47	2	2	2.6E-04
2970.52	4	6	2.70E-02	3193.86	8	8	3.86E-02	3507.40	2	4	4.1E-04
2970.69	10	8	4.15E-02	3196.07	6	8	1.61E-02	3508.20	2	4	1.2E-04

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3614.88	8	8	4.2E-03	4833.20	12	10	4.6E-06	5965.62	10	10	2.19E-01
3621.27	2	4	2.2E-02	4840.00	10	8	4.0E-06	5991.38	12	10	4.2E-05
3624.89	2	2	2.4E-02	4893.82	8	6	2.5E-05	6084.11	10	8	3.0E-05
3632.29	10	10	1.2E-03	4923.93	6	4	4.28E-02	6113.32	8	6	1.7E-05
3711.98	4	6	1.5E-03	4990.51	6	8	5.2E-01	6129.70	10	10	3.2E-06
3748.48	6	4	3.4E-02	4993.36	10	8	6.9E-05	6147.74	4	2	1.3E-03
3759.46	4	2	3.2E-02	5000.74	2	4	1.8E-05	6149.26	2	2	1.3E-03
3814.12	4	6	4.9E-03	5001.96	12	14	1.57E+00	6175.15	8	8	1.8E-03
3824.93	6	6	3.2E-05	5018.44	6	6	2.0E-02	6179.38	8	6	4.6E-04
3827.08	6	8	2.5E-03	5030.63	10	10	7.1E-01	6238.39	4	4	7.5E-04
3906.04	6	8	1.1E-02	5035.71	10	12	9.4E-01	6239.95	2	4	1.1E-04
3914.50	6	4	4.6E-05	5100.66	10	8	2.0E-05	6247.56	6	4	1.6E-03
3935.96	8	10	8.3E-03	5132.67	10	10	2.0E-05	6305.30	10	10	1.4E-03
3938.29	6	6	6.1E-05	5136.80	6	4	2.8E-05	6331.95	6	8	1.8E-03
3938.97	4	6	8.4E-03	5144.35	4	6	8.5E-01	6369.46	6	4	1.40E-04
3945.21	4	4	3.9E-05	5149.47	8	10	9.0E-01	6383.72	6	6	1.1E-03
3974.17	4	6	6.3E-05	5169.03	6	8	4.22E-02	6416.92	6	6	3.6E-04
4024.55	6	6	2.5E-03	5197.58	6	4	5.4E-03	6432.68	6	6	8.5E-05
4075.95	6	4	1.6E-05	5227.48	12	14	1.22E+00	6446.41	8	10	1.3E-03
4087.28	6	4	3.0E-05	5234.62	8	6	2.5E-03	6456.38	8	6	1.7E-03
4122.67	6	6	3.3E-04	5247.95	4	6	1.43E+00	6516.08	6	8	8.3E-05
4124.79	6	8	3.4E-05	5251.23	6	8	8.0E-01	7222.39	4	2	2.5E-04
4128.75	6	4	2.6E-04	5262.48	4	6	8.0E-07	7224.49	2	2	2.8E-04
4173.46	6	6	4.43E-03	5264.18	8	10	4.76E-01	7301.56	6	6	2.1E-05
4178.86	6	8	1.72E-03	5264.81	6	4	3.52E-04	7320.65	6	4	1.4E-04
4180.98	4	4	2.2E-04	5272.40	6	6	3.9E-03	7449.33	4	6	1.68E-04
4233.17	6	8	7.22E-03	5276.00	10	8	3.76E-03	7462.41	6	6	2.7E-04
4258.15	4	4	3.1E-04	5284.11	6	8	1.9E-04	7479.69	6	8	3.5E-05
4273.33	4	2	9.1E-04	5306.18	6	8	3.28E-01	7515.83	8	6	8.1E-05
4296.57	4	6	7.0E-04	5316.22	14	14	3.69E-01	7711.72	8	8	4.94E-04
4303.18	4	4	2.20E-03	5316.62	12	10	3.89E-03				
4351.77	4	6	4.86E-03	5316.78	8	6	6.5E-04	<i>Fe III</i>			
4369.41	2	4	2.3E-04	5325.55	8	8	8.0E-04	1843.4	9	7	4.8E+00
4384.32	12	10	7.2E-05	5387.06	12	14	5.2E-01	1844.3	7	5	4.9E+00
4385.39	2	2	4.5E-03	5395.86	6	8	5.5E-01	1846.9	5	3	5.5E+00
4413.60	10	10	2.2E-05	5402.06	10	12	5.6E-01	1854.38	3	1	5.7E+00
4416.83	2	4	2.1E-03	5414.07	8	8	9.4E-05	1865.20	7	7	6.1E+00
4472.93	6	4	2.5E-04	5425.26	10	10	9.2E-05	1893.98	11	9	5.5E+00
4489.18	8	6	5.9E-04	5427.83	12	10	5.9E-03	1896.80	13	11	5.0E+00
4491.41	4	4	1.89E-03	5429.99	8	10	6.0E-01	1904.3	5	5	5.7E+00
4508.29	4	2	7.3E-03	5465.93	6	8	6.2E-01	1907.58	15	13	5.3E+00
4515.34	6	6	2.37E-03	5482.31	10	12	4.78E-01	1915.08	13	15	6.0E+00
4520.22	10	8	9.8E-04	5493.83	8	10	4.01E-01	1922.79	11	13	5.5E+00
4522.63	6	4	8.4E-03	5506.19	12	14	1.14E+00	1930.39	9	11	5.1E+00
4534.17	4	6	2.3E-04	5510.78	10	12	2.28E-01	1931.51	9	11	5.3E+00
4541.52	4	4	8.6E-04	5525.12	10	8	3.17E-05	1937.35	7	9	5.1E+00
4549.19	4	6	9.2E-03	5529.05	6	6	2.01E-01	1943.48	5	7	5.0E+00
4549.47	8	6	1.00E-02	5534.85	12	10	3.0E-04	1950.33	13	15	5.5E+00
4555.89	8	8	2.26E-03	5544.76	12	12	2.49E-01	1951.01	11	11	5.3E+00
4576.34	6	6	6.4E-04	5607.14	6	8	4.63E-05	1952.65	9	9	4.9E+00
4582.84	6	8	3.44E-04	5627.50	8	6	2.93E-05	1953.32	7	7	5.1E+00
4583.84	10	8	7.22E-03	5725.96	6	6	5.1E-06	1987.50	13	13	4.9E+00
4620.52	8	8	2.53E-04	5783.63	8	10	4.62E-01				
4629.34	10	10	1.72E-03	5813.68	6	4	8.8E-04	<i>Fe VII</i>			
4635.32	6	8	1.0E-02	5823.15	8	10	2.0E-04	150.807	5	7	1.3E+03
4656.98	6	6	1.37E-04	5824.41	6	6	8.3E-07	150.852	7	9	1.3E+03
4666.76	8	10	1.3E-04	5885.01	4	6	6.4E-01	151.023	9	11	1.6E+03
4670.18	6	8	3.2E-05	5902.83	8	10	4.98E-01	151.046	7	7	2.2E+02
4720.15	4	6	7.5E-06	5955.70	6	8	4.19E-01	151.145	9	9	2.1E+02
4731.45	6	8	2.8E-04	5961.71	10	12	7.4E-01	151.432	5	7	2.2E+02
								151.512	5	5	5.3E+02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
151.675	7	7	3.9E+02	92.81	9	11	3.7E+03	217	6	8	4.0E+02
151.782	9	9	2.4E+02	92.87	11	13	3.9E+03	217	6	6	2.6E+02
154.307	3	1	8.9E+02	93.433	9	11	3.2E+03	219	2	4	4.8E+02
154.335	5	7	1.2E+03	179.762	5	7	1.67E+03	219	4	6	2.4E+02
154.363	3	3	4.2E+02	<i>Fe XII</i>				219.123	4	6	3.9E+02
154.565	5	3	3.5E+02	65.905	4	4	2.0E+03	220	4	4	3.2E+02
154.650	5	5	8.8E+02	66.526	6	8	1.7E+03	221	4	6	5.9E+02
154.848	1	3	7.7E+02	66.960	4	6	1.6E+03	226	2	4	3.9E+02
154.921	3	5	9.7E+02	67.164	4	2	1.1E+03	234	2	2	2.8E+02
154.941	3	3	2.4E+02	67.821	4	6	1.4E+03	264.787	4	4	3.38E+02
154.949	5	7	1.0E+03	68.382	2	4	1.7E+03	265	4	4	1.5E+02
155.994	9	11	1.8E+03	80.541	6	6	8.7E+02	266	6	4	1.7E+02
158.481	9	9	2.3E+02	81.943	6	4	1.4E+03	268	6	6	2.1E+02
165.087	1	3	6.9E+02	82.226	4	2	1.9E+03	268	4	2	3.3E+02
165.919	7	5	2.8E+03	84.48	4	6	4.5E+03	270.524	4	2	2.1E+02
166.365	9	7	2.9E+03	84.48	8	10	4.9E+03	274.203	2	2	1.8E+02
173.441	9	9	3.6E+03	84.52	10	12	5.2E+03	280	4	6	2.8E+02
176.744	9	9	2.7E+03	84.52	6	8	4.0E+03	283	6	8	2.7E+02
176.928	7	7	2.4E+03	84.85	6	8	2.3E+03	288.45	6	4	1.6E+02
177.172	5	5	1.5E+03	85.14	8	10	3.4E+03	<i>Fe XV</i>			
235.221	5	3	1.7E+02	85.477	10	12	4.6E+03	38.95	1	3	1.69E+03
240.053	3	1	1.3E+02	186.880	6	8	1.0E+03	52.911	1	3	2.94E+03
243.379	9	7	2.1E+02	192.394	4	2	9.0E+02	59.404	3	5	3.4E+03
<i>Fe VIII</i>				193.509	4	4	9.1E+02	63.959	5	7	1.6E+03
112.472	4	4	3.6E+02	195.119	4	6	8.6E+02	65.370	1	3	3.2E+02
112.486	6	6	4.3E+02	<i>Fe XIII</i>				65.612	3	3	9.8E+02
116.196	4	6	4.5E+02	62.353	1	3	2.0E+03	66.238	5	3	1.6E+03
117.197	6	8	3.8E+02	62.46	5	7	1.2E+03	68.860	9	11	9.2E+03
167.486	4	4	3.0E+03	62.699	3	5	2.3E+03	69.7	3	1	1.9E+03
168.172	6	6	3.1E+03	63.188	5	7	3.9E+03	69.942	3	5	7.4E+03
168.545	6	4	2.0E+03	64.139	1	3	2.1E+03	69.989	5	7	7.9E+03
168.929	4	2	2.1E+03	74.845	5	5	1.0E+03	70.052	7	9	8.8E+03
185.213	6	8	1.0E+03	75.892	5	3	7.7E+02	70.224	1	3	4.13E+03
186.601	4	6	9.4E+02	76.117	5	3	2.1E+03	70.53	7	5	2.6E+02
<i>Fe X</i>				78.452	9	11	6.3E+03	70.59	7	7	1.7E+03
76.822	2	2	1.8E+03	84.270	7	9	5.5E+03	73.199	7	9	8.8E+03
77.865	4	6	1.6E+03	107.384	7	5	1.8E+03	73.473	5	7	6.2E+03
100.026	8	10	2.6E+03	<i>Fe XIV</i>				233.857	5	7	2.2E+02
101.733	6	8	1.8E+03	58.963	2	4	2.7E+03	235	1	3	2.5E+02
101.846	4	6	1.7E+03	59.579	4	6	3.1E+03	243	1	3	2.4E+02
102.095	10	12	2.9E+03	69.176	4	6	5.6E+02	243	5	7	2.3E+02
102.192	10	12	2.9E+03	69.386	2	4	7.6E+02	243.790	3	5	4.2E+02
102.829	4	6	2.1E+03	69.66	2	2	8.9E+02	248	3	1	5.4E+02
103.319	6	8	2.6E+03	69.66	6	6	1.3E+03	284.160	1	3	2.28E+02
103.724	6	8	1.7E+03	70.251	6	4	8.1E+02	<i>Fe XVI</i>			
104.638	8	10	2.1E+03	70.613	4	2	1.7E+03	31.041	2	4	5.2E+02
174.534	4	6	1.8E+03	72.80	10	12	7.9E+03	31.242	4	6	6.1E+02
175.266	2	4	1.72E+03	76.022	4	6	6.6E+03	32.166	2	4	6.8E+02
<i>Fe XI</i>				76.152	6	8	7.0E+03	32.192	2	2	6.7E+02
72.166	5	7	2.9E+03	91.009	6	4	5.1E+02	32.433	2	4	7.7E+02
72.310	5	5	1.5E+03	91.273	4	2	5.6E+02	32.652	4	6	9.1E+02
72.635	5	7	1.6E+03	188	4	6	2.7E+02	34.857	2	4	1.23E+03
91.394	5	7	2.6E+03	190	6	8	2.8E+02	35.106	4	6	1.44E+03
91.472	7	9	2.5E+03	207	2	2	2.1E+02	35.333	4	6	6.4E+02
91.63	3	5	2.3E+03	211.316	2	4	3.6E+02	35.368	6	8	6.8E+02
91.63	7	9	3.4E+03	213	4	2	2.8E+02	36.01	4	2	5.0E+02
91.63	5	7	2.8E+03	214	2	2	4.0E+02	36.749	2	4	1.1E+03
91.733	9	11	4.1E+03	216	6	8	1.7E+02	36.803	2	2	1.2E+03
								37.096	4	6	1.0E+03

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
37.138	6	8	1.07E+03	13.68	3	1	8.0E+04	8.65	5	7	3.9E+04
39.827	2	4	2.1E+03	13.69	5	7	2.3E+04	8.66	5	5	4.4E+03
40.153	4	6	2.5E+03	13.700	1	3	2.7E+05	8.74	1	3	2.5E+04
40.161	4	4	4.1E+02	13.71	5	5	2.2E+04	9.42	3	1	4.3E+04
40.199	4	6	1.7E+03	13.738	5	7	1.0E+04	9.42	3	3	3.3E+04
40.245	6	8	1.8E+03	13.796	5	7	7.0E+04	9.44	3	5	1.7E+04
41.91	2	2	4.72E+02	13.83	5	5	1.4E+04	9.45	1	3	5.2E+04
42.30	4	2	9.2E+02	13.934	1	3	4.51E+04	9.46	5	3	1.5E+04
46.661	4	6	3.46E+03	13.961	3	3	2.0E+04	9.47	5	7	4.9E+04
46.718	6	8	3.7E+03	14.668	5	7	1.1E+04	9.47	5	5	6.1E+03
50.350	2	4	1.86E+03	14.671	5	3	1.1E+04	9.52	3	3	8.1E+03
50.555	2	2	1.98E+03	14.929	3	3	1.2E+04	9.58	5	5	5.2E+03
54.142	2	4	3.41E+03	14.966	5	3	2.5E+04	9.59	5	5	1.0E+04
54.728	4	6	4.16E+03	14.995	5	5	2.2E+04	9.67	1	3	5.7E+04
54.769	4	4	6.97E+02	15.015	1	3	1.4E+04	9.68	5	7	4.0E+03
62.879	2	2	1.05E+03	16.668	3	1	1.1E+04	9.74	5	3	5.3E+03
63.719	4	2	2.18E+03					12.02	1	3	1.3E+04
66.263	4	6	9.39E+03	<i>Fe XX</i>				12.13	3	3	1.8E+04
66.368	6	8	1.00E+04	12.67	6	6	1.0E+04	12.18	5	7	2.2E+04
66.392	6	6	6.69E+02	12.69	4	6	1.2E+04	12.19	5	3	6.4E+03
76.502	6	4	6.7E+02	12.73	4	2	4.0E+04	12.21	3	1	1.5E+05
76.796	4	2	7.72E+02	12.77	4	4	2.1E+05	12.21	3	3	1.2E+05
80.192	4	6	5.2E+02	12.78	4	2	6.9E+04	12.25	1	3	2.1E+05
80.270	6	8	5.4E+02	12.78	2	4	1.4E+05	12.28	5	3	5.2E+04
85.587	2	4	4.0E+02	12.79	6	4	1.7E+04	12.30	5	7	2.1E+05
86.133	4	6	4.8E+02	12.82	4	4	1.1E+05	12.36	3	3	3.6E+04
96.256	4	6	8.7E+02	12.88	6	4	2.7E+04	12.37	5	7	3.1E+05
96.348	6	8	9.3E+02	12.89	4	4	4.4E+04	12.38	5	3	6.9E+03
117.2	2	4	3.93E+02	12.90	4	2	6.2E+03	12.47	5	7	5.8E+04
117.7	2	2	3.9E+02	12.90	4	6	1.4E+05	12.47	5	3	1.3E+04
123.4	2	4	5.9E+02	12.92	2	4	1.7E+04	12.49	5	7	1.3E+04
124.5	4	6	7.0E+02	12.93	4	6	1.6E+05	12.53	5	5	1.5E+04
144.06	4	6	1.6E+03	12.93	2	2	1.2E+04	12.57	1	3	7.2E+04
144.25	6	8	1.6E+03	12.98	2	2	6.7E+04	12.73	5	5	8.2E+03
148	4	2	6.5E+02	12.99	6	6	5.1E+04	12.95	3	5	6.2E+03
266.7	4	6	3.9E+02	13.00	6	4	1.1E+04	13.00	1	3	7.2E+03
267.0	6	8	4.3E+02	13.01	2	4	3.0E+04	13.03	5	5	1.3E+04
				13.03	4	2	8.6E+04	13.14	3	1	2.0E+04
<i>Fe XVII</i>				13.07	6	4	8.2E+03	13.41	1	3	7.3E+03
11.023	1	3	2.1E+04	13.13	2	4	8.9E+04				
12.123	1	3	8.0E+04	13.24	4	4	1.2E+04	<i>Fe XXII</i>			
12.264	1	3	5.9E+04	13.28	4	4	6.1E+03	9.002	4	6	5.5E+04
12.526	1	3	3.0E+03	13.70	4	6	1.1E+04	9.006	6	8	5.7E+04
12.681	1	3	3.5E+03	13.71	2	2	9.9E+03	9.006	6	6	5.3E+04
13.823	1	3	3.3E+04	13.78	4	4	1.0E+04	9.163	4	6	6.9E+04
13.891	1	3	3.4E+03	13.79	6	6	1.2E+04	9.183	6	8	8.3E+04
15.015	1	3	2.28E+05	13.83	4	2	9.8E+03	9.241	4	6	5.1E+04
15.262	1	3	6.0E+04	13.90	4	2	1.2E+04	11.748	4	4	1.2E+05
16.777	1	3	8.29E+03	13.98	6	4	1.6E+04	11.748	4	6	1.6E+05
17.054	1	3	9.33E+03	13.99	4	2	2.2E+04	11.748	4	2	1.8E+05
41.37	9	11	4.8E+03	14.05	4	4	1.7E+04	11.763	2	4	1.6E+05
49.427	3	3	4.0E+03	14.23	2	2	6.3E+03	11.789	2	2	2.6E+05
50.26	7	9	6.0E+03					11.789	6	8	1.2E+05
58.76	9	11	1.2E+04	<i>Fe XXI</i>				11.797	2	4	1.7E+05
				8.53	3	1	1.8E+04	11.823	6	4	7.9E+04
<i>Fe XIX</i>				8.53	3	5	6.1E+03	11.837	6	8	2.3E+05
13.413	5	3	1.3E+04	8.53	3	3	1.5E+04	11.837	6	6	1.7E+05
13.426	5	7	4.8E+04	8.56	5	7	2.0E+04	11.886	4	6	1.3E+05
13.47	3	1	1.5E+05	8.56	1	3	2.1E+04	11.898	2	4	8.2E+04
13.520	5	7	2.0E+05	8.56	5	3	6.5E+03	11.922	4	6	1.8E+05
13.56	3	5	1.0E+04	8.64	5	7	1.5E+04				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}					
	g_i	g_k			g_i	g_k			g_i	g_k						
11.976	6	8	5.9E+04	1.8614	4	4	6.24E+06	4463.7	3	3	2.3E-02					
12.027	2	4	6.9E+04	1.8626	2	4	3.16E+06	4502.4	3	5	9.2E-03					
12.045	6	8	2.4E+05	1.8627	2	2	5.47E+06	5562.2	5	5	2.8E-03					
12.045	4	4	9.7E+04	1.8637	2	2	1.91E+06	5570.3	5	3	2.1E-02					
12.053	4	6	6.1E+04	1.8655	4	6	2.14E+06	5649.6	1	3	3.7E-03					
12.077	2	4	1.0E+05	1.8672	4	2	1.63E+06	5870.9	3	5	1.8E-02					
12.077	4	6	2.4E+05	1.8678	4	4	3.5E+05	6904.7	3	5	1.3E-02					
12.095	6	6	7.8E+04	1.8721	4	6	3.2E+05	7224.1	3	5	1.4E-02					
12.193	2	4	7.2E+04	1.8721	2	2	2.0E+05	7587.4	3	1	5.1E-01					
12.193	4	6	9.9E+04	1.8730	2	4	1.5E+05	7601.5	5	5	3.1E-01					
12.325	2	2	1.5E+05	1.8739	4	4	8.3E+04	7685.2	3	1	4.9E-01					
<i>Fe XXIII</i>																
7.733	5	7	3.0E+04	1.891	2	2	9.7E+04	7694.5	5	3	5.6E-02					
7.849	5	7	4.9E+04	1.897	4	2	9.8E+04	7854.8	1	3	2.3E-01					
8.307	1	3	4.8E+04	8.231	2	4	6.10E+04	8059.5	1	3	1.9E-01					
8.529	1	3	4.3E+04	8.316	4	6	7.07E+04	8104.4	5	5	1.3E-01					
8.550	3	5	6.0E+04	10.619	2	4	7.28E+04	8112.9	5	7	3.6E-01					
8.552	3	3	3.2E+04	10.663	2	2	7.51E+04	8190.1	3	5	1.1E-01					
8.614	5	7	7.7E+04	11.030	2	4	1.84E+05	8263.2	3	5	3.5E-01					
8.664	3	3	4.4E+04	11.171	4	6	2.18E+05	8281.1	3	3	1.9E-01					
8.669	5	7	6.1E+04	<i>Fe XXV</i>												
8.672	1	3	6.8E+04	1.4607	1	3	2.54E+05	8298.1	3	3	3.2E-01					
8.752	5	7	1.2E+05	1.4945	1	3	5.05E+05	8508.9	3	3	2.4E-01					
8.764	5	7	4.6E+04	1.5730	1	3	1.24E+06	8776.7	3	5	2.7E-01					
8.814	3	5	6.2E+04	1.5749	1	3	1.5E+05	8928.7	5	3	3.7E-01					
10.902	5	5	5.3E+04	1.778	3	3	8.7E+04	<i>Kr II</i>								
10.910	3	1	6.7E+04	1.782	3	1	4.69E+06	4250.6	4	4	1.2E-01					
10.927	5	7	6.0E+04	1.787	1	3	2.57E+06	4292.9	4	4	9.6E-01					
10.934	3	5	5.4E+04	1.787	5	5	1.19E+06	4355.5	6	8	1.0E+00					
10.979	1	3	7.9E+04	1.788	3	5	2.68E+06	4431.7	2	2	1.8E+00					
11.018	1	3	4.9E+04	1.788	3	5	1.63E+06	4436.8	2	4	6.6E-01					
11.086	3	1	6.5E+04	1.789	1	3	1.78E+06	4577.2	6	8	9.6E-01					
11.165	3	5	6.7E+04	1.790	3	3	1.23E+06	4583.0	6	4	7.6E-01					
11.255	3	3	3.7E+04	1.791	3	5	4.10E+06	4615.3	4	4	5.4E-01					
11.298	1	3	1.3E+05	1.791	3	3	2.59E+06	4619.2	4	6	8.1E-01					
11.325	3	5	1.7E+05	1.792	3	1	4.92E+06	4633.9	4	6	7.1E-01					
11.338	3	3	9.3E+04	1.792	5	5	2.81E+06	4658.9	6	4	6.5E-01					
11.429	3	1	1.7E+05	1.792	5	5	2.81E+06	4739.0	6	6	7.6E-01					
11.433	3	3	1.2E+05	1.793	3	1	2.67E+06	4762.4	2	4	4.2E-01					
11.441	5	7	2.2E+05	1.794	5	3	2.22E+06	4765.7	4	6	6.7E-01					
11.445	5	5	5.6E+04	1.797	3	5	8.8E+05	4811.8	2	4	1.7E-01					
11.485	3	5	1.40E+05	1.798	3	3	1.0E+05	4825.2	2	4	1.9E-01					
11.491	5	3	5.9E+04	1.800	1	3	8.6E+04	4832.1	4	2	7.3E-01					
11.519	5	5	1.16E+05	1.802	3	1	4.1E+05	4832.1	4	2	7.3E-01					
11.520	1	3	2.16E+05	1.810	3	1	5.9E+05	5208.3	4	4	1.4E-01					
11.524	5	7	2.3E+05	1.8502	1	3	4.57E+06	5308.7	4	6	2.4E-02					
11.593	5	7	3.58E+05	1.8593	1	3	4.42E+05	7407.0	6	6	7.0E-02					
11.613	3	5	1.0E+05	10.038	3	3	8.08E+04	<i>Lead</i>								
11.615	3	3	4.4E+04	<i>Krypton</i>												
11.691	5	7	7.7E+04	<i>Pb I</i>												
11.698	5	5	7.3E+04	367.9	1	3	3.16E+00	2022.0	1	3	5.2E-02					
11.737	3	5	1.8E+05	1235.8	1	3	3.12E+00	2053.3	1	3	1.2E-01					
11.898	1	3	2.03E+05	4274.0	5	5	2.6E-02	2170.0	1	3	1.5E+00					
<i>Fe XXIV</i>																
1.8523	2	2	1.0E+05	4351.4	3	1	3.2E-02	2401.9	3	3	1.9E-01					
1.8552	2	4	4.82E+06	4362.6	5	3	8.4E-03	2446.2	3	3	2.5E-01					
1.8563	4	2	2.43E+06	4376.1	3	1	5.6E-02	2476.4	3	5	2.8E-01					
1.8572	2	2	3.06E+06	4400.0	3	5	2.0E-02	2577.3	5	3	5.0E-01					
1.858	2	4	1.2E+05	4410.4	3	3	4.4E-03	2613.7	3	3	2.7E-01					
				4425.2	3	3	9.7E-03	2614.2	3	5	1.9E+00					
				4453.9	3	5	7.8E-03	2628.3	5	3	3.1E-02					
								2657.1	3	5	9.8E-04					
								2663.2	5	5	7.1E-01					

