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Spectrophotometry of speckle binary stars

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Abstract. Spectrophotometric observations of 20 speckle interferometric binary stars in the wavelength range 3640–8340 Å with a resolution of 18 Å are presented in the form of the measured flux corrected for atmospheric extinction in the units of erg/cm^2 · s·Å, with no corrections for interstellar reddening. B,V, and R magnitudes, $B-V$ colour indices and entire spectral types are also presented and compared with those of Hipparcos and Tycho catalogues and SIMBAD.

Key words: stars: spectrophotometry: spectral energy distribution - stars: binaries: speckle binary stars

1. Introduction

The study of binary and multiple systems by means of speckle interferometry made a valuable contribution to the understanding of formation and evolution of stellar systems, especially in the recent years with the aid of large telescopes and utilization of diffraction limited techniques. The direct results of speckle interferometric observations are separation angle, orientation angle, and magnitude difference for the subcomponents of each binary or multiple system (Balega el al., 2002). In its turn this leads to the determination of orbit and orbital period. Using other kinds of observations, like high resolution spectroscopy (Tokovinin, 1995) or wide range spectrophotometry (Al-Wardat et al., 2002; Al-Wardat, 2002), the number of deduced parameters can be raised, and wide understanding of such systems can be achieved.

In this paper, a wide range (3640–8340 Å), low resolution (18 Å, 6 Å/px) spectrophotometry of 20 speckle interferometric binary stars is presented. The objects of the study were taken from the speckle interferometric programme, which has been carried out at the 6 m telescope of the Special Astrophysical Observatory since the early 90s. The programme mainly includes late type dwarfs in the vicinity of the Sun, and their fundamental parameters are badly known. The presented data can be used as a reference for building theoretical spectral energy distribution curves on the basis of Kurucz blanketed models. This, along with the magnitude difference from speckle interferometric observations, can be used to build a spectral energy distribution for each of the components from which we can get their T_{eff}, lg g, and spectral types.

The stars are listed in Table 1 with different identifications: Hipparcos (Col. 1), HD (Col. 2), other identifications (Col. 3). The coordinates of the stars (Table 1, Col. 4, 5) were taken from SIMBAD astronomical database.

2. Observations and data analysis

Spectra were obtained using a low resolution grating (325/4° grooves/mm, 5.97 Å/px reciprocal dispersion) within the UAGS spectrograph at the Cassegrain focus of the Carl Zeiss Jena (Zeiss–1000) 1 m telescope of SAO during the photometrical nights, January 28 and February 4, 2002. The seeing was around 1.5″. The times of observations in terms of Julian Dates are listed in Table 1, Col.6. The stars AD Leo, Wolf424, and Hip78864, which exhibit variability, were observed at a specific time.

The spectrograph has an ISD015 A 530×580 px CCD detector. A 0.5 mm slit width was used to encompass all light from the star, and it was rotated (by changing the angle of the instrument's table) to a suitable direction to prevent the effect of nearby stars.

Two positional angles for the grating were used to cover the spectral range between 3640Å and 8340Å, 29° for the blue part and 30°40′ for the red part. This was done for two reasons: first, because of small dimensions of the detector which does not cover this spectral range, and, second, in order to overcome the falling sensitivity of the detector in the blue part of the spectrum by applying longer integration times in this part, and there were at least 500Å of overlap between the two regions (see Fig. 1), allowing us further checks on our internal agreement.

Standards from Massey et al. (1988), Oke (1990) and Hamuy et al. (1992, 1994) were used for the calibration of the system. The spectra were sky subtracted and wavelength calibrated. Then the spectral sensitivity curve of the CCD derived from the standard stars' spectra for each angle, was used for flux calibration of the object spectra. All steps were made using ESO-MIDAS [1]routines. The wavelength calibration was performed by means of He-Ne-Ar lamp emission spectra.

For each star, the spectra were averaged separately for angles of the grating. Then by averaging the resulting individual spectra in the overlap region, we obtained a single 4700 Å band spectrum.

As an example, four individual spectra of Hip12552 obtained on February 4th, 2002 are plotted together in Fig. 1. No adjustment has been made in their flux level. The coincidence reflects a good internal agreement of our results.

The standard deviation of B and V magnitudes, obtained for each star from the sample of the spectra, is typically better than $0\overset{m}{.}06$, and for the R band it is better than $0\overset{m}{.}07$. The error bars are the lowest in the central part of the spectrum where the blue and red spectra overlap.

To investigate the external agreement of our results, we used some of the standard stars. We observed these standards as objects, then we compared the results with the published spectral energy distributions of these standards. We observed the stars HR718 ($4\overset{m}{.}28$, B9III), HR5501 ($5\overset{m}{.}68$, B9.5V), and HR1544 ($4\overset{m}{.}36$, AIV), where Hilt600 ($10\overset{m}{.}44$, B1) from Massey et al. (1988), Feige66 ($10\overset{m}{.}50$, sdo) from Massey et al. (1988), and HD93521 ($7\overset{m}{.}04$, O9Vp) from Oke (1990) were used as standards in obtaining the spectra, respectively. Then we compared our results with those published by Hamuy et al. (1992, 1994) (Figs. 2, 3, and 4). The comparisons show a good agreement within the estimated error values from the internal agreement.

3. Results and discussion

Table 2 lists the measured flux of the stars, corrected for the atmospheric extinction, in units of erg/cm^2 · s· Å, where Hipparcos identification, if exists, was used for the stars, else other identifications were used. The data are plotted in Fig. 5. The low sensitivity of the detector in the blue part is noteworthy here, which is clear in the spectra.

BVR synthetic magnitudes were computed using the following integrals:

$$X = -2.5 \log \frac{\int S_x(\lambda) F_\lambda d\lambda}{\int S_x(\lambda) d\lambda} + ZP,$$

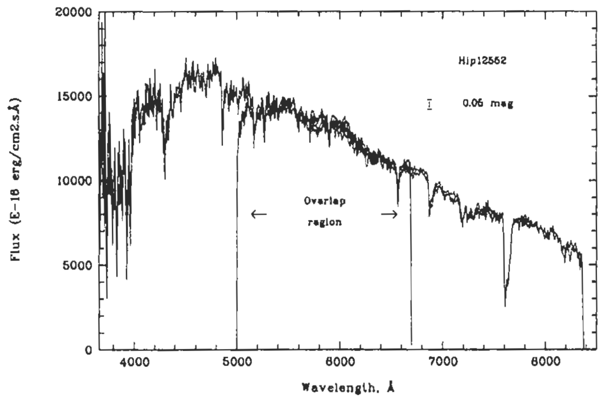

Figure 1: *Superposition of 4 different spectra of Hip12552 is shown as an evidence for the final agreement of spectra. The overlap region between blue and red spectra is shown also.*

where $S_x(\lambda)$ is the transmission function for the passband X. We adopted the filter functions B_{90}, V_{90} and R_{90} published by Bessel (1990). ZP is the zero point for the magnitude scale. For V band ZP was solved using the spectrophotometric calibration of Vega published by Hayes (1985) and the V magnitude of $0\overset{m}{.}03$ measured by Johnson et al. (1966). While for B and R bands it was solved using the Vega magnitudes published by Hamuy et al. (2001) as $B = 0\overset{m}{.}014$, and $R = 0\overset{m}{.}042$, since they are more reliable than those obtained by Johnson et al. (1966) (see Appendix B in Hamuy et al., 2001). The integrals were computed after interpolating $S_x(\lambda)$ to the wavelength spacing of F_λ^{Star} which is 6 Å. The results of these calculations are listed in Table 1, Col. 7, 8, 9, and 10.

Figs. 6, 7, and 8 show comparisons between the calculated B magnitudes, V magnitudes and $B - V$ colour indices with Johnson B, V, and $B - V$ of Hipparcos catalogue (fields H5 and H37). The Hipparcos magnitudes were taken either from the ground based observations or calculated from B_T and V_T of Tycho using different relations for different kinds or luminosity classes of the stars (for more information see Hipparcos and Tycho catalogues sec. 1.3 (ESA, 1997)).

The entire spectral types of the binaries were estimated by comparing $B - V$ with the intrinsic colours of FitzGerald (1970) neglecting interstellar reddening since all of the stars are nearby stars and their interstellar reddening lies within the error values of $B - V$ (see Al-Wardat, 2002). Results are listed in Table 1, Col. 11, along with those from SIMBAD (Col. 12) for comparison sake, where they show a good agreement (within the error values of $B-V$) for 15 stars, while the other 5 stars: (Hip1055, Hip51945, Hip64838, Hip70973, and Hip78864) show differences between the estimated spectral types in this work and those given by SIMBAD.

[1] Munich Image Data Analysis System, developed, maintained and distributed by the European Southern Observatory.

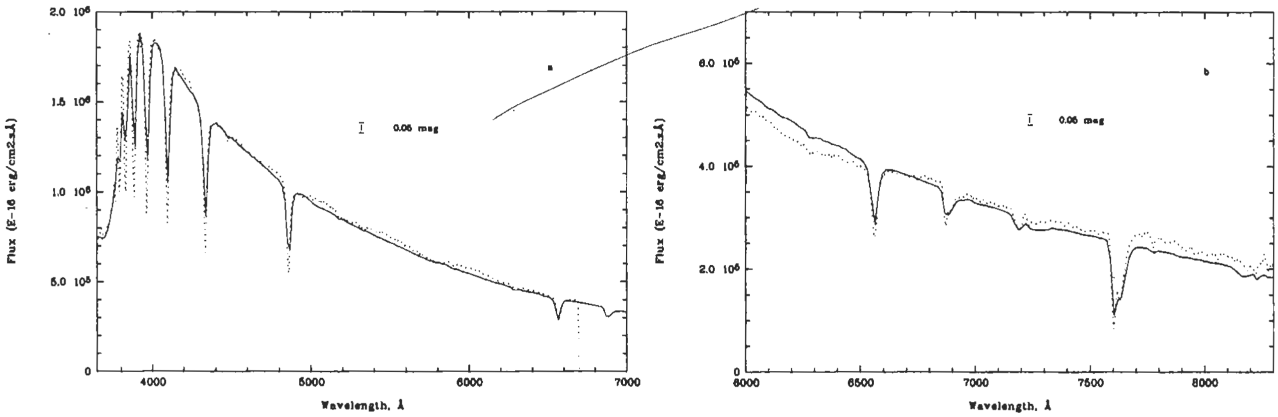

Figure 2: *Blue part (a) and red part (b) comparisons between the obtained spectral energy distribution of HR718 ($4^{m}.28$, B9III) (dotted line) and that published by Hamuy et al. (1992, 1994) (solid line). Hilt600 ($10^{m}.44$, B1) from Massey et al. (1988) was used as a standard in obtaining the spectrum.*