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2802.0	5	7	1.6E+00	*3104.8	10	14	8.1E-01	1639.8	3	5	2.1E+00
2823.2	5	5	2.6E-01	3848.2	6	4	2.8E-02	2814.2	1	3	3.35E-01
2833.1	1	3	5.8E-01	3848.3	4	4	3.0E-03				
2873.3	5	5	3.7E-01	3850.4	4	2	3.0E-02	<i>Mg X</i>			
3572.7	5	3	9.9E-01	*4481.2	10	14	2.23E+00	57.876	2	4	2.09E+03
3639.6	3	3	3.4E-01	9218.3	2	4	3.6E-01	57.920	2	2	2.09E+03
3671.5	5	3	4.4E-01	9244.3	2	2	3.6E-01	63.152	2	4	5.6E+03
3683.5	3	1	1.5E+00					63.295	4	6	6.7E+03
3739.9	5	5	7.3E-01	<i>Mg IV</i>				609.79	2	4	7.53E+00
4019.6	5	7	3.5E-02	320.99	4	2	1.2E+02	624.94	2	2	7.01E+00
4057.8	5	3	8.9E-01	323.31	2	2	5.9E+01	2212.5	2	4	9.64E-01
4062.1	5	3	9.2E-01	1219.0	6	6	5.9E+00	2278.7	2	2	8.82E-01
4168.0	5	5	1.2E-02	1375.5	4	4	4.5E+00	5918.7	2	4	3.20E-02
5005.4	1	3	2.7E-01	1459.6	6	4	4.6E+00	6229.6	4	6	3.30E-02
5201.4	1	3	1.9E-01	1495.5	4	6	6.4E+00				
7229.0	5	3	8.9E-03	1510.7	4	4	6.7E+00	<i>Mg XI</i>			
<i>Lithium</i>				1683.0	6	8	5.8E+00	7.310	1	3	1.15E+04
<i>Li I</i>				1698.8	4	6	3.9E+00	7.473	1	3	2.27E+04
*2741.2	2	6	1.3E-02	1893.9	6	6	2.8E+00	7.850	1	3	5.50E+04
*3232.7	2	6	1.17E-02	<i>Mg VI</i>				9.169	1	3	1.97E+05
*4602.9	6	10	2.23E-01	*269.92	10	6	3.1E+02				
*6103.6	6	10	6.860E-01	*292.53	6	6	9.0E+01	<i>Manganese</i>			
*6707.8	2	6	3.691E-01	*314.64	6	2	1.8E+02	<i>Mn I</i>			
<i>Lutetium</i>				*349.15	10	10	6.1E+01	2794.82	6	8	3.7E+00
<i>Lu I</i>				*387.94	6	10	1.3E+01	2798.27	6	6	3.6E+00
3376.5	4	4	2.23E+00	399.29	4	2	2.8E+01	2801.08	6	4	3.7E+00
3567.8	4	6	5.9E-01	400.68	4	4	2.8E+01	3007.65	6	8	1.8E-01
3620.3	6	4	1.1E-02	403.32	4	6	2.7E+01	3011.38	8	10	3.1E-01
3841.2	6	6	2.5E-01	<i>Mg VII</i>				3016.45	10	12	2.9E-01
4518.6	4	4	2.1E-01	277.01	3	3	9.5E+01	3043.36	8	8	5.9E-01
<i>Magnesium</i>				278.41	5	3	1.5E+02	3044.57	10	8	5.7E-01
<i>Mg I</i>				280.74	5	3	2.0E+02	3045.59	10	10	6.7E-01
2025.8	1	3	8.4E-01	319.02	5	5	8.9E+01	3045.80	8	10	1.7E-01
*2779.8	9	9	5.2E+00	*366.42	9	9	4.4E+01	3047.03	12	12	6.1E-01
*2850.0	9	15	2.3E-01	*433.04	9	15	1.6E+01	3054.36	8	6	4.6E-01
2852.1	1	3	4.95E+00	1334.3	5	5	5.3E+00	3070.27	6	6	1.9E-01
*3094.9	9	15	5.2E-01	1410.0	5	5	2.57E+00	3073.18	4	4	3.7E-01
3329.9	1	3	3.3E-02	1487.0	3	5	3.02E+00	3082.71	14	14	2.9E-01
3332.2	3	3	9.7E-02	1487.9	5	7	3.66E+00	3110.68	6	8	2.7E-01
3336.7	5	3	1.6E-01	<i>Mg VIII</i>				3113.80	12	10	2.6E-01
*3835.3	9	15	1.68E+00	*74.976	6	10	4.3E+03	3118.10	4	6	1.7E-01
4703.0	3	5	2.55E-01	315.02	4	4	1.2E+02	3122.88	10	10	1.9E-01
5167.3	1	3	1.16E-01	*342.29	10	6	6.3E+01	3126.85	8	6	2.3E-01
5172.7	3	3	3.46E-01	353.86	4	4	3.89E+01	3132.28	10	10	2.1E-01
5183.6	5	3	5.75E-01	356.00	6	4	5.7E+01	3132.79	8	8	2.7E-01
5528.4	3	5	1.99E-01	*428.52	10	10	3.24E+01	3175.58	8	10	1.8E-01
<i>Mg II</i>				*434.62	6	10	1.6E+01	3201.11	4	6	2.2E-01
1239.9	2	4	1.4E-02	*489.33	6	6	3.9E+01	3228.09	10	12	6.4E-01
1240.4	2	2	1.4E-02	*686.92	6	10	9.4E+00	3230.23	10	12	1.9E-01
*2660.8	10	14	3.8E-01	<i>Mg IX</i>				3230.72	8	8	3.5E-01
2790.8	2	4	4.0E+00	62.751	1	3	2.87E+03	3240.88	6	4	2.2E-01
2795.5	2	4	2.6E+00	*67.189	9	15	6.20E+03	3243.78	6	6	5.3E-01
2797.9	4	4	7.9E-01	*71.965	9	3	1.22E+03	3251.13	4	2	2.3E-01
2798.1	4	6	4.8E+00	72.312	3	5	4.43E+03	3252.95	4	4	1.8E-01
2802.7	2	2	2.6E+00	77.737	3	1	3.92E+02	3256.14	4	6	5.0E-01
2928.8	2	2	1.2E+00	368.07	1	3	5.27E+01	3258.41	2	2	9.7E-01
2936.5	4	2	2.3E+00	438.69	3	1	7.9E+01	3260.24	2	4	3.8E-01
				*443.74	9	9	4.19E+01	3267.79	14	14	3.5E-01
				749.55	3	5	8.2E+00	3268.72	6	8	3.3E-01
								3270.35	12	12	2.6E-01
								3273.02	10	10	2.7E-01

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
3298.23	6	4	2.8E-01	4070.28	2	2	2.3E-01	3482.90	5	5	2.0E-01
3303.28	4	4	1.9E-01	4079.42	2	4	3.8E-01	3488.68	3	3	2.5E-01
3463.66	8	8	3.2E-01	4082.95	4	6	2.95E-01	<i>Mn VI</i>			
3470.01	6	8	2.4E-01	4083.63	6	8	2.8E-01	307.999	9	9	3.7E+01
3511.83	12	12	2.7E-01	4089.94	8	10	1.7E-01	309.440	9	7	5.7E+01
3535.30	10	10	1.7E-01	4105.37	10	8	1.7E-01	309.579	7	5	4.4E+01
3559.81	6	6	2.1E-01	4135.03	12	12	3.0E-01	310.058	7	7	3.4E+01
3577.87	10	8	9.4E-01	4141.06	10	10	2.6E-01	310.182	5	5	2.8E+01
3595.11	6	4	1.8E-01	4148.80	8	8	2.3E-01	311.748	5	3	5.7E+01
3601.27	12	10	2.3E-01	4176.61	14	12	2.4E-01	320.598	3	5	1.5E+01
3607.53	8	8	2.3E-01	4189.99	12	10	2.0E-01	320.681	1	3	2.2E+01
3608.49	6	6	3.6E-01	4201.78	10	8	2.3E-01	320.874	3	1	7.8E+01
3610.30	4	4	4.2E-01	4235.30	8	6	9.17E-01	320.979	3	3	2.2E+01
3635.70	10	8	2.1E-01	4239.74	4	2	3.9E-01	321.176	5	5	6.0E+01
3660.40	12	14	9.1E-01	4257.67	2	2	3.7E-01	321.541	5	3	2.7E+01
3675.67	6	8	2.2E-01	4265.93	4	4	4.92E-01	325.146	9	7	1.3E+02
3676.96	10	12	7.3E-01	4281.10	6	6	2.3E-01	328.431	5	5	4.4E+01
3680.15	12	10	1.9E-01	4411.87	12	10	2.6E-01	328.558	3	5	1.2E+01
3682.09	8	10	7.6E-01	4414.89	8	6	2.93E-01	329.043	1	3	1.1E+01
3684.87	6	8	2.6E-01	4419.77	10	8	2.1E-01	1236.23	5	3	1.3E+01
3706.08	12	14	1.4E+00	4436.36	6	4	4.37E-01	1255.77	3	1	1.2E+01
3718.92	10	12	9.6E-01	4451.58	8	8	7.98E-01	1285.10	5	7	1.1E+01
3731.94	8	10	1.0E+00	4453.01	4	2	5.44E-01	1333.87	7	9	1.0E+01
3771.44	14	14	1.9E-01	4455.82	4	6	1.7E-01	<i>Mercury</i>			
3773.86	12	12	2.5E-01	4457.04	6	4	2.34E-01	<i>Hg I</i>			
3800.55	6	8	2.7E-01	4457.55	6	6	4.27E-01	2536.52	1	3	8.00E-02
3806.72	10	12	5.9E-01	4458.26	6	8	4.62E-01	2652.04	3	5	3.88E-01
3823.51	8	10	5.21E-01	4461.09	8	8	1.7E-01	2655.13	3	5	1.1E-01
3823.89	6	6	2.31E-01	4462.03	8	10	7.00E-01	2752.78	1	3	6.10E-02
3833.87	4	4	3.14E-01	4464.68	6	6	4.39E-01	2856.94	3	1	1.1E-02
3834.37	6	8	4.29E-01	4470.14	4	4	3.00E-01	2893.60	3	3	1.6E-01
3839.78	2	2	4.64E-01	4472.79	2	2	4.35E-01	2925.4	5	3	7.7E-02
3841.07	4	6	3.3E-01	4479.40	8	10	3.4E-01	2967.3	1	3	4.5E-01
3843.99	2	4	2.11E-01	4490.08	2	4	2.49E-01	3021.50	5	7	5.09E-01
3889.46	12	14	3.1E-01	4498.90	4	6	2.49E-01	3023.48	5	5	9.4E-02
3898.37	6	8	1.7E-01	4502.22	6	8	1.86E-01	3027.49	5	5	2.0E-02
3899.34	4	6	2.4E-01	4605.37	10	12	3.6E-01	3125.66	3	5	6.56E-01
3924.08	2	4	9.4E-01	4626.54	12	14	3.6E-01	3341.48	5	3	1.68E-01
3926.48	6	8	5.4E-01	4709.71	8	8	1.72E-01	3650.15	5	7	1.3E+00
3951.98	2	2	3.1E-01	4727.46	6	6	1.7E-01	3654.83	5	5	1.8E-01
3952.84	6	6	4.1E-01	4739.11	4	4	2.40E-01	4046.56	1	3	2.1E-01
3975.88	2	4	1.8E-01	4754.05	6	8	3.03E-01	4077.81	3	1	4.0E-02
3982.16	4	2	3.5E-01	4761.53	2	4	5.35E-01	4108.1	3	1	3.0E-02
3982.58	6	4	2.3E-01	4762.38	8	10	7.83E-01	4339.22	3	5	2.88E-02
3982.90	6	4	5.5E-01	4765.86	4	6	4.1E-01	4347.50	3	5	8.4E-02
3991.60	2	2	2.1E-01	4766.43	6	8	4.6E-01	4358.34	3	3	5.57E-01
4011.91	8	8	2.3E-01	4783.43	8	8	4.01E-01	4916.07	3	1	5.8E-02
4018.11	10	8	2.54E-01	4823.53	10	8	4.99E-01	5025.64	3	3	2.7E-04
4030.76	6	8	1.7E-01	6013.48	4	6	1.72E-01	5460.75	5	3	4.87E-01
4033.07	6	6	1.65E-01	6021.79	8	6	3.32E-01	5769.59	3	5	2.36E-01
4034.49	6	4	1.58E-01	<i>Mn II</i>				2593.72	7	7	2.6E+00
4041.36	10	10	7.87E-01	2593.72	7	7	2.6E+00	2605.68	7	5	2.7E+00
4048.75	6	4	7.5E-01	2605.68	7	5	2.7E+00	2933.05	5	3	2.0E+00
4052.48	6	8	3.8E-01	2933.05	5	3	2.0E+00	2939.31	5	5	1.9E+00
4055.55	8	8	4.31E-01	2939.31	5	5	1.9E+00	2949.20	5	7	1.9E+00
4058.94	4	2	7.25E-01	2949.20	5	7	1.9E+00	3441.99	9	7	4.3E-01
4061.74	8	6	1.9E-01	3441.99	9	7	4.3E-01	3460.32	7	5	3.2E-01
4063.53	6	6	1.69E-01	3460.32	7	5	3.2E-01	3474.13	5	3	1.5E-01
4065.08	12	14	2.5E-01	<i>Molybdenum</i>				<i>Mo I</i>			
4066.24	10	8	2.2E-01	<i>Molybdenum</i>				2616.79	3	5	7.34E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2621.06	7	7	1.16E-01	3036.31	3	5	5.81E-01	3228.21	5	7	3.85E-01
2628.96	3	3	2.81E-01	3041.70	13	11	5.94E-01	3229.79	9	11	1.44E-01
2629.85	5	7	7.75E-01	3046.80	13	11	1.63E-01	3233.14	13	13	6.33E-01
2631.50	1	3	2.54E-01	3047.31	11	9	5.01E-01	3237.06	7	9	2.95E-01
2638.30	5	5	7.57E-01	3055.32	9	7	4.29E-01	3244.47	5	3	2.80E-01
2640.98	7	5	1.20E+00	3057.56	7	5	2.64E-01	3247.61	5	5	1.71E-01
2644.36	5	7	1.96E-01	3061.59	7	5	4.41E-01	3249.93	5	3	1.87E-01
2649.46	7	9	9.84E-01	3064.27	13	13	8.46E-01	3251.65	3	5	3.05E-01
2655.02	9	7	4.08E-01	3065.04	13	13	3.08E-01	3256.21	5	3	6.89E-01
2658.11	7	7	6.43E-01	3069.51	5	5	1.52E-01	3256.72	3	3	1.31E-01
2665.09	7	9	1.32E-01	3069.96	11	11	2.72E-01	3259.16	11	13	1.62E-01
2679.85	9	11	1.31E+00	3070.89	9	11	1.87E-01	3262.63	7	9	3.62E-01
2684.16	9	9	4.18E-01	3074.37	11	11	1.42E+00	3264.40	11	9	5.42E-01
2706.11	3	5	2.03E-01	3079.88	9	11	9.55E-01	3265.14	5	7	2.60E-01
2710.74	3	3	1.57E-01	3080.40	7	9	3.61E-01	3266.16	9	11	1.95E-01
2725.15	3	5	2.79E-01	3081.16	3	5	2.35E-01	3270.90	7	7	3.59E-01
2728.71	3	3	1.26E-01	3085.62	9	9	1.63E+00	3276.07	11	9	1.18E-01
2733.39	5	7	2.95E-01	3089.13	11	9	1.53E-01	3285.03	1	3	1.41E-01
2743.71	1	3	2.47E-01	3089.71	5	7	2.34E-01	3285.35	9	7	4.49E-01
2745.38	13	11	1.29E-01	3094.66	7	7	1.63E+00	3287.38	5	5	1.38E-01
2751.47	7	9	2.54E-01	3099.92	9	7	1.45E-01	3289.01	9	9	5.08E-01
2756.26	5	3	1.18E-01	3100.88	7	9	1.20E+00	3290.82	7	5	5.44E-01
2761.53	9	11	2.06E-01	3101.34	5	5	1.92E+00	3305.56	5	3	1.74E-01
2763.02	3	1	4.44E-01	3106.34	7	5	2.21E-01	3305.91	7	9	3.06E-01
2766.25	3	5	1.17E-01	3117.54	13	13	1.89E-01	3307.13	7	9	1.25E-01
2787.83	9	7	2.85E-01	3123.03	3	3	2.81E-01	3312.33	7	5	1.62E-01
2792.96	5	3	1.53E-01	3125.03	5	3	1.98E-01	3323.95	9	7	2.82E-01
2798.02	7	5	1.22E-01	3132.59	7	9	1.79E+00	3325.13	5	3	2.26E-01
2801.47	5	7	1.24E-01	3135.90	9	11	3.68E-01	3325.67	5	5	1.72E-01
2825.68	5	7	2.53E-01	3136.75	9	11	1.57E-01	3327.30	1	3	2.88E-01
2826.75	7	7	4.23E-01	3142.75	3	5	4.10E-01	3336.56	9	9	1.64E-01
2876.54	9	9	2.84E-01	3147.35	13	11	2.41E-01	3340.16	5	3	1.20E-01
2886.60	11	11	4.74E-01	3155.19	7	7	2.75E-01	3344.73	3	5	6.04E-01
2906.06	3	3	8.04E-01	3158.17	7	7	4.63E-01	3346.83	11	11	1.13E-01
2913.52	5	3	1.38E-01	3170.34	7	7	1.37E+00	3347.00	3	3	2.72E-01
2915.38	5	3	7.31E-01	3171.38	5	7	2.03E-01	3358.12	5	7	7.59E-01
2918.84	5	3	3.79E-01	3175.59	13	11	8.40E-01	3361.37	9	9	1.38E-01
2930.39	1	3	1.91E-01	3179.78	11	13	2.33E-01	3363.78	5	7	2.74E-01
2936.50	11	11	2.33E-01	3183.03	11	9	3.98E-01	3363.87	5	7	1.39E-01
2945.43	7	7	3.66E-01	3184.58	7	5	2.77E-01	3373.81	3	3	2.03E-01
2945.66	3	3	4.08E-01	3185.10	7	7	2.54E-01	3375.22	7	7	1.38E-01
2946.01	5	5	1.68E-01	3185.71	5	3	6.10E-01	3375.65	7	9	1.56E-01
2951.45	9	9	1.43E-01	3188.10	7	9	3.45E-01	3378.19	3	1	1.88E-01
2959.48	9	11	1.75E-01	3188.41	5	7	4.40E-01	3378.46	13	13	3.75E-01
2972.96	5	3	2.69E-01	3192.79	9	11	1.88E-01	3379.96	5	5	4.11E-01
2977.27	9	7	3.28E-01	3193.98	7	5	1.53E+00	3382.48	3	3	2.66E-01
2978.28	7	5	1.50E-01	3194.88	9	11	1.75E-01	3384.61	7	9	7.32E-01
2983.04	1	3	2.82E-01	3195.96	9	7	4.10E-01	3385.87	9	11	3.30E-01
2987.92	3	5	8.43E-01	3197.18	1	3	1.47E-01	3389.79	5	7	1.85E-01
2988.23	5	7	4.28E-01	3198.85	15	13	7.22E-01	3392.17	9	9	1.97E-01
2988.68	7	9	1.61E-01	3200.89	3	5	1.82E-01	3393.65	11	11	2.08E-01
2989.80	9	7	9.27E-01	3205.22	1	3	4.27E-01	3404.33	7	7	2.10E-01
3000.24	9	9	1.40E-01	3205.43	9	11	2.55E-01	3413.37	11	11	1.25E-01
3000.44	5	5	1.25E-01	3205.89	9	9	5.35E-01	3415.27	9	9	1.83E-01
3000.85	5	7	2.58E-01	3208.84	7	5	2.77E-01	3415.61	7	9	1.29E-01
3001.43	5	5	2.31E-01	3210.97	7	5	6.94E-01	3416.14	9	11	2.45E-01
3007.71	7	5	1.90E-01	3214.44	9	7	2.01E-01	3418.52	5	3	1.41E-01
3013.39	7	5	6.06E-01	3215.07	3	5	4.20E-01	3419.69	7	7	1.15E-01
3016.78	9	9	2.75E-01	3216.78	15	13	2.10E-01	3420.04	5	5	3.28E-01
3025.00	5	5	8.49E-01	3221.73	3	1	1.41E+00	3422.31	9	9	2.52E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3425.13	11	11	2.29E-01	3598.88	13	11	5.67E-01	3777.72	13	11	1.66E-01
3427.90	11	13	4.09E-01	3600.73	9	9	2.07E-01	3788.25	7	9	2.87E-01
3434.79	7	7	1.75E-01	3601.88	7	9	1.15E-01	3794.43	9	9	1.22E-01
3435.45	15	15	1.50E+00	3602.94	5	7	2.96E-01	3797.47	7	5	1.48E-01
3437.21	11	9	8.06E-01	3604.07	9	7	3.25E-01	3798.25	7	9	6.90E-01
3438.87	1	3	2.34E-01	3610.61	5	3	1.78E-01	3801.84	9	7	3.16E-01
3441.87	5	3	1.34E-01	3611.99	7	7	1.16E-01	3805.99	5	5	2.44E-01
3442.66	3	3	2.94E-01	3615.16	7	9	1.96E-01	3819.78	9	11	1.47E-01
3445.03	7	9	1.53E-01	3623.22	11	9	5.58E-01	3824.78	5	7	1.40E-01
3445.26	7	5	2.96E-01	3624.46	9	11	5.27E-01	3827.15	7	7	1.94E-01
3445.80	9	9	1.14E-01	3624.62	5	7	1.37E-01	3828.88	7	7	1.35E-01
3447.12	9	11	8.75E-01	3638.20	5	3	3.51E-01	3830.81	5	5	1.83E-01
3447.29	5	3	1.79E-01	3638.21	5	3	3.33E-01	3831.07	7	9	1.20E-01
3449.07	7	9	1.52E-01	3640.62	7	5	1.94E-01	3832.11	9	9	3.05E-01
3449.85	5	7	1.65E-01	3647.84	7	7	2.11E-01	3833.75	9	9	1.70E-01
3452.60	7	7	2.48E-01	3648.70	7	5	1.15E-01	3834.64	3	5	1.20E-01
3456.15	5	5	3.60E-01	3654.58	3	3	1.80E-01	3846.18	7	7	1.26E-01
3456.52	3	3	2.96E-01	3657.36	5	7	2.03E-01	3847.25	3	1	2.41E-01
3460.22	5	3	2.77E-01	3658.13	9	9	1.86E-01	3848.30	9	9	1.26E-01
3460.78	9	7	6.03E-01	3659.36	7	9	6.70E-01	3851.99	11	9	1.78E-01
3465.84	3	1	9.99E-01	3660.92	3	5	1.34E-01	3864.10	7	7	6.24E-01
3466.19	9	7	2.11E-01	3662.15	7	9	1.45E-01	3866.69	3	5	1.74E-01
3466.96	7	7	1.52E-01	3662.99	11	11	3.48E-01	3867.67	5	3	2.22E-01
3467.85	5	7	2.63E-01	3663.27	7	5	2.30E-01	3869.08	5	3	1.35E-01
3469.22	5	3	6.96E-01	3664.81	11	13	9.54E-01	3874.15	7	5	1.67E-01
3469.63	13	15	1.51E-01	3664.88	1	3	1.92E-01	3902.95	7	5	6.17E-01
3470.92	3	5	2.91E-01	3669.34	9	7	2.16E-01	3909.54	9	7	1.13E-01
3475.03	3	3	4.68E-01	3672.81	9	11	1.95E-01	3911.94	5	5	1.15E-01
3479.42	7	5	2.26E-01	3672.82	9	9	1.13E-01	3915.43	5	5	1.40E-01
3483.67	7	7	1.13E-01	3676.23	3	1	5.22E-01	3916.43	5	3	1.78E-01
3483.83	7	5	1.41E-01	3680.68	11	11	2.96E-01	3919.55	11	13	2.24E-01
3489.43	7	7	3.27E-01	3681.72	9	7	1.68E-01	3955.48	13	11	1.71E-01
3504.41	7	9	8.06E-01	3683.01	3	5	1.20E-01	3973.76	11	13	4.39E-01
3505.31	7	9	2.25E-01	3687.96	5	7	2.12E-01	3977.90	9	7	1.35E-01
3508.11	9	9	1.59E-01	3688.97	11	9	3.26E-01	3980.20	5	3	2.70E-01
3510.77	13	13	4.75E-01	3690.59	11	9	2.07E-01	3991.85	11	9	1.29E-01
3517.55	11	11	5.41E-01	3694.94	5	7	6.36E-01	4010.13	5	3	4.38E-01
3518.21	3	3	3.64E-01	3696.04	11	11	3.59E-01	4021.01	9	11	2.65E-01
3521.38	9	9	1.39E-01	3698.07	7	5	1.48E-01	4051.18	13	11	1.36E-01
3521.41	9	11	6.06E-01	3708.55	7	9	1.28E-01	4062.08	11	9	1.96E-01
3524.65	5	3	3.10E-01	3715.75	9	7	2.38E-01	4069.88	13	11	3.25E-01
3524.98	7	9	2.25E-01	3718.48	5	7	1.34E-01	4076.19	9	9	1.16E-01
3538.92	11	11	2.24E-01	3720.25	7	9	2.86E-01	4084.37	9	7	1.94E-01
3540.57	5	3	4.46E-01	3725.55	7	7	1.60E-01	4102.15	5	3	1.22E-01
3542.17	7	5	4.93E-01	3727.68	9	11	1.51E-01	4107.46	7	5	2.02E-01
3552.71	9	7	3.64E-01	3728.30	7	5	1.55E-01	4120.09	13	15	6.05E-01
3555.64	3	3	3.46E-01	3728.50	7	9	2.20E-01	4131.92	9	11	1.56E-01
3558.09	5	7	5.43E-01	3733.02	7	7	1.45E-01	4148.98	9	11	1.56E-01
3563.75	1	3	1.53E-01	3733.41	13	13	2.80E-01	4157.40	13	11	2.17E-01
3566.05	9	9	2.67E-01	3735.62	11	11	1.66E-01	4157.90	9	11	1.60E-01
3566.74	7	7	1.43E-01	3742.28	7	7	1.56E-01	4185.82	11	13	3.82E-01
3570.64	15	15	7.18E-01	3747.19	5	7	3.07E-01	4188.32	11	13	3.32E-01
3573.88	3	5	3.58E-01	3748.48	9	11	3.95E-01	4194.56	11	11	2.70E-01
3580.54	13	11	5.49E-01	3755.10	3	5	1.41E-01	4232.59	9	11	3.17E-01
3581.88	11	13	3.81E-01	3755.16	9	9	2.48E-01	4240.83	5	5	1.68E-01
3584.25	3	3	1.73E-01	3758.52	9	9	1.22E-01	4246.02	11	13	2.00E-01
3585.57	7	5	3.95E-01	3759.60	9	7	1.82E-01	4251.88	13	11	1.76E-01
3588.95	7	7	1.18E-01	3760.88	9	9	2.16E-01	4254.95	7	9	2.01E-01
3590.74	7	9	2.23E-01	3768.73	9	9	2.88E-01	4269.28	11	11	1.36E-01
3595.55	5	5	2.32E-01	3769.99	7	9	2.46E-01	4276.91	7	9	2.85E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
4277.24	9	11	1.35E-01	5926.37	7	7	1.63E-01	735.90	1	3	6.11E+00
4317.92	15	15	1.28E-01	5928.88	7	9	5.32E-01	743.72	1	3	4.86E-01
4325.80	3	3	1.84E-01	7154.11	9	9	3.45E-01	3369.8	5	5	1.0E-03
4326.14	5	7	2.56E-01	<i>Neodymium</i>			3369.9	5	3	7.6E-03	
4340.74	5	7	1.23E-01	<i>Nd II</i>			3375.6	5	3	2.2E-03	
4381.63	13	13	2.93E-01	3780.4	16	18	1.4E-01	3417.9	3	5	9.2E-03
4382.41	11	13	3.83E-01	3805.4	14	16	6.9E-01	3418.0	3	3	2.2E-03
4409.94	13	13	1.38E-01	3807.2	10	12	4.9E-02	3423.9	3	3	1.0E-03
4411.69	11	11	2.63E-01	3863.3	8	10	1.5E-01	3447.7	5	5	2.1E-02
4434.95	9	9	2.51E-01	3941.5	10	10	6.1E-01	3450.8	5	3	4.9E-03
4446.42	11	11	1.90E-01	3951.2	12	12	6.0E-01	3454.2	3	1	3.7E-02
4457.35	7	7	1.28E-01	3973.3	18	18	6.3E-01	3460.5	1	3	7.0E-03
4474.57	5	5	2.10E-01	3979.5	10	12	2.7E-01	3464.3	5	5	6.7E-03
4491.65	11	11	2.09E-01	3990.1	16	16	5.2E-01	3466.6	1	3	1.3E-02
4536.80	13	15	5.03E-01	4012.3	18	20	5.5E-01	3472.6	5	7	1.7E-02
4598.23	1	3	1.47E-01	4061.1	16	18	4.4E-01	3498.1	3	5	5.1E-03
4624.23	9	9	1.32E-01	4106.6	14	16	6.8E-02	3501.2	3	3	1.2E-02
4633.08	3	5	2.35E-01	4109.5	14	16	3.7E-01	3510.7	5	3	2.2E-03
4649.06	3	1	1.25E-01	4133.4	14	12	1.5E-01	3515.2	3	5	6.9E-03
4652.24	5	7	1.55E-01	4156.1	12	14	3.4E-01	3520.5	3	1	9.3E-02
4686.08	3	3	1.72E-01	4205.6	18	16	1.8E-01	3593.5	3	5	9.9E-03
4688.21	13	15	1.54E-01	4284.5	18	18	8.5E-02	3593.6	3	3	6.6E-03
4707.25	7	9	3.63E-01	4303.6	8	10	4.7E-01	3600.2	3	3	4.3E-03
4718.86	5	5	2.17E-01	4325.8	16	16	1.6E-01	3633.7	3	1	1.1E-02
4723.05	9	9	1.23E-01	4358.2	14	14	1.5E-01	3682.2	3	5	1.6E-03
4731.44	9	11	4.49E-01	4382.7	12	10	4.0E-02	3685.7	3	3	3.9E-03
4758.50	11	9	3.01E-01	4400.8	10	10	6.8E-02	3701.2	3	5	2.2E-03
4760.18	11	13	4.67E-01	4451.6	12	14	2.5E-01	4536.3	3	3	5.0E-03
4764.11	9	7	2.16E-01	4456.4	16	18	6.4E-02	4702.5	3	3	2.1E-03
4811.05	13	11	4.36E-01	4463.0	14	16	1.8E-01	4708.9	3	3	4.2E-02
4819.25	11	9	2.71E-01	4958.1	12	10	1.2E-02	4955.4	3	3	3.3E-03
4830.51	9	7	4.07E-01	5130.6	22	20	1.6E-01	5113.7	3	3	1.0E-02
4858.39	13	11	1.24E-01	5192.6	20	18	1.7E-01	5120.5	3	3	5.6E-03
4868.02	7	5	3.11E-01	5249.6	18	16	1.8E-01	5154.4	3	3	1.9E-02
5037.18	9	7	1.14E-01	5276.9	12	10	1.2E-01	5191.3	3	3	1.3E-02
5044.36	7	5	1.31E-01	5293.2	16	14	1.2E-01	5326.4	3	3	6.8E-03
5047.70	3	1	2.61E-01	5302.3	20	18	1.1E-01	5333.3	3	3	5.3E-03
5163.18	9	11	2.03E-01	5311.5	14	12	1.1E-01	5341.1	3	3	1.1E-01
5171.06	5	7	1.84E-01	5319.8	12	10	1.6E-01	5400.6	3	1	9.0E-03
5172.94	5	5	4.11E-01	5357.0	18	16	1.8E-01	5418.6	3	3	5.2E-03
5174.18	5	3	5.83E-01	5371.9	20	20	5.1E-02	5433.7	3	3	2.83E-03
5191.45	7	9	1.62E-01	5485.7	18	18	5.7E-02	5652.6	3	3	8.9E-03
5238.21	7	9	3.74E-01	5594.4	16	16	7.0E-02	5662.5	3	3	6.9E-03
5240.87	7	7	3.89E-01	5620.6	18	18	1.3E-01	5852.5	3	1	6.82E-01
5242.80	7	5	2.01E-01	5688.5	14	14	5.9E-02	5868.4	3	3	1.4E-02
5261.53	5	7	1.13E-01	5718.1	16	16	8.7E-02	5881.9	5	3	1.15E-01
5280.85	5	5	1.28E-01	5726.8	10	10	5.6E-02	5913.6	3	3	4.8E-02
5355.52	9	9	1.21E-01	5740.9	12	12	7.2E-02	5939.3	5	3	2.00E-03
5356.46	11	11	2.11E-01	5804.0	10	10	4.6E-02	5944.8	5	5	1.13E-01
5360.51	9	11	6.19E-01	5865.1	16	18	1.3E-02	5961.6	3	3	3.3E-02
5364.28	9	9	2.26E-01	6051.9	12	10	1.1E-02	5975.5	5	3	3.51E-02
5460.50	5	3	3.46E-01	<i>Neon</i>			6030.0	3	3	5.61E-02	
5493.76	7	5	2.13E-01	<i>Ne I</i>			6046.1	3	3	2.26E-03	
5506.49	5	7	3.61E-01	615.63	1	3	3.8E-01	6074.3	3	1	6.03E-01
5533.03	5	5	3.72E-01	618.67	1	3	9.3E-01	6096.2	3	5	1.81E-01
5570.44	5	3	3.30E-01	619.10	1	3	3.3E-01	6118.0	5	3	6.09E-03
5849.71	3	3	3.02E-01	626.82	1	3	7.4E-01	6128.5	3	3	6.7E-03
5851.50	3	5	1.55E-01	629.74	1	3	4.8E-01	6143.1	5	5	2.82E-01
5893.36	5	5	2.60E-01				6150.3	3	3	1.5E-02	
5895.93	5	7	3.12E-01				6163.6	1	3	1.46E-01	

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
6217.3	5	3	6.37E-02	462.39	2	2	2.3E+01	3243.4	6	6	2.3E-01
6266.5	1	3	2.49E-01	1907.5	4	2	2.8E-01	3244.1	6	8	1.5E+00
6273.0	3	3	9.7E-03	1916.1	4	4	6.9E-01	3248.1	4	4	2.4E-01
6293.7	3	3	6.39E-03	1930.0	2	2	5.7E-01	3255.4	6	4	3.8E-02
6304.8	3	5	4.16E-02	1938.8	2	4	1.3E-01	3263.4	2	4	3.9E-01
6328.2	5	3	3.39E-02	2858.0	6	6	7.9E-01	3269.9	4	6	5.1E-01
6330.9	3	3	2.3E-02	2870.0	6	6	1.7E-01	3270.8	6	4	5.7E-02
6334.4	5	5	1.61E-01	2873.0	6	4	3.8E-01	3297.7	6	6	4.3E-01
6351.9	1	3	3.45E-03	2876.3	4	6	7.8E-01	3309.7	4	2	3.1E-01
6383.0	3	3	3.21E-01	2876.5	6	4	3.3E-01	3310.5	4	4	6.9E-02
6401.1	3	3	1.39E-02	2878.1	2	2	6.9E-02	3311.3	4	2	2.6E-01
6402.2	5	7	5.14E-01	2888.4	4	6	7.0E-02	3314.7	6	6	4.4E-02
6506.5	3	5	3.00E-01	2891.5	4	4	6.1E-02	3319.7	4	2	1.6E+00
6532.9	1	3	1.08E-01	2897.0	6	8	5.2E-02	3320.2	8	6	2.1E-01
6599.0	3	3	2.32E-01	2906.8	2	4	5.5E-01	3323.7	4	4	1.6E+00
6602.9	3	3	5.9E-03	2910.1	4	2	1.7E+00	3327.2	4	4	9.1E-01
6652.1	3	1	2.9E-03	2910.4	2	4	5.9E-01	3329.2	8	8	8.8E-01
6678.3	3	5	2.33E-01	2916.2	6	4	9.6E-02	3330.7	6	6	3.9E-02
6717.0	3	3	2.17E-01	2925.6	2	2	5.6E-01	3334.8	6	8	1.8E+00
6721.1	3	3	4.9E-04	2933.7	6	6	6.9E-02	3336.1	4	6	1.1E+00
6929.5	3	5	1.74E-01	2955.7	6	4	1.2E+00	3344.4	2	2	1.5E+00
7024.1	3	3	1.89E-02	3001.7	4	4	8.7E-01	3345.5	6	4	1.4E+00
7032.4	5	3	2.53E-01	3017.3	6	4	3.5E-01	3345.8	4	4	2.2E-01
7051.3	3	3	3.0E-02	3027.0	6	6	1.4E+00	3353.6	4	2	1.2E-01
7059.1	3	5	6.8E-02	3028.7	4	2	8.5E-01	3355.0	4	6	1.3E+00
7173.9	3	5	2.87E-02	3028.9	2	4	4.7E-01	3356.3	6	6	2.0E-01
7245.2	3	3	9.35E-02	3034.5	6	8	3.1E+00	3357.8	6	6	5.0E-01
7304.8	1	3	2.55E-03	3037.7	4	4	2.1E+00	3360.3	2	4	8.6E-01
7438.9	1	3	2.31E-02	3045.6	2	2	2.5E+00	3360.6	2	4	8.2E-01
7472.4	3	3	4.0E-02	3047.6	4	6	1.8E+00	3362.9	4	2	3.5E-01
7535.8	3	3	4.3E-01	3054.7	2	4	9.4E-01	3371.8	4	6	2.2E-01
7937.0	5	5	7.8E-03	3092.9	6	6	1.3E+00	3374.1	4	4	3.0E-01
8082.5	3	3	1.2E-03	3097.1	8	8	1.3E+00	3378.2	2	2	1.7E+00
8118.5	3	3	4.9E-02	3118.0	8	6	4.2E-02	3379.3	2	2	3.0E-01
8128.9	3	5	7.2E-03	3134.1	6	4	2.6E-01	3386.2	4	6	5.5E-02
8259.4	5	5	2.03E-02	3140.4	8	6	2.4E-01	3388.4	4	6	2.2E+00
8571.4	3	3	5.5E-02	3151.1	6	6	4.8E-02	3390.6	2	4	7.7E-02
8582.9	3	5	1.00E-02	3154.8	8	6	1.8E-02	3392.8	2	4	4.4E-01
8647.0	5	5	3.91E-02	3164.4	8	8	1.6E-01	3404.8	4	6	1.9E+00
8681.9	3	3	2.1E-01	3165.7	6	6	1.2E-01	3407.0	6	8	2.3E+00
8767.5	3	3	1.1E-03	3173.6	6	4	4.5E-02	3411.4	4	2	6.1E-01
8771.7	3	3	1.6E-01	3176.1	4	6	6.0E-02	3413.2	4	4	1.8E+00
8783.8	3	5	3.13E-01	3187.6	4	6	1.4E-02	3414.9	4	6	1.8E-02
8865.3	3	3	9.4E-03	3188.7	6	6	3.9E-01	3416.9	6	6	6.4E-01
9201.8	3	3	9.1E-02	3190.9	4	6	1.5E-01	3417.7	6	8	1.6E+00
9433.0	3	3	1.1E-03	3194.6	4	4	5.2E-01	3438.9	2	2	1.4E+00
9486.7	3	3	2.5E-02	3198.6	6	8	1.7E+00	3440.7	2	4	3.5E-01
9534.2	3	3	6.3E-02	3198.9	4	4	2.3E-01	3453.1	4	4	4.6E-01
10621	3	3	2.4E-03	3209.0	8	8	1.6E-01	3454.8	4	4	1.6E+00
11409	3	3	4.2E-02	3209.4	2	4	6.0E-01	3456.6	2	4	9.6E-01
11525	3	3	8.4E-02	3213.7	2	4	1.7E+00	3457.1	4	6	9.9E-02
11767	3	3	6.9E-02	3214.3	4	6	2.2E+00	3459.3	6	6	1.6E+00
12459	3	3	1.5E-02	3218.2	8	10	3.6E+00	3475.2	4	4	1.2E-02
				3224.8	6	8	3.5E+00	3477.6	4	6	4.3E-01
<i>Ne II</i>				3229.5	8	8	1.3E-01	3481.9	4	2	1.4E+00
*357.03	6	10	3.8E+01	3229.6	8	10	3.6E+00	3503.6	2	2	2.0E+00
*361.77	6	2	1.6E+01	3230.1	6	6	1.8E+00	3522.7	4	2	2.3E-02
*406.28	6	10	1.8E+01	3230.4	4	6	1.4E-01	3538.0	4	2	7.6E-01
*446.37	6	6	4.07E+01	3232.0	6	4	2.7E-01	3539.9	4	4	3.6E-02
460.73	4	2	4.7E+01	3232.4	4	4	1.6E+00	3542.2	6	4	6.0E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3542.9	4	6	1.2E+00	561.38	3	3	7.99E+00	2307.35	5	7	1.6E-01
3546.2	2	4	6.3E-02	561.73	5	5	2.39E+01	2312.34	7	7	5.5E+00
3551.6	2	4	3.7E-02	562.99	3	1	3.17E+01	2313.98	5	5	5.0E+00
3557.8	2	2	1.9E-01	564.53	5	3	1.31E+01	2317.16	7	5	3.8E+00
3561.2	4	6	2.1E-01					2320.03	9	11	6.9E+00
3565.8	4	4	6.2E-01	<i>Ne VIII</i>				2321.38	5	7	5.6E+00
3568.5	6	8	1.4E+00	*88.09	2	6	8.4E+02	2324.65	7	9	1.8E-01
3571.2	4	4	6.3E-01	*98.208	6	10	2.77E+03	2325.79	7	9	3.5E+00
3574.2	6	6	1.0E-01	770.41	2	4	5.90E+00	2329.96	5	3	5.3E+00
3574.6	4	6	1.3E+00	780.32	2	2	5.69E+00	2345.54	9	7	2.2E+00
3590.4	4	6	3.6E-02	2820.7	2	4	7.20E-01	2346.63	7	5	5.5E-01
3594.2	4	2	1.3E+00	2860.1	2	2	6.88E-01	2347.51	9	9	2.2E-01
3612.3	2	4	2.6E-01	<i>Nickel</i>				2348.73	7	7	2.2E-01
3628.0	4	4	6.0E-01	<i>Ni I</i>				2419.31	7	5	2.0E-01
3632.7	4	4	1.3E-01	1963.85	7	7	1.1E-01	2943.91	7	5	1.1E-01
3643.9	4	4	3.2E-01	1976.87	7	9	1.1E+00	2981.65	5	3	2.8E-01
3644.9	2	4	9.9E-01	1981.61	5	5	1.3E-01	3002.48	7	7	8.0E-01
3659.9	4	6	6.7E-02	1990.25	5	7	8.3E-01	3003.62	5	5	6.9E-01
3664.1	6	4	7.0E-01	2007.01	5	5	1.7E-01	3012.00	5	5	1.3E+00
3679.8	4	2	3.2E-01	2007.69	7	7	9.0E-02	3037.93	7	7	2.8E-01
3694.2	6	6	1.0E+00	2014.25	3	5	9.3E-01	3050.82	7	9	6.0E-01
3697.1	2	2	2.8E-01	2025.40	7	5	2.3E-01	3054.31	5	5	4.0E-01
3701.8	4	6	2.7E-01	2026.62	9	7	2.4E-01	3057.64	3	3	1.0E+00
3709.6	4	2	1.1E+00	2047.35	7	5	1.8E-01	3064.62	5	7	1.1E-01
3713.1	4	6	1.3E+00	2052.04	9	9	9.7E-02	3101.56	5	7	6.3E-01
3721.8	4	6	2.0E-01	2055.50	5	3	3.3E-01	3101.88	5	7	4.9E-01
3726.9	4	4	1.2E-01	2059.92	7	5	2.1E-01	3134.11	3	5	7.3E-01
3727.1	2	4	9.8E-01	2060.20	5	3	2.3E-01	3225.02	5	3	9.3E-02
3734.9	4	4	1.9E-01	2064.39	3	1	4.0E-01	3369.56	9	7	1.8E-01
3744.6	2	4	2.6E-01	2069.52	5	5	1.1E-01	3380.57	5	3	1.3E+00
3751.2	2	2	1.8E-01	2085.57	5	5	2.6E+00	3392.98	7	7	2.4E-01
3753.8	4	6	4.5E-01	2089.09	7	5	9.7E-02	3414.76	7	9	5.5E-01
3766.3	4	6	2.9E-01	2095.13	5	7	1.1E-01	3423.71	3	3	3.3E-01
3777.1	2	4	4.2E-01	2114.43	5	5	9.7E-02	3433.56	7	7	1.7E-01
3800.0	4	4	3.7E-01	2121.40	7	5	2.8E-01	3446.26	5	5	4.4E-01
3818.4	2	4	6.1E-01	2124.80	5	3	3.8E-01	3452.88	5	7	9.8E-02
3829.8	4	6	8.4E-01	2147.80	5	3	4.7E-01	3458.46	3	5	6.1E-01
3942.3	4	6	1.0E-02	2157.83	5	3	4.1E-01	3461.66	7	9	2.7E-01
<i>Ne V</i>				2158.31	7	5	6.9E-01	3472.55	5	7	1.2E-01
*142.61	9	9	6.7E+02	2161.04	5	5	1.3E-01	3483.77	5	3	1.4E-01
*143.32	9	15	1.2E+03	2173.54	5	3	1.5E-01	3492.96	5	3	9.8E-01
147.13	5	7	1.5E+03	2174.48	3	1	8.9E-01	3510.33	3	1	1.2E+00
151.23	5	5	3.38E+02	2182.38	7	5	1.3E-01	3515.05	5	7	4.2E-01
154.50	1	3	7.0E+02	2183.91	5	5	1.2E-01	3524.54	7	5	1.0E+00
*167.69	9	9	1.5E+02	2190.22	5	5	3.0E-01	3566.37	5	5	5.6E-01
*358.93	9	3	2.1E+02	2197.35	3	3	7.8E-01	3597.70	3	3	1.4E-01
365.59	5	3	1.35E+02	2201.59	5	3	7.3E-01	3619.39	5	7	6.6E-01
*482.15	9	9	3.01E+01	2221.94	5	3	2.2E-01	4027.67	5	7	1.3E-01
*571.04	9	15	1.0E+01	2244.46	5	5	3.8E-01	4295.88	9	7	1.7E-01
2259.6	3	5	1.9E+00	2253.57	7	7	1.9E-01	4401.54	9	11	3.8E-01
2265.7	5	7	2.4E+00	2254.81	9	9	9.6E-02	4462.46	3	5	1.7E-01
<i>Ne VII</i>				2258.15	7	5	1.7E-01	4470.48	5	7	1.9E-01
97.502	1	3	1.07E+03	2259.56	5	3	2.0E-01	4600.37	5	3	2.6E-01
*115.46	9	3	4.8E+02	2261.42	9	7	9.1E-02	4604.99	9	7	2.3E-01
116.69	3	5	1.6E+03	2287.32	3	5	1.8E-01	4606.23	5	3	1.0E-01
127.66	3	1	1.9E+02	2289.98	9	7	2.1E+00	4648.66	11	9	2.4E-01
465.22	1	3	4.09E+01	2293.11	5	5	3.8E-01	4686.22	5	5	1.4E-01
558.61	3	5	8.11E+00	2300.77	7	7	7.5E-01	4701.54	9	9	1.4E-01
559.95	1	3	1.07E+01	2302.97	3	3	4.5E-01	4714.42	13	11	4.6E-01
								4715.78	7	7	2.0E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
4732.47	7	9	9.3E-02	2270.21	8	10	1.56E+00	187	4	6	1.2E+02
4752.43	3	3	2.0E-01	2278.77	8	6	2.8E+00	187	4	2	3.3E+02
4756.52	9	9	1.5E-01	2287.09	6	4	2.8E+00	188	2	2	4.7E+02
4786.54	11	11	1.8E-01	2296.55	8	8	1.98E+00	190	6	8	2.0E+02
4812.00	3	1	9.5E-02	2297.14	6	4	2.70E+00	192	6	8	4.54E+02
4829.03	5	7	1.9E-01	2297.49	4	2	3.0E+00	192	6	6	3.1E+02
4831.18	9	7	1.6E-01	2298.27	6	6	2.8E+00	194	4	6	2.8E+02
4838.64	9	7	2.2E-01	2303.00	8	6	2.9E+00	194	2	4	5.5E+02
4855.41	5	5	5.7E-01	2316.04	10	8	2.88E+00	194	2	2	1.1E+02
4904.41	5	3	6.2E-01	2334.58	8	8	8.0E-01	194	4	4	3.5E+02
4912.03	3	3	1.5E-01	2375.42	6	8	6.6E-01	194.04	4	6	4.6E+02
4913.97	1	3	2.2E-01	2394.52	8	10	1.70E+00	195.27	4	4	9.5E+01
4918.36	9	7	2.3E-01	2416.13	6	8	2.1E+00	196	4	6	6.7E+02
4935.83	7	5	2.4E-01	2437.89	8	10	5.4E-01	197	4	6	1.5E+02
4937.34	9	9	1.2E-01	2510.87	8	10	5.8E-01	197	4	2	1.2E+02
4953.20	5	5	1.2E-01					199	2	4	4.9E+02
4980.17	9	11	1.9E-01	<i>Ni III</i>				206	2	2	3.7E+02
5000.34	7	7	1.4E-01	1692.51	11	13	7.9E+00	217	4	4	1.1E+02
5012.46	7	7	1.1E-01	1709.90	9	11	6.3E+00	218.391	2	4	9.5E+01
5017.58	11	11	2.0E-01	1719.46	5	7	6.0E+00	223.119	2	2	1.3E+02
5035.37	7	9	5.7E-01	1722.28	3	5	5.9E+00	231	4	4	1.6E+02
5042.20	3	5	1.4E-01	1724.52	3	1	6.7E+00	232.475	4	4	4.07E+02
5048.85	7	7	1.6E-01	1741.96	9	7	5.7E+00	233	6	4	2.4E+02
5080.53	9	11	3.2E-01	1752.43	7	5	5.5E+00	235	4	2	3.8E+02
5081.11	7	9	5.7E-01	1760.56	5	3	6.5E+00	235	6	6	2.5E+02
5082.35	3	3	2.5E-01	1769.64	11	11	6.2E+00	236	4	4	1.2E+02
5084.08	7	9	3.1E-01	1823.06	9	9	5.6E+00	237.875	4	2	2.6E+02
5099.95	7	7	2.9E-01	<i>Ni XIV</i>				238	6	4	1.3E+02
5115.40	11	9	2.2E-01	164.13	6	8	1.2E+03	239.550	2	2	2.6E+02
5129.37	7	5	1.2E-01	168	2	4	2.4E+02	245	4	4	1.4E+02
5155.14	5	5	1.1E-01	168.12	4	2	8.5E+02	245	4	6	3.2E+02
5155.76	5	7	2.9E-01	169.69	4	4	9.8E+02	249	6	8	3.3E+02
5176.57	5	5	1.8E-01	170.50	4	4	7.1E+02	249	6	4	1.2E+02
5371.33	7	7	1.6E-01	171.37	4	6	9.4E+02	250	4	2	1.6E+02
5476.91	1	3	9.5E-02	172.16	6	6	4.7E+02	254	6	4	1.8E+02
5637.12	3	3	1.1E-01	172.80	6	4	1.4E+02	<i>Ni XVII</i>			
5664.02	5	7	1.1E-01	172.80	4	4	5.6E+02	30.919	1	3	2.77E+03
5695.00	3	3	1.7E-01	177.28	4	4	8.9E+01	42.855	1	3	4.75E+03
6086.29	3	5	1.1E-01	181	4	6	7.4E+01	54.451	9	11	1.5E+04
6175.42	3	3	1.7E-01	182.14	4	2	1.5E+02	55.361	1	3	6.7E+03
7122.24	5	7	2.1E-01	196	4	2	3.8E+01	57.348	7	9	1.4E+04
7381.94	9	11	9.7E-02	288.894	4	4	4.6E+01	197.39	1	3	1.6E+02
7422.30	7	5	1.8E-01	292.399	6	6	3.6E+01	199.87	3	5	2.1E+02
7727.66	7	7	1.1E-01	<i>Ni XV</i>				204	3	3	1.8E+02
<i>Ni II</i>				50.249	5	7	6.8E+03	205	3	1	2.4E+02
2165.55	10	10	2.4E+00	60.890	9	11	1.0E+04	206	1	3	3.0E+02
2169.10	8	8	1.58E+00	64.635	7	9	9.6E+03	207.50	5	7	2.5E+02
2174.67	8	10	1.43E+00	163.64	5	7	5.6E+01	215.89	3	5	4.8E+02
2175.15	6	6	1.77E+00	173.73	5	7	7.6E+02	216	1	3	2.7E+02
2184.61	4	4	2.90E+00	175	3	1	5.7E+02	217	5	7	2.4E+02
2201.41	4	6	1.3E+00	179.28	5	7	7.5E+02	227	5	5	1.6E+02
2206.72	6	8	1.66E+00	181	1	3	6.8E+02	249.180	1	3	2.75E+02
2216.48	10	12	3.4E+00	269	3	1	5.3E+01	281.50	3	1	2.1E+02
2220.40	6	8	2.3E+00	278.386	5	5	4.3E+01	282	3	1	2.4E+02
2222.96	10	10	9.8E-01	<i>Ni XVI</i>				284	5	3	1.5E+02
2224.86	8	8	1.55E+00	166	4	6	3.1E+02	292	5	7	2.2E+02
2226.33	6	6	1.3E+00	168	6	8	3.2E+02	<i>Ni XVIII</i>			
2253.85	4	6	1.98E+00	182	2	2	2.5E+02	24.881	2	4	8.6E+02
2264.46	6	8	1.43E+00	185.23	2	4	4.2E+02	25.070	4	6	9.9E+02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
26.02	2	4	1.26E+03	11.48	3	1	1.1E+05	137.01	4	4	2.6E+02
26.020	2	4	1.1E+03	11.48	1	3	4.0E+05	138.80	4	6	7.2E+01
26.046	2	2	1.1E+03	11.517	5	7	1.4E+05	153.47	2	2	1.27E+02
26.218	4	6	1.5E+03	11.539	5	7	1.2E+05	159.69	2	4	8.9E+01
27.98	4	6	1.0E+03	11.67	1	3	8.0E+04				
27.982	2	4	2.0E+03	11.72	3	3	2.3E+04	<i>Ni XXV</i>			
28.018	6	8	1.1E+03	12.454	5	3	3.3E+04	9.30	3	1	9.3E+04
28.220	4	6	2.33E+03	12.472	3	3	1.8E+04	9.31	5	7	8.2E+04
29.383	4	6	1.58E+03	12.502	5	5	2.8E+04	9.32	3	5	7.8E+04
29.422	6	8	1.69E+03					9.34	1	3	1.1E+05
29.779	2	4	1.9E+03	<i>Ni XXII</i>				9.42	3	1	9.0E+04
29.829	2	2	1.9E+03	72.52	4	2	2.84E+02	9.49	3	5	8.9E+04
31.845	4	6	2.7E+03	84.06	6	4	1.2E+03	9.60	1	3	1.8E+05
31.890	6	8	3.0E+03	84.24	4	2	5.6E+02	9.63	3	5	2.4E+05
32.034	2	4	3.4E+03	85.86	4	2	4.9E+02	9.64	3	3	1.3E+05
32.340	4	6	4.0E+03	88.00	4	2	1.2E+03	9.71	3	1	2.3E+05
36.990	4	6	5.5E+03	95.95	2	2	4.4E+02	9.71	3	3	1.8E+05
37.049	6	8	5.9E+03	98.16	4	4	5.2E+02	9.74	5	7	3.0E+05
41.015	2	4	2.97E+03	98.58	4	4	2.45E+02	9.75	3	5	1.3E+05
41.218	2	2	3.2E+03	100.60	6	6	3.9E+02	9.76	1	3	3.03E+05
43.814	2	4	5.5E+03	101.31	6	4	4.83E+02	9.76	5	3	7.5E+04
44.365	4	6	6.8E+03	103.31	4	2	2.66E+02	9.78	5	7	2.9E+05
44.405	4	4	1.14E+03	106.04	4	4	2.36E+02	9.86	5	7	4.8E+05
52.615	4	6	1.5E+04	106.16	4	2	5.1E+02	9.87	3	5	2.03E+05
52.720	6	8	1.6E+04	124.31	2	2	3.7E+02	9.92	5	5	1.3E+05
52.745	6	6	1.06E+03	126.32	4	4	3.3E+02	9.94	5	7	1.29E+05
59.950	6	4	9.6E+02					9.97	3	5	2.5E+05
60.212	4	2	1.1E+03	<i>Ni XXIII</i>				10.08	1	3	2.80E+05
63.512	4	6	7.9E+02	87.66	3	3	2.8E+02				
63.589	6	8	8.5E+02	88.11	5	3	8.3E+02	<i>Ni XXVI</i>			
69.075	4	6	8.0E+02	90.49	3	3	1.77E+02	1.5930	4	2	3.4E+06
76.254	4	6	1.38E+03	90.96	5	3	2.5E+02	1.5935	2	2	4.0E+06
76.359	6	8	1.47E+03	91.83	5	3	7.5E+02	1.5973	4	4	8.1E+06
99.275	2	4	1.0E+03	92.32	3	1	4.39E+02	1.5977	2	4	4.4E+06
100.4	4	6	1.2E+03	100.42	1	3	2.1E+02	1.5982	2	2	7.3E+06
114.46	4	6	2.5E+03	102.08	5	5	5.3E+02	1.5996	2	2	2.7E+06
114.74	6	8	2.7E+03	103.23	3	3	2.4E+02	1.6005	4	6	2.7E+06
				103.67	5	5	1.78E+02	1.6036	4	2	2.1E+06
<i>Ni XIX</i>				104.70	3	1	2.94E+02	9.390	2	4	2.59E+05
9.140	1	3	3.1E+04	106.02	5	5	2.87E+02	9.535	4	6	2.96E+05
9.153	1	3	5.2E+03	108.27	7	5	3.32E+02				
9.977	1	3	1.1E+05	111.23	3	1	2.26E+02	<i>Ni XXVII</i>			
10.110	1	3	9.4E+04	111.78	5	3	2.19E+02	1.2534	1	3	3.35E+05
10.283	1	3	4.7E+03	111.86	1	3	1.7E+02	1.2824	1	3	6.38E+05
10.433	1	3	5.1E+03	112.55	3	1	1.0E+03	1.3500	1	3	1.63E+06
11.539	1	3	4.8E+04	128.87	5	5	4.02E+02	1.3516	1	3	2.4E+05
11.599	1	3	6.3E+03	133.54	3	3	1.86E+02	1.531	3	3	2.0E+05
12.435	1	3	3.66E+05	137.55	3	1	2.53E+02	1.534	3	1	6.9E+06
12.656	1	3	1.0E+05					1.537	5	5	2.3E+06
13.779	1	3	1.23E+04	<i>Ni XXIV</i>				1.537	1	3	3.7E+06
14.043	1	3	1.31E+04	101.13	6	4	1.63E+02	1.538	3	5	3.9E+06
40.7	3	3	6.4E+03	102.11	4	4	5.4E+02	1.539	1	3	2.6E+06
40.7	3	1	8.4E+03	103.43	2	4	1.3E+02	1.539	3	5	2.6E+06
41.132	7	9	9.4E+03	103.53	4	2	4.17E+02	1.540	3	3	1.7E+06
				104.64	2	2	4.7E+02	1.541	3	5	5.5E+06
<i>Ni XXI</i>				106.68	4	2	3.67E+02	1.542	3	3	3.6E+06
11.13	3	3	1.7E+04	113.14	4	4	1.65E+02	1.542	5	5	3.5E+06
11.23	5	3	1.7E+04	118.52	2	4	1.5E+02	1.544	5	3	3.2E+06
11.239	5	7	5.7E+04	122.72	6	4	2.17E+02	1.546	3	5	1.6E+06
11.28	3	1	2.2E+05	134.73	6	6	1.44E+02	1.547	3	3	2.1E+05
11.318	5	7	2.8E+05	135.47	4	4	8.0E+01	1.549	1	3	2.0E+05