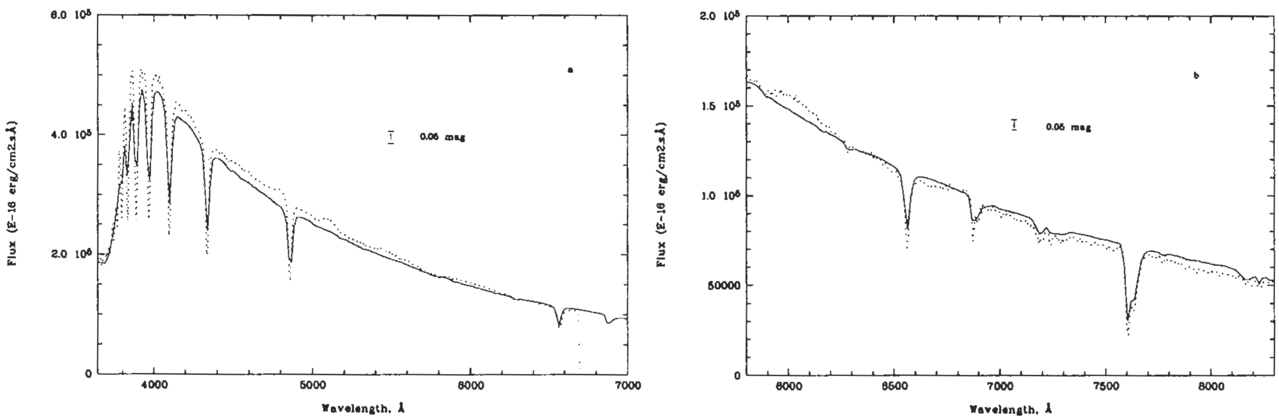

Figure 3: *Blue part (a) and red part (b) comparisons between the obtained spectral energy distribution of HR5501 ($5^{m}.68$, B9.5V) (dotted line) and that published by Hamuy et al. (1992, 1994) (solid line). Feige66 ($10^{m}.50$, sdo) from Massey et al. (1988) was used as a standard in obtaining the spectrum.*

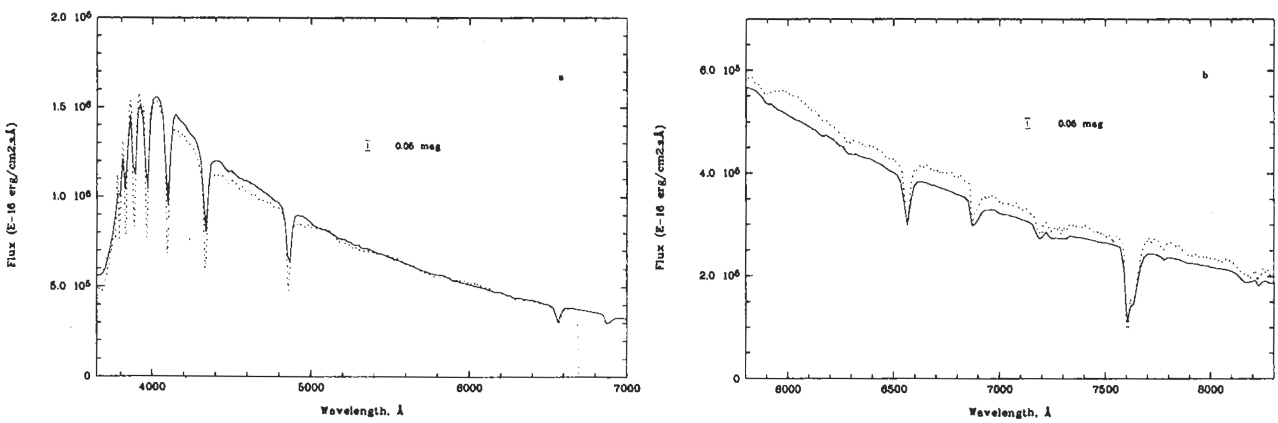

Figure 4: *Blue part (a) and red part (b) comparisons between the obtained spectral energy distribution of HR1544 ($4^{m}.36$, AIV) (dotted line) and that published by Hamuy et al. (1992, 1994) (solid line). HD93521 ($7^{m}.04$, O9Vp) from Oke (1990) was used as a standard in obtaining the spectrum.*

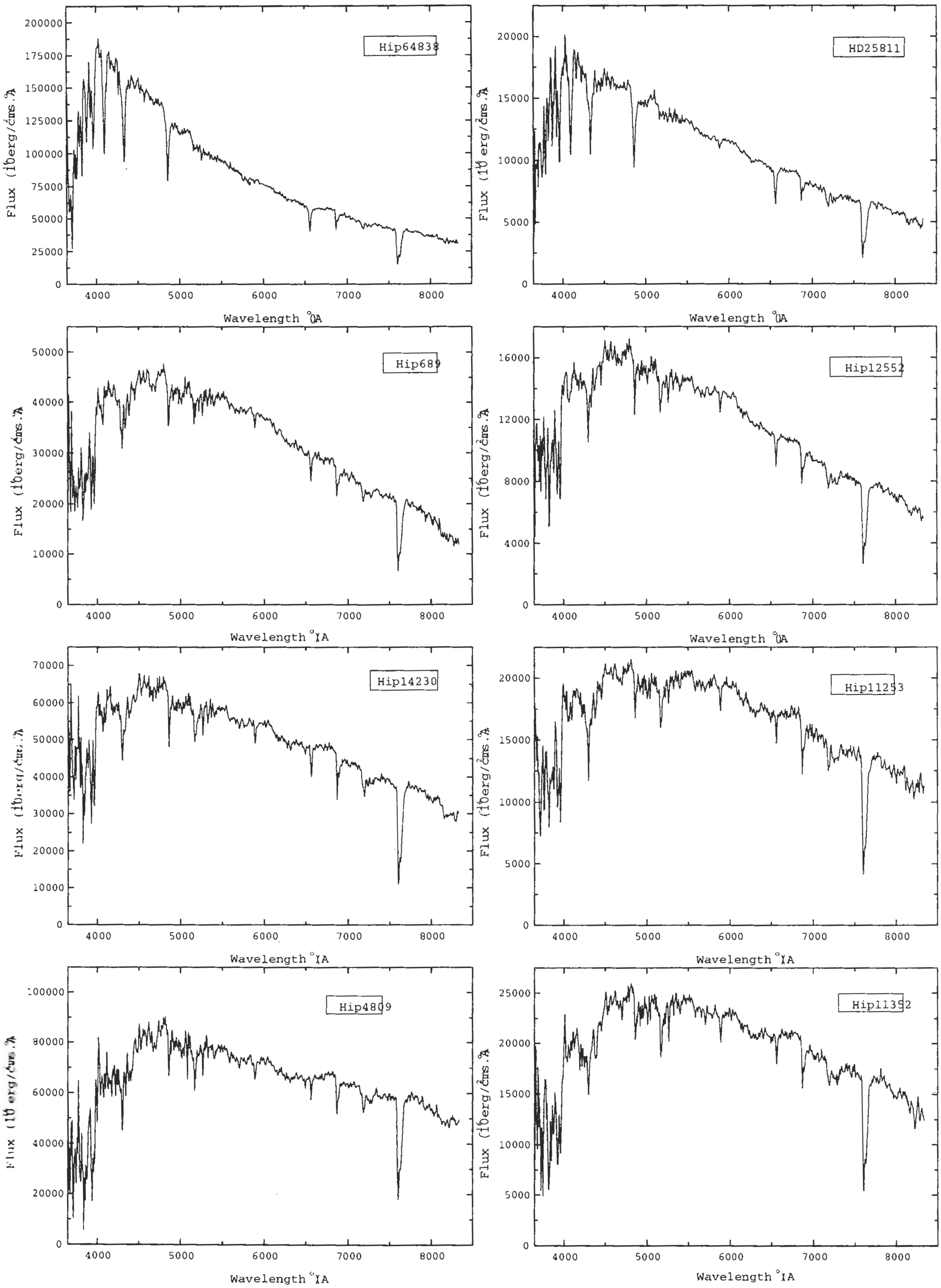

Figure 5: *Spectral energy distributions of the stars labeled with the star names.*