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
1.551	3	1	8.2E+05	6926.67	4	6	7.75E-03	9968.51	6	4	4.50E-03
1.558	3	1	6.5E+05	6945.18	6	6	1.83E-02	9980.42	4	6	8.10E-03
1.5883	1	3	6.02E+06	6951.60	2	4	1.03E-02	9997.73	8	8	9.20E-03
1.5963	1	3	7.70E+05	6960.50	4	4	4.67E-03				
<i>Nitrogen</i>											
<i>NI</i>											
1163.88	6	6	7.52E-01	6973.07	2	2	3.83E-03	<i>NII</i>			
1164.00	4	6	1.27E-02	6979.18	6	4	9.83E-03	474.891	5	5	9.66E+00
1164.21	6	4	5.17E-02	6982.03	4	2	2.04E-02	475.647	1	3	1.17E+01
1164.32	4	4	6.94E-01	7423.64	2	4	5.95E-02	475.698	3	5	1.58E+01
1167.45	6	8	1.29E+00	7442.30	4	4	1.24E-01	475.757	3	3	8.75E+00
1168.42	6	6	4.24E-02	7468.31	6	4	1.93E-01	475.803	5	7	2.10E+01
1168.54	4	6	1.24E+00	7898.98	6	4	2.82E-01	475.884	5	5	5.25E+00
1176.51	6	4	9.22E-01	7899.28	4	4	3.28E-02	508.697	5	5	1.91E+00
1176.63	4	4	1.02E-01	7915.42	4	2	3.13E-01	510.758	5	7	1.87E+01
1177.69	4	2	1.02E+00	8184.86	4	6	8.58E-02	513.849	5	5	1.24E+01
1199.55	4	6	4.01E+00	8188.01	2	4	1.27E-01	529.355	1	3	7.23E+00
1200.22	4	4	3.99E+00	8200.36	2	2	4.95E-02	529.413	3	1	2.43E+01
1200.71	4	2	3.98E+00	8210.72	4	4	4.84E-02	529.491	3	3	6.75E+00
1310.54	4	6	8.42E-01	8216.34	6	6	2.23E-01	529.637	3	5	4.92E+00
1316.29	4	6	1.42E-02	8223.13	4	2	2.64E-01	529.722	5	3	1.03E+01
1492.63	6	4	3.13E+00	8242.39	6	4	1.36E-01	529.867	5	5	1.94E+01
1492.82	4	4	3.51E-01	8567.74	2	4	4.92E-02	533.511	1	3	2.39E+01
1494.68	4	2	3.72E+00	8594.00	2	2	2.09E-01	533.581	3	5	3.20E+01
3822.03	2	2	3.70E-02	8629.24	4	4	2.66E-01	533.650	3	3	1.66E+01
3830.43	4	4	4.67E-02	8655.88	4	2	1.05E-01	533.729	5	7	4.13E+01
3834.22	4	2	1.89E-02	8680.28	6	8	2.46E-01	533.815	5	5	9.19E+00
4099.94	2	4	3.48E-02	8683.40	4	6	1.80E-01	547.818	5	3	2.16E+00
4109.95	4	6	3.90E-02	8686.15	2	4	1.09E-01	559.762	1	3	1.14E+01
4113.97	4	4	6.62E-03	8703.25	2	2	2.10E-01	574.650	5	7	3.60E+01
4137.64	2	4	2.80E-03	8711.70	4	4	1.28E-01	582.156	5	5	2.85E+01
4143.43	4	4	6.09E-03	8718.84	6	6	6.75E-02	635.197	1	3	2.33E+01
4151.48	6	4	1.01E-02	8728.90	4	2	3.76E-02	644.634	1	3	1.21E+01
4249.87	4	2	2.59E-02	8747.37	6	4	1.04E-02	644.837	3	3	3.64E+01
4264.00	6	4	2.26E-02	9028.92	2	2	3.02E-01	645.178	5	3	6.07E+01
4356.29	6	8	5.10E-02	9045.88	6	8	2.80E-01	660.286	5	3	3.69E+01
4385.54	2	2	8.84E-03	9049.49	6	6	1.88E-02	671.016	3	5	2.47E+00
4392.41	4	2	1.76E-02	9049.89	4	6	2.60E-01	671.386	5	5	7.40E+00
4435.43	2	4	7.51E-03	9060.48	2	4	2.95E-01	671.411	1	3	3.04E+00
4442.45	4	4	3.81E-02	9187.45	6	6	2.44E-01	671.630	3	3	2.27E+00
4669.89	4	4	7.49E-03	9187.86	4	6	1.76E-02	671.773	3	1	9.85E+00
4914.94	2	2	8.08E-03	9207.59	6	4	2.70E-02	672.001	5	3	3.87E+00
4935.12	4	2	1.76E-02	9208.00	4	4	2.33E-01	745.841	1	3	1.25E+01
5199.84	2	2	1.87E-02	9386.81	2	4	2.24E-01	746.984	5	3	3.85E+01
5201.61	2	4	1.87E-02	9392.79	4	6	2.63E-01	748.369	5	3	3.83E+00
5281.20	6	6	2.45E-03	9460.68	4	4	3.98E-02	775.965	5	5	3.08E+01
5344.05	6	6	6.10E-04	9776.90	2	4	1.18E-02	915.612	1	3	4.38E+00
5356.62	4	6	1.41E-03	9786.78	4	6	1.13E-02	915.962	3	1	1.32E+01
5367.01	4	4	1.07E-03	9788.29	2	2	2.99E-02	1083.99	1	3	2.18E+00
5372.61	2	4	8.34E-04	9798.56	4	4	2.75E-02	1085.55	5	5	9.47E-01
5378.27	2	2	1.66E-03	9810.01	4	2	5.30E-02	1085.70	5	7	3.87E+00
6606.18	4	6	8.87E-04	9814.02	6	8	6.56E-03	3408.13	3	1	2.19E-01
6622.54	6	6	7.93E-03	9822.75	6	6	4.95E-02	3437.14	3	1	2.07E+00
6626.99	2	4	2.20E-03	9834.61	6	4	4.50E-02	3593.60	3	5	1.21E-01
6636.94	4	4	1.40E-02	9863.33	8	8	9.62E-02	3609.10	3	3	1.41E-01
6644.96	8	6	3.49E-02	9872.15	8	6	2.97E-02	3615.86	3	1	1.53E-01
6646.50	2	2	2.18E-02	9883.38	2	2	2.93E-02	3829.80	3	5	2.42E-01
6653.46	6	4	2.74E-02	9905.52	4	2	3.11E-03	3838.37	5	5	6.98E-01
6656.51	4	2	2.17E-02	9909.22	2	4	7.58E-03	3842.19	1	3	3.06E-01
				9931.47	4	4	3.64E-02	3847.40	3	3	2.22E-01
				9947.07	6	8	1.08E-02	3855.10	3	1	8.82E-01
				9965.75	4	6	7.60E-03	3856.06	5	3	3.71E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3919.00	3	3	6.76E-01	5025.66	7	7	1.07E-01	5931.78	3	5	4.27E-01
3955.85	3	5	1.31E-01	5040.71	7	5	3.78E-03	5940.24	3	3	2.26E-01
3995.00	3	5	1.35E+00	5045.10	5	3	3.42E-01	5941.65	5	7	5.54E-01
4114.33	3	3	1.42E-03	5073.59	3	3	2.59E-02	5952.39	5	5	1.27E-01
4124.08	3	5	3.20E-01	5168.05	3	5	3.06E-01	5960.91	5	3	1.34E-02
4133.67	5	5	5.30E-01	5170.16	3	3	6.54E-01	6065.00	3	5	2.21E-03
4145.77	7	5	7.36E-01	5171.27	3	1	8.71E-01	6284.32	5	3	7.74E-02
4374.99	3	5	5.55E-03	5171.47	5	7	5.81E-01	6379.62	3	3	6.11E-02
4447.03	3	5	1.14E+00	5172.34	3	5	6.01E-01	6482.05	3	3	3.01E-01
4459.94	3	1	1.12E-01	5172.97	1	3	5.01E-01	6610.56	5	7	6.34E-01
4465.53	3	3	2.36E-02	5173.39	5	7	7.36E-01	6857.03	5	3	2.53E-01
4477.68	5	3	8.85E-02	5174.46	5	5	5.07E-01	6869.58	5	5	2.51E-01
4488.09	5	5	1.30E-02	5175.89	7	9	8.93E-01	6887.83	5	7	2.49E-01
4507.56	7	5	1.00E-01	5176.57	5	3	2.17E-01	7762.24	5	5	8.74E-02
4564.76	3	5	1.41E-02	5177.06	3	3	5.00E-01	8438.74	1	3	2.24E-01
4601.48	3	5	2.35E-01	5179.34	7	9	8.67E-01	8831.75	1	3	8.42E-03
4607.15	1	3	3.26E-01	5179.52	9	11	1.07E+00	8855.30	3	3	2.51E-02
4613.87	3	3	2.26E-01	5180.36	5	5	4.28E-01	8893.29	5	3	4.12E-02
4621.39	3	1	9.55E-01	5183.20	7	7	2.88E-01				
4630.54	5	5	7.72E-01	5184.96	7	7	3.20E-01	<i>N III</i>			
4643.09	5	3	4.51E-01	5185.09	5	3	7.11E-02	374.198	2	4	9.89E+01
4654.53	3	5	2.43E-02	5186.21	7	5	5.76E-02	451.871	2	2	1.03E+01
4667.21	3	3	2.99E-02	5190.38	9	9	1.77E-01	452.227	4	2	2.05E+01
4674.91	3	1	1.05E-01	5191.96	7	5	4.25E-02	684.998	2	4	9.63E+00
4694.27	1	3	1.23E-01	5199.50	9	7	1.51E-02	685.515	2	2	3.83E+01
4695.90	3	5	1.29E-01	5313.42	3	3	1.41E-01	685.817	4	4	4.54E+01
4697.64	3	3	3.06E-02	5320.20	5	3	4.20E-01	686.336	4	2	1.95E+01
4698.55	3	1	3.67E-01	5320.96	3	5	2.52E-01	763.334	2	2	9.58E+00
4700.03	5	7	1.05E-01	5327.76	5	5	4.65E-02	764.351	4	2	1.85E+01
4702.50	5	5	9.15E-02	5338.73	5	7	1.85E-01	771.545	2	4	8.19E+00
4704.25	5	3	2.13E-01	5340.21	7	5	2.59E-01	771.901	4	4	1.64E+01
4706.40	7	9	6.09E-02	5351.23	7	7	3.67E-01	772.384	6	4	2.45E+01
4709.58	7	7	1.82E-01	5383.72	3	5	3.31E-03	772.889	6	4	2.09E+01
4712.07	7	5	1.46E-01	5452.07	1	3	8.89E-02	772.955	4	2	2.34E+01
4718.38	9	9	3.02E-01	5454.22	3	1	3.34E-01	979.832	4	4	8.84E+00
4721.58	9	7	7.75E-02	5462.58	3	3	1.00E-01	979.905	6	6	9.21E+00
4774.24	3	5	3.24E-02	5478.09	3	5	4.75E-02	989.799	2	4	4.18E+00
4779.72	3	3	2.52E-01	5480.05	5	3	1.30E-01	991.511	4	4	8.17E-01
4781.19	5	7	2.05E-02	5495.65	5	5	2.40E-01	991.577	4	6	4.97E+00
4788.14	5	5	2.52E-01	5526.23	3	5	2.13E-01	1747.85	2	4	1.28E+00
4793.65	5	3	7.77E-02	5530.24	5	7	4.04E-01	1751.22	4	4	2.48E-01
4803.29	7	7	3.18E-01	5535.35	7	9	6.04E-01	1751.66	4	6	1.51E+00
4810.30	7	5	4.75E-02	5535.38	3	3	4.53E-01	2972.55	2	2	6.67E-01
4860.17	3	5	1.61E-02	5540.06	3	1	6.03E-01	2977.33	4	2	3.32E-01
4987.38	3	1	7.48E-01	5543.47	5	5	3.51E-01	2978.84	2	4	1.66E-01
4991.24	3	5	3.54E-01	5551.92	7	7	2.00E-01	2983.64	4	4	8.24E-01
4994.36	5	7	2.62E-01	5552.68	5	3	1.50E-01	3342.76	2	2	3.80E-01
4994.37	3	3	7.60E-01	5565.26	7	5	3.97E-02	3353.98	2	4	7.66E-01
4997.22	3	3	1.96E-01	5666.63	3	5	3.74E-01	3354.32	4	6	5.51E-01
5001.13	3	5	9.76E-01	5676.02	1	3	2.96E-01	3355.46	4	2	7.51E-01
5001.47	5	7	1.05E+00	5679.56	5	7	5.25E-01	3358.78	2	2	3.05E-01
5002.70	1	3	8.45E-02	5686.21	3	3	1.94E-01	3360.98	4	4	2.44E-01
5005.15	7	9	1.16E+00	5710.77	5	5	1.24E-01	3365.80	4	2	1.52E+00
5005.30	5	5	6.51E-02	5730.66	5	3	1.34E-02	3367.36	6	6	1.27E+00
5007.33	3	5	7.89E-01	5747.30	3	5	3.40E-02	3374.07	6	4	8.13E-01
5010.62	3	3	2.19E-01	5767.45	3	3	2.44E-02	3745.95	2	4	1.90E-01
5011.31	5	3	5.84E-01	5893.15	5	7	2.88E-01	3752.63	2	2	6.67E-02
5012.04	7	7	5.19E-01	5897.25	3	5	2.16E-01	3754.69	4	4	3.78E-01
5016.38	5	5	1.62E-01	5899.83	1	3	1.60E-01	3762.60	4	4	4.24E-02
5023.05	7	5	3.61E-01	5927.81	1	3	3.22E-01	3771.03	6	4	5.59E-01

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
3771.36	6	4	8.28E-02	7371.51	4	4	3.53E-02	7103.24	1	3	6.28E-02
3792.97	8	6	1.03E-01	7404.54	6	6	3.61E-02	7109.35	3	5	8.46E-02
3934.50	2	4	7.49E-01	8307.51	2	4	1.65E-02	7111.28	3	3	4.70E-02
3938.51	4	6	8.96E-01	8344.95	2	2	6.52E-02	*7116.8	9	15	1.12E-01
3942.88	4	4	1.49E-01	8386.39	4	4	8.03E-02	7122.98	5	7	1.12E-01
4097.36	2	4	8.70E-01	8424.56	4	2	3.17E-02	7127.25	5	5	2.80E-02
4103.39	2	2	8.67E-01					7127.25	5	3	3.11E-03
4195.74	2	4	9.37E-01	<i>NI V</i>				9165.07	3	5	4.23E-02
4200.07	4	6	1.12E+00	247.205	1	3	1.19E+02	9182.16	5	7	4.45E-02
4215.77	4	4	1.85E-01	*283.52	9	15	3.05E+02	9222.99	7	9	4.95E-02
4318.78	2	4	5.40E-02	*322.64	9	3	8.99E+01	9247.04	5	5	7.66E-03
4321.22	2	2	1.08E-01	335.047	3	5	1.845E+02	9311.55	7	7	5.36E-03
4321.39	4	6	5.03E-02	387.356	3	1	2.55E+01				
4325.43	4	4	8.60E-02	765.147	1	3	2.320E+01	<i>NI V</i>			
4327.69	6	8	3.06E-02	*923.16	9	9	1.759E+01	*209.29	2	6	1.21E+02
4327.88	4	2	1.07E-01	955.334	3	1	2.919E+01	*247.66	6	10	4.26E+02
4332.95	6	6	1.23E-01	1718.55	3	5	2.321E+00	1238.82	2	4	3.40E+00
4337.01	6	4	7.47E-02	2649.88	3	3	1.07E+00	1242.80	2	2	3.37E+00
4345.81	8	8	1.82E-01	3052.20	1	3	1.33E-01	4603.74	2	4	4.14E-01
4351.11	8	6	4.01E-02	3059.60	3	3	3.95E-01	4619.97	2	2	4.10E-01
4510.88	2	4	2.84E-01	3075.19	5	3	6.48E-01				
4510.96	4	6	4.77E-01	3443.61	3	5	3.46E-01	<i>NI VI</i>			
4514.85	6	8	6.80E-01	3445.22	1	3	4.60E-01	24.8980	1	3	5.158E+03
4518.14	2	2	5.65E-01	3454.65	3	3	3.42E-01	28.7870	1	3	1.809E+04
4523.56	4	4	3.61E-01	3461.36	3	1	1.36E+00	*161.220	3	9	2.859E+02
4530.86	4	2	1.12E-01	3463.36	5	5	1.02E+00	173.275	1	3	2.697E+02
4534.58	6	6	2.01E-01	3474.53	5	3	5.61E-01	*173.93	9	15	8.756E+02
4547.30	6	4	3.33E-02	3478.72	3	5	1.06E+00	185.192	3	5	8.205E+02
4634.13	2	4	6.36E-01	*3480.8	3	9	1.06E+00	*1901	3	9	6.780E-01
4640.64	4	6	7.60E-01	3483.00	3	3	1.06E+00	2896.4	1	3	2.079E-01
4641.85	4	4	1.26E-01	3484.93	3	1	1.06E+00	*6991.1	3	9	8.384E-02
4858.70	2	4	4.35E-01	3689.94	3	1	9.10E-02	9622.0	1	3	3.276E-02
4858.98	4	6	4.66E-01	3694.14	3	3	2.27E-02				
4861.27	6	8	5.32E-01	3707.39	5	3	6.73E-02	<i>Oxygen</i>			
4867.12	4	4	1.73E-01	3714.43	5	5	1.34E-02	<i>O I</i>			
4867.17	8	10	6.18E-01	3735.43	7	5	7.37E-02	791.973	5	5	4.94E+00
4873.60	6	6	1.50E-01	3747.54	3	5	9.92E-01	792.938	1	3	2.19E+00
4881.78	6	4	1.22E-02	4057.76	3	5	6.62E-01	792.967	3	5	1.64E+00
4884.14	8	8	8.71E-02	4740.26	3	5	1.53E-02	877.798	5	3	2.85E+00
4896.58	8	6	5.86E-03	4747.96	3	3	7.60E-02	877.879	5	5	5.12E+00
5260.86	2	2	2.80E-02	4752.49	5	7	1.13E-02	922.008	5	7	1.23E+00
5270.57	2	4	6.95E-02	4762.09	5	5	6.99E-02	935.193	5	5	1.33E+00
5272.68	4	2	1.39E-01	4769.86	5	3	2.50E-02	1028.16	1	3	4.22E-01
5282.43	4	4	2.21E-02	4786.92	7	7	8.79E-02	1152.15	5	5	5.28E+00
5297.75	4	6	4.93E-02	4796.66	7	5	1.53E-02	1217.65	1	3	2.06E+00
5298.95	6	4	7.38E-02	5200.41	3	5	2.67E-01	1302.17	5	3	3.41E+00
5314.36	6	6	1.14E-01	5204.28	5	7	3.55E-01	1304.86	3	3	2.03E+00
5320.87	6	8	5.68E-01	5205.15	1	3	1.97E-01	1306.03	1	3	6.76E-01
5327.19	4	6	5.29E-01	5226.70	3	3	1.46E-01	3823.41	7	7	6.63E-03
5352.46	6	6	3.72E-02	5245.60	5	5	8.66E-02	3823.87	5	3	1.87E-03
6365.84	2	2	2.18E-01	5272.35	5	3	9.48E-03	3824.35	5	5	5.19E-03
6394.75	2	4	2.15E-01	5288.25	5	3	3.22E-02	3825.02	3	3	5.59E-03
6445.34	2	4	8.89E-02	5736.93	3	5	1.84E-01	3825.19	5	7	8.31E-04
6450.79	2	2	1.77E-01	5776.31	1	3	1.85E-02	3855.01	5	5	1.63E-02
6454.08	4	6	1.49E-01	5784.76	3	1	5.51E-02	3947.29	5	7	4.91E-03
6463.09	4	4	1.13E-01	5795.09	3	3	1.37E-02	3947.48	5	5	4.88E-03
6467.02	6	8	2.11E-01	5812.31	3	5	1.36E-02	3947.59	5	3	4.87E-03
6468.57	4	2	3.52E-02	5826.43	5	3	2.25E-02	3951.93	3	1	3.10E-03
6478.76	6	6	6.31E-02	5843.84	5	5	4.01E-02	3952.98	5	3	1.29E-03
6487.84	6	4	1.05E-02	6380.75	1	3	1.42E-01	3953.00	1	3	1.03E-03
								3954.52	3	5	7.73E-04

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3954.61	5	5	2.32E-03	9260.85	3	3	3.34E-01	3843.58	4	6	3.55E-02
3997.95	5	3	2.41E-02	9260.94	3	5	1.56E-01	3847.89	2	2	1.95E-01
4217.09	3	1	5.44E-03	9262.58	5	3	1.11E-01	3850.80	4	6	6.00E-03
4222.77	5	3	2.26E-03	9262.67	5	5	2.60E-01	3851.03	4	4	1.59E-01
4222.82	1	3	1.81E-03	9262.78	5	7	2.97E-01	3851.47	8	8	2.72E-02
4233.27	5	5	4.04E-03	9265.83	7	5	2.97E-02	3856.13	4	2	2.28E-01
4368.19	3	1	7.56E-03	9265.93	7	7	1.48E-01	3857.16	6	6	6.59E-02
4368.24	3	5	7.59E-03	9266.01	7	9	4.45E-01	3863.50	6	8	6.49E-02
4967.38	3	5	4.43E-03	9482.89	5	3	2.34E-01	3864.13	2	2	9.12E-02
4967.88	5	7	8.44E-03	9622.11	5	3	5.22E-04	3864.43	6	6	2.15E-01
4968.79	7	9	1.27E-02	9622.16	3	3	1.57E-03	3864.67	6	4	1.80E-01
5019.29	5	5	7.13E-03	9625.26	7	5	3.25E-04	3874.09	2	4	3.26E-02
5020.22	7	5	9.98E-03	9625.30	7	7	1.85E-03	3875.80	8	6	3.38E-02
5329.11	3	5	9.48E-03	9694.66	5	7	4.54E-04	3882.19	8	8	5.50E-01
5329.69	5	7	1.81E-02	9694.91	5	5	4.54E-04	3882.45	4	4	8.94E-02
5330.74	7	9	2.71E-02	9695.06	5	3	4.54E-04	3883.14	8	6	1.13E-01
5435.18	3	5	7.74E-03	<i>O II</i>				3893.52	4	6	1.89E-02
5435.77	5	5	1.29E-02	429.918	4	2	4.25E+01	3907.45	6	6	8.64E-02
5436.86	7	5	1.80E-02	430.041	4	4	4.13E+01	3911.96	6	4	1.09E+00
5512.60	3	5	2.69E-03	430.176	4	6	4.36E+01	3912.12	4	4	1.41E-01
5512.77	5	7	3.58E-03	483.760	4	2	2.05E+01	3919.27	4	2	1.22E+00
5554.83	3	3	5.83E-03	483.980	6	4	1.80E+01	3945.04	2	4	2.05E-01
5555.00	5	3	9.71E-03	484.027	4	4	3.22E+00	3954.36	2	2	8.57E-01
5958.39	3	5	6.80E-03	485.087	6	8	2.60E+01	3973.26	4	4	1.04E+00
5958.58	5	7	9.06E-03	485.470	6	6	1.20E+00	3982.71	4	2	4.27E-01
6046.23	3	3	1.05E-02	485.518	4	6	1.93E+01	4069.62	2	4	1.52E+00
6046.44	5	3	1.75E-02	2290.85	2	4	7.41E-02	4069.88	4	6	1.53E+00
6046.49	1	3	3.50E-03	2293.30	2	2	3.25E-01	4072.15	6	8	1.98E+00
6155.99	3	5	2.67E-02	2300.33	4	4	4.17E-01	4075.86	8	10	2.11E+00
6156.78	5	7	5.08E-02	2302.81	4	2	1.67E-01	4078.84	4	4	5.52E-01
6158.19	7	9	7.62E-02	2365.14	4	2	1.52E-01	4084.65	6	8	7.28E-02
6324.84	7	5	3.76E-05	2375.72	6	4	1.35E-01	4085.11	6	6	4.55E-01
6453.60	3	5	1.65E-02	2406.38	6	4	1.85E-01	4092.93	8	8	2.65E-01
6454.44	5	5	2.75E-02	2407.48	4	4	2.25E-01	4094.14	6	4	4.70E-02
6455.98	7	5	3.85E-02	2411.60	4	2	2.05E-01	4096.53	4	6	1.73E-01
6726.28	5	5	1.18E-05	2411.64	2	2	1.10E-01	4097.22	2	4	3.62E-01
6726.54	5	3	6.44E-06	2415.13	4	2	2.20E-01	4103.00	2	2	5.09E-01
7001.92	3	5	2.65E-02	2418.46	6	6	2.30E-01	4104.72	4	6	3.14E-01
7002.23	5	7	3.53E-02	2425.57	6	6	1.77E-01	4104.99	4	4	9.14E-01
7254.15	3	3	2.24E-02	2433.54	2	4	4.21E-01	4106.02	8	6	1.70E-02
7254.45	5	3	3.73E-02	2436.06	4	4	1.69E-01	4109.84	6	6	1.21E-02
7254.53	1	3	7.45E-03	2444.25	4	4	7.56E-02	4110.19	6	4	2.54E-01
7771.94	5	7	3.69E-01	2445.53	4	6	4.98E-01	4110.79	4	2	7.70E-01
7774.17	5	5	3.69E-01	2517.96	4	6	7.72E-02	4112.02	6	6	1.81E-01
7775.39	5	3	3.69E-01	2523.21	2	2	9.63E-02	4113.83	8	6	2.41E-01
7981.94	3	3	2.33E-04	2526.87	4	4	1.20E-01	4119.22	6	8	1.33E+00
7982.40	1	3	3.09E-04	2530.28	6	8	8.16E-02	4120.28	6	6	2.15E-01
7986.98	3	5	4.19E-04	2571.46	2	4	1.15E-01	4120.55	6	4	2.60E-01
7987.33	5	5	1.41E-04	2575.28	4	6	1.37E-01	4121.46	2	2	5.60E-01
7995.07	5	7	5.63E-04	3134.73	8	6	1.23E+00	4129.32	4	2	1.79E-01
8221.82	7	7	2.89E-01	3273.43	8	6	9.99E-01	4132.80	2	4	9.13E-01
8227.65	5	3	8.13E-02	3377.15	2	2	1.27E+00	4140.70	4	4	4.09E-02
8230.00	5	5	2.26E-01	3390.21	2	4	1.22E+00	4153.30	4	6	7.91E-01
8233.00	3	3	2.43E-01	3407.28	6	6	1.02E+00	4156.53	6	4	2.11E-01
8235.35	3	5	4.86E-02	3712.74	2	4	2.84E-01	4169.22	6	6	2.71E-01
8446.25	3	1	3.22E-01	3727.32	4	4	5.81E-01	4185.44	6	8	1.91E+00
8446.36	3	5	3.22E-01	3749.48	6	4	9.31E-01	4189.58	8	8	7.06E-02
8446.76	3	3	3.22E-01	3833.07	6	8	1.02E-02	4189.79	8	10	1.98E+00
8820.42	5	7	2.93E-01	3842.81	2	4	7.45E-02	4192.51	6	4	3.21E-01
9260.81	3	1	4.46E-01					4196.27	4	4	3.56E-02

λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k	
4196.70	4	2	3.56E-01
4317.14	2	4	3.70E-01
4319.63	4	6	2.55E-01
4319.87	2	2	5.62E-01
4325.76	2	2	1.47E-01
4327.46	6	6	6.76E-01
4327.85	6	4	7.24E-02
4328.59	4	2	1.12E+00
4331.47	4	6	4.82E-02
4331.86	4	4	6.50E-01
4336.86	4	4	1.57E-01
4345.56	4	2	8.31E-01
4347.22	6	4	1.19E-01
4347.41	4	4	9.32E-01
4349.43	6	6	6.91E-01
4351.26	6	6	9.89E-01
4351.46	4	6	5.82E-02
4359.40	4	6	1.44E-02
4366.89	6	4	3.98E-01
4369.27	4	4	3.57E-01
4395.93	6	6	3.91E-01
4405.98	6	4	4.30E-02
4414.90	4	6	8.34E-01
4416.97	2	4	7.13E-01
4443.01	6	6	5.05E-01
4443.52	6	8	1.89E-02
4447.68	8	6	2.52E-02
4448.19	8	8	5.10E-01
4452.38	4	4	1.37E-01
4466.24	2	4	9.00E-01
4467.46	2	2	9.00E-01
4563.18	4	4	7.18E-03
4590.97	6	8	8.85E-01
4595.96	6	6	4.87E-02
4596.18	4	6	8.34E-01
4638.86	2	4	3.71E-01
4641.81	4	6	5.96E-01
4649.13	6	8	7.81E-01
4650.84	2	2	6.86E-01
4661.63	4	4	4.10E-01
4673.73	4	2	1.35E-01
4676.23	6	6	2.05E-01
4690.89	2	4	1.86E-01
4691.42	2	2	7.43E-01
4696.35	6	4	3.25E-02
4698.44	6	6	6.59E-02
4699.01	6	8	9.88E-01
4699.22	4	6	9.36E-01
4701.18	4	4	9.23E-01
4701.71	4	2	3.69E-01
4703.16	4	6	9.20E-01
4705.35	6	8	1.10E+00
4710.01	4	6	2.98E-01
4741.70	6	6	4.71E-02
4751.28	6	8	6.39E-02
4752.69	6	6	1.45E-02
4844.92	4	6	1.02E-02
4856.39	4	6	5.58E-02
4856.76	4	4	1.00E-01
4860.97	2	4	4.70E-01

λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k	
4864.88	4	2	8.07E-02
4871.52	4	6	5.60E-01
4872.02	4	4	9.34E-02
4890.86	4	2	4.80E-01
4906.83	4	4	4.54E-01
4924.53	4	6	5.43E-01
4941.07	2	4	5.87E-01
4943.01	4	6	7.78E-01
4955.71	4	4	1.82E-01
5159.94	2	2	3.29E-01
5175.90	4	2	1.49E-01
5190.50	2	4	1.26E-01
5206.65	4	4	3.58E-01
5583.22	2	4	2.17E-02
5611.07	2	2	2.14E-02
6627.37	4	2	1.73E-01
6641.03	2	2	9.88E-02
6666.66	4	2	6.78E-02
6677.87	2	4	3.37E-02
6717.75	2	2	1.33E-01
6721.39	4	2	1.81E-01
6810.48	6	8	1.64E-03
6844.10	4	6	2.97E-03
6846.80	8	8	3.17E-02
6869.48	6	6	5.35E-02
6884.88	4	4	6.12E-02
6895.10	10	8	2.72E-01
6906.44	8	6	2.48E-01
6907.87	4	2	3.03E-01
6910.56	6	4	2.43E-01
<i>O III</i>			
263.694	1	3	3.32E+01
263.727	3	5	4.48E+01
263.773	3	3	2.49E+01
263.817	5	7	5.97E+01
263.861	5	5	1.49E+01
277.386	5	7	9.43E+01
279.788	5	5	4.25E+01
295.942	1	3	5.56E+01
303.413	1	3	4.29E+01
303.461	3	1	1.29E+02
303.517	3	3	3.21E+01
303.622	3	5	3.21E+01
303.695	5	3	5.34E+01
303.800	5	5	9.61E+01
305.596	1	3	1.20E+02
305.656	3	5	1.62E+02
305.702	3	3	9.01E+01
305.767	5	7	2.16E+02
305.836	5	5	5.40E+01
320.978	5	7	2.17E+02
328.448	5	5	1.04E+02
345.312	1	3	1.35E+02
374.073	5	5	2.85E+01
395.557	5	3	2.80E+01
507.388	1	3	1.61E+01
507.680	3	3	4.82E+01
508.178	5	3	8.04E+01
525.794	5	3	9.60E+01

λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k	
597.814	1	3	1.49E+01
599.590	5	5	5.41E+01
702.337	1	3	6.06E+00
702.838	3	1	1.83E+01
832.929	1	3	3.41E+00
835.092	5	5	1.44E+00
835.289	5	7	5.99E+00
1679.03	3	5	6.57E-01
1686.73	3	3	6.48E-01
1760.41	3	5	8.38E-01
1764.46	5	5	2.50E+00
1766.63	1	3	1.11E+00
1772.28	3	1	3.29E+00
1772.97	5	3	1.37E+00
2390.43	3	3	1.62E+00
2454.97	3	1	3.43E+00
2665.68	3	5	6.75E-01
2674.58	5	5	1.11E+00
2683.66	3	1	1.85E+00
2686.15	7	5	1.54E+00
2687.55	3	3	1.84E+00
2695.48	3	5	1.82E+00
2794.14	3	1	1.82E-01
2798.93	3	3	4.52E-02
2809.66	5	3	1.34E-01
2818.70	5	5	2.66E-02
2836.31	7	5	1.46E-01
2959.69	3	5	1.83E+00
2983.78	3	5	2.15E+00
2992.08	3	5	9.32E-02
2996.48	3	3	4.64E-01
2997.69	5	7	6.88E-02
3004.34	5	5	4.27E-01
3008.78	5	3	1.53E-01
3017.62	7	7	5.38E-01
3023.43	3	5	4.79E-01
3024.36	7	5	9.39E-02
3024.54	1	3	6.16E-01
3035.41	3	3	4.59E-01
3042.07	3	1	1.94E+00
3047.10	5	5	1.49E+00
3059.28	5	3	8.72E-01
3064.98	1	3	2.17E-01
3068.13	3	1	6.49E-01
3068.26	3	3	5.41E-02
3068.67	3	5	2.27E-01
3074.14	5	7	1.84E-01
3074.72	5	3	3.76E-01
3075.13	5	5	1.61E-01
3075.95	7	9	1.07E-01
3083.65	7	7	3.20E-01
3084.64	7	5	2.55E-01
3088.04	9	9	5.30E-01
3095.79	9	7	1.35E-01
3115.67	3	1	1.39E+00
3121.63	3	3	1.38E+00
3132.79	3	5	1.37E+00
3198.18	3	5	9.57E-02
3201.14	3	3	4.77E-01
3202.51	5	7	7.08E-02

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
3207.61	5	5	4.40E-01	3698.72	5	7	7.62E-01	625.127	4	4	2.13E+01
3210.58	5	3	1.58E-01	3703.36	7	9	1.14E+00	625.853	6	4	3.19E+01
3216.07	7	7	5.58E-01	3704.75	3	3	8.53E-01	779.736	6	4	1.46E+00
3221.21	7	5	9.75E-02	3707.27	3	5	7.34E-01	779.820	4	4	1.31E+01
3260.86	5	7	1.68E+00	3709.54	3	1	1.13E+00	779.912	6	6	1.36E+01
3265.33	7	9	1.88E+00	3712.49	5	5	6.59E-01	779.997	4	6	9.70E-01
3267.20	3	5	1.58E+00	3714.03	3	3	4.06E-01	787.710	2	4	5.95E+00
3281.83	5	5	2.89E-01	3715.09	5	7	9.73E-01	790.112	4	4	1.18E+00
3284.45	7	7	2.06E-01	3720.89	7	7	3.74E-01	790.199	4	6	7.08E+00
3299.39	1	3	1.64E-01	3721.95	5	3	2.80E-01	921.296	2	4	2.21E+00
3312.33	3	3	4.60E-01	3725.31	5	5	2.41E-01	921.365	2	2	8.83E+00
3326.06	3	3	2.65E-01	3728.51	5	7	1.29E+00	923.367	4	4	1.10E+01
3330.30	3	5	6.81E-01	3728.84	7	9	1.45E+00	923.436	4	2	4.39E+00
3330.32	3	5	4.76E-01	3729.80	3	5	1.22E+00	1338.61	2	4	2.17E+00
3332.41	5	3	7.92E-01	3732.13	5	3	2.67E-02	1342.99	4	4	4.29E-01
3332.93	5	7	5.04E-01	3734.83	7	5	7.40E-02	1343.51	4	6	2.57E+00
3336.67	3	3	3.76E-01	3742.63	5	5	2.24E-01	2120.58	2	2	1.05E+00
3336.69	5	5	8.77E-02	3746.90	7	7	1.59E-01	2132.64	4	4	1.29E+00
3340.76	5	3	6.57E-01	3754.70	3	5	7.53E-01	2493.39	2	4	1.18E+00
3344.20	5	5	1.25E-01	3757.23	1	3	5.56E-01	2493.75	4	6	8.48E-01
3344.51	5	7	3.48E-01	3759.88	5	7	9.79E-01	2493.99	2	2	6.09E-01
3347.98	7	5	4.86E-01	3774.03	3	3	3.91E-01	2499.27	2	2	4.68E-01
3350.62	5	3	1.12E+00	3791.28	5	5	2.24E-01	2501.81	4	4	3.73E-01
3350.92	7	7	9.91E-01	3810.98	5	3	2.37E-02	2507.73	4	2	2.32E+00
3355.86	7	7	6.89E-01	3816.75	5	3	9.63E-02	2509.22	6	6	1.94E+00
3362.31	7	5	6.87E-01	3961.57	5	7	1.25E+00	2510.58	4	2	1.19E+00
3376.61	3	1	1.49E+00	4072.64	1	3	3.37E-01	2517.37	6	4	1.24E+00
3376.76	3	3	1.12E+00	4073.98	3	5	4.54E-01	2781.22	2	2	1.03E-01
3377.26	3	5	5.20E-01	4081.02	5	7	6.02E-01	2803.57	6	4	1.26E-01
3382.61	5	7	9.86E-01	4089.30	3	3	2.49E-01	2805.87	2	4	2.90E-01
3383.31	5	3	3.70E-01	4103.07	5	5	1.48E-01	2812.50	6	6	3.58E-02
3383.81	5	5	8.62E-01	4118.60	5	3	1.63E-02	2816.53	4	4	5.74E-01
3384.90	7	9	1.48E+00	4440.09	5	3	4.42E-01	2829.17	8	6	1.56E-01
3394.22	7	7	4.88E-01	4447.69	5	5	4.40E-01	2836.27	6	4	8.43E-01
3395.43	7	5	9.75E-02	4461.61	5	7	4.36E-01	2916.31	2	4	1.06E+00
3406.88	1	3	1.93E-01	4524.22	3	1	3.38E-01	2921.46	4	6	1.27E+00
3408.13	3	1	5.79E-01	4532.78	5	3	1.40E-01	2926.18	4	4	2.11E-01
3415.26	3	3	1.44E-01	4535.29	3	3	8.40E-02	3063.43	2	4	1.30E+00
3428.63	3	5	1.42E-01	4555.39	5	5	2.49E-01	3071.60	2	2	1.29E+00
3430.57	5	3	2.37E-01	4557.91	3	5	8.27E-02	3177.89	2	4	7.59E-02
3444.05	5	5	4.21E-01	5268.30	1	3	3.50E-01	3180.77	2	2	1.51E-01
3446.68	3	5	9.71E-01	5508.24	5	5	1.06E-01	3180.99	4	6	7.06E-02
3447.15	1	3	8.09E-01	5592.25	3	3	3.27E-01	3185.74	4	4	1.21E-01
3447.97	5	7	1.19E+00	<i>OIV</i>				3188.22	6	8	4.28E-02
3450.91	7	9	1.44E+00	238.360	2	4	2.96E+02	3188.64	4	2	1.50E-01
3451.30	3	3	8.06E-01	238.570	4	6	3.54E+02	3194.78	6	6	1.71E-01
3454.84	5	5	6.89E-01	238.579	4	4	5.90E+01	3199.58	6	4	1.04E-01
3454.99	9	11	1.72E+00	279.631	2	2	2.68E+01	3209.65	8	8	2.53E-01
3459.48	5	3	1.14E-01	279.933	4	2	5.34E+01	3216.31	8	6	5.56E-02
3459.94	7	7	5.14E-01	553.329	2	4	1.22E+01	3348.06	2	4	8.51E-01
3466.13	9	9	2.84E-01	554.076	2	2	4.86E+01	3349.11	4	6	1.02E+00
3466.85	7	5	6.82E-02	554.513	4	4	6.06E+01	3354.27	4	2	7.71E-01
3475.24	9	7	2.42E-02	555.263	4	2	2.41E+01	3362.55	4	4	7.65E-01
3520.94	1	3	1.50E-01	608.397	2	2	1.21E+01	3375.40	4	6	7.56E-01
3531.22	3	1	4.45E-01	609.829	4	2	2.40E+01	3378.02	4	4	1.66E-01
3533.38	3	3	1.11E-01	616.952	6	4	2.60E+01	3381.21	4	6	7.19E-01
3534.90	3	5	1.11E-01	617.005	4	4	2.89E+00	3381.30	2	4	4.28E-01
3555.24	5	3	1.82E-01	617.036	4	2	2.89E+01	3385.52	6	8	1.02E+00
3556.78	5	5	3.26E-01	624.619	2	4	1.07E+01	3390.19	2	2	8.49E-01
3695.38	3	5	4.01E-01					3396.80	4	4	5.40E-01

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
3405.77	4	2	1.67E-01	2781.01	3	5	1.40E+00	*173.03	6	10	8.78E+02
3409.70	6	6	3.00E-01	*2784.0	3	9	1.40E+00	1031.91	2	4	4.16E+00
3411.30	4	4	1.69E-01	2786.99	3	3	1.39E+00	1037.61	2	2	4.09E+00
3411.69	4	6	1.02E+00	2789.85	3	1	1.38E+00	3811.35	2	4	5.14E-01
3425.55	6	4	4.94E-02	3058.68	3	5	1.39E+00	3834.24	2	2	5.05E-01
3489.89	4	6	7.29E-01	3144.66	3	5	8.86E-01	<i>O VII</i>			
3492.21	2	4	6.06E-01	3219.24	3	1	1.54E-01	18.6270	1	3	9.365E+03
3493.43	4	4	1.21E-01	3222.29	1	3	1.16E-01	21.6020	1	3	3.309E+04
3560.39	4	6	1.03E+00	3227.54	3	3	3.38E-02	*120.33	3	9	5.334E+02
3563.33	6	8	1.10E+00	3239.21	3	3	3.28E-01	128.411	1	3	8.982E+02
3593.08	6	6	7.15E-02	3248.28	5	3	1.18E-01	*128.46	9	15	1.615E+03
3725.89	2	4	5.61E-01	3263.54	5	5	1.86E-02	135.820	3	5	1.523E+03
3725.94	4	6	6.01E-01	3275.64	5	3	4.76E-01	*1630.3	3	9	7.935E-01
3729.03	6	8	6.86E-01	3297.62	7	5	1.30E-01	2448.98	1	3	2.514E-01
3736.68	4	4	2.23E-01	3690.17	3	5	1.97E-02	*5933.1	3	9	1.002E-01
3736.85	8	10	7.95E-01	3698.36	3	3	1.03E-01	8241.76	1	3	3.864E-02
3744.89	6	6	1.92E-01	3702.72	5	7	1.41E-02	<i>Phosphorus</i>			
3758.39	8	8	1.11E-01	3717.31	5	5	9.63E-02	<i>PI</i>			
3930.68	2	2	3.80E-02	3725.63	5	3	2.91E-02	1671.7	4	2	3.9E-01
3942.06	2	4	9.42E-02	3746.64	7	7	1.18E-01	1674.6	4	4	4.0E-01
3945.31	4	2	1.88E-01	3761.58	7	5	1.61E-02	1679.7	4	6	3.9E-01
3956.77	4	4	2.98E-02	4119.37	3	5	3.66E-01	1775.0	4	6	2.17E+00
3974.58	4	6	6.62E-02	4120.49	3	1	3.33E-01	1782.9	4	4	2.14E+00
3977.09	6	4	9.91E-02	4123.96	5	7	4.81E-01	1787.7	4	2	2.13E+00
3995.08	6	6	1.52E-01	4125.49	1	3	2.70E-01	2135.5	4	4	2.11E-01
4687.03	2	4	2.79E-01	4134.11	3	3	3.34E-01	2136.2	6	4	2.83E+00
4772.60	2	4	1.23E-01	4153.27	3	3	1.92E-01	2149.1	4	2	3.18E+00
4779.10	2	2	2.45E-01	4158.86	3	5	3.39E-01	2152.9	2	4	4.85E-01
4783.42	4	6	2.06E-01	4178.46	5	5	1.12E-01	2154.1	4	4	1.73E-01
4794.18	4	4	1.56E-01	4213.35	5	3	1.19E-02	2154.1	4	6	5.8E-01
4798.27	6	8	2.91E-01	4522.66	5	3	1.02E-02	2534.0	2	4	2.00E-01
4813.15	6	6	8.65E-02	4554.53	3	5	2.41E-01	2535.6	4	4	9.5E-01
5305.51	4	4	6.10E-02	5114.06	1	3	1.80E-01	2553.3	2	2	7.1E-01
5362.51	6	6	6.12E-02	5339.94	1	3	1.85E-02	2554.9	4	2	3.00E-01
6876.49	2	4	1.88E-02	5349.74	3	1	7.04E-02	<i>P II</i>			
6931.60	2	2	7.35E-02	5372.71	3	3	1.42E-02	1301.9	1	3	5.0E-01
7004.11	4	4	8.90E-02	5414.59	3	5	9.29E-03	1304.5	3	1	1.5E+00
7061.30	4	2	3.48E-02	5428.38	5	3	2.68E-02	1304.7	3	3	3.7E-01
<i>O V</i>				5471.12	5	5	4.86E-02	1305.5	3	5	3.8E-01
172.169	1	3	2.94E+02	5571.81	1	3	8.33E-02	1309.9	5	3	6.2E-01
*192.85	9	15	6.90E+02	5580.12	3	5	1.11E-01	1310.7	5	5	1.1E+00
*215.17	9	3	1.83E+02	5583.23	3	3	6.20E-02	4475.3	5	7	1.3E+00
220.353	3	5	4.292E+02	*5589.9	9	15	1.49E-01	4499.2	5	7	1.4E+00
248.460	3	1	5.59E+01	5597.89	5	7	1.48E-01	4530.8	3	5	1.0E+00
629.732	1	3	2.872E+01	5604.27	5	5	3.68E-02	4554.8	3	5	9.6E-01
758.677	3	5	5.547E+00	5607.41	5	3	4.08E-03	4588.0	5	7	1.7E+00
759.442	1	3	7.373E+00	6330.05	5	7	1.21E-01	4589.9	3	5	1.6E+00
760.227	3	3	5.514E+00	6460.12	3	5	9.37E-02	4602.1	7	9	1.9E+00
760.446	5	5	1.652E+01	6466.14	5	7	1.01E-01	4943.5	7	5	6.3E-01
761.128	3	1	2.197E+01	6500.24	7	9	1.11E-01	5253.5	3	5	1.0E+00
762.004	5	3	9.125E+00	6543.77	5	5	1.64E-02	5425.9	5	5	6.9E-01
774.518	3	1	3.804E+01	6601.28	7	7	1.14E-02	6024.2	3	5	5.1E-01
1371.30	3	5	3.336E+00	6764.72	1	3	4.37E-02	6043.1	5	7	6.8E-01
2729.31	3	5	4.52E-01	6789.62	3	5	5.79E-02	<i>P III</i>			
2731.45	1	3	5.90E-01	6817.40	3	3	3.00E-02	1334.8	2	4	5.5E-01
2743.61	3	3	4.38E-01	6828.95	5	7	7.35E-02	1344.3	4	6	6.4E-01
2752.23	3	1	1.82E+00	6878.76	5	5	1.65E-02	1344.8	4	4	1.1E-01
2755.13	5	5	1.37E+00	<i>O VI</i>							
2769.69	5	3	7.88E-01	*150.10	2	6	2.62E+02				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}				
	g_i	g_k			g_i	g_k			g_i	g_k					
4057.4	4	4	1.0E-01	4734.2	15	13	2.5E-02	3692.36	10	8	9.1E-01				
4059.3	6	4	9.0E-01	4879.1	15	15	1.8E-02	3700.91	8	10	3.9E-01				
4080.1	4	2	9.9E-01	4886.0	15	15	1.3E-02	3713.02	4	4	8.3E-02				
<i>Potassium</i>															
<i>K I</i>															
4044.1	2	4	1.24E-02	4912.6	17	15	5.7E-02	3788.47	4	6	1.4E-01				
4047.2	2	2	1.24E-02	5034.4	19	19	1.1E-01	3793.22	8	6	4.2E-01				
5084.2	2	2	3.50E-03	5110.8	21	19	2.78E-01	3799.31	8	8	5.5E-01				
5099.2	4	2	7.0E-03	5135.1	17	17	1.25E-01	3806.76	6	6	6.2E-02				
5323.3	2	2	6.3E-03	5173.9	19	17	3.18E-01	3818.19	6	4	5.8E-01				
5339.7	4	2	1.26E-02	5219.1	15	15	9.5E-02	3822.26	6	6	8.5E-01				
5343.0	2	4	4.0E-03	5220.1	17	15	2.35E-01	3828.48	6	6	6.2E-01				
5359.6	4	6	4.6E-03	5251.7	15	13	1.1E-02	3828.89	6	4	5.8E-01				
5782.4	2	2	1.23E-02	5259.7	15	13	2.24E-01	3856.52	8	10	5.9E-01				
5801.8	4	2	2.46E-02	5292.6	13	13	9.3E-02	3872.39	4	6	6.7E-03				
5812.2	2	4	2.8E-03	5810.6	17	19	2.3E-02	3877.34	8	6	3.7E-02				
5831.9	4	6	3.2E-03	5879.3	15	15	7.6E-02	3913.51	8	8	2.5E-03				
6911.1	2	2	2.72E-02	6200.8	15	17	1.8E-02	3922.19	4	2	6.25E-02				
6938.8	4	2	5.4E-02	6278.7	13	15	2.6E-02	3934.23	8	8	1.58E-01				
7664.9	2	4	3.87E-01	6398.0	11	13	1.9E-02	3942.72	4	2	7.15E-01				
7699.0	2	2	3.82E-01	<i>Rhodium</i>											
<i>Rh I</i>															
607.93	1	3	1.3E-02	3083.96	8	6	4.8E-02	3958.86	6	8	5.5E-01				
2550.0	6	4	2.0E+00	3114.91	6	4	4.45E-02	3984.40	4	4	1.1E-01				
2635.1	4	4	1.2E+00	3121.76	6	6	1.1E-01	3995.61	4	6	4.7E-02				
2992.4	6	8	2.5E+00	3123.70	10	8	4.6E-02	4053.44	2	2	2.8E-02				
3052.1	4	6	1.7E+00	3137.71	4	6	3.3E-02	4056.34	6	4	9.5E-03				
3202.0	4	4	1.8E+00	3189.05	6	6	3.03E-01	4082.78	6	4	1.4E-01				
3289.1	4	6	2.0E+00	3197.13	6	4	4.35E-02	4097.52	2	4	7.0E-02				
3322.4	6	6	1.3E+00	3263.14	6	6	1.3E-01	4121.68	6	6	9.8E-02				
3421.8	2	4	1.5E+00	3271.61	6	4	2.0E-01	4128.87	6	8	1.73E-01				
<i>K XVI</i>															
206.27	1	3	9.4E+01	3280.55	8	8	2.36E-01	4135.27	8	8	1.0E-01				
<i>K XVII</i>															
22.020	2	4	4.7E+04	3283.57	6	8	4.4E-01	4196.50	6	8	3.9E-02				
22.163	4	6	5.6E+04	3289.14	4	4	1.0E-01	4211.14	8	10	1.62E-01				
22.18	4	4	9.3E+03	3323.09	8	10	6.3E-01	4244.44	4	4	6.5E-03				
22.60	2	2	2.5E+03	3331.09	4	2	5.40E-02	4278.60	4	6	9.2E-03				
22.76	4	2	4.7E+03	3338.54	8	6	3.5E-02	4288.71	6	8	6.1E-02				
<i>Praseodymium</i>															
<i>Pr II</i>															
3997.0	15	15	1.87E-01	3360.80	4	4	1.2E-01	4373.04	2	4	1.8E-02				
4062.8	13	15	1.00E+00	3368.38	6	4	1.1E-01	4374.80	8	10	1.64E-01				
4100.7	17	19	8.4E-01	3396.82	10	10	6.5E-01	4379.92	6	6	2.48E-02				
4143.1	15	17	5.8E-01	3399.70	6	8	1.2E-01	4492.47	6	6	4.5E-03				
4179.4	13	15	5.2E-01	3462.04	6	6	6.2E-01	4528.72	6	8	1.35E-02				
4222.9	11	13	3.91E-01	3470.66	4	4	8.5E-01	4548.73	4	6	5.5E-03				
4241.0	17	15	2.30E-01	3478.91	6	6	3.32E-01	4551.64	4	4	4.00E-02				
4359.8	15	15	1.1E-01	3484.04	6	8	9.3E-03	4565.19	4	4	1.1E-02				
4405.8	17	17	9.0E-02	3498.73	4	6	2.12E-01	4569.00	6	8	1.0E-02				
4429.3	15	15	2.28E-01	3502.52	10	10	4.3E-01	4608.12	2	2	2.1E-02				
4449.8	13	13	1.24E-01	3507.32	6	8	3.4E-01	4675.03	8	8	6.4E-03				
4468.7	11	13	1.54E-01	3528.02	8	8	8.5E-01	4721.00	6	4	3.43E-03				
4510.2	13	15	1.16E-01	3543.95	4	4	4.65E-01	4745.11	6	6	5.2E-03				
4534.2	15	17	4.9E-02	3549.54	6	6	2.22E-01	4755.58	4	4	6.0E-03				
				3570.18	4	6	1.82E-01	4842.43	6	8	1.6E-03				
				3583.10	8	10	2.6E-01	4963.71	2	2	3.0E-02				
				3596.19	6	4	5.5E-01	4977.75	4	4	9.8E-03				
				3597.15	6	8	5.9E-01	4979.18	4	6	1.0E-02				
				3612.47	4	2	8.90E-01	5090.63	6	6	5.0E-03				
				3620.46	6	4	8.5E-02	5120.69	6	8	3.1E-03				
				3654.87	8	8	6.0E-02	5130.76	4	4	4.35E-03				
				3657.99	8	6	8.8E-01	5155.54	2	4	9.8E-03				
				3666.22	6	8	8.4E-02	5184.19	6	8	1.6E-03				
				3690.70	6	4	3.23E-01	5212.73	4	2	5.95E-03				
								5292.14	10	10	3.7E-03				
								5390.44	4	6	9.5E-03				
								5424.72	4	4	5.0E-03				