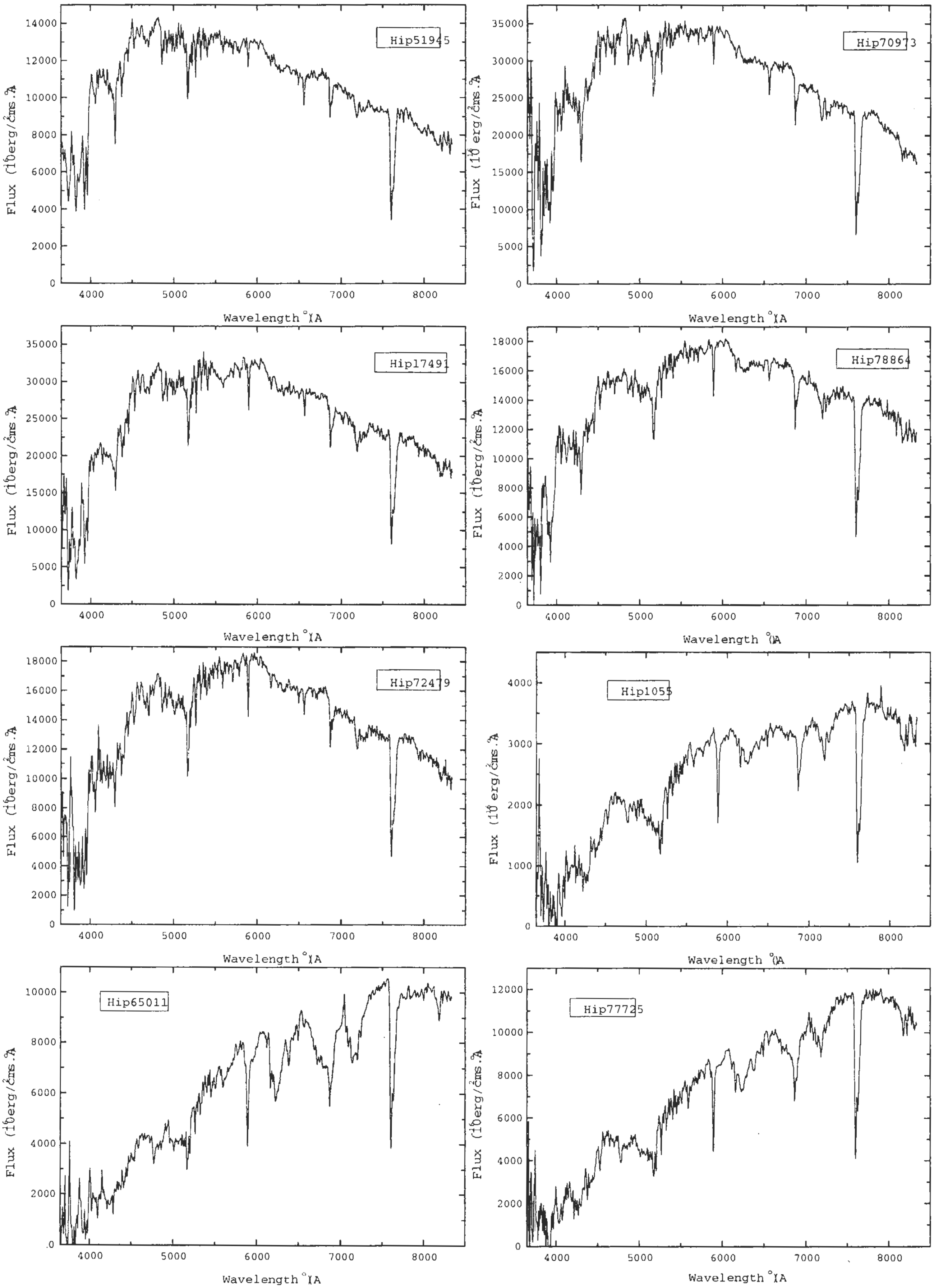

Figure 5: *(Continued).*

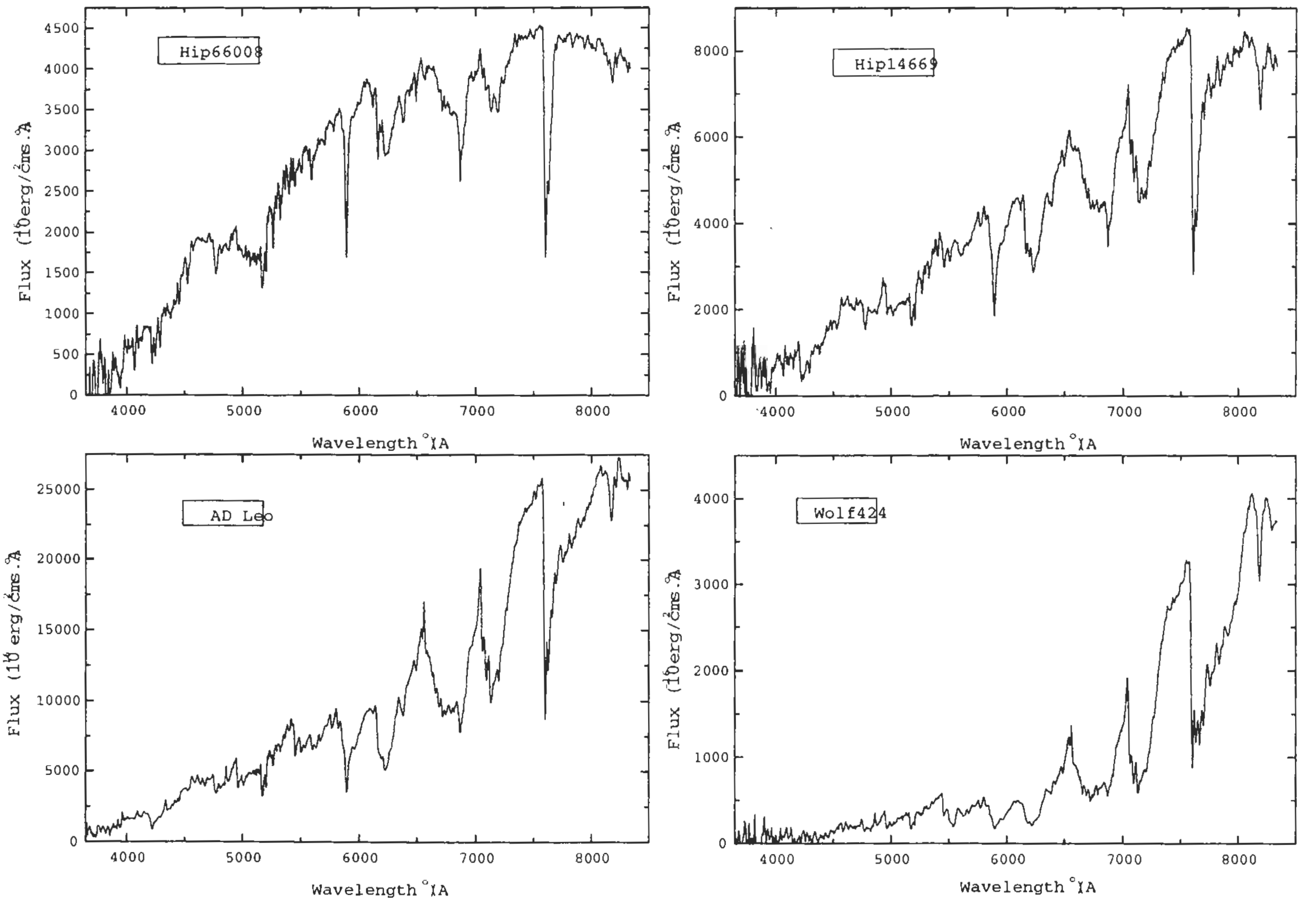

Figure 5: *(Continued).*

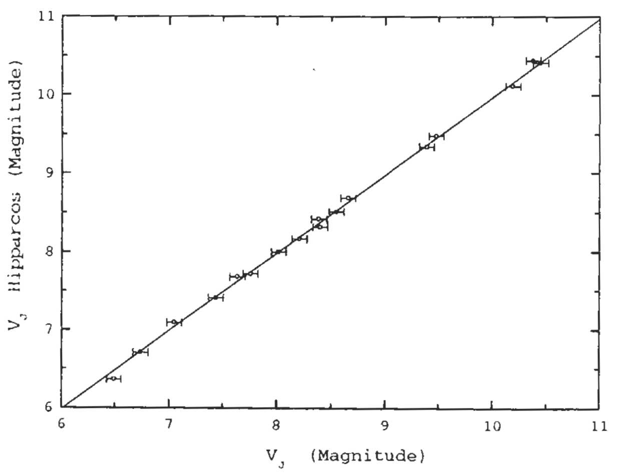

Figure 6: *Comparison between the calculated V_J magnitudes and V_J magnitudes of Hipparcos and Tycho catalogues.*

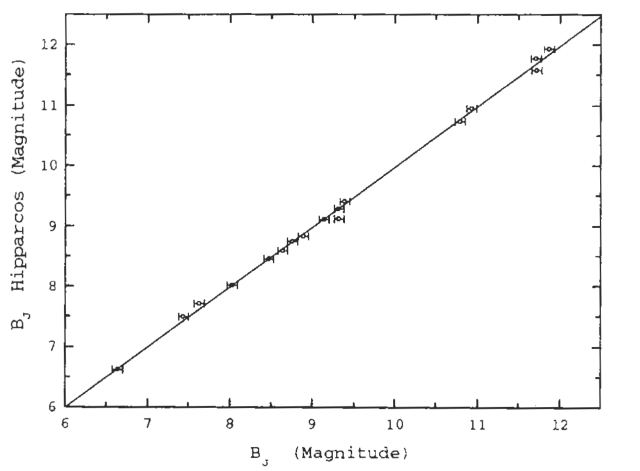

Figure 7: *Comparison between the calculated B_J magnitudes and B_J magnitudes of Hipparcos and Tycho catalogues.*

4. Conclusions

Composite spectral energy distributions of 20 speckle binary stars were measured, from which 17 are G, K, and M dwarfs. The knowledge of the fundamental parameters of these late-type binaries is important for the improvement of mass-luminosity relation at the bottom of the main sequence.

The BVR magnitudes and the $B-V$ colour indices have been calculated, and the entire spectral

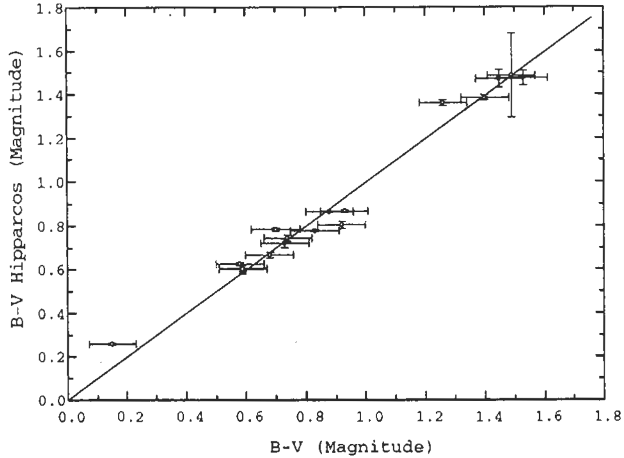

Figure 8: *Comparison between the calculated $(B\text{-}V)_J$ and $(B\text{-}V)_J$ of Hipparcos and Tycho catalogues.*

types of the pairs have been estimated.

A good agreement has been found between the calculated colour magnitudes and colour indices and those of Hipparcos and Tycho catalogues. Also a comparison of the estimated spectral types with those given by SIMBAD shows a good agreement for 15 stars within the error values of $B - V$. Here it is noteworthy that previous papers concerning the quadruple system ADS11061 (Tokovinin, 1995, Al-Wardat, 2002) showed a big difference between the estimated entire spectral types and those given by SIMBAD.

References

Al-Wardat M.A., Balega Yu.Yu., Weigelt G., Vlasyuk V.V., Leushin V.V., Pluzhnik E.A., 2002, (in preparation)

Al-Wardat M.A., 2002,Bull. Spec. Astrophys. Obs., **53**, 51

Balega I.I., Balega Yu.Yu., Hofmann K. H., Maksimov A. F., Pluzhnik E. A., Schertl D., Shkhagosheva Z.U., Weigelt G., 2002, Astron. Astrophys., **385**, 87

Bessel M.S., 1990, Publ. Astr. Soc. Pacific, **102**, 1181

ESA, 1997, The Hipparcos and Tycho Catalogues, European Space Agency, **1**, 57

FitzGerald M., 1970, Astron. Astrophys., **4**, 234

Hamuy M., Suntzeff N.B., Heathcote S.R., Walker A.R., Gigoux P., Pillips M.M., 1992, Publ. Astr. Soc. Pacific, **104**, 533

Hamuy M., Suntzeff N.B., Heathcote S.R., Walker A.R., Gigoux P., Pillips M.M., 1994, Publ. Astr. Soc. Pacific, **106**, 566

Hamuy M., Philip A. P., Maza J., et al., 2001, Astrophys. J., **558**, 615

Hayes D.S., 1985, in: Calibration of Fundamental Stellar Quantities, IAU Symp. 111, eds.: D.S. Hayes, L.E. Pasinetti, and A.G. Davis Philip (Dordrecht: Reidel), 225

Massey P., Strobel K., Barnes J.V., Anderson E., 1988, Astrophys. J., **328**, 315

Oke J.B., 1990, Astron. J., **99**, 1621

Tokovinin A.A., 1995, Pis'ma Astron. Zh., **21**, 250

Table 1: List of the stars with B_J, V_J, R_C, $(B-V)_J$, and spectral type results of this work.

Star Name											
Hip (1)	HD (2)	Other Identifications (3)	α_{2000} $(h)(m)(s)$ (4)	δ_{2000} (°) (′) (″) (5)	Times of Obs. JD 2452300+ (6)	B_J *mag* ±0.06* (7)	V_J *mag* ±0.06* (8)	R_C *mag* ±0.07* (9)	$(B-V)_J$ ±0.08* (10)	Sp. Type This Work (11)	Sp. Type SIMBAD (12)
689	375		00 08 28.47	+34 56 04.37	10.171, 10.201	8.02	7.42	7.17	0.6	G0	F8
1055	-		00 13 09.17	+20 22 56.75	10.181, 10.207	11.70	10.42	9.64	1.28	K7	M0
4809	6009		01 01 43.58	+25 17 31.98	3.195, 10.190, 10.212	7.43	6.73	6.32	0.70	G6	G8IV
11253	14874		02 24 51.15	+30 38 48.28	3.208, 10.275, 10.279	8.88	8.20	7.80	0.68	G5	G0V
11352	15013		02 26 09.59	+34 28 10.03	3.213, 10.279, 10.301	8.75	8.00	7.60	0.75	G8	G5
12552	16656	COU 1511	02 41 28.88	+40 52 50.83	3.250, 10.283, 10.305	9.13	8.54	8.26	0.59	G0	G0
14230	18490		03 03 28.66	+23 03 41.33	10.285, 10.309	7.62	7.04	6.68	0.58	F9	G0
14669	-	GJ 125	03 09 30.79	+45 43 57.87	10.313, 10.348	11.71	10.16	9.13	1.54	M4	M2
17491	23140	GJ 150.2	03 44 48.83	+46 02 09.04	10.319, 10.358	8.63	7.74	7.31	0.88	K1	K2
-	25811	CHA 13	04 06 16.41	+19 52 28.58	10.322, 10.366	9.03	8.63	8.44	0.4	F3	F0
-	-	AD Leo	10 19 36.27	+19 52 11.9	10.422	10.87	9.34	8.20	1.53	M4.5	M4.5V
51945	91877	BAG 3	10 36 43.07	+11 01 18.96	10.433, 10.430	9.38	8.64	8.24	0.74	G8	K0
-	-	Wolf424	12 33 17	+09 01 20	10.495	14.25	12.50	10.96	1.74	M7	M5Ve
64838	115488	FIN 350	13 17 29.85	- 00 40 33.83	10.524, 10.591	6.63	6.47	6.39	0.15	A5	F0V
65011	-	GL 507A	13 19 33.59	+35 06 36.56	10.508, 10.577	10.92	9.46	8.61	1.47	M0	M0
66008	-	WOR 24	13 31 58.25	+31 08 04.56	10.515, 10.583	11.86	10.36	9.47	1.51	M4	M0V
70973	-	RST 4529	14 31 00.62	- 05 48 08.47	10.597, 10.633	8.46	7.62	7.21	0.84	K0	G5
72479	-	ADS 9397	14 49 20	+10 14 00	10.607, 10.637	9.31	8.37	7.88	0.95	K3	K2V
77725	-	GL 600	15 52 08.24	+10 52 28.11	10.613, 10.644	10.78	9.37	8.46	1.41	M0.5	M2
78864	144515	NQ Ser	16 05 53.41	+10 41 06.01	10.618	9.31	8.38	7.86	0.92	K2	G8IV

* The error values for most of the stars are better than these values.