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
5599.42	6	8	1.3E-02	3911.81	6	8	1.79E+00	4983.43	4	4	2.58E-01
5983.60	10	10	2.1E-02	3933.38	6	6	1.62E-01	4991.91	6	6	3.8E-01
<i>Rubidium</i>											
<i>Rb I</i>											
3022.5	2	4	4.13E-05	3996.60	4	6	1.65E-01	4995.00	4	6	5.9E-02
3032.0	2	4	4.93E-05	4020.39	4	4	1.63E+00	5018.41	6	4	2.09E-01
3044.2	2	4	8.2E-05	4023.22	4	4	3.0E-01	5021.52	4	4	2.30E-01
3060.2	2	4	1.05E-04	4023.68	6	6	1.65E+00	5064.31	8	10	7.3E-02
3082.0	2	4	1.49E-04	4031.38	6	6	2.9E-01	5066.38	6	6	3.6E-02
3112.6	2	4	2.5E-04	4036.86	6	4	7.9E-02	5070.17	6	8	1.16E-01
3113.1	2	2	1.3E-04	4043.80	8	8	3.11E-01	5072.71	2	4	2.0E-02
3157.5	2	4	3.38E-04	4047.80	6	4	1.54E-01	5075.82	4	6	1.15E-01
3158.3	2	2	2.0E-04	4051.83	8	6	7.7E-02	5080.22	4	4	4.1E-02
3228.0	2	4	6.4E-04	4054.54	4	2	1.67E-01	5081.56	10	10	7.6E-01
3229.2	2	2	3.8E-04	4067.00	6	8	1.91E-01	5083.72	8	8	6.2E-01
3348.7	2	4	1.37E-03	4067.63	10	8	4.1E-02	5085.55	6	6	5.7E-01
3350.8	2	2	8.9E-04	4074.96	4	6	3.7E-01	5086.94	4	4	6.6E-01
3587.1	2	4	3.97E-03	4078.56	2	4	4.3E-01	5096.72	6	4	1.69E-01
3591.6	2	2	2.9E-03	4080.57	4	4	6.6E-02	5099.27	4	6	1.50E-01
4201.8	2	4	1.8E-02	4082.39	6	4	2.73E-01	5101.12	10	8	8.8E-02
4215.5	2	2	1.5E-02	4086.66	6	8	3.7E-01	5331.79	4	4	1.11E-01
7800.3	2	4	3.70E-01	4087.47	4	6	1.12E-01	5339.43	6	6	1.06E-01
7947.6	2	2	3.40E-01	4093.12	4	4	1.23E-01	5341.07	4	2	3.8E-01
<i>Scandium</i>											
<i>Sc I</i>											
2116.7	4	4	2.0E-01	4094.86	6	6	1.44E-01	5349.34	6	4	5.9E-01
2120.4	6	6	2.0E-01	4098.36	8	8	8.7E-02	5350.28	8	8	6.8E-02
2262.3	4	4	5.8E-02	4132.98	4	6	1.19E+00	5355.79	6	4	3.0E-01
2266.6	4	2	4.8E-01	4140.27	6	8	1.17E+00	5356.10	8	6	5.7E-01
2270.9	6	4	4.6E-01	4147.38	6	6	1.74E-01	5375.37	8	6	3.4E-01
2280.8	4	6	2.8E-01	4161.85	8	8	1.77E-01	5392.06	10	8	4.2E-01
2289.6	6	6	4.1E-02	4171.53	6	4	1.36E-01	5416.16	4	6	4.4E-02
2311.29	4	6	4.1E-02	4186.42	6	8	8.4E-02	5416.41	6	6	2.0E-02
2315.69	4	4	2.5E-01	4187.61	8	6	1.28E-01	5425.55	6	8	4.5E-02
2320.32	6	6	2.4E-01	4193.53	4	6	6.1E-02	5429.42	2	4	9.0E-02
2324.75	6	4	4.1E-02	4204.52	6	8	3.5E-02	5432.98	4	4	5.4E-02
2328.19	4	6	4.6E-02	4205.20	10	8	1.12E-01	5433.25	6	4	9.7E-02
2334.67	4	2	1.7E-01	4212.32	4	6	1.58E-01	5438.28	4	6	3.4E-02
2346.03	6	4	1.3E-01	4212.48	6	6	8.6E-02	5439.04	2	2	1.74E-01
2429.19	4	4	2.8E-01	4216.08	2	4	2.36E-01	5442.62	4	2	2.15E-01
2438.63	6	6	2.1E-01	4218.23	4	4	2.26E-01	5446.20	8	8	2.8E-01
2468.40	4	2	4.9E-02	4225.54	6	8	9.5E-02	5451.37	6	6	1.50E-01
2692.78	4	2	1.61E-01	4225.69	4	6	7.6E-02	5455.24	4	4	6.6E-02
2699.02	4	6	2.4E-02	4231.64	4	4	1.31E-01	5464.95	4	2	3.2E-02
2706.74	4	4	3.1E-01	4233.59	6	6	4.0E-01	5468.40	6	4	9.7E-02
2707.93	6	4	1.49E-01	4238.05	8	8	7.1E-01	5472.19	8	6	9.7E-02
2711.34	6	6	3.2E-01	4239.55	6	4	2.27E-01	5482.01	8	8	5.2E-01
2965.88	4	6	7.5E-02	4246.14	8	6	1.15E-01	5484.63	6	6	5.2E-01
2974.01	4	4	5.5E-01	4542.55	6	4	1.28E-01	5514.23	6	8	4.1E-01
2980.76	6	6	5.4E-01	4544.67	8	6	1.33E-01	5520.52	8	10	4.3E-01
2988.97	6	4	6.9E-02	4706.94	4	6	2.81E-01	5526.10	4	4	7.1E-02
3015.37	4	6	7.8E-01	4709.31	6	8	4.0E-01	5541.07	6	6	5.5E-02
3019.35	6	8	8.7E-01	4711.72	2	4	1.81E-01	5631.04	2	4	3.0E-02
3030.76	6	6	1.00E-01	4714.30	4	4	2.14E-01	5671.83	10	12	5.4E-01
3255.68	4	4	3.2E-01	4719.31	6	6	1.04E-01	5686.86	8	10	4.9E-01
3269.90	4	2	3.13E+00	4728.77	8	8	1.16E-01	5700.19	6	8	4.6E-01
3273.63	6	4	2.81E+00	4729.20	4	4	2.20E-01	5708.64	10	10	4.7E-02
3907.48	4	6	1.66E+00	4729.24	6	6	1.93E-01	5711.79	4	6	4.5E-01
				4734.11	4	2	1.10E+00	5717.31	8	8	7.5E-02
				4737.65	6	4	8.8E-01	5724.13	6	6	7.4E-02
				4741.02	8	6	9.1E-01	5988.43	6	6	6.6E-02
				4743.82	10	8	9.8E-01	6026.16	4	4	7.2E-02
				4973.67	4	2	8.4E-01	6146.20	6	8	4.2E-02
				4980.36	6	4	5.6E-01	6198.43	4	6	3.5E-02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
6249.96	6	8	3.2E-02	3590.47	7	5	2.9E-01	7680.3	3	5	4.6E-02
6262.22	4	6	8.4E-02	3613.83	7	9	1.48E+00	7918.4	3	5	5.2E-02
6280.16	2	4	4.0E-02	3630.74	5	7	1.20E+00	7932.3	5	7	5.1E-02
6284.16	6	6	3.9E-02	3642.78	3	5	1.13E+00	7944.0	7	9	5.8E-02
6284.73	4	4	7.1E-02	3645.31	7	7	2.74E-01	7970.3	5	5	7.1E-03
6293.02	2	2	1.04E-01	3651.80	5	5	3.0E-01				
7741.16	10	10	3.8E-02	3859.59	7	5	1.1E+00	<i>Si II</i>			
7800.42	8	8	5.1E-02	4246.82	5	5	1.29E+00	989.87	2	4	6.7E+00
				4314.08	9	7	4.1E-01	992.68	4	6	8.0E+00
<i>Sc II</i>				4320.75	7	5	4.0E-01	1020.7	2	2	1.3E+00
1880.6	5	3	5.0E+00	4325.00	5	3	4.3E-01	1190.4	2	4	6.9E+00
2064.3	7	5	2.2E+00	4374.46	9	9	1.48E-01	1193.3	2	2	2.8E+01
2068.0	5	3	2.0E+00	4400.39	7	7	1.43E-01	1194.5	4	4	3.6E+01
2273.1	1	3	7.7E+00	4415.54	5	5	1.47E-01	1197.4	4	2	1.4E+01
2545.20	5	5	4.0E-01	4670.41	5	7	1.16E-01	1248.4	4	4	1.3E+01
2552.35	7	5	2.21E+00	5031.01	5	3	3.5E-01	1251.2	6	4	1.9E+01
2555.79	3	3	6.9E-01	5239.81	1	3	1.39E-01	1260.4	2	4	2.0E+01
2560.23	5	3	2.01E+00	5526.79	9	7	3.3E-01	1264.7	4	6	2.3E+01
2563.19	3	1	2.70E+00	5657.91	5	5	1.04E-01	1304.4	2	2	3.6E+00
2611.19	5	5	2.2E+00	5669.06	3	1	1.31E-01	1309.3	4	2	7.0E+00
2667.70	3	5	1.5E+00					1526.7	2	2	3.73E+00
2746.36	3	1	3.9E+00	<i>Silicon</i>				1533.5	4	2	7.4E+00
2782.31	5	5	1.3E+00	<i>Si I</i>				1808.0	2	4	3.7E-02
2789.15	7	7	1.3E+00	1977.6	1	3	1.8E-01	2904.3	4	6	6.7E-01
2801.31	9	9	1.3E+00	1979.2	3	1	5.1E-01	2905.7	6	8	7.1E-01
2819.49	3	5	2.3E+00	1980.6	3	3	1.3E-01	3210.0	4	6	4.6E-01
2822.12	5	7	2.5E+00	1983.2	3	5	1.4E-01	4128.1	4	6	1.32E+00
2826.64	7	9	2.8E+00	1986.4	5	3	2.1E-01	4130.9	6	8	1.42E+00
2870.85	5	3	1.1E+00	1989.0	5	5	4.1E-01	5041.0	2	4	9.8E-01
2912.98	5	3	1.1E+00	2208.0	1	3	3.11E-01	5056.0	4	6	1.2E+00
2979.68	3	5	1.2E+00	2210.9	3	5	4.16E-01	5957.6	2	2	4.2E-01
2988.92	5	7	2.9E+00	2211.7	3	3	2.32E-01	5978.9	4	2	8.1E-01
3039.92	7	9	3.5E+00	2216.7	5	7	5.5E-01	6347.1	2	4	7.0E-01
3045.73	5	7	3.68E+00	2218.1	5	5	1.38E-01	6371.4	2	2	6.9E-01
3052.92	7	9	3.92E+00	2506.9	3	5	4.66E-01	7848.8	4	6	3.9E-01
3060.54	7	7	3.0E-01	2514.3	1	3	6.1E-01	7849.7	6	8	4.2E-01
3065.12	9	11	4.00E+00	2516.1	5	5	1.21E+00				
3075.36	9	9	2.5E-01	2519.2	3	3	4.56E-01	<i>Si III</i>			
3128.27	3	3	1.9E+00	2524.1	3	1	1.81E+00	883.40	5	7	6.3E+01
3133.07	5	5	1.8E+00	2528.5	5	3	7.7E-01	994.79	3	3	7.89E+00
3139.72	7	7	2.1E+00	2532.4	1	3	2.6E-01	997.39	5	3	1.31E+01
3190.98	3	3	1.1E+00	2631.3	1	3	9.7E-01	1141.6	3	5	3.0E+01
3199.33	5	3	1.9E+00	2881.6	5	3	1.89E+00	1144.3	5	7	3.9E+01
3312.72	5	7	1.2E+00	3905.5	1	3	1.18E-01	1161.6	5	5	1.6E+01
3320.40	5	3	1.2E+00	4738.8	3	3	1.0E-02	1206.5	1	3	2.59E+01
3343.23	9	7	1.1E+00	4783.0	5	3	1.7E-02	1206.5	3	5	4.89E+01
3353.72	5	7	1.51E+00	4792.3	5	5	1.7E-02	1207.5	5	5	1.9E+01
3359.67	5	5	2.16E-01	4818.1	5	7	1.1E-02	1294.5	3	5	5.42E+00
3361.26	3	3	3.4E-01	4821.2	3	5	8.0E-03	1296.7	1	3	7.19E+00
3361.93	3	1	1.17E+00	4947.6	3	1	4.2E-02	1298.9	3	3	5.36E+00
3368.94	5	3	8.3E-01	5006.1	3	5	2.8E-02	1299.0	5	5	1.61E+01
3372.15	7	5	9.9E-01	5622.2	3	3	1.6E-02	1301.2	3	1	2.13E+01
3379.16	3	3	2.5E+00	5690.4	3	3	1.2E-02	1303.3	5	3	8.85E+00
3535.71	5	3	6.1E-01	5708.4	5	5	1.4E-02	1328.8	1	3	2.7E+01
3558.53	5	7	3.0E-01	5754.2	5	3	1.5E-02	1417.2	3	1	2.60E+01
3567.70	3	5	3.5E-01	5772.1	3	1	3.6E-02	1435.8	5	7	2.1E+01
3572.53	7	7	1.38E+00	5948.5	3	5	2.2E-02	1589.0	5	3	1.1E+01
3576.34	5	5	1.06E+00	7226.2	3	5	7.9E-03	1778.7	7	9	4.4E+00
3580.93	3	3	1.23E+00	7405.8	3	5	3.7E-02	1783.1	5	7	3.8E+00
3589.63	5	3	4.6E-01	7409.1	5	7	2.3E-02	3241.6	5	3	2.3E+00
								*3486.9	15	21	1.8E+00

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
3590.5	3	5	3.9E+00	225.03	3	3	1.2E+02	4393.3	4	4	1.6E-03
4552.6	3	5	1.26E+00	227.01	5	3	2.0E+02	4393.3	4	6	9.2E-03
4554.0	5	3	7.6E-01	227.30	5	3	2.3E+02	4494.2	2	4	1.2E-02
4567.8	3	3	1.25E+00	258.10	5	5	1.04E+02	4497.7	4	6	1.4E-02
4683.0	5	5	9.5E-01	*294.37	9	9	5.9E+01	4497.7	4	4	2.4E-03
4716.7	5	7	2.8E+00	*347.36	9	15	2.2E+01	4664.8	2	4	2.33E-02
5451.5	3	5	6.0E-01	<i>Si X</i>				4668.6	4	4	4.1E-03
5473.1	5	7	7.9E-01	253.77	2	4	2.9E+01	4668.6	4	6	2.5E-02
5716.3	9	7	1.9E-01	256.57	2	2	1.1E+02	4747.9	2	2	6.3E-03
5739.7	1	3	4.7E-01	258.35	4	4	1.4E+02	4751.8	4	2	1.27E-02
7462.6	5	3	4.9E-01	261.05	4	2	5.4E+01	4978.5	2	4	4.1E-02
7466.3	7	5	5.4E-01	272.00	2	2	3.0E+01	4982.8	4	4	8.2E-03
7612.4	3	5	1.1E+00	277.26	4	2	5.7E+01	4982.8	4	6	4.89E-02
<i>Si IV</i>				287.08	2	4	2.6E+01	5148.8	2	2	1.17E-02
457.82	2	4	3.6E+00	289.19	4	4	5.0E+01	5153.4	4	2	2.33E-02
458.16	2	2	3.6E+00	292.22	6	4	7.3E+01	5682.6	2	4	1.03E-01
515.12	2	2	4.1E+00	*347.73	10	10	4.3E+01	5688.2	4	6	1.2E-01
516.35	4	2	8.2E+00	*353.09	6	10	2.1E+01	5688.2	4	4	2.1E-02
*560.50	6	10	1.0E+00	<i>Si XI</i>				5890.0	2	4	6.11E-01
*749.94	10	14	1.45E+01	43.763	1	3	6.11E+03	5895.9	2	2	6.10E-01
815.05	2	2	1.23E+01	*49.116	9	3	2.45E+03	6154.2	2	2	2.6E-02
818.13	4	2	2.44E+01	49.222	3	5	8.9E+03	6160.8	4	2	5.2E-02
*860.74	10	6	1.8E+00	52.296	3	1	7.6E+02	8183.3	2	4	4.53E-01
*1066.6	10	14	3.91E+01	303.30	1	3	6.42E+01	8194.8	4	6	5.4E-01
1122.5	2	4	2.05E+01	358.29	3	1	1.03E+02	8194.8	4	4	9.0E-02
1128.3	4	4	4.03E+00	358.63	3	5	1.38E+01	11381	2	2	8.9E-02
1128.3	4	6	2.42E+01	361.41	1	3	1.80E+01	11404	4	2	1.76E-01
1393.8	2	4	7.73E+00	364.50	3	3	1.32E+01	<i>Na II</i>			
1402.8	2	2	7.58E+00	365.42	5	5	3.90E+01	300.15	1	3	3.0E+01
*1724.1	10	6	5.5E+00	368.28	3	1	5.1E+01	301.44	1	3	4.9E+01
<i>Si V</i>				371.48	5	3	2.07E+01	372.08	1	3	3.4E+01
96.439	1	3	4.8E+02	604.14	3	5	1.12E+01	<i>Na III</i>			
97.143	1	3	2.0E+03	2300.8	1	3	4.34E-01	378.14	4	2	7.7E+01
117.86	1	3	3.0E+02	<i>Si XII</i>				380.10	2	2	3.7E+01
<i>Si VI</i>				*40.924	2	6	4.42E+03	1991.0	4	6	8.3E+00
246.00	4	2	1.7E+02	*44.118	6	10	1.4E+04	2004.2	2	4	4.6E+00
249.12	2	2	8.5E+01	499.43	2	4	9.56E+00	2011.9	6	8	8.4E+00
<i>Si VII</i>				520.72	2	2	8.47E+00	2151.5	2	4	4.4E+00
217.83	5	3	4.3E+02	1862	2	4	1.15E+00	2174.5	4	6	5.3E+00
272.64	5	3	5.1E+01	1949	2	2	1.0E+00	2230.3	6	8	3.7E+00
274.18	3	1	1.2E+02	4620	2	4	4.6E-02	2232.2	4	4	3.3E+00
275.35	5	5	8.9E+01	4942	4	6	4.5E-02	2246.7	4	6	2.4E+00
275.67	3	3	3.0E+01	<i>Silver</i>				2459.3	4	6	3.0E+00
276.84	1	3	3.9E+01	<i>Ag I</i>				2468.9	2	4	2.4E+00
278.45	3	5	2.9E+01	2061.2	2	4	3.1E-02	2497.0	6	6	1.7E+00
<i>Si VIII</i>				2069.9	2	2	1.5E-02	<i>Na V</i>			
214.76	4	2	4.1E+02	3280.7	2	4	1.4E+00	*307.89	10	6	2.0E+02
216.92	6	4	3.6E+02	3382.9	2	2	1.3E+00	*333.46	6	6	5.6E+01
232.86	2	2	8.0E+01	5209.1	2	4	7.5E-01	*369.01	10	6	1.2E+02
235.56	4	4	9.7E+01	5465.5	4	6	8.6E-01	*400.72	10	10	5.0E+01
250.45	2	2	7.7E+01	5471.6	4	4	1.4E-01	*445.14	6	10	7.1E+00
250.79	4	2	1.6E+02	<i>Sodium</i>				459.90	4	2	2.3E+01
314.31	4	2	5.2E+01	<i>Na I</i>				461.05	4	4	2.3E+01
316.20	4	4	5.0E+01	3302.4	2	4	2.81E-02	463.26	4	6	2.2E+01
319.83	4	6	4.9E+01	3303.0	2	2	2.81E-02	510.10	2	2	5.6E+01
<i>Si IX</i>				4390.0	2	4	7.7E-03	511.19	4	4	6.8E+01
223.73	1	3	4.2E+01					<i>Na VI</i>			
								313.75	5	3	1.3E+02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
361.25	5	5	7.7E+01	2428.1	1	3	1.7E-01	1820.3	3	3	2.2E+00
*416.53	9	9	3.7E+01	2569.5	1	3	5.3E-02	1826.2	1	3	7.2E-01
*492.80	9	15	1.3E+01	2931.8	1	3	1.9E-02	4694.1	5	7	6.7E-03
1550.6	5	5	4.35E+00	4607.3	1	3	2.01E+00	4695.4	5	5	6.7E-03
1567.8	5	3	2.68E+00	<i>Sr II</i>				4696.2	5	3	6.5E-03
1608.5	3	1	2.6E+00	2018.7	2	2	1.2E-01	6403.6	3	5	5.7E-03
1649.4	5	5	2.05E+00	2051.9	4	2	2.4E-01	6408.1	5	5	9.5E-03
1741.5	3	5	2.59E+00	2282.0	2	4	8.3E-01	6415.5	7	5	1.3E-02
1747.5	5	7	3.1E+00	2322.4	4	6	9.1E-01	*6751.2	15	25	7.9E-02
<i>Na VII</i>				2324.5	4	4	1.5E-01	7679.6	3	5	1.2E-02
*94.409	6	10	2.7E+03	2423.5	2	2	2.4E-01	7686.1	5	5	2.0E-02
*105.27	6	2	4.5E+02	2471.6	4	2	4.8E-01	7696.7	7	5	2.8E-02
353.29	4	4	1.0E+02	3464.5	4	6	3.1E+00	<i>S II</i>			
381.30	4	2	4.0E+01	3474.9	4	4	5.1E-01	1124.4	2	4	1.0E+00
397.49	4	4	3.5E+01	4077.7	2	4	1.42E+00	1125.0	4	4	4.6E+00
399.18	6	4	5.2E+01	4161.8	2	2	6.5E-01	1131.0	2	2	3.5E+00
*483.28	10	10	2.9E+01	4215.5	2	2	1.27E+00	1131.6	4	2	1.4E+00
486.74	2	4	1.1E+01	4305.5	4	2	1.4E+00	1250.5	4	2	4.6E-01
491.95	4	6	1.3E+01	4414.8	4	6	1.1E-01	1253.8	4	4	4.2E-01
555.80	4	4	2.3E+01	4417.5	4	4	1.8E-02	1259.5	4	6	3.4E-01
777.83	4	6	6.8E+00	4585.9	4	2	7.0E-02	4463.6	8	6	5.3E-01
<i>Na VIII</i>				5303.1	2	4	1.9E-01	4483.4	6	4	3.1E-01
*83.34	9	15	3.94E+03	5379.1	4	6	2.2E-01	4486.7	4	2	6.6E-01
*89.88	9	3	8.09E+02	5385.5	4	4	3.7E-02	4524.7	4	4	9.3E-02
90.536	3	5	2.86E+03	5723.7	2	2	7.1E-02	4525.0	6	4	1.2E+00
411.15	1	3	4.42E+01	5819.0	4	2	1.4E-01	4552.4	4	2	1.2E+00
1239.4	3	3	3.02E+00	8688.9	4	6	5.5E-01	4656.7	2	4	9.0E-02
1802.7	3	1	2.70E+00	8719.6	4	4	9.7E-02	4716.2	4	4	2.9E-01
1867.7	3	5	2.01E+00	<i>Sulfur</i>				4815.5	6	4	8.8E-01
2059.1	3	5	1.80E+00	<i>SI</i>				4885.6	2	4	1.7E-01
2558.2	5	3	2.26E-02	1295.7	5	5	4.9E+00	4917.2	2	2	6.6E-01
2772.0	3	5	4.19E-01	1296.2	5	3	2.7E+00	4924.1	4	6	2.2E-01
3021.0	5	7	4.90E-01	1302.3	3	5	1.8E+00	4925.3	2	4	2.4E-01
3108.9	1	3	2.58E-01	1302.9	3	3	1.6E+00	4942.5	2	2	1.5E-01
3182.3	1	3	2.92E-01	1302.9	3	3	1.6E+00	4991.9	4	4	1.5E-01
<i>Na IX</i>				1303.1	3	1	6.6E+00	5009.5	4	2	7.0E-01
70.615	2	4	1.35E+03	1303.4	5	3	1.9E+00	5014.0	4	4	8.4E-01
70.653	2	2	1.35E+03	1305.9	1	3	2.4E+00	5027.2	4	2	2.6E-01
77.764	2	4	3.6E+03	1401.5	5	3	9.1E-01	5032.4	6	6	8.1E-01
77.911	4	6	4.3E+03	1409.3	3	3	5.0E-01	5047.3	4	2	3.6E-01
681.72	2	4	6.63E+00	1412.9	1	3	1.6E-01	5103.3	6	4	5.0E-01
694.17	2	2	6.30E+00	1425.0	5	7	4.5E+00	5142.3	2	2	1.9E-01
2487.7	2	4	8.32E-01	1425.2	5	5	1.2E+00	5201.0	4	4	7.5E-01
2535.8	2	2	7.89E-01	1433.3	3	5	3.3E+00	5201.3	6	4	6.5E-02
6841.8	2	4	2.59E-02	1433.3	3	3	1.9E+00	5212.6	4	6	9.8E-02
7103.4	4	6	2.78E-02	1437.0	1	3	2.4E+00	5212.6	6	6	8.5E-01
<i>Strontium</i>				1448.2	5	3	7.3E+00	5320.7	6	8	9.2E-01
<i>Sr I</i>				1473.0	5	7	4.2E-01	5345.7	4	6	8.8E-01
2206.2	1	3	6.6E-03	1474.0	5	7	1.6E+00	5345.7	6	6	1.1E-01
2211.3	1	3	8.5E-03	1474.4	5	5	5.0E-01	5428.6	2	4	4.2E-01
2217.8	1	3	1.2E-02	1474.6	5	3	6.2E-02	5432.8	4	6	6.8E-01
2226.3	1	3	1.6E-02	1481.7	3	5	1.7E-01	5453.8	6	8	8.5E-01
2237.7	1	3	2.3E-02	1483.0	3	5	1.2E+00	5473.6	2	2	7.3E-01
2253.3	1	3	3.7E-02	1483.2	3	3	7.5E-01	5509.7	4	4	4.0E-01
2275.3	1	3	6.7E-02	1487.2	1	3	8.7E-01	5526.2	8	8	8.1E-02
2307.3	1	3	1.2E-01	1666.7	5	5	6.3E+00	5536.8	4	6	6.6E-02
2354.3	1	3	1.8E-01	1687.5	1	3	9.4E-01	5556.0	4	2	1.1E-01
				1782.3	1	3	1.9E+00	5564.9	6	6	1.7E-01
				1807.3	5	3	3.8E+00	5578.8	6	6	1.1E-01

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
5606.1	10	8	5.4E-01	706.48	2	4	4.17E+01	3260.2	4	4	5.8E-03
5616.6	4	4	1.2E-01	712.68	4	6	4.85E+01	3337.8	6	6	1.3E-02
5640.0	4	6	6.6E-01	712.84	4	4	8.1E+00	3383.9	6	4	5.3E-03
5645.6	6	4	1.8E-02	933.38	2	4	1.7E+01	3406.9	4	6	6.8E-02
5647.0	2	4	5.7E-01	944.52	2	2	1.6E+01	3419.7	8	8	1.91E-02
5659.9	6	4	4.6E-01	<i>S VII</i>				3463.8	4	6	2.62E-02
5664.7	4	2	5.8E-01	60.161	1	3	9.46E+03	3484.6	4	4	8.5E-03
5819.2	4	4	8.5E-02	60.804	1	3	5.1E+02	3488.8	6	4	7.3E-03
6305.5	8	6	1.8E-01	72.029	1	3	8.61E+02	3497.9	6	8	4.9E-02
6312.7	6	4	3.0E-01	<i>S VIII</i>				3505.0	8	6	2.72E-02
<i>S III</i>				198.55	4	2	2.5E+02	3553.4	4	6	3.3E-03
2496.2	7	5	2.5E+00	202.61	2	2	1.2E+02	3607.4	6	8	4.6E-02
2508.2	5	3	2.3E+00	<i>S XI</i>				3625.2	10	8	1.0E-02
2636.9	3	5	4.5E-01	*189.90	9	3	4.3E+02	3626.6	8	10	7.1E-02
2665.4	5	5	1.4E+00	190.37	5	3	2.8E+02	3642.1	10	12	5.5E-02
2680.5	1	3	6.2E-01	215.95	5	5	1.4E+02	3657.5	6	6	4.3E-03
2691.8	3	3	4.6E-01	217.63	1	3	7.2E+01	3731.0	4	6	5.3E-03
2702.8	3	1	1.9E+00	239.81	1	3	2.6E+01	3754.5	8	8	6.5E-03
2718.9	3	3	1.2E+00	242.57	3	5	1.9E+01	3784.3	4	6	4.3E-02
2721.4	5	3	7.7E-01	242.82	3	3	1.9E+01	3792.1	4	4	9.0E-03
2726.8	3	5	6.0E-01	246.90	5	5	5.4E+01	3826.9	6	6	5.2E-03
2731.1	5	5	1.1E+00	247.12	5	3	3.0E+01	3836.6	8	10	4.0E-03
2756.9	7	7	1.4E+00	*288.49	9	15	2.9E+01	3848.1	10	8	1.30E-02
2785.5	3	3	6.1E-01	<i>S XII</i>				3858.6	10	10	2.5E-03
2856.0	5	7	5.1E+00	212.14	2	4	3.7E+01	3918.5	4	2	2.5E-02
2863.5	7	9	5.7E+00	215.18	2	2	1.4E+02	3922.8	4	4	3.98E-02
2872.0	3	5	4.7E+00	218.20	4	4	1.7E+02	3996.2	2	4	3.35E-02
2950.2	3	5	3.0E+00	221.44	4	2	6.4E+01	3999.3	4	4	1.8E-02
2964.8	5	7	4.0E+00	227.50	2	2	3.7E+01	4003.7	10	8	3.1E-03
3662.0	3	3	6.4E-01	234.48	4	2	6.8E+01	4006.8	6	8	7.6E-03
3717.8	5	3	1.0E+00	<i>S XIII</i>				4026.9	4	4	3.60E-02
3778.9	3	5	4.4E-01	32.236	1	3	1.09E+04	4029.9	10	10	2.8E-02
3831.8	1	3	5.6E-01	37.600	3	1	1.3E+03	4030.7	8	10	2.3E-03
3837.8	3	3	4.2E-01	256.66	1	3	8.7E+01	4040.9	10	12	7.3E-03
3838.3	5	5	1.3E+00	299.89	3	5	1.78E+01	4061.4	2	4	6.5E-02
3860.6	3	1	1.6E+00	303.37	1	3	2.28E+01	4064.6	4	4	3.83E-02
3899.1	5	3	6.7E-01	307.36	3	3	1.64E+01	4067.2	6	4	6.8E-03
4253.6	5	7	1.2E+00	308.91	5	5	4.82E+01	4067.9	6	8	8.4E-03
4285.0	3	5	9.0E-01	312.68	3	1	6.3E+01	4097.2	10	10	2.1E-03
<i>S IV</i>				316.84	5	3	2.50E+01	4105.0	6	4	1.1E-02
551.17	2	2	2.06E+01	500.42	3	5	1.43E+01	4136.2	8	6	1.82E-02
554.07	4	2	4.08E+01	<i>S XIV</i>				4147.9	10	8	1.79E-02
3097.5	2	4	2.6E+00	*30.434	2	6	8.28E+03	4175.2	6	8	2.8E-02
3117.7	2	2	2.5E+00	*32.517	6	10	2.6E+04	4205.9	8	10	8.9E-03
<i>S V</i>				417.67	2	4	1.2E+01	4303.0	6	6	2.08E-02
437.37	1	3	1.12E+01	445.71	2	2	1.0E+01	4378.8	8	6	4.8E-03
438.19	3	3	3.33E+01	1550	2	4	1.4E+00	4386.1	4	6	1.0E-02
439.65	5	3	5.5E+01	1663	2	2	1.2E+00	4402.5	6	6	2.28E-02
*661.52	9	15	6.44E+01	3967	2	4	5.4E-02	4415.7	2	4	2.53E-02
*679.01	9	15	8.6E+01	4153	4	6	5.7E-02	4441.0	4	6	7.5E-03
*690.75	9	9	5.0E+01	<i>Tantalum</i>				4441.7	10	8	9.0E-03
786.48	1	3	5.25E+01	<i>Ta I</i>				4473.5	6	8	1.36E-02
*854.85	9	9	4.18E+01	3127.9	4	6	5.7E-03	4511.0	10	12	1.56E-02
<i>S VI</i>				3168.3	4	4	6.0E-03	4511.5	10	8	3.6E-03
248.99	2	4	3.1E+01	3170.3	8	10	8.5E-02	4514.2	10	10	3.1E-03
249.27	2	2	3.1E+01	3205.5	6	8	5.6E-03	4521.1	10	10	2.3E-03
388.94	2	2	4.5E+01					4530.9	4	6	2.42E-02
390.86	4	2	8.8E+01					4547.2	4	6	5.3E-03
								4553.7	6	8	9.5E-03
								4565.9	8	8	2.5E-02