Table 2: Flux (E-16 erg/cm^2.s.Å)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
3642	17002	-948	-4319	8139	9183	8233	47456	345	9343	5496	656	5387	-50	28798	-645	18	11260	2544	-789	38
3648	18134	76	46284	12041	11538	10844	34005	438	5422	1214	534	6302	9	111918	-1686	-387	16556	5737	-429	2763
3654	21327	561	60591	18043	7250	6936	32039	178	14781	4421	310	7282	-95	144880	-604	-12	27682	8026	-304	8326
3660	41589	882	20712	17353	15767	4423	53166	-31	7636	4135	1345	7618	62	125417	-78	-8	28431	7299	2330	9916
3666	38443	792	38639	15617	19730	10039	47863	-651	11108	12347	433	7393	-56	83113	663	-143	22884	9126	5848	6485
3672	28428	782	31042	13358	12021	10686	36074	1151	13341	4817	830	7181	-62	70752	863	-236	24157	6679	4011	6497
3678	21943	1836	20313	14712	12667	11607	51744	897	17504	9664	925	6605	115	55517	1469	44	19534	4642	102	7380
3684	18389	2757	41615	15285	9561	11768	65068	806	16687	9589	1107	6638	155	55672	792	341	23528	6759	-246	9482
3690	26046	1713	48141	12752	17649	10568	54803	-286	12197	9285	865	6840	81	60378	406	-80	30126	7539	2523	8957
3696	38232	1460	34980	12183	16335	9298	47683	-396	12046	9933	588	7199	3	68608	818	-422	28598	7156	3466	5596
3702	30729	826	48919	12430	11741	10340	40902	1019	14519	9782	478	6787	11	60803	1981	-422	19662	7477	3417	1699
3708	21118	166	15845	9396	14591	10342	40256	1131	16951	7859	625	6424	-56	39589	2718	134	7903	7383	969	3665
3714	22267	617	10455	7839	12081	8025	36043	648	14394	11329	306	6235	-31	27453	443	435	4910	6177	527	6329
3720	25491	978	20937	7213	11473	8652	33811	287	8908	10985	521	5600	68	54305	323	426	1720	6961	181	3164
3726	23780	691	34162	8912	5445	10940	41027	1287	2201	11480	480	5102	78	79352	266	300	2552	3614	587	77
3732	18528	362	35268	10848	8543	7346	48335	129	1865	10866	274	4456	259	89721	-10	143	9839	1245	1123	2619
3738	19434	73	37817	12348	11649	9440	47282	55	3466	11355	328	4418	246	103108	-340	-392	16093	2540	2899	5930
3744	22828	210	31468	13737	8850	10740	39282	656	8706	9993	439	4736	162	97797	-11	-467	18935	3795	2367	3385
3750	23495	731	24145	14589	4935	10732	48016	504	7774	8596	1030	5323	-39	80806	1300	-171	18668	6998	4521	3765
3756	21410	700	37753	13158	10562	9656	47654	-511	5638	8671	1141	5501	-189	99541	3278	218	16493	8701	2831	5093
3762	20996	850	42195	9337	14036	11389	47473	-626	5966	9231	1111	6040	-91	94550	4087	525	21839	11474	1212	4647
3768	19280	1224	36099	9365	14956	12180	47697	101	8860	9901	1060	7311	196	80530	2293	530	19748	9920	1212	5869
3774	23584	897	64987	12216	16486	10728	61844	-71	12591	13758	773	8177	235	84720	1295	687	13369	8746	997	4050
3780	27198	288	53131	14055	16076	8697	46558	-222	13085	14411	620	7823	-27	109034	701	389	11274	9182	1135	4220
3786	22987	409	43121	12762	16443	8160	50700	-248	9978	11674	766	6733	1	128813	792	525	18761	6736	290	4693
3792	23425	684	28170	14127	12545	6850	38694	164	7505	9213	1052	6364	62	132588	590	252	24331	6685	1686	4246
3798	23457	687	26134	13069	14105	8827	36991	1180	8312	8905	1073	6830	63	110303	19	149	19760	6693	779	4679
3804	26664	-124	24797	11633	11409	8953	50566	1232	8885	11776	1047	6919	-22	105631	-792	296	11169	2153	1154	3018
3810	31067	60	29150	10674	9173	9323	37783	1575	8455	14993	904	6059	-48	118615	-148	458	4910	936	1907	758
3816	29667	310	43824	10815	5611	11465	43543	719	5729	14988	734	4935	137	128592	701	365	3749	1632	1296	2167
3822	24657	569	33597	7935	5565	8810	38483	702	3700	14479	551	4199	340	122552	464	29	7277	5447	2025	7531
3828	16756	253	29287	8997	6760	5099	22060	241	3372	11589	740	3900	83	91325	-325	-498	5273	3217	1959	8136
3834	17507	82	28204	11965	8544	5170	35254	108	4201	12261	915	4249	-124	82842	14	-552	9167	4586	1452	6677
3840	19583	271	5645	11424	12335	7226	35348	230	5856	14166	1063	5374	-176	102346	764	162	15565	4609	711	8334
3846	23863	143	22533	11703	9623	9377	29495	114	5584	14744	1028	5883	-172	139188	1071	305	9816	4060	1527	8095
3852	25853	515	26405	11629	8340	9389	35000	598	5825	15900	774	5655	-120	154615	1158	-39	9116	3062	1932	7333
3858	22260	166	17350	12425	11883	9258	41105	756	8354	18322	401	5581	-115	157061	658	29	13444	4969	663	8045
3864	22497	495	31301	11805	13886	10508	40197	875	8760	18059	687	5445	-34	153973	954	47	16504	5658	540	8706
3870	26037	449	29743	12823	12613	10267	46075	637	7809	14752	894	5647	-67	149290	1596	129	15531	3351	1666	8852
3876	26156	254	25580	11710	11049	10696	47826	170	8018	11148	959	5855	-87	141151	2374	366	10224	3153	484	7385
3882	24601	-54	25751	11047	11698	9343	45771	265	9720	12040	1077	6050	90	118822	2635	531	14710	2685	-756	7523
3888	24993	235	34047	12271	12624	8549	42342	641	15082	14743	1291	6635	110	108869	1822	458	16798	2846	1299	6611
3894	25880	117	44734	14943	15142	11318	45829	869	16268	14421	997	6866	95	120056	1734	300	12772	2990	1160	4801
3900	27664	-620	46909	16485	14545	12624	49951	447	13539	14569	1007	7335	283	136494	1706	359	9914	4612	579	5704
3906	32032	-329	50772	15939	13486	11204	46651	432	13767	16556	1119	7943	312	140091	1169	467	9857	6031	115	4950
3912	34108	539	51523	14759	12218	10266	42526	839	14112	18305	1076	7603	138	149467	692	369	11032	4147	-26	4678
3918	31354	654	53991	12202	9860	9591	39459	500	11378	19228	877	6241	6	170442	459	302	10862	3615	-1192	5666
3924	23892	881	41586	9584	8073	7561	29944	110	7325	15267	1376	4730	45	163999	481	242	8158	2438	-1097	3879
3930	18768	841	28558	9822	8011	7175	27394	113	5438	11898	1561	3969	148	133902	452	275	8762	2759	62	2922
3936	20692	576	24228	10681	9869	8263	34465	250	8145	14328	1098	4629	168	127816	626	140	13360	4645	-172	4595
3942	25458	370	17163	11852	12785	9950	44418	355	10352	15613	982	6243	91	144625	1373	122	17935	6588	702	5426
3948	29394	343	33960	12748	12940	10602	49720	282	11059	14393	1160	7336	38	148219	923	81	15343	6244	1534	5976
3954	29196	346	33821	10740	10173	9116	42937	67	11612	12988	1039	6760	63	140446	212	263	12685	3364	771	5669
3960	24022	199	28820	8363	9134	6945	32722	218	9860	9850	1380	5257	90	122707	499	303	12402	3569	1657	6112
3966	19934	165	36546	9731	10273	6860	32135	655	8465	9948	2116	4739	185	103749	826	272	14012	5929	1428	6549
3972	24805	379	32085	12965	13048	9406	40016	660	12139	13551	1752	6568	65	109479	952	390	15034	7952	816	7200
3978	31199	682	50417	15042	15859	12428	48742	558	16847	14943	1536	8615	-13	119034	453	548	19301	10420	1639	7600
3984	35223	814	65187	17455	16423	13917	55612	601	19332	16242	1469	9454	77	136348	604	740	24562	10562	1810	7911
3990	38964	830	63009	19283	16552	14260	59011	724	19174	16921	1677	10028	10	153083	1293	645	25750	8968	1926	9316
3996	39061	511	59492	19575	17974	14143	58455	659	17844	17198	1678	10435	-18	164597	1950	596	23905	9306	2443	10875
4002	37614	455	48347	18809	19416	13579	59295	774	18834	17591	1567	10563	35	173252	2630	552	24829	10471	2826	10816
4008	40095	913	58676	18108	21430	13681	62950	846	20098	16826	1746	10868	55	180044	3022	509	23920	11402	2111	11114
4014	42908	1246	82089	18637	22928	14559	62597	1002	19709	17345	1701	11241	27	181263	2693	687	20517	11548	1661	11565
4020	41129	1174	79910	18141	21018	14644	56441	956	19574	18240	1618	11254	-48	180730	2221	653	21795	10702	1823	10361
4026	39814	1074	74507	17466	18626	14893	56820	799	19052	17919	1622	10802	1	183547	1348	563	23405	9882	1284	10828
4032	38765	948	66158	18984	18496	15105	59723	852	18051	20121	1628	10550	41	188146	1322	587	22883	9578	1092	12267
4038	39302	734	59112	18916	18658	15046	58014	946	17751	19424	1672	10412	105	182500	1723	581	23751	9050	1143	12124
4044	38798	764	59740	17064	18145	15056	56295	734	18487	17287	1686	10172	174	173392	2044	605	24316	9334	1081	12169

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
4050	39599	904	63925	16477	19055	14105	57877	718	20284	18535	1693	10252	53	176331	1974	707	23050	9751	1391	11369
4056	37998	786	66672	16826	19934	13373	57381	750	20410	17750	1633	10030	44	173830	1889	672	20533	9119	1540	9638
4062	36751	827	65677	16983	19338	13329	53908	496	20171	16452	1602	9667	90	175763	1795	459	20812	7689	1989	9667
4068	36247	966	62876	16557	18986	13162	52249	474	19652	16393	1627	9782	78	179425	1850	306	22062	8102	1787	10596
4074	35615	963	59096	17040	18571	13098	53228	871	19720	16727	1644	10357	64	166695	1674	354	24366	9723	1280	11511
4080	39107	1008	58073	18091	19862	13458	58643	1183	20570	15698	1752	11165	88	152268	1821	609	26062	10457	1199	12036
4086	42516	1005	67390	18058	20246	13859	58716	992	20946	13521	1922	11465	133	142197	1876	842	24396	9876	1580	11570
4092	43184	1026	67715	17162	19364	13779	54579	788	20075	10914	2115	10912	177	123427	1419	858	23022	10919	2130	10994
4098	41676	959	61637	16631	19301	13830	54963	745	20732	10482	2157	10456	183	102658	1119	650	26284	13654	2348	11127
4104	40793	996	63295	17487	20084	14390	56429	931	20779	11848	1932	10849	101	99789	1034	569	29289	13039	2017	11067
4110	42297	980	69664	18537	21120	14989	59592	795	20976	13411	1775	11472	56	119333	1755	668	27559	11364	2269	10556
4116	42357	1010	76138	19020	21222	14895	63576	710	21764	14832	1805	11548	69	141986	1950	696	26240	10739	2754	10092
4122	41309	1338	71060	18725	20136	14703	60698	916	21685	15626	1807	11265	75	153048	1818	711	24709	9798	2231	9705
4128	41733	1114	61531	18612	19510	15574	61102	1004	21637	16700	1734	11066	109	147786	1978	651	24656	9916	2181	9933
4134	43474	705	61608	19037	20112	15700	61592	870	21018	18456	1757	11070	186	159374	1854	666	26968	10569	2952	10254
4140	44342	843	65846	18726	20704	15116	61648	925	19667	18954	1872	11110	133	175154	1765	768	25784	10119	2818	10593
4146	43329	982	65585	18413	20560	14591	62400	867	18807	18900	2052	11070	1	176156	2292	803	24162	9692	2251	11413
4152	42004	910	63542	19169	20968	14970	64428	625	19490	18659	2147	11163	-40	175299	2950	852	25365	10434	2336	11585
4158	42663	826	63522	19172	21531	14802	64435	787	21036	17726	2090	11540	30	177939	2635	807	25636	11169	2768	11147
4164	42227	881	64914	19031	21199	14265	59204	1083	20881	16579	2012	11477	60	175380	2044	834	24571	11088	3015	10714
4170	41092	1093	61976	18993	20376	14231	57954	914	20131	16705	1952	11063	12	166033	2062	843	24054	10508	2900	10573
4176	41539	1177	58500	18481	19816	14633	59686	920	20162	18059	1990	10790	-27	164732	2160	828	24030	10174	2625	10782
4182	41306	974	66957	18473	19703	14505	58710	1033	19783	18649	2008	10826	-20	170464	1995	842	23820	10147	2309	10646
4188	41229	833	69349	18273	18472	13872	56594	1039	19854	18730	1928	10889	45	171345	1895	840	23664	9857	2171	10609
4194	42112	902	66740	17889	17377	14281	58191	1278	20525	18286	1807	10625	38	168301	1781	810	23528	9940	2071	10857
4200	43475	1019	69707	18875	18810	14656	59144	1262	20147	17825	1684	10926	59	169181	1797	776	24796	11269	2369	11492
4206	43389	1041	71046	18664	19980	15016	57772	949	19783	17543	1600	11501	96	166294	1743	843	25740	11646	2618	11977
4212	42776	916	67352	17801	19527	15058	57260	693	19982	17586	1289	11364	35	163431	1426	621	24498	10172	1840	10759
4218	42375	681	59872	16882	17821	14360	58715	437	19836	17564	940	10593	-9	166743	1441	414	23146	9320	1272	9574
4224	40581	573	58924	17177	18887	13979	59310	338	19632	16400	864	10161	31	165022	1770	386	23484	9692	1695	9848
4230	40374	743	66862	17913	19557	14306	59666	493	20063	16302	1083	10373	112	161946	1736	593	25187	10618	2241	11041
4236	40548	891	69532	17091	18873	14508	59600	477	20256	17651	1304	10774	128	168227	1607	708	25001	11134	2112	11869
4242	39602	886	63563	17257	18088	14200	57876	392	19983	17558	1431	10759	149	172761	1566	543	24044	10600	1728	11119
4248	39344	855	62965	17900	17661	14498	57760	525	19548	16932	1420	10336	132	172802	1582	479	23516	9964	1708	9586
4254	40356	741	69216	17422	18760	14569	60296	561	19228	17064	1392	10340	74	171083	1612	578	22574	10435	2132	9477
4260	40440	706	68555	16780	18420	14290	59014	609	19228	16940	1537	10491	27	170042	1751	726	21535	10291	2150	10241
4266	40131	838	63356	16325	18090	14128	55468	791	18739	16635	1632	9989	95	151819	1865	843	22830	10188	1485	10509
4272	40599	864	62065	16031	18664	14041	56207	824	18135	16840	1677	9938	127	145384	1886	954	24677	11097	1434	10820
4278	37695	758	59985	15660	18797	13968	56568	809	18408	17016	1706	10196	105	160707	1947	845	24274	10614	2018	10666
4284	34449	739	60458	15980	18054	13569	54417	689	18426	16894	1792	9941	91	163136	1291	663	21679	10053	2228	9872
4290	35055	892	61638	15513	16372	12937	48971	534	17966	16303	1766	9156	20	153046	1207	590	18366	9196	1952	8745
4296	33442	904	50870	12711	15387	11601	45015	601	16745	15235	1737	8046	50	149269	1870	729	16369	8063	1899	7544
4302	30911	933	45320	11702	14946	10520	44471	823	15381	14737	1810	7501	95	145993	2185	975	17011	8913	1870	8077
4308	32796	1038	48449	14343	16798	11343	48925	995	16809	14830	1914	8830	45	143358	2200	992	20946	10546	2054	9859
4314	36823	1307	61456	16333	18273	12932	52686	1040	19533	14500	2089	10622	-8	139826	2150	966	23097	10625	2330	10471
4320	39667	1474	68209	16136	18305	13358	51485	1012	19906	14142	2174	10836	15	131510	2088	1061	23164	11295	2672	10903
4326	38905	1316	67773	16732	19156	13633	52175	967	21874	13836	2299	11085	57	118639	2191	1083	24043	12449	2719	11669
4332	35766	1232	67127	16363	19176	13475	52391	1054	23687	11717	2682	11043	90	104173	2454	1034	24185	11683	2740	11898
4338	34900	1272	62072	16203	19389	12798	53202	1172	22541	10463	2972	10889	124	93705	2502	966	24941	11286	2633	11546
4344	35559	1272	58931	17275	19851	13506	56251	1196	22598	12127	2615	11269	143	97984	2251	1058	25725	11775	2691	11533
4350	37922	1383	64727	17606	20527	14139	57586	1155	23224	13313	2204	11571	118	115390	2170	1119	27558	12148	3316	12066
4356	40272	1413	74122	18328	21424	15048	59687	1113	24084	14027	2258	11893	63	133306	2462	1082	27736	12391	3646	12778
4362	41459	1438	75675	18836	21410	15341	61548	1100	24062	15024	2334	11956	43	141916	2381	1013	26662	12177	3555	12609
4368	41765	1296	69549	18341	20530	14332	60348	1194	22473	15409	2330	11465	20	149818	2334	1016	25706	11364	3076	11995
4374	40144	1125	66661	17547	19033	13889	57266	1145	21243	15294	2293	10628	13	151195	2307	999	24605	10156	2387	11131
4380	38097	1196	64618	16764	18520	14095	55847	971	19779	15336	2327	10045	58	148917	2163	935	24858	10614	2181	11252
4386	37408	1308	66564	17146	18838	13938	57643	1026	20615	16768	2532	10591	73	152312	2369	1002	26303	11658	2713	12470
4392	38891	1290	68874	17552	18722	14551	57981	1196	22528	17282	2638	11286	101	156076	2958	1062	26680	11640	3403	11871
4398	40113	1259	66223	17837	18588	14778	57213	1239	21794	16635	2561	11119	65	152651	2751	1049	25883	11507	3107	11844
4404	41376	1326	64704	18810	20108	14640	57800	1195	21363	16337	2538	11240	62	149608	2548	1106	26258	11356	2742	12272
4410	43273	1396	67720	19749	21186	15216	58850	1182	23053	15762	2760	11872	92	150322	2245	1170	27030	11810	2942	12288
4416	44209	1333	69404	19580	21758	15376	60510	1289	24638	15509	2930	12376	54	151477	2373	1115	26718	13030	2982	12653
4422	43172	1337	68647	19172	22084	15447	61006	1335	24985	16026	2828	12413	47	157799	2495	1110	26937	13539	3151	12367
4428	42430	1444	71760	18953	21814	15504	61655	1352	24733	16271	2760	12352	110	159984	2488	1133	28497	13334	3019	12572
4434	42420	1520	74757	19419	21954	15469	62158	1473	24333	16480	2811	12405	129	156267	2824	1224	28682	13890	2996	12904
4440	42890	1634	78384	19545	22238	15523	61690	1634	25770	16075	3039	12654	102	157847	3074	1379	29773	14528	3328	13166
4446	42085	1524	80605	19174	21998	15760	60529	1589	26238	16317	3092	12583	83	153778	2918	1251	28498	13784	3097	12453
4452	40426	1412	80373	18498	21296	15036	60150	1492	24093	16259	2872	11972	93	155571	2702	1115	27586	12889	3136	11698