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
4574.3	4	4	1.2E-02	5944.0	4	6	2.13E-02	2601.1	8	6	1.7E-01
4580.7	8	10	2.1E-03	5997.2	10	10	2.4E-02	2622.5	8	10	6.1E-02
4619.5	6	4	5.3E-02	6020.7	2	4	1.0E-02	2841.1	6	6	2.0E-01
4633.1	4	4	1.2E-02	6045.4	6	8	2.6E-02	2854.2	8	6	2.7E-01
4669.1	6	4	2.85E-02	6047.3	8	10	9.0E-03	2914.8	8	8	7.7E-02
4681.9	6	6	1.5E-02	6249.8	6	6	3.5E-03	2933.0	8	6	1.0E-01
4684.9	10	8	2.8E-03	6258.7	6	8	3.3E-03	2973.2	8	8	2.3E-01
4685.3	6	8	3.4E-03	6309.6	4	6	1.83E-02	3046.9	8	8	1.8E-01
4691.9	2	4	4.08E-02	6360.8	6	8	4.6E-03	3081.1	8	8	1.9E-01
4706.1	6	6	1.4E-02	6428.6	6	6	6.0E-03	3122.5	6	6	5.2E-01
4740.2	4	4	5.0E-02	6430.8	8	8	2.9E-02	3142.4	6	6	8.8E-02
4758.0	4	6	7.5E-03	6450.4	8	10	2.2E-02	3172.7	8	8	1.8E-01
4769.0	8	8	2.8E-02	6485.4	10	10	5.8E-02	3233.7	8	10	5.1E-02
4780.9	10	8	2.16E-02	6514.4	6	4	2.2E-02	3247.0	6	8	3.0E-01
4812.8	4	4	1.2E-02	6516.1	6	8	1.25E-02	3251.8	6	4	5.2E-01
4825.4	6	6	2.63E-02	6612.0	6	4	1.9E-02	3380.7	6	8	2.0E-01
4832.2	4	4	1.7E-02	6673.7	2	4	9.0E-03	3406.0	6	8	1.5E-01
4852.2	4	4	1.7E-02	6771.7	4	4	5.8E-03	3410.1	8	10	1.0E-01
4884.0	6	8	1.1E-02	6866.2	8	6	2.58E-02	3416.6	8	8	5.7E-02
4904.6	12	10	1.95E-02	6927.4	10	12	1.01E-02	3418.6	6	6	1.1E-01
4920.9	8	10	2.1E-03	6928.5	10	8	1.69E-02	3563.9	8	6	9.8E-02
4921.3	2	4	1.2E-02	6951.3	10	10	3.7E-03	3567.4	8	10	4.2E-02
4926.0	4	4	1.5E-02	6953.9	6	8	8.3E-03	3744.1	8	8	9.5E-01
4936.4	8	6	4.5E-02	6966.1	8	8	1.2E-02	3751.8	8	10	1.9E-01
4969.7	4	4	1.0E-02	6969.5	10	10	2.9E-03	3798.5	6	4	1.2E+00
5012.5	4	4	1.9E-02	7407.9	6	4	2.0E-02	3807.7	6	6	3.9E-01
5037.4	10	8	4.4E-02					3883.1	8	6	1.0E+00
5043.3	6	4	2.73E-02	<i>Thallium</i>				3887.4	8	8	3.8E-01
5067.9	8	6	2.92E-02	<i>Tl I</i>				3916.5	6	8	1.5E+00
5069.9	10	12	1.7E-03	2104.6	2	4	4.0E-02	3949.3	6	6	1.0E+00
5082.3	10	12	1.9E-03	2118.9	2	2	2.0E-02	4022.6	6	8	4.0E-02
5087.4	6	4	1.5E-02	2129.3	2	4	5.8E-02	4044.5	6	4	2.9E-01
5090.7	8	6	9.5E-03	2151.9	2	2	3.1E-02	4094.2	8	6	9.0E-01
5095.3	6	6	5.0E-03	2168.6	2	4	9.8E-02	4105.8	8	10	6.0E-01
5136.5	2	2	4.5E-02	2237.8	2	4	1.9E-01	4138.3	6	4	7.0E-01
5141.6	4	2	1.2E-02	2316.0	2	2	7.8E-02	4158.6	6	8	5.5E-02
5143.7	6	4	1.7E-02	2379.7	2	4	4.4E-01	4187.6	8	8	6.1E-01
5147.6	6	4	9.0E-03	2507.9	4	2	1.1E-02	4203.7	8	10	2.5E-01
5161.8	4	6	6.3E-03	2538.2	4	2	1.6E-02	4222.7	6	8	1.5E-01
5218.7	8	6	8.2E-03	2580.1	2	2	1.8E-01	4271.7	6	6	1.1E-01
5235.4	6	6	4.7E-03	2609.0	4	6	1.0E-01	4359.9	8	6	1.3E-01
5295.0	6	6	7.5E-03	2609.8	4	4	1.9E-02	4386.4	8	8	4.2E-02
5336.1	6	8	5.5E-03	2665.6	4	2	5.7E-02	4394.4	6	4	1.1E-01
5349.6	6	4	2.2E-02	2709.2	4	6	1.7E-01	4643.1	6	6	3.4E-02
5354.7	4	4	6.5E-03	2710.7	4	4	3.7E-02	4681.9	6	8	3.9E-02
5396.0	6	8	2.5E-03	2767.9	2	4	1.26E+00	4691.1	6	6	3.9E-02
5402.5	4	2	1.4E-02	2826.2	4	2	8.0E-02	5307.1	8	10	2.3E-02
5435.3	4	6	1.1E-02	2918.3	4	6	4.2E-01	5658.3	6	8	1.0E-02
5499.4	10	10	6.1E-03	2921.5	4	4	7.6E-02	5675.8	8	10	1.3E-02
5518.9	8	10	3.8E-02	3229.8	4	2	1.73E-01	5760.2	6	6	1.3E-02
5620.7	8	10	6.0E-03	3519.2	4	6	1.24E+00				
5640.2	6	8	4.9E-03	3529.4	4	4	2.20E-01	<i>Tin</i>			
5645.9	6	8	1.43E-02	3775.7	2	2	6.25E-01	<i>Su I</i>			
5699.2	6	6	4.2E-03	5350.5	4	2	7.05E-01	2073.1	1	3	3.6E-02
5767.9	6	8	2.6E-03					2199.3	3	5	2.9E-01
5780.7	4	6	3.3E-03	<i>Thulium</i>				2209.7	5	5	5.6E-01
5811.1	8	6	5.7E-03	<i>Tm I</i>				2246.1	1	3	1.6E+00
5849.7	10	8	2.8E-03	2513.8	8	10	6.9E-02	2268.9	5	7	1.2E+00
5877.4	10	12	2.3E-02	2527.0	8	8	1.7E-01	2286.7	5	5	3.1E-01
5939.8	2	4	1.6E-02	2596.5	8	10	1.6E-01	2317.2	5	7	2.0E+00

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹			
	g_i	g_k			g_i	g_k			g_i	g_k				
2334.8	3	3	6.6E-01	5596.2	4	4	1.5E-01	4055.01	1	3	2.8E-01			
2354.8	3	5	1.7E+00	5797.2	6	6	2.8E-01	4060.26	3	5	2.4E-01			
2380.7	3	5	3.1E-02	5799.2	6	8	8.1E-01	4064.20	3	3	2.4E-01			
2408.2	5	3	1.8E-01	6453.5	2	4	1.2E+00	4065.09	3	1	7.0E-01			
2421.7	5	7	2.5E+00	6761.5	2	2	3.2E-01	4186.12	9	9	2.10E-01			
2429.5	5	7	1.5E+00	6844.1	2	2	6.6E-01	4266.23	5	5	3.1E-01			
2433.5	5	3	8.0E-03	<i>Titanium</i>							4284.99	5	5	3.2E-01
2455.2	5	5	1.1E-02	<i>Ti I</i>							4289.07	5	5	3.0E-01
2476.4	5	3	1.1E-02	2276.75	7	5	1.3E+00	4290.93	3	3	4.5E-01			
2483.4	5	5	2.1E-01	2280.00	9	7	9.4E-01	4295.75	3	1	1.3E+00			
2491.8	1	3	1.7E-01	2299.86	5	5	6.9E-01	4393.93	9	11	3.3E-01			
2495.7	5	5	6.2E-01	2302.75	7	7	5.7E-01	4417.27	11	9	3.6E-01			
2523.9	5	3	7.4E-02	2305.69	9	9	5.2E-01	4449.14	11	11	9.7E-01			
2546.6	1	3	2.1E-01	2424.26	9	9	1.7E-01	4450.90	9	9	9.6E-01			
2558.0	1	3	3.4E-01	2520.54	5	3	3.8E-01	4453.31	5	5	5.98E-01			
2571.6	5	7	4.5E-01	2529.87	7	5	3.8E-01	4453.71	7	7	4.7E-01			
2594.4	5	5	3.0E-01	2541.92	9	7	4.3E-01	4455.32	7	7	4.8E-01			
2636.9	1	3	1.1E-01	2599.91	5	5	6.7E-01	4457.43	9	9	5.6E-01			
2661.2	3	3	1.1E-01	2605.16	7	7	6.4E-01	4465.81	5	7	3.28E-01			
2706.5	3	5	6.6E-01	2611.29	9	9	6.4E-01	4481.26	7	7	5.7E-01			
2761.8	5	5	3.7E-03	2611.47	7	5	3.3E-01	4496.15	7	5	4.4E-01			
2779.8	5	7	1.8E-01	2619.94	9	7	2.1E-01	4518.02	7	9	1.72E-01			
2785.0	5	3	1.4E-01	2631.55	7	7	1.7E-01	4522.80	5	7	1.9E-01			
2788.0	1	3	1.4E-01	2632.42	5	5	2.7E-01	4527.31	3	5	2.2E-01			
2812.6	1	3	2.3E-01	2641.12	5	3	1.8E+00	4533.24	11	11	8.83E-01			
2813.6	5	5	1.2E-01	2644.28	7	5	1.4E+00	4534.78	9	9	6.87E-01			
2840.0	5	5	1.7E+00	2646.65	9	7	1.5E+00	4544.69	5	3	3.3E-01			
2850.6	5	5	3.3E-01	2733.27	5	5	1.9E+00	4548.76	7	5	2.85E-01			
2863.3	1	3	5.4E-01	2735.30	3	1	4.1E+00	4552.45	9	7	2.1E-01			
2913.5	1	3	8.3E-01	2912.07	5	7	1.3E+00	4563.43	9	11	2.1E-01			
3009.1	3	3	3.8E-01	2942.00	5	5	1.0E+00	4617.27	7	9	8.51E-01			
3032.8	1	3	6.2E-01	2948.26	7	7	9.3E-01	4623.10	5	7	5.74E-01			
3034.1	3	1	2.0E+00	2956.13	9	9	9.7E-01	4639.94	3	3	6.64E-01			
3141.8	1	3	1.9E-01	2956.80	7	5	1.8E-01	4640.43	3	1	5.0E-01			
3175.1	5	3	1.0E+00	3186.45	5	7	8.0E-01	4645.19	3	1	8.57E-01			
3218.7	1	3	4.7E-02	3191.99	7	9	8.5E-01	4650.02	5	3	2.6E-01			
3223.6	5	5	1.2E-03	3199.92	9	11	9.4E-01	4742.79	9	9	5.3E-01			
3262.3	5	3	2.7E+00	3341.88	5	7	6.5E-01	4758.12	11	11	7.13E-01			
3330.6	5	5	2.0E-01	3354.63	7	9	6.9E-01	4759.27	13	13	7.40E-01			
3655.8	1	3	4.1E-02	3370.44	5	3	7.6E-01	4778.26	9	9	2.0E-01			
3801.0	5	3	2.8E-01	3371.45	9	11	7.2E-01	4805.42	5	7	5.8E-01			
4524.7	1	3	2.6E-01	3377.58	7	5	6.9E-01	4840.87	5	5	1.76E-01			
5631.7	1	3	2.4E-02	3385.94	9	7	5.0E-01	4856.01	13	15	5.2E-01			
5970.3	5	3	9.6E-02	3635.46	5	7	8.04E-01	4885.08	11	13	4.90E-01			
6037.7	5	5	5.0E-02	3642.68	7	9	7.74E-01	4913.62	7	9	4.44E-01			
6069.0	1	3	4.6E-02	3653.50	9	11	7.54E-01	4928.34	3	5	6.2E-01			
6073.5	3	1	6.3E-02	3724.57	9	9	9.1E-01	4981.73	11	13	6.60E-01			
6171.5	3	3	4.9E-02	3725.16	5	3	7.3E-01	4989.14	7	5	3.25E-01			
<i>Sn II</i>				3729.81	5	5	4.27E-01	4991.07	9	11	5.84E-01			
2368.3	4	2	4.4E-03	3741.06	7	7	4.17E-01	4999.50	7	9	5.27E-01			
2449.0	4	6	3.7E-01	3752.86	9	9	5.04E-01	5000.99	9	7	3.52E-01			
2487.0	6	8	5.5E-01	3786.04	5	3	1.4E+00	5007.21	5	7	4.92E-01			
3283.2	4	6	1.0E+00	3948.67	5	3	4.85E-01	5014.28	3	5	6.8E-01			
3352.0	6	8	1.0E+00	3956.34	7	5	3.00E-01	5036.47	7	9	3.94E-01			
3472.5	2	4	1.6E-01	3958.21	9	7	4.05E-01	5038.40	5	7	3.87E-01			
3575.5	4	6	1.3E-01	3981.76	5	5	3.76E-01	5062.11	5	3	2.98E-01			
5332.4	2	4	8.6E-01	3989.76	7	7	3.79E-01	5210.39	9	9	3.57E-02			
5562.0	4	6	1.2E+00	3998.64	9	9	4.08E-01	5222.69	3	3	1.95E-01			
5588.9	4	6	8.5E-01	4013.24	7	5	2.0E-01	5224.30	11	11	3.6E-01			
								5259.98	5	7	2.3E-01			

λ	Weights		A	λ	Weights		A	λ	Weights		A
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i	
5351.07	7	7	3.4E-01	3023.67	8	8	1.0E+00	3510.86	8	8	9.3E-01
5503.90	11	9	2.6E-01	3029.76	10	10	3.5E-01	3520.27	2	4	4.8E-01
5774.04	9	11	5.5E-01	3056.75	2	4	3.2E-01	3535.41	4	6	5.5E-01
5785.98	11	13	6.1E-01	3058.08	6	6	5.0E-01	3641.33	4	2	4.9E-01
5804.27	13	15	6.8E-01	3066.34	4	4	3.3E-01	3706.23	4	4	3.1E-01
6098.66	9	7	2.5E-01	3071.25	6	4	3.6E-01	3741.64	6	6	6.2E-01
6220.46	9	7	1.8E-01	3072.99	4	2	1.6E+00	3757.70	4	4	4.1E-01
<i>Ti II</i>				3075.23	6	4	1.13E+00	3759.30	8	8	9.4E-01
2440.91	4	4	5.1E-01	3078.65	8	6	1.09E+00	3761.33	6	6	9.9E-01
2451.18	6	6	4.5E-01	3081.52	10	8	1.1E+00	4911.18	6	4	3.2E-01
2525.59	10	8	5.6E-01	3088.04	10	8	1.25E+00	<i>Ti III</i>			
2531.28	8	6	4.9E-01	3089.44	8	6	1.3E+00	865.79	5	3	6.6E+01
2534.63	6	4	5.4E-01	3097.20	4	6	4.4E-01	1002.37	5	5	7.6E+00
2535.89	4	2	6.8E-01	3103.81	10	8	1.1E+00	1004.67	7	5	4.3E+01
2555.99	6	8	3.2E-01	3105.10	2	4	6.3E-01	1005.80	3	3	1.3E+01
2635.44	4	4	1.9E+00	3106.26	6	6	7.8E-01	1007.16	5	3	3.8E+01
2638.56	6	6	1.7E+00	3117.67	4	2	1.1E+00	1008.12	3	1	5.1E+01
2642.02	8	8	1.9E+00	3119.83	6	4	5.9E-01	1286.37	9	9	2.0E+00
2645.86	10	10	2.7E+00	3127.86	6	6	1.6E+00	1289.30	7	7	2.2E+00
2746.54	6	8	2.6E+00	3128.50	8	8	1.1E+00	1291.62	5	5	2.4E+00
2751.59	8	10	3.7E+00	3161.23	4	2	5.9E-01	1293.23	9	7	1.0E+00
2752.68	8	10	1.1E+00	3161.80	6	4	4.6E-01	1298.97	7	5	4.9E+00
2757.62	6	8	7.2E-01	3162.59	8	6	3.9E-01	1327.59	5	3	3.2E+00
2758.35	4	6	9.9E-01	3168.55	10	8	4.1E-01	1420.44	1	3	1.2E+00
2758.79	2	4	4.4E-01	3181.73	6	8	4.6E-01	1421.63	3	1	4.0E+00
2764.28	4	4	7.4E-01	3182.54	4	6	4.3E-01	1422.41	5	5	3.0E+00
2804.82	6	8	4.6E+00	3189.49	4	4	9.2E-01	1424.14	5	3	1.6E+00
2810.30	8	10	5.1E+00	3190.91	6	8	1.3E+00	1455.19	9	7	6.4E+00
2817.83	10	12	3.8E+00	3202.56	4	6	1.1E+00	1498.70	5	5	2.8E+00
2819.87	8	8	6.5E-01	3224.25	12	10	7.0E-01	2007.36	3	3	3.4E+00
2821.26	6	8	7.9E-01	3228.62	4	2	2.0E+00	2007.60	1	3	1.2E+00
2827.12	8	10	1.0E+00	3232.29	8	6	6.0E-01	2010.80	5	3	5.4E+00
2828.06	12	14	4.4E+00	3234.51	10	10	1.38E+00	2097.30	5	7	3.3E+00
2828.64	6	6	1.2E+00	3236.13	4	4	7.0E-01	2099.86	3	5	2.5E+00
2828.83	10	10	9.1E-01	3236.58	8	8	1.11E+00	2104.86	3	3	1.1E+00
2834.02	10	12	7.9E-01	3239.04	6	6	9.87E-01	2105.09	1	3	1.7E+00
2836.47	8	8	1.2E+00	3239.66	6	4	9.4E-01	2199.22	3	3	5.7E+00
2839.64	12	12	8.3E-01	3241.99	4	4	1.16E+00	2237.77	7	7	2.4E+00
2845.93	10	10	1.2E+00	3251.91	6	4	3.38E-01	2331.35	3	1	4.3E+00
2851.11	2	4	4.1E-01	3252.92	8	6	3.9E-01	2331.66	3	3	1.2E+00
2856.10	12	12	1.5E+00	3272.07	2	4	3.2E-01	2339.00	5	3	3.0E+00
2862.33	4	6	4.0E-01	3278.28	4	4	9.6E-01	2346.79	7	5	3.3E+00
2877.47	8	8	5.7E-01	3278.91	6	4	1.0E+00	2374.99	5	3	4.0E+00
2884.13	10	10	5.2E-01	3282.32	2	2	1.6E+00	2413.99	5	7	3.8E+00
2910.65	8	8	4.6E-01	3287.66	8	10	1.4E+00	2516.05	7	9	3.4E+00
2926.64	10	8	8.9E-01	3315.32	2	4	3.8E-01	2567.56	3	3	2.3E+00
2931.10	6	6	3.2E+00	3321.70	4	4	7.2E-01	2984.75	5	5	1.9E+00
2936.02	4	6	2.7E+00	3322.94	10	10	3.96E-01	3066.51	3	3	2.5E+00
2938.57	6	8	2.4E+00	3329.46	8	8	3.25E-01	3228.89	3	3	1.5E+00
2941.90	8	10	1.8E+00	3332.11	6	4	1.1E+00	3278.31	7	9	3.4E+00
2942.97	8	8	1.1E+00	3340.34	4	4	3.6E-01	3320.94	3	5	2.8E+00
2945.30	10	12	2.7E+00	3361.23	8	10	1.1E+00	3340.20	7	9	3.7E+00
2952.00	8	8	3.0E-01	3372.80	6	8	1.11E+00	3346.18	9	11	3.7E+00
2954.59	10	12	4.0E+00	3383.77	4	6	1.09E+00	3354.71	11	13	4.4E+00
2958.80	8	10	4.0E+00	3452.49	2	2	7.7E-01	3397.24	3	1	1.8E+00
2979.06	4	6	1.2E+00	3456.40	4	4	8.2E-01	3404.46	3	3	1.8E+00
2990.06	6	8	5.6E-01	3465.56	4	2	4.1E-01	3417.62	3	5	1.9E+00
3017.17	12	12	3.6E-01	3483.63	10	8	9.7E-01	3915.47	9	11	2.1E+00
3022.64	10	10	1.2E+00	3492.37	8	6	9.8E-01	4119.14	5	5	9.9E-01
				3504.90	10	10	8.2E-01				

λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹	λ Å	Weights		A 10 ⁸ s ⁻¹
	g_i	g_k			g_i	g_k			g_i	g_k	
4213.26	9	11	2.2E+00	439.513	3	3	7.5E+00	60.762	2	2	3.5E+02
4215.53	9	11	2.2E+00	439.745	3	1	2.1E+01	61.286	4	2	1.8E+02
4247.62	11	13	1.1E+00	447.484	5	5	1.6E+01	62.433	4	6	2.08E+02
4248.54	5	7	2.3E+00	447.701	5	3	6.5E+00	62.470	6	8	2.22E+02
4250.09	3	5	9.5E-01	507.174	3	5	6.5E+00	65.540	4	6	3.2E+02
4259.01	11	13	9.4E-01	516.215	5	7	6.9E+00	65.577	6	8	3.5E+02
4269.84	9	11	1.7E+00	<i>Ti X</i>				67.171	2	4	6.2E+02
4285.61	13	15	3.0E+00	253	4	6	2.1E+02	67.555	4	6	7.2E+02
4288.66	11	13	1.1E+00	254	6	8	2.3E+02	70.986	4	6	5.7E+02
4296.70	11	13	1.6E+00	281	2	2	1.1E+02	71.031	6	8	6.1E+02
4319.56	9	11	1.1E+00	289.579	2	4	2.5E+02	71.545	2	2	1.8E+02
4343.25	3	1	1.0E+00	290.294	4	6	1.1E+02	71.987	4	2	3.48E+02
4378.94	3	5	1.6E+00	291	4	2	1.8E+02	82.121	2	4	5.9E+02
4433.91	11	13	1.8E+00	291	2	2	2.3E+02	82.307	4	6	1.13E+03
4440.66	1	3	1.2E+00	292	6	8	1.1E+02	82.344	2	2	5.8E+02
4533.26	3	5	1.5E+00	293.684	6	8	2.97E+02	82.368	6	8	1.2E+03
4576.53	9	7	1.3E+00	293.798	6	6	1.7E+02	89.844	2	4	9.9E+02
4628.07	3	1	1.5E+00	295.584	4	6	2.9E+02	90.512	4	6	1.16E+03
4652.86	7	9	2.6E+00	296	4	6	1.4E+02	90.547	4	4	1.9E+02
4874.00	5	7	1.5E+00	297	4	6	9.9E+01	116.497	4	6	3.0E+03
4914.32	3	3	1.1E+00	298	4	6	4.3E+02	116.597	6	8	3.2E+03
4971.19	9	11	2.1E+00	302	2	2	1.6E+02	116.62	6	6	2.1E+02
5083.80	5	3	9.7E-01	305	2	4	2.5E+02	139.884	6	4	2.6E+02
5278.33	3	3	9.4E-01	317	2	2	1.5E+02	140.361	4	2	2.9E+02
7506.87	11	13	1.1E+00	355.815	2	2	1.3E+02	141.6	4	6	1.7E+02
<i>Ti IV</i>				360.133	4	4	2.19E+02	141.7	6	8	1.7E+02
423.49	4	6	4.9E+01	363	4	2	2.1E+02	169.7	4	6	2.8E+02
424.16	6	8	5.3E+01	363	6	6	1.3E+02	169.8	6	8	2.9E+02
433.63	4	2	5.5E+00	365.628	4	2	1.2E+02	207.2	2	4	1.5E+02
433.76	6	4	5.0E+00	382	4	6	1.8E+02	208.5	4	6	1.8E+02
729.36	4	2	5.7E+00	385	6	8	1.8E+02	252.8	4	6	4.8E+02
1183.64	2	2	6.9E+00	389.99	6	4	1.1E+02	253.1	6	8	5.2E+02
1195.21	4	2	1.4E+01	<i>Ti XI</i>				257.5	4	2	2.4E+02
1451.74	2	4	1.8E+01	65.403	1	3	5.1E+02	<i>Ti XIII</i>			
1467.34	4	6	2.1E+01	87.725	1	3	8.5E+02	23.356	1	3	1.02E+05
2067.56	2	4	5.1E+00	266	5	7	1.8E+02	23.698	1	3	1.2E+04
2103.16	2	2	5.0E+00	308.250	3	5	1.3E+02	23.991	1	3	3.4E+02
2541.79	4	6	6.9E+00	313.229	5	7	1.6E+02	26.641	1	3	4.06E+03
2546.88	6	8	7.4E+00	318	3	1	1.4E+02	26.960	1	3	3.06E+03
2862.60	4	2	4.1E+00	322.75	5	7	1.99E+02	117.1	3	3	1.3E+02
3576.44	4	6	4.6E+00	323	1	3	1.8E+02	117.3	3	1	2.8E+02
<i>Ti VIII</i>				327.192	3	5	2.9E+02	120.2	5	3	5.4E+02
249	6	4	1.0E+01	332	3	1	3.25E+02	120.2	7	5	4.4E+02
258.610	6	8	7.5E+02	386.140	1	3	1.48E+02	128.7	3	3	1.2E+02
269.533	4	6	6.0E+02	408	7	9	1.37E+02	<i>Ti XIV</i>			
272.037	4	4	4.3E+02	425.74	3	1	1.2E+02	21.341	4	6	9.8E+03
272.843	6	4	6.2E+01	446.69	3	1	1.2E+02	21.522	2	4	4.5E+04
276.701	2	4	9.3E+01	453	5	7	1.3E+02	21.657	4	4	1.3E+04
277.813	4	4	3.8E+02	<i>Ti XII</i>				21.733	4	4	8.8E+04
289.375	2	4	3.6E+01	52.896	2	4	1.61E+02	21.82	4	2	6.4E+04
478.971	4	4	1.7E+01	53.140	4	6	1.9E+02	21.883	2	4	7.0E+04
480.376	6	6	1.5E+01	53.433	2	4	2.1E+02	21.958	2	4	1.2E+04
<i>Ti IX</i>				53.457	2	2	2.1E+02	22.05	2	2	1.4E+04
267.941	5	7	5.1E+02	55.181	2	4	2.4E+02	24.592	4	2	6.1E+03
278.713	5	7	4.7E+02	55.443	4	6	2.81E+02	24.891	2	2	7.5E+03
281.446	3	1	3.2E+02	59.133	2	4	3.72E+02	<i>Ti XV</i>			
285.128	1	3	4.1E+02	59.435	4	6	4.41E+02	20.19	5	7	6.9E+03
433.567	1	3	6.9E+00	60.701	2	4	3.4E+02	20.234	5	7	1.9E+04

λ Å	Weights		A 10^8 s $^{-1}$
	g_i	g_k	
3198.8	7	9	4.6E-02
3207.3	7	9	3.0E-02
3208.3	5	5	4.4E-02
3215.6	9	11	2.1E-01
3221.9	5	7	1.61E-02
3223.1	5	3	3.53E-03
3232.5	9	9	2.4E-02
3235.1	7	5	2.68E-03
3259.7	7	7	1.3E-02
3300.8	7	9	8.1E-02
3311.4	7	5	5.6E-02
3363.3	9	7	6.6E-03
3371.0	7	5	1.0E-02
3371.4	3	3	6.7E-03
3386.1	7	7	2.64E-03
3413.0	7	9	9.7E-03
3459.5	9	9	2.04E-03
3510.0	7	9	5.2E-03
3545.2	1	3	3.2E-02
3570.6	5	3	6.7E-03
3606.1	3	5	9.6E-03
3617.5	7	7	1.1E-01
3631.9	3	5	1.3E-02
3675.6	9	11	1.20E-02
3682.1	9	11	2.0E-02
3707.9	7	7	2.9E-02
3757.9	7	9	1.38E-02
3760.1	5	7	1.99E-02
3768.5	3	3	3.47E-02
3780.8	7	5	4.2E-02
3809.2	7	5	9.0E-03
3817.5	7	7	3.1E-02
3829.1	3	3	3.83E-03
3835.1	5	5	5.2E-02
3846.3	3	5	2.14E-02
3847.5	1	3	8.3E-03
3864.3	5	5	5.6E-03
3868.0	7	9	4.6E-02
3881.4	7	7	3.6E-02
3968.5	1	3	5.07E-03
3975.5	9	11	4.1E-03
4001.4	9	9	5.6E-03
4008.8	7	9	1.63E-01
4019.3	5	3	6.7E-03
4028.8	1	3	2.0E-02
4045.6	7	5	2.88E-02
4055.2	7	9	1.79E-03
4070.0	7	5	3.60E-02
4070.6	3	5	5.6E-03
4074.4	7	7	1.0E-01
4088.3	5	3	4.13E-03
4102.7	9	7	4.9E-02
4115.6	11	11	4.8E-03
4137.5	5	7	8.4E-03
4171.2	7	9	8.6E-03
4203.8	9	7	4.9E-03
4219.4	9	7	6.1E-03
4244.4	9	11	1.38E-02
4269.4	7	5	3.04E-02
4283.8	9	7	1.69E-03