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
4458	41474	1519	81631	18275	21228	14246	60380	1530	22960	15570	2966	11932	60	151886	2850	1157	28442	13169	3205	12308
4464	43082	1615	77610	18692	22139	14878	61065	1549	25284	15915	3322	12635	73	149865	3183	1349	30029	14084	3291	13332
4470	43411	1645	76095	19845	22650	15726	60831	1695	28459	16672	3559	13185	111	149462	3496	1479	31665	14357	3678	14193
4476	43682	1698	77254	20325	22784	15718	62140	1753	28357	16336	3612	13266	143	151170	3365	1467	32056	14597	3780	14558
4482	44157	1742	77058	20069	23214	15677	64176	1684	27714	15926	3653	13190	162	151730	3265	1449	30356	14468	3935	14526
4488	44434	1829	75702	20191	23393	16135	63484	1525	28334	16182	3703	13187	137	152833	3277	1497	31947	14455	4485	14877
4494	45186	1904	78556	20640	23620	16387	65295	1661	28376	16765	3744	13443	136	155402	3393	1580	33170	15216	4386	14905
4500	46088	1918	85817	21106	24427	16686	67863	1747	29463	17063	3762	14019	155	155971	3641	1665	34066	15900	4536	15648
4506	46421	1935	87304	21168	25135	17127	67670	1706	30652	17432	3743	14237	113	156477	3592	1692	33588	15674	4487	15575
4512	46014	1911	84930	20675	25060	16878	66278	1709	29968	17121	3779	13941	119	157690	3450	1661	33197	15215	4668	14887
4518	45060	1774	80884	20320	24162	16477	65141	1739	30242	16873	3781	13394	147	149483	3366	1532	30514	13913	3969	13705
4524	43543	1676	77084	20341	23000	16176	62427	1626	28056	16544	3636	12657	165	149547	3341	1359	28109	13698	3667	13372
4530	43910	1742	77503	20307	22836	15849	61881	1541	26008	16035	3597	12665	168	145908	3457	1379	31338	13913	3539	14110
4536	44906	1823	80832	20504	23736	16277	63869	1637	27013	16416	3736	13166	197	150882	3333	1557	33251	14417	4105	14581
4542	44612	1884	81934	20441	23531	16507	63963	1662	28475	17149	3743	13231	187	152516	3304	1596	33080	14562	4307	14622
4548	44260	2000	82501	20354	23220	15854	64152	1767	30048	16490	3781	13173	161	149327	3740	1619	32790	14981	4381	14653
4554	45408	2073	85466	20292	24259	15793	64901	1836	30274	16745	4105	13558	227	147621	3946	1797	32661	16101	4831	15174
4560	46358	2087	83110	20489	24655	16076	66266	1992	30307	16616	4498	13789	222	149021	3989	1890	33106	16592	5367	15189
4566	45572	2152	82604	20764	24763	16376	67529	2244	31420	16505	4602	13773	231	147427	4187	1883	33462	16231	5281	15477
4572	44197	2151	85065	20873	24686	16854	65359	2283	31509	16159	4537	13667	232	147139	4144	1809	33144	16305	5046	15040
4578	43893	2073	83388	20625	23899	17074	65208	2116	30332	15755	4386	13439	190	143654	3903	1764	32347	15770	4821	15221
4584	44135	2007	83881	20308	23828	16660	64437	2072	29464	15891	4231	13416	133	139452	3825	1836	32343	15332	4666	15317
4590	44262	2003	81648	20122	24147	16075	63922	2093	29071	16649	4189	13360	161	142625	3847	1842	31140	15318	5153	14776
4596	44812	2015	78583	19900	23948	15891	63809	2164	28383	16798	4226	13263	170	147324	4105	1877	30540	15860	5140	14702
4602	46666	2075	81105	20374	24320	15969	65475	2101	28878	16734	4312	13484	198	146524	4313	1911	32375	16154	5118	15161
4608	46425	2201	83752	20856	24525	16035	65113	2224	30012	16582	4542	13800	253	149557	4310	1907	33696	16623	5394	15770
4614	45974	2147	86057	21074	24754	16241	64430	2231	30632	16545	4724	13877	223	147907	4233	1928	34677	16518	5227	16007
4620	46123	2212	88236	21153	25219	16763	67260	2326	30951	15954	4564	13890	217	147456	4318	1934	33536	16250	5166	15542
4626	45744	2209	86139	20867	24899	16685	61410	2317	30996	16154	4296	13833	196	146368	4351	1916	33108	16316	5423	15935
4632	43608	2109	83149	20634	24148	16277	63207	2148	30911	16091	4159	13569	165	146117	4399	1904	32213	15683	5202	15693
4638	43123	2018	80903	20300	23746	15796	64465	2084	30384	16208	4089	13269	178	145355	4313	1919	31828	15572	4883	15036
4644	43422	2062	79772	19921	24199	15485	61938	2070	29093	15662	4095	13111	205	143432	4157	1893	31726	15014	4683	14825
4650	43193	2147	82559	20036	24269	15745	62942	2137	28480	15837	4296	13292	217	140665	4132	1883	32610	15266	4918	15164
4656	43024	2120	84436	20163	23846	16267	63348	2108	28840	16154	4545	13313	208	142663	4355	1929	32162	15304	5258	15412
4662	42249	2095	80401	19849	23364	15921	61628	2012	28941	15977	4392	12915	190	143577	4402	1898	30914	14771	5112	15101
4668	43783	2134	76546	19730	23527	15621	60400	2047	28408	15887	4122	12917	177	140654	4200	1896	31481	14887	5028	15282
4674	43624	2130	76440	19814	23723	15986	63651	2038	29249	15849	3985	13076	174	141945	4163	1899	31916	15494	4914	15292
4680	43390	2054	77993	20086	24251	15954	64224	1980	29234	15957	3939	13093	196	141957	4217	1872	32536	15848	5011	15522
4686	43418	2096	80007	19985	24136	15851	63939	1995	29215	15810	4112	13169	204	141183	4313	1877	33612	15297	5049	15261
4692	43224	2019	78527	19681	23685	15744	63610	2152	29233	15863	4361	13036	168	136896	4251	1866	31634	14480	4864	15133
4698	42153	2008	77954	19630	22547	15600	62610	2277	28721	16120	4504	12730	184	137556	4329	1880	29444	14288	4650	14430
4704	42103	2052	78768	19392	22357	15471	61187	2139	28312	15916	4536	12756	202	139235	4328	1940	29484	14315	4781	14740
4710	43438	2069	77250	19742	23444	15718	62870	2085	28827	15888	4386	13159	193	137793	4324	1974	30934	15417	4921	15456
4716	44680	2069	81810	20750	24500	16411	63676	2103	30610	15902	4371	13617	209	139462	4292	1979	32911	16387	4953	15546
4722	44364	2091	82219	20983	24588	16382	66723	2196	30733	15975	4436	13556	211	142266	4043	1937	33590	16057	5189	15652
4728	44862	2052	82370	20330	24241	16376	63595	2178	29534	15869	4467	13302	190	141160	4054	1883	32829	15745	5133	15216
4734	45851	2070	87020	20429	24485	16115	62596	2214	29596	15864	4506	13404	211	137921	4218	1881	32762	15894	4917	15628
4740	46200	1948	88792	20824	24261	16399	63364	2148	31064	16356	4677	13829	250	137894	4280	1895	33655	16102	5197	15560
4746	45651	1920	84930	20810	24515	16526	67250	2096	31286	16215	4782	13811	279	141620	4285	1908	33706	16429	5185	15659
4752	45473	1902	84526	20433	24674	16125	64948	2147	31008	15894	4602	13592	263	141938	4035	1809	32944	16046	4854	15272
4758	45272	1771	84221	20378	24067	15864	63906	1952	30452	15758	3994	13498	212	138150	3720	1697	32095	15686	4367	15427
4764	45350	1724	82460	20522	24222	16268	64544	1728	30370	15660	3568	13590	155	136301	3417	1589	32637	15991	4278	15401
4770	45799	1707	86882	21008	25143	16947	64270	1649	31257	15669	3419	13990	133	136581	3206	1484	33706	16318	4100	15309
4776	46620	1742	85292	21253	25715	16700	65334	1536	31585	15844	3429	14082	150	137542	3277	1527	33936	16517	3897	15350
4782	45931	1712	86660	20564	25032	16610	64238	1640	31211	16236	3560	13907	168	138035	3480	1565	33725	16703	3939	15256
4788	46406	1951	85557	21004	24164	16351	63409	1786	31263	16485	3874	14067	187	139449	3699	1656	34593	16636	4033	15584
4794	45966	1986	89849	20906	25117	17111	67097	1924	31975	16132	4141	14192	188	138598	3837	1773	35576	16728	4501	15864
4800	47762	2024	89057	21094	25529	17241	66020	2054	32097	16113	4045	14242	171	136044	3847	1812	34752	17155	4753	15655
4806	46415	1984	87410	21131	25591	16509	65244	1969	32133	16099	3789	14200	174	136031	3891	1844	34950	17157	4553	16118
4812	46417	1959	87164	21522	25911	16706	65878	1977	32601	16009	3767	14286	175	134177	3996	1803	35678	17211	4703	16168
4818	45545	1934	90367	21252	25657	16754	65102	1980	32482	15916	3908	14324	168	132268	3954	1737	35766	16974	4821	15878
4824	45176	1897	86923	20708	25019	16239	64572	1950	31571	15404	3984	14108	139	128124	3777	1746	35422	16855	4723	15728
4830	44447	1886	87163	20707	25616	16176	63314	1920	31434	14787	4017	13965	174	124876	3850	1784	35772	16244	4590	15914
4836	43467	1985	83280	20563	25259	15893	63087	1930	31679	14500	4143	13850	211	123323	3941	1821	34552	16467	4627	15691
4842	43592	2033	85060	20587	24828	15626	63335	1963	31711	13692	4047	13853	189	118698	4028	1847	34223	16934	4668	15717
4848	41044	2063	83807	19905	24457	15891	61271	1952	31618	12139	3977	13624	197	109807	4114	1841	33457	16268	4710	15403
4854	35416	2015	71180	17996	22009	14604	54192	2017	29725	10419	5030	12190	278	91405	3839	1827	31014	15061	4541	14697
4860	35447	1980	66873	16781	20437	12337	48057	1996	27834	9463	5361	11782	357	78945	3752	1857	29458	14511	4650	14440

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
4866	36710	1810	71567	17743	21000	13282	52629	1934	27278	10300	4596	12233	293	85213	4042	1791	29860	14673	4760	14739
4872	40273	1940	76755	18677	21720	14246	56904	1912	27630	11655	4267	12751	232	98217	4091	1790	30925	15308	4839	14828
4878	41238	1830	80810	19168	22767	15225	58894	1907	28662	12812	4342	13116	211	107161	4066	1779	31546	15562	4867	15040
4884	40878	1729	75354	18911	22036	15407	58653	2023	28255	13212	4352	12543	211	112747	4209	1769	30891	15187	4642	14683
4890	42683	2057	77819	19596	22659	14984	58315	2116	28301	13553	4515	13002	227	115029	4391	1827	31605	15906	4666	14945
4896	42164	2075	85015	20378	23816	15457	61086	2116	30137	14032	4670	13615	251	120063	4416	1914	33523	16587	5048	15488
4902	43544	2073	84357	20019	24179	15623	61927	2202	31427	14298	4927	13499	241	120827	4614	1980	33527	15964	5207	15667
4908	41885	1937	80660	19588	23549	15260	60015	2324	30869	14494	5202	13324	258	121275	4794	1979	32642	15233	5178	15198
4914	40316	1814	79183	19174	22829	15109	59240	2305	28734	14766	5189	12499	296	123400	4688	1893	30923	14808	4839	14280
4920	40800	1997	76947	18861	21758	14523	57978	2533	27390	14711	5328	12410	316	121772	4492	1964	30617	15122	4767	14208
4926	42491	2103	80716	19433	23692	15034	58837	2745	29157	14664	5650	13138	326	119229	4620	2030	31305	15768	5104	14880
4932	41609	1975	80248	19262	22668	15440	58573	2634	29775	14431	5583	12879	340	118325	4668	2034	31315	15603	5147	15113
4938	42019	2011	78201	19239	22417	14903	57941	2545	29566	14497	5705	13169	352	120963	4799	2003	32369	15994	5032	15651
4944	42899	2103	80877	19898	23804	15848	60287	2605	30305	14872	5970	13640	375	123391	4946	2076	32911	16308	5086	16126
4950	41621	1861	82083	19967	23354	15664	59784	2556	30442	14522	5296	13189	325	123720	4657	1973	32240	15658	5258	15516
4956	42440	1901	78465	18665	22527	14831	57697	2186	29369	14436	4002	12879	214	121057	4115	1830	32595	15452	5041	15260
4962	42702	1940	78074	20113	23287	15327	59740	1888	29299	14643	3823	13171	180	119537	4011	1767	32982	15782	4668	15333
4968	43135	1950	78319	19631	23622	15172	60828	1960	29922	14715	4272	13451	176	120390	4240	1842	32785	15964	4736	15269
4974	42368	1774	81060	20288	24717	15493	61098	2055	30368	14682	4351	13289	192	121611	4170	1836	32623	15477	4831	14925
4980	39725	1810	76719	19008	24077	15005	58476	2022	28250	14295	4315	12492	208	118151	4170	1773	32115	14963	4660	14523
4986	42514	1789	80340	19870	23449	15001	58517	2029	28205	14404	4464	12805	251	115746	4095	1778	32184	15282	4484	14752
4992	42492	1813	79331	19581	23852	15314	59944	2101	30063	14906	4740	13443	246	117122	4103	1790	31867	15373	4509	15091
4998	40546	1759	79902	19057	23557	15504	59916	2072	29755	14843	4310	13133	221	116738	4035	1728	31105	14729	4538	14560
5004	40715	1734	75199	18303	22472	14605	58887	1971	28908	14511	4061	12729	205	114768	3831	1698	30318	14411	4396	14049
5010	40243	1652	74197	18691	21881	14828	58047	1905	28237	14430	3988	12476	213	114122	3706	1694	29898	14388	4187	13844
5016	39610	1712	73764	18510	23033	14291	56995	1852	28430	14281	4286	12671	206	115354	3896	1704	30275	14596	4264	14184
5022	41293	1800	77522	19537	23308	14857	58589	1970	28857	14317	4322	12774	248	116259	4065	1767	31444	15185	4421	14850
5028	41923	1812	77585	20031	24712	15317	60297	2014	30147	14876	4673	13535	242	116110	4210	1839	32157	15304	4566	14982
5034	41596	1669	78146	19451	23748	15257	60272	1988	30314	14682	4577	13085	226	118103	4162	1658	30995	14786	4484	14433
5040	41048	1768	74751	18314	22268	15091	58437	2004	29138	14869	4695	12638	241	114356	4052	1692	31267	14963	4299	14140
5046	41349	1742	78221	19410	23892	15214	59081	2070	29608	14963	4875	13195	245	115602	4128	1758	31860	15103	4369	14253
5052	43427	1848	79801	19652	24134	15100	59168	2089	30177	14999	4782	13549	282	115462	4128	1766	32823	15770	4462	14710
5058	45205	1789	84752	20396	24807	16087	61861	2124	31573	15242	4925	14021	299	119188	4077	1749	33814	15701	4398	14936
5064	43075	1654	82599	20055	24144	16066	61204	2116	31315	15286	4860	13405	293	118888	3981	1581	33031	15441	4340	14545
5070	42784	1665	78795	19607	24438	15678	59997	2174	30554	15139	4862	13289	283	115369	4113	1646	31947	14959	4260	14281
5076	41748	1576	71182	19582	24004	15314	59204	2144	29226	14838	4794	12814	297	117230	4110	1692	31651	14776	4278	14485
5082	42833	1728	65496	19450	23915	14976	59398	2129	29351	14885	4888	13125	291	116314	4132	1659	32812	15108	4308	14889
5088	43979	1684	80930	19920	24900	15435	62299	2166	30593	14937	5083	13948	310	117977	4240	1742	34080	15534	4442	15220
5094	43024	1643	84030	20200	24849	15782	62590	2203	30472	14972	5006	13278	320	117344	4180	1731	33501	15440	4616	14842
5100	43108	1554	77808	19283	24217	15215	59479	2144	30491	15104	4779	13256	262	117928	4117	1628	32613	14713	4169	14601
5106	43105	1574	81595	19347	23372	15196	59156	2102	29445	15501	4787	13163	283	118660	3909	1632	32862	14915	3967	14660
5112	44280	1627	80704	19839	24053	15558	60654	2172	29943	15705	5055	13452	319	117021	4377	1743	33546	15670	4520	14841
5118	43616	1569	82638	20083	24583	15896	61909	2187	30696	15114	5158	13593	311	115424	4235	1704	33123	14913	4299	14777
5124	41634	1495	76290	19307	23222	15505	59632	2103	28780	14685	4695	12688	318	116487	3965	1595	32521	14586	4013	14393
5130	40930	1617	75779	18856	23641	15005	58064	2164	29079	14548	4947	12940	330	117468	3900	1680	31954	14896	4207	14159
5136	41668	1623	76947	18950	23489	14691	57226	2232	28932	14494	5195	12451	363	115835	4217	1730	30900	14251	4448	13963
5142	41572	1552	74866	18819	22733	14470	56622	2264	28567	14584	5021	12407	325	113599	4080	1701	30539	14078	4199	14114
5148	41020	1540	72858	18756	23013	14525	57693	2240	28049	14561	4798	12643	342	111846	3888	1650	31203	14251	4060	13974
5154	40512	1732	73874	19061	23089	14803	58244	2197	27764	14392	4912	12914	311	110994	4135	1722	31384	14538	4275	14196
5160	39717	1636	73957	18488	22559	14552	56523	2387	29060	14422	5517	12359	358	109393	4470	1821	29076	12540	4433	12984
5166	35679	1271	67140	16354	19575	13077	51097	2015	23572	13505	4091	10106	276	106079	3514	1458	25200	10154	3635	11367
5172	36896	1264	60964	15962	18719	12469	49505	1717	21248	13298	3223	9939	184	101743	2974	1307	26436	11014	3429	11520
5178	39880	1192	69313	16841	19943	13256	51551	1621	24535	13932	3287	11414	165	106980	3357	1353	26025	10544	3278	11304
5184	37099	1484	65648	16452	19230	13072	51232	1640	22252	13711	3935	10282	181	104761	3366	1460	27420	12172	3373	12438
5190	38564	1617	70766	17816	21502	13362	51852	1880	25817	13591	4477	11801	227	103038	4103	1644	29064	13896	4058	13637
5196	39706	1736	73470	18297	22008	13952	54042	2135	27690	13583	4753	12341	242	104270	4305	1755	31134	14753	4447	14168
5202	40462	1359	77103	18404	22437	14362	55047	2048	28240	13509	4155	12295	250	105063	3637	1533	30622	13443	3844	13368
5208	40496	1626	74349	18487	21780	14293	54949	1755	26402	13872	3910	11880	211	103683	3617	1511	31028	14253	3506	14218
5214	40965	2002	75513	19338	22982	14493	56134	2204	29135	13966	5532	12681	306	106891	4674	2043	32477	15249	4859	15313
5220	40369	2052	75650	19065	23017	14316	56898	2595	30544	13873	6141	12984	348	105666	5114	2198	32323	14855	5477	15208
5226	38168	2080	74712	18433	21933	14292	56242	2537	28213	13282	5921	11738	361	103328	5057	2127	30370	15010	5452	15035
5232	39819	2233	76058	18953	22749	14049	55674	2741	29052	13401	6492	12578	362	101011	5365	2276	31190	15852	5684	15566
5238	40898	2291	78822	19678	23564	14409	58129	2922	30415	13673	6425	13421	374	104360	5433	2321	32988	16692	6120	16322
5244	41541	2297	79070	19883	23932	14884	59661	2715	32220	13867	6010	13304	345	105592	5385	2286	33999	16916	6065	16288
5250	41457	2246	76035	19732	24043	14800	58542	2708	30397	13663	5939	12945	330	106371	5450	2220	33471	16427	5696	15973
5256	41705	2197	76901	19328	23761	14556	58477	2729	30743	13742	6179	13033	357	102670	5469	2285	33640	16084	5792	15840
5262	39044	1768	75050	18343	21931	13862	55316	2552	29376	13167	5458	11702	319	100981	4662	1967	29870	13635	4999	14456
5268	37354	1778	66883	17968	20209	13082	51296	2374	25767	13064	5405	11105	327	94589	4385	1805	28162	13668	4277	14127