λ Å	Weights		A 10^8 s $^{-1}$
	g_i	g_k	
4294.6	7	5	1.2E-01
4302.1	7	7	3.6E-02
4355.2	9	9	5.1E-03
4361.8	9	7	1.64E-03
4378.5	7	5	3.48E-03
4458.1	3	5	4.2E-03
4466.3	7	5	1.5E-02
4472.5	13	11	1.55E-03
4484.2	3	5	5.6E-03
4492.3	9	11	3.6E-03
4495.3	11	11	3.3E-03
4504.8	9	7	7.0E-03
4552.5	9	9	1.42E-03
4586.8	1	3	4.20E-03
4592.6	7	9	3.4E-03
4609.9	7	9	1.42E-02
4613.3	9	9	2.9E-03
4634.8	9	9	8.8E-03
4659.9	1	3	1.0E-02
4680.5	7	7	1.4E-02
4720.4	3	5	3.22E-03
4729.6	7	5	7.8E-03
4752.6	3	3	5.20E-03
4757.5	7	5	2.72E-03
4757.8	11	9	4.1E-03
4788.4	9	11	2.6E-03
4843.8	5	5	1.9E-02
4886.9	9	11	8.1E-03
4924.6	13	11	1.75E-03
4931.6	7	5	1.0E-02
4948.6	9	11	1.36E-03
4972.6	9	11	3.9E-03
4982.6	1	3	4.17E-03
4986.9	11	9	6.3E-03
5006.2	9	7	1.2E-02
5015.3	7	9	5.4E-03
5040.4	3	5	5.2E-03
5053.3	3	3	1.9E-02
5071.5	13	11	3.4E-03
5117.6	11	11	1.61E-03
5124.2	5	5	4.0E-03
5141.2	7	9	1.12E-03
5224.7	7	5	1.2E-02
5243.0	9	7	1.1E-02
5254.5	7	5	3.86E-03
5268.6	9	9	1.4E-03
5500.5	11	9	6.9E-03
5514.7	5	3	7.3E-03
5537.7	9	11	2.2E-03
5617.1	7	7	1.47E-03
5631.9	9	7	1.43E-03
5660.7	13	11	6.8E-03
5675.4	5	5	2.20E-03
5796.5	9	7	2.21E-03
5891.6	7	7	1.47E-03
5947.6	5	7	2.40E-03
5965.9	7	5	1.0E-02
6021.5	5	3	8.7E-03
6081.4	5	3	4.7E-03
6203.5	7	7	3.0E-03

λ Å	Weights		A 10^8 s $^{-1}$
	g_i	g_k	
6285.9	7	5	6.6E-03
6292.0	3	5	2.26E-03
6303.2	9	9	1.84E-03
6404.2	5	7	1.50E-03
6439.7	9	9	1.29E-03
6445.1	7	5	6.4E-03
6532.4	3	5	4.6E-03
6538.1	11	9	2.7E-03
6563.2	5	5	2.04E-03
6814.9	9	9	1.46E-03
7285.8	13	11	1.47E-03
7569.9	5	3	3.73E-03
7664.9	5	3	3.80E-03
8017.2	5	7	1.6E-03
8358.7	5	7	1.89E-03
9381.4	9	7	1.53E-03

*Uranium**UI*

3553.0	13	13	2.0E-02
3553.0	9	7	1.4E-02
3553.4	15	13	2.2E-02
3554.5	11	9	8.4E-03
3554.9	15	17	7.9E-03
3555.3	13	15	2.7E-02
3555.8	13	11	4.1E-03
3556.9	13	11	7.5E-03
3557.8	13	13	2.9E-02
3558.0	11	13	1.6E-02
3558.6	9	7	3.9E-02
3559.4	7	9	1.5E-02
3560.3	9	7	6.4E-02
3561.4	15	13	5.5E-02
3561.5	9	9	2.5E-02
3561.8	13	11	5.7E-02
3563.7	13	13	2.9E-02
3563.8	7	7	1.1E-02
3565.0	13	11	2.9E-02
3566.0	13	15	1.7E-02
3566.6	11	11	2.4E-01
3568.8	13	13	3.8E-02
3569.1	17	15	1.1E-01
3569.4	9	9	1.5E-02
3570.1	13	11	1.3E-02
3570.2	11	9	5.3E-03
3570.6	13	15	2.7E-02
3570.7	15	15	1.2E-02
3571.2	11	11	6.3E-03
3571.6	17	15	1.3E-01
3572.9	13	15	1.5E-02
3573.9	13	11	4.0E-02
3574.1	13	15	3.5E-02
3574.8	13	15	1.9E-02
3577.1	17	15	4.3E-02
3577.5	15	13	7.8E-03
3577.8	11	11	8.3E-03
3577.9	13	13	2.3E-02
3578.3	13	11	2.0E-02
3580.0	9	9	1.2E-02
3580.2	11	9	2.9E-02

λ	Weights		A	λ	Weights		A	λ	Weights		A	
	\AA	g_i			g_k	10^8 s^{-1}			\AA	g_i		g_k
3580.4	11	13	7.5E-03	3543.49	2	2	6.7E-01	4232.95	8	8	7.7E-01	
3580.9	13	13	2.1E-02	3545.33	4	4	3.7E-01	4268.64	14	14	1.2E+00	
3582.6	13	13	2.9E-02	3553.27	6	6	2.2E-01	4271.55	12	12	9.6E-01	
3584.6	7	5	2.4E-02	3555.14	4	2	2.6E-01	4276.95	10	10	9.4E-01	
3584.9	13	15	1.8E-01	3663.60	4	6	3.1E+00	4284.05	8	8	1.2E+00	
3585.4	11	11	1.9E-02	3667.74	6	8	2.7E+00	4291.82	12	14	8.8E-01	
3585.8	11	9	2.8E-02	3672.41	12	12	9.2E-01	4296.10	10	12	7.7E-01	
3587.8	9	11	1.3E-02	3673.41	8	10	2.7E+00	4297.67	8	10	7.0E-01	
3588.3	7	9	1.8E-02	3676.70	14	14	1.3E+00	4298.03	6	8	7.8E-01	
3589.7	11	13	2.1E-02	3680.12	10	12	2.2E+00	4379.23	10	12	1.1E+00	
3589.8	15	13	5.9E-02	3686.26	10	12	2.3E-01	4384.71	8	10	1.1E+00	
3590.7	9	7	2.2E-02	3687.50	12	14	2.9E+00	4389.98	6	8	6.9E-01	
3591.7	11	9	5.3E-02	3688.07	8	8	3.5E-01	4395.22	4	6	5.5E-01	
3593.0	11	11	1.4E-02	3690.28	2	4	4.5E-01	4400.57	2	4	3.4E-01	
3593.2	13	15	4.2E-02	3692.22	6	6	5.4E-01	4406.64	10	10	2.2E-01	
3593.7	11	11	7.2E-02	3695.34	14	16	2.8E+00	4407.63	8	8	4.4E-01	
<i>Vanadium</i>												
<i>VI</i>												
3043.12	6	8	2.3E-01	3695.86	4	4	6.6E-01	4408.20	6	6	6.0E-01	
3050.39	10	8	5.3E-01	3703.57	10	8	9.2E-01	4416.47	4	2	2.6E-01	
3053.65	4	4	1.3E+00	3704.70	8	6	6.6E-01	4452.01	14	16	9.2E-01	
3056.33	6	6	1.3E+00	3705.04	6	4	3.6E-01	4457.75	10	12	2.7E-01	
3060.46	8	8	1.4E+00	3706.03	10	10	5.2E-01	4460.33	10	8	3.0E-01	
3066.37	10	10	2.1E+00	3708.71	12	12	4.4E-01	4462.36	12	14	7.6E-01	
3066.53	6	4	3.2E-01	3790.46	10	8	2.3E-01	4468.00	8	10	2.3E-01	
3075.93	4	6	2.8E-01	3794.96	10	10	2.3E-01	4469.71	10	12	6.2E-01	
3080.33	2	4	2.7E-01	3806.79	10	10	2.5E-01	4474.04	10	8	4.7E-01	
3083.54	6	8	2.5E-01	3818.24	4	2	6.73E-01	4496.06	8	6	4.0E-01	
3087.06	2	2	9.2E-01	3828.56	6	4	5.33E-01	4514.18	6	4	3.3E-01	
3088.11	4	6	4.9E-01	3840.75	8	6	5.48E-01	4524.21	12	10	3.0E-01	
3089.13	4	4	5.3E-01	3855.36	4	4	3.30E-01	4525.17	4	2	4.1E-01	
3093.79	6	6	4.1E-01	3855.85	10	8	5.78E-01	4529.58	10	8	2.4E-01	
3094.69	2	4	4.3E-01	3863.86	8	6	3.1E-01	4545.40	10	12	7.6E-01	
3112.92	4	2	5.0E-01	3864.86	6	6	2.70E-01	4560.72	8	10	7.0E-01	
3183.41	6	8	2.4E+00	3871.07	10	8	2.8E-01	4571.79	6	8	6.0E-01	
3183.96	8	10	2.5E+00	3875.07	8	8	2.36E-01	4578.73	4	6	6.8E-01	
3183.98	4	6	2.4E+00	3902.26	10	10	2.68E-01	4706.16	6	4	2.4E-01	
3185.38	10	12	2.7E+00	3921.86	4	2	2.7E-01	4757.47	4	2	7.6E-01	
3198.01	6	6	3.9E-01	3922.43	6	6	2.6E-01	4766.62	6	4	5.6E-01	
3202.39	8	8	4.0E-01	3930.02	10	10	3.3E-01	4776.36	8	6	5.1E-01	
3205.58	8	10	1.3E+00	3934.01	8	8	6.2E-01	4786.50	10	8	4.7E-01	
3207.41	10	10	2.6E-01	3992.80	12	10	1.2E+00	4796.92	12	10	4.8E-01	
3212.43	10	12	1.4E+00	3998.73	14	12	1.0E+00	4807.52	14	12	5.8E-01	
3218.87	8	6	3.5E-01	4050.96	10	10	1.4E+00	5193.00	12	12	4.0E-01	
3233.19	10	8	3.2E-01	4051.35	12	12	1.3E+00	5195.39	8	8	2.3E-01	
3273.03	8	8	2.7E-01	4090.57	8	10	8.5E-01	5234.08	10	10	4.9E-01	
3284.36	10	10	2.8E-01	4092.68	8	10	2.30E-01	5240.87	12	12	4.3E-01	
3309.18	4	4	3.2E-01	4095.48	6	8	7.2E-01	5415.25	12	14	3.1E-01	
3329.85	6	4	7.7E-01	4099.78	6	8	4.10E-01	5487.91	12	10	2.9E-01	
3356.35	4	6	3.1E-01	4102.15	4	6	7.1E-01	5507.75	10	8	3.5E-01	
3365.55	2	4	4.8E-01	4104.77	10	8	2.1E+00	6090.21	8	6	2.60E-01	
3376.05	4	4	3.2E-01	4105.16	4	6	4.9E-01	<i>VII</i>				
3377.39	4	2	9.0E-01	4109.78	2	4	5.00E-01	2527.90	13	13	6.1E-01	
3377.62	6	6	6.0E-01	4111.78	10	10	1.01E+00	2528.47	9	9	5.2E-01	
3397.58	6	4	2.3E-01	4115.18	8	8	5.80E-01	2528.83	11	11	5.3E-01	
3400.39	8	8	2.5E-01	4116.47	6	6	3.2E-01	2554.04	9	9	5.4E-01	
3529.73	4	6	4.1E-01	4116.59	2	2	2.90E-01	2589.10	9	9	7.7E-01	
3533.68	6	8	5.2E-01	4123.50	4	2	1.00E+00	2640.86	5	7	1.2E+00	
3533.76	2	4	3.7E-01	4128.06	6	4	7.70E-01	2677.80	3	5	3.4E-01	
				4131.99	8	6	5.5E-01	2679.33	7	7	3.4E-01	
				4134.49	10	8	2.90E-01	2683.09	1	3	3.4E-01	
				4232.46	10	10	9.8E-01					

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
2687.96	9	9	7.6E-01	3271.12	7	9	6.9E-01	1308.06	7	9	7.9E+00
2689.88	3	1	9.2E-01	3276.12	9	11	5.2E-01	1309.50	5	5	8.7E+00
2690.25	7	5	3.4E-01	3279.84	9	11	5.8E-01	1312.72	7	7	8.6E+00
2690.79	5	3	5.2E-01	3287.71	5	7	7.5E-01	1317.57	5	7	8.7E+00
2700.94	9	11	3.5E-01	3337.85	5	7	5.3E-01	1321.92	7	9	9.9E+00
2706.17	7	9	3.4E-01	3517.30	9	7	3.8E-01	1326.81	3	5	4.0E+00
2734.22	9	7	6.2E-01	3530.77	5	3	4.5E-01	1329.29	5	5	1.5E+01
2753.41	13	11	4.2E-01	3545.19	7	5	4.3E-01	1329.97	3	3	4.8E+00
2784.20	9	9	1.3E+00	3556.80	9	7	5.1E-01	1330.36	1	3	6.0E+00
2787.91	7	9	5.0E-01	3592.01	7	5	4.4E-01	1331.67	3	1	1.7E+01
2825.86	9	7	1.2E+00	3618.92	3	5	3.3E-01	1332.46	5	3	7.5E+00
2843.82	7	5	9.9E-01					1334.49	9	9	8.3E+00
2847.57	9	7	4.6E-01	<i>VIII</i>				1355.13	7	9	2.5E+01
2854.34	11	9	5.0E-01	2318.06	8	10	4.6E+00	1356.53	5	3	4.9E+00
2862.31	11	11	3.6E-01	2323.82	6	8	3.8E+00	1395.00	5	7	1.4E+01
2868.11	5	3	2.1E+00	2330.42	10	10	3.2E+00	1400.42	5	7	7.5E+00
2869.13	13	11	4.8E-01	2331.75	8	8	2.5E+00	1403.62	7	9	8.4E+00
2882.49	5	5	4.2E-01	2334.21	6	6	2.2E+00	1412.69	3	3	1.1E+01
2884.78	3	3	5.6E-01	2337.13	4	4	2.7E+00	1414.41	5	7	1.2E+01
2889.61	3	1	1.9E+00	2343.10	6	8	3.6E+00	1414.84	5	5	4.6E+00
2891.64	5	3	1.4E+00	2358.73	6	8	4.2E+00	1418.53	7	7	5.2E+00
2892.43	9	9	3.6E-01	2366.31	8	10	4.2E+00	1419.58	7	9	1.3E+01
2892.65	7	5	1.3E+00	2371.06	10	12	5.2E+00	1423.72	3	5	7.1E+00
2893.31	9	7	1.2E+00	2373.06	4	6	2.9E+00	1426.65	9	11	2.2E+01
2903.07	3	5	3.4E-01	2382.46	8	10	5.0E+00	1429.11	5	5	5.0E+00
2906.45	7	7	7.8E-01	2393.58	6	8	4.3E+00	1434.84	7	7	5.4E+00
2908.81	11	9	1.6E+00	2404.18	4	6	2.5E+00	1451.04	3	3	7.0E+00
2910.01	5	5	1.1E+00	2516.14	10	10	3.7E+00	1454.00	5	3	1.1E+01
2910.38	3	3	1.2E+00	2521.55	8	8	3.5E+00	1520.14	5	7	7.2E+00
2911.05	7	9	3.7E-01	2548.21	6	4	2.0E+00	1522.49	3	5	5.5E+00
2912.46	11	9	5.0E-01	2554.22	8	6	1.2E+00	1601.92	3	3	1.2E+01
2915.88	9	7	4.9E-01	2593.05	6	6	2.8E+00	1611.88	7	7	5.2E+00
2924.02	11	11	1.7E+00	2595.10	8	8	2.8E+00	1806.18	5	3	7.3E+00
2924.63	9	9	1.2E+00	<i>VIV</i>				1809.85	3	1	7.2E+00
2930.80	7	7	5.8E-01	677.345	9	9	6.7E+00	1817.68	5	3	4.8E+00
2941.37	11	9	3.5E-01	680.632	9	7	1.2E+01	1825.84	7	5	5.3E+00
2944.57	9	7	7.6E-01	681.145	7	5	1.1E+01	1861.56	5	7	6.6E+00
2948.08	9	11	4.0E-01	682.455	7	7	6.5E+00	1939.07	7	9	5.8E+00
2952.07	7	5	7.2E-01	682.923	5	5	6.9E+00	1951.43	5	7	5.0E+00
2955.58	7	9	3.3E-01	684.450	7	5	7.7E+00	1963.10	3	5	4.8E+00
2968.37	7	9	7.0E-01	691.530	5	3	1.1E+01	1997.72	7	7	4.7E+00
2972.26	5	7	5.2E-01	723.537	3	1	1.5E+01	2084.43	5	5	4.0E+00
2973.98	9	11	3.5E-01	724.068	5	5	1.1E+01	2120.05	7	9	8.1E+00
2985.18	7	9	4.4E-01	724.809	5	3	5.6E+00	2141.20	3	5	7.0E+00
3001.20	7	7	7.5E-01	737.854	9	7	2.4E+01	2146.83	7	9	6.6E+00
3014.82	5	3	8.9E-01	750.110	5	5	1.0E+01	2149.85	5	7	5.1E+00
3016.78	7	5	5.0E-01	884.146	1	3	4.7E+00	2151.09	7	9	4.3E+00
3020.21	9	7	5.0E-01	1071.05	5	5	6.1E+00	2155.34	11	13	1.2E+01
3048.21	11	13	7.0E-01	1110.72	3	3	5.0E+00	2446.80	9	11	5.3E+00
3063.25	9	11	1.0E+00	1112.20	7	7	6.3E+00	2570.72	9	11	7.6E+00
3100.94	7	7	5.8E-01	1112.44	5	5	5.0E+00	3284.56	7	9	5.3E+00
3113.56	11	11	5.0E-01	1127.84	7	5	8.9E+00	3496.42	7	9	4.4E+00
3122.89	11	13	7.6E-01	1131.26	9	7	9.4E+00	3514.25	9	11	4.7E+00
3134.93	13	13	5.9E-01	1194.46	7	5	1.0E+01	<i>Xenon</i>			
3136.50	11	11	5.3E-01	1226.52	5	5	1.5E+01	<i>Xe I</i>			
3139.73	9	9	5.2E-01	1243.72	3	1	9.4E+00	1043.8	1	3	5.9E-01
3151.32	3	5	4.4E-01	1247.07	5	3	4.7E+00	1047.1	1	3	1.3E+00
3190.69	9	9	3.3E-01	1272.97	3	1	2.7E+01	1050.1	1	3	8.5E-02
3250.78	11	9	5.2E-01	1304.17	3	5	1.5E+01	1056.1	1	3	2.45E+00
3251.87	5	7	3.5E-01	1305.42	5	7	7.0E+00				

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	
	g_i	g_k			g_i	g_k			g_i	g_k		
1061.2	1	3	1.9E-01	2984.25	6	8	4.8E-01	4981.97	4	6	4.7E-03	
1068.2	1	3	3.99E+00	2995.26	6	4	5.1E-02	5004.44	6	4	1.2E-02	
1085.4	1	3	4.10E-01	2996.94	4	6	8.4E-02	5205.01	4	4	8.4E-03	
1099.7	1	3	4.34E-01	3005.26	4	4	4.8E-02	5258.47	6	6	2.9E-03	
1110.7	1	3	1.5E+00	3022.28	6	6	6.6E-02	5271.82	8	6	1.1E-02	
1129.3	1	3	4.4E-02	3045.36	6	6	1.07E-01	5380.63	6	4	3.2E-01	
1170.4	1	3	1.6E+00	3053.95	6	4	1.9E-03	5381.24	4	4	9.9E-03	
1192.0	1	3	6.2E+00	3155.65	4	6	2.7E-03	5388.39	6	8	1.1E-02	
1250.2	1	3	1.4E-01	3172.84	4	4	9.9E-03	5390.81	8	6	2.9E-02	
1295.6	1	3	2.46E+00	3185.96	6	8	1.2E-03	5401.88	6	8	6.0E-03	
1469.6	1	3	2.81E+00	3209.38	6	6	3.0E-03	5424.36	6	4	3.47E-01	
4501.0	5	3	6.2E-03	3227.16	6	4	1.10E-03	5466.24	4	4	1.0E-01	
4524.7	5	5	2.1E-03	3484.05	4	6	1.2E-02	5466.47	10	12	6.3E-01	
4624.3	5	5	7.2E-03	3549.66	6	6	1.0E-03	5469.10	4	6	3.6E-03	
4671.2	5	7	1.0E-02	3552.69	4	4	2.3E-01	5513.65	6	6	2.39E-01	
4807.0	3	1	2.4E-02	4077.36	4	6	1.1E+00	5519.88	4	6	1.2E-02	
7119.6	7	9	6.6E-02	4083.71	4	4	2.5E-01	5526.43	6	4	3.9E-03	
7967.3	1	3	3.0E-03	4102.36	6	8	1.3E+00	5527.56	8	10	5.4E-01	
8409.2	5	3	1.0E-02	4128.30	6	6	1.6E+00	5541.63	8	8	5.2E-02	
<i>Xe II</i>												
4180.1	4	4	2.2E+00	4142.84	4	4	1.6E+00	5551.00	4	4	6.9E-02	
4330.5	6	8	1.4E+00	4167.51	6	6	2.38E-01	5573.03	6	4	1.8E-02	
4414.8	6	6	1.0E+00	4235.93	6	4	3.0E-01	5594.12	6	8	5.0E-02	
4603.0	4	4	8.2E-01	4352.40	4	4	6.7E-03	5606.34	10	10	5.84E-02	
4844.3	6	8	1.1E+00	4379.33	6	4	7.83E-01	5619.96	6	4	2.0E-02	
4876.5	6	8	6.3E-01	4385.47	4	4	6.9E-02	5630.14	4	6	4.9E-01	
5260.4	2	4	2.2E-01	4394.01	8	8	1.9E-02	5641.78	2	4	1.9E-02	
5262.0	4	4	8.5E-01	4409.70	4	6	2.7E-03	5675.27	6	6	9.3E-02	
5292.2	6	6	8.9E-01	4417.43	10	8	3.2E-02	5675.64	4	6	4.3E-02	
5372.4	4	2	7.1E-01	4437.34	6	6	8.64E-02	5693.63	4	4	1.1E-01	
5419.2	4	6	6.2E-01	4443.65	10	8	1.1E-01	5714.94	8	6	2.0E-02	
5439.0	4	2	7.4E-01	4459.01	4	6	1.8E-02	5729.25	6	6	2.2E-03	
5472.6	8	8	9.9E-02	4476.95	8	6	2.8E-01	5732.09	6	6	7.5E-02	
5531.1	8	6	8.8E-02	4491.74	10	10	2.3E-02	5740.22	8	6	4.0E-02	
5719.6	4	6	6.1E-02	4514.01	4	6	3.34E-01	5757.59	4	6	7.6E-03	
5976.5	4	4	2.8E-01	4527.78	8	6	8.33E-01	5788.36	4	4	9.4E-03	
6036.2	6	6	7.5E-02	4534.09	6	8	4.4E-02	5844.13	6	4	5.6E-03	
6051.2	8	6	1.7E-01	4544.31	6	6	4.10E-01	5879.93	4	2	8.5E-02	
6097.6	6	4	2.6E-01	4559.36	2	4	4.0E-01	5902.91	6	8	4.0E-02	
6270.8	4	6	1.8E-01	4581.33	6	4	1.5E-01	6087.94	6	4	1.1E-01	
6277.5	4	6	3.6E-02	4613.00	6	4	1.8E-01	6191.72	4	4	4.7E-02	
6805.7	8	6	6.1E-02	4643.70	4	6	1.8E-01	6222.58	4	6	5.9E-03	
6990.9	10	8	2.7E-01	4653.78	4	6	1.6E-01	6402.01	6	4	2.7E-03	
<i>Ytterbium</i>												
<i>Yb I</i>												
2464.5	1	3	9.1E-01	4674.85	6	8	1.3E-01	6435.02	6	6	4.0E-02	
2672.0	1	3	1.18E-01	4725.84	4	4	1.5E-01	6437.17	10	8	4.8E-02	
3464.4	1	3	6.2E-01	4762.96	6	4	4.2E-02	6538.57	10	10	1.5E-01	
3988.0	1	3	1.76E+00	4780.16	2	4	8.9E-02	6622.48	8	6	4.5E-03	
5556.5	1	3	1.14E-02	4781.03	8	10	1.0E-01	6815.15	2	4	7.18E-02	
<i>Yb II</i>												
3289.4	2	4	1.8E+00	4799.30	6	8	1.6E-01	7009.89	2	4	4.4E-02	
3694.2	2	2	1.4E+00	4804.31	6	4	2.6E-01	7035.15	4	4	6.3E-02	
<i>Yttrium</i>												
<i>Y I</i>												
2948.41	4	4	3.5E-01	4804.80	4	4	3.84E-01	<i>Y II</i>				
2974.59	4	6	3.5E-01	4821.63	6	6	1.0E-01	3112.03	1	3	1.3E-02	
				4845.67	8	8	6.8E-01	3179.42	3	5	3.8E-02	
				4852.68	6	6	6.2E-01	3195.62	3	3	8.23E-01	
				4856.71	6	6	2.0E-01	3200.27	5	5	4.8E-01	
				4859.84	4	4	7.26E-01	3203.32	3	1	2.77E+00	
				4893.44	6	4	2.2E-01	3216.69	5	3	2.0E+00	
				4900.08	8	6	2.0E-01	3242.28	7	5	2.0E+00	
				4906.11	10	8	1.2E-01	3448.81	5	5	4.1E-02	
				4950.01	8	6	2.0E-02	3467.88	5	3	2.7E-02	
				4963.49	4	4	1.4E-02					

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_i	g_k			g_i	g_k			g_i	g_k	
3496.08	1	3	3.49E-01	4374.95	5	5	9.97E-01	<i>Zinc</i>			
3549.01	5	7	3.97E-01	4398.01	5	3	1.16E-01	<i>Zn I</i>			
3584.51	3	5	4.02E-01	4422.59	3	1	1.83E-01	748.29	1	3	6.0E-02
3600.74	7	7	1.4E+00	4682.33	5	5	1.9E-02	765.60	1	3	7.6E-02
3601.91	3	3	1.13E+00	4786.58	7	7	2.1E-02	792.05	1	3	5.7E-02
3611.04	5	5	1.04E+00	4823.31	5	5	4.3E-02	793.85	1	3	1.8E-01
3628.70	5	3	3.3E-01	4854.87	5	3	3.9E-01	809.92	1	3	2.6E-01
3664.62	7	5	3.7E-01	4881.44	5	3	1.5E-03	1109.1	1	3	3.05E-01
3710.29	7	9	1.5E+00	4883.69	9	7	4.7E-01	2138.6	1	3	7.09E+00
3747.55	3	3	1.9E-01	4900.11	7	5	4.51E-01	3075.9	1	3	3.29E-04
3774.34	5	7	1.1E+00	4982.13	7	9	1.5E-02	3282.3	1	3	9.0E-01
3776.56	5	3	2.42E-01	5087.42	9	9	2.0E-01	3302.6	3	5	1.2E+00
3788.70	3	5	8.1E-01	5119.11	5	7	1.6E-02	3302.9	3	3	6.7E-01
3818.34	5	5	9.70E-02	5200.41	5	5	1.3E-01	3345.0	5	7	1.7E+00
3832.90	7	7	3.0E-01	5205.73	7	7	1.6E-01	3345.6	5	5	4.0E-01
3878.29	7	5	2.9E-02	5289.82	7	5	6.7E-03	3345.9	5	3	4.5E-02
3930.66	5	5	2.1E-02	5320.78	9	7	3.9E-03	6362.3	3	5	4.74E-01
3950.36	3	5	2.80E-01	5473.39	3	5	4.3E-02	11054	3	1	2.43E-01
3951.59	5	3	1.5E-02	5480.73	1	3	7.62E-02	<i>Zn II</i>			
3982.60	5	5	2.7E-01	5497.41	5	5	1.2E-01	2025.5	2	4	3.3E+00
4124.91	5	7	1.8E-02	5509.90	5	5	4.24E-02	2064.2	2	4	4.6E+00
4177.54	5	5	5.27E-01	5544.61	3	1	1.8E-01	2099.9	4	6	5.6E+00
4199.27	3	5	5.36E-03	5546.01	5	3	5.8E-02	2102.2	4	4	9.3E-01
4204.69	1	3	2.20E-02	5728.89	5	5	3.0E-02	4911.6	4	6	1.6E+00
4235.73	5	5	2.3E-02	6613.74	5	7	1.7E-02				
4309.62	7	5	1.29E-01	6832.48	5	5	3.3E-03				
4358.73	3	3	5.55E-02	7264.16	5	3	1.3E-02				