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
5274	38750	2133	69695	18851	21791	13461	53707	2524	27410	13111	6205	12199	355	96840	5173	2147	31148	15720	5157	15450
5280	40505	2225	77704	19387	23309	14101	56718	2829	30455	13525	6550	12954	342	100144	5451	2301	32232	16653	5718	15770
5286	42141	2475	76998	19925	24026	14634	58785	3018	30843	13549	6871	13355	412	100913	5661	2450	33683	17142	6120	16591
5292	42327	2380	80224	20173	24317	15035	59180	3032	32874	14248	6749	13520	423	103918	5631	2417	33793	16596	6234	16016
5298	40253	2268	77095	19588	23778	14736	58654	2824	30601	13533	6425	12870	405	102403	5273	2288	33051	16541	5774	16069
5304	41460	2477	77815	19825	24256	14808	59857	3013	31883	13539	6935	13460	411	98861	5854	2469	34332	17468	6179	16481
5310	42485	2567	82488	20080	24605	15250	60378	3061	32991	13821	6935	13800	436	100930	5961	2603	35326	17745	6479	16994
5316	41670	2447	83044	20112	24862	15016	59020	3117	32815	13412	6951	13332	408	101297	5995	2552	34674	16977	6600	16698
5322	40170	2178	79036	19421	23600	14287	56209	3073	31817	13312	6732	12560	396	99090	5639	2349	32602	15404	6211	15467
5328	39213	2152	75323	19131	22791	13922	54514	2720	28831	13077	6405	12031	403	98773	5161	2148	31964	15997	5437	15583
5334	40917	2352	73974	19776	23987	14282	56271	2909	30504	13293	6766	13045	403	100074	5596	2444	33077	16423	5970	16186
5340	40477	2296	78223	19715	24184	14580	56996	3012	31302	13839	6768	12822	412	99120	5603	2342	32800	16516	5948	15850
5346	41156	2364	78107	19883	24284	14523	57307	3014	31525	13423	6984	13164	446	98521	5605	2445	33827	16792	6060	16093
5352	42295	2666	78081	20536	24973	14676	59524	3188	32702	14122	7587	13619	473	100179	6243	2645	35082	17956	6517	16962
5358	42896	2690	78455	20576	24913	15043	61199	3416	34067	14025	7616	13731	483	101445	6458	2756	34721	17604	6937	17146
5364	41000	2480	78896	19904	24035	14926	59116	3351	32426	13494	7345	12846	456	100080	6197	2672	33121	16492	6699	16183
5370	39608	2359	76924	19678	23483	14320	56136	3304	30830	13084	7412	12648	456	95590	5907	2517	31758	16243	6164	16028
5376	41091	2690	77438	19945	23980	14449	57672	3356	31725	13720	7923	13470	472	98986	6386	2822	33696	17566	6703	17163
5382	40879	2661	79335	20310	24423	14776	59862	3619	32771	13461	8144	13219	494	98697	6695	2811	34336	17634	6943	17148
5388	41606	2562	78472	19989	24154	14492	59172	3629	32665	13625	8312	13325	521	99085	6650	2756	33720	16397	6937	16708
5394	40271	2429	75906	19301	23498	14388	57997	3390	31143	13287	7904	12608	512	96027	6255	2574	32052	15692	6397	16045
5400	39463	2416	74254	19167	22975	14156	57074	3268	29444	13196	7923	12408	507	95378	6247	2514	32097	15994	6344	15938
5406	39239	2351	73532	19176	22951	13824	56232	3237	28858	13016	7866	12188	530	96112	6018	2463	32213	16025	5964	15491
5412	39451	2577	73513	19393	23421	13982	56323	3519	29999	13007	8098	12800	519	95282	6344	2672	32583	16966	6645	16519
5418	40311	2710	76780	20051	24200	14298	57805	3792	31975	13365	8745	13222	548	95358	6747	2906	33899	17193	7364	17016
5424	40843	2639	75251	20468	24176	14310	57758	3734	31653	13163	8505	12947	556	98140	6669	2903	33729	16863	7238	16866
5430	41372	2502	77358	19971	23843	14174	56859	3619	31105	12960	8197	12809	556	97533	6323	2633	32852	16137	6501	16241
5436	41250	2616	76740	19901	24157	14549	58296	3575	30884	13149	8344	13089	553	95737	6732	2774	33902	17559	6823	16745
5442	41638	2672	77553	19992	24441	14867	58774	3528	32840	13654	8381	13395	581	95246	6923	2906	34469	17203	7063	16882
5448	40753	2506	78093	20404	24834	14722	58801	3259	31756	13150	7075	13111	505	93690	5962	2586	33923	17405	6216	16981
5454	42157	2514	79241	20308	24519	14436	58055	2987	32212	13298	6097	13439	355	97966	5846	2547	33669	17013	6288	16638
5460	41782	2694	77802	20130	24211	14448	58474	2978	32580	13176	6268	13329	314	98690	6040	2714	34489	17382	6691	16994
5466	41170	2801	78625	20560	24490	14665	59166	3114	31936	13139	6794	13271	338	96157	6202	2763	34821	17781	7033	17120
5472	40946	2690	78398	20213	23890	14716	57969	3261	31718	13241	7007	13273	363	96045	6469	2781	33743	16899	6950	16825
5478	40424	2682	76217	20048	24170	14452	57727	3293	31219	13064	7133	12926	384	94270	6291	2757	33199	16826	6638	17059
5484	40664	2804	77902	20343	24568	14584	58824	3389	31632	13304	7375	13300	392	95479	6523	2864	34742	17659	6919	17382
5490	41005	2828	79248	20544	24489	14592	58769	3427	31637	13356	7421	13399	396	96332	6636	2901	35043	17978	7255	17378
5496	41602	2799	78131	20600	24364	14675	58155	3371	31540	13318	7097	13495	377	94649	6486	2840	34384	17793	7094	17157
5502	41824	2738	76857	20259	24232	14756	58703	3147	30949	13309	6372	13353	305	93321	6225	2769	34382	17448	6896	17429
5508	41008	2690	76340	20206	24425	14502	58349	3107	30880	13274	6358	13150	265	94301	6195	2717	34682	17527	6757	17181
5514	41138	2651	78260	20549	24853	14530	58430	3189	30652	13171	6512	13312	248	94904	6261	2721	34126	17473	6691	17111
5520	42194	2901	77977	20552	24404	14685	58481	3371	31100	13180	6766	13513	237	93870	6735	2943	34047	17732	7470	17221
5526	41412	2896	78929	20068	24069	14519	57875	3444	31049	13069	6894	13301	231	93827	6679	3002	33536	16819	7391	16824
5532	40639	2984	77179	20325	24442	14461	57950	3461	30516	12928	6774	13197	230	92327	6812	3030	33781	17783	7280	17360
5538	40974	2990	77326	20422	24548	14536	58696	3537	30513	12994	6676	13411	195	93380	6862	2973	34237	18091	7387	17715
5544	41061	3035	77627	20632	24306	14719	59370	3574	30294	12984	6717	13325	203	94822	7069	3060	35442	18359	7467	18044
5550	41265	3023	77893	20502	24341	14800	59028	3621	30278	13212	6998	13649	206	92990	7031	3050	34737	18222	7726	17978
5556	41166	2912	77040	20203	23995	14713	57919	3568	30472	13163	7181	13521	232	93685	7082	3017	34769	17788	7766	17802
5562	40564	2829	76311	20017	23787	14495	57263	3577	30617	12901	7274	13237	295	91737	6849	2960	33702	17156	7462	16961
5568	40004	2807	74968	19742	23688	14240	56472	3547	30348	12904	7321	12840	338	90822	6717	2873	33275	17145	7235	16864
5574	40193	2769	74378	19632	23383	14084	56007	3566	29858	12723	7558	12933	386	91686	6832	3011	33516	17453	7409	17300
5580	39957	2728	73942	19177	23069	14010	55834	3424	29848	12635	7613	13072	412	90734	6957	3018	33760	17170	7553	17105
5586	39140	2636	72047	18907	22570	13686	55041	3311	29651	12498	7432	12786	394	90071	6577	2831	32504	16177	6914	16452
5592	38703	2624	71987	19019	23069	13737	55209	3323	29184	12368	6984	12393	392	88849	6236	2648	32891	17027	6464	16925
5598	39129	2732	74218	19501	23378	13896	55397	3247	29866	12531	6665	12590	382	88027	6251	2642	33234	17336	6622	16610
5604	39585	2817	75963	19812	23546	13863	55898	3248	30169	12573	6525	12862	353	90304	6309	2813	33948	18014	6951	17470
5610	39962	2843	76280	19700	23569	14086	55968	3301	30361	12680	6909	13320	355	93350	6575	2943	34382	17989	7517	17746
5616	39739	2804	74887	19282	23115	13983	55534	3260	30348	12580	6885	12883	344	90162	6617	2876	33490	17143	7515	16908
5622	39362	2888	73782	19458	23352	14108	55724	3316	30391	12499	6811	12855	325	88448	6562	2903	34091	17718	7290	17363
5628	39330	2934	75139	19639	23670	14131	56086	3433	30380	12556	6760	13022	316	88792	6613	2964	34195	17886	7297	17595
5634	39099	2934	75153	19846	23600	13959	56020	3492	30661	12563	6642	13175	326	88987	6645	3005	33981	17709	7500	17426
5640	38871	2930	74182	19846	23520	13914	55704	3466	30804	12486	6824	12944	319	86886	6698	3003	33495	17968	7553	17485
5646	38862	2940	73472	19713	23522	13894	55996	3489	30869	12363	7084	12953	338	87161	6813	3068	34050	17712	7776	17548
5652	38319	2888	73461	19366	23132	13758	55345	3556	30807	12141	7531	13014	382	89393	7045	3152	33681	17454	7921	17331
5658	37809	2898	72391	19014	22604	13458	54218	3511	30690	12098	7603	12758	396	87042	7047	3105	33335	17180	7822	16687
5664	38358	2945	72980	19303	23063	13434	54559	3474	30745	12074	7298	12714	373	86087	6875	3069	33716	17737	7550	17168
5670	38860	2927	74407	19596	23428	13727	55527	3527	31321	12267	7116	13011	353	87135	6971	3128	34338	17797	7783	17459
5676	38661	2896	73921	19737	23428	13931	55657	3611	31518	12268	7300	13148	345	87905	6979	3146	34271	17628	7973	17576

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
5682	38193	2877	73049	19491	23428	13741	54714	3604	31836	12016	7497	12844	368	86773	7071	3116	33606	17611	7783	17095
5688	38307	2902	72427	19300	23197	13617	54683	3567	31509	11977	7549	12683	405	86038	7065	3134	33923	17780	7665	17219
5694	38584	2872	71478	19285	22933	13658	54311	3689	31285	12010	7786	12967	409	86271	7220	3129	34371	17496	7900	17520
5700	38232	2795	70179	18866	22397	13502	52966	3805	31478	11919	8010	12824	433	87575	7186	3089	33876	16895	7814	17140
5706	37736	2800	69842	18898	21893	13402	53028	3810	30752	12012	8195	12417	446	84843	7101	3056	32754	16626	7610	16579
5712	37968	2872	71448	19153	22182	13584	54050	3828	30521	12112	8275	12330	442	84775	7206	3105	32104	17014	7813	16779
5718	38735	2951	73286	19248	23078	13851	54818	3900	31307	11984	8260	12797	429	85961	7406	3290	33608	17821	8251	17625
5724	39113	2966	74151	19396	23779	14022	55158	3964	32460	11845	8214	13041	429	84731	7379	3293	34059	18103	8147	17434
5730	39073	2976	73855	19494	23691	14111	55776	4029	32616	11936	8262	13008	438	83345	7316	3258	34462	17984	7871	17480
5736	38989	3023	73639	19613	22987	14071	55745	4044	32316	12016	8497	13050	449	84267	7599	3303	34494	18094	8023	17668
5742	38485	3044	73510	19553	22982	14115	55142	4128	32323	11990	8752	13049	459	84848	7880	3330	34408	18079	8251	17732
5748	38068	3020	72529	19743	23014	13992	54613	4266	32211	12040	9063	12925	479	82478	7967	3365	33835	17751	8272	17450
5754	38236	3027	72957	19624	22935	13773	53747	4266	32141	11921	9074	12701	504	79693	7917	3362	33070	17492	8235	17442
5760	38591	3057	73972	19187	23038	13628	53222	4042	31665	11738	8501	12492	473	79711	7758	3332	33049	17835	8180	17527
5766	38720	3059	72998	19561	22966	13560	54031	3933	31986	11812	8055	12692	424	79143	7540	3324	33153	17920	8146	17194
5772	38470	3012	72465	19996	22842	13577	53974	3926	31799	11763	8154	12780	414	79283	7510	3342	33188	17582	8212	17275
5778	38035	2959	72164	19576	22956	13712	53602	3974	31490	11732	8323	12514	421	81466	7631	3285	32971	17112	8056	17171
5784	37664	2983	71516	19321	22546	13657	53742	4036	30700	11732	8567	12388	438	82549	7656	3227	32623	17007	7843	17118
5790	37794	3035	71444	19653	22464	13580	53856	4215	30502	11641	8827	12425	477	80578	7749	3269	32766	17696	7904	17201
5796	38389	3100	72628	20010	22808	13740	54247	4338	31335	11713	9177	12592	523	79871	7876	3380	33559	17989	8254	17239
5802	38370	3139	74022	19908	23040	13853	54370	4409	31894	11816	9502	12702	543	80425	8065	3434	33366	17902	8515	17317
5808	38280	3140	74119	20037	22923	13757	54420	4290	31789	11888	9304	12761	522	79528	8086	3450	33092	17947	8539	17320
5814	38604	3156	73251	20268	23229	13784	55366	4087	31600	11963	8587	12831	470	77551	7824	3432	33405	18294	8546	17466
5820	38743	3176	74019	20086	23829	14050	56013	4086	32174	11959	8048	12924	433	78494	7725	3428	33755	18350	8517	17456
5826	38892	3207	74888	19879	23871	14183	55615	4171	33096	11937	8137	13019	426	79964	7909	3485	34410	18399	8571	17754
5832	38928	3271	75337	19784	23306	14052	55182	4204	33369	11921	8473	13108	432	80443	8036	3516	34733	18600	8763	18061
5838	38972	3223	74939	19456	22928	13928	55002	4134	33318	11767	8632	13167	446	80427	8013	3494	34091	18405	8738	18146
5844	39198	3079	73700	19407	23094	13821	54574	3948	33244	11600	8429	13170	439	81161	7954	3471	34512	18194	8653	17986
5850	38829	3017	72166	19355	22878	13802	54079	3709	32687	11565	7820	13010	391	80709	7691	3407	34306	18056	8565	17566
5856	38203	3032	71129	19142	22588	13769	53676	3481	31823	11586	7171	12718	340	80553	7246	3266	33384	17706	8148	17500
5862	37908	2995	71336	19265	22729	13704	54648	3401	31582	11638	6880	12752	318	80730	7105	3234	33765	17974	7932	17796
5868	37653	2862	71970	19340	22734	13775	55413	3279	32132	11672	6723	13092	304	79626	7190	3255	34400	18416	8209	17722
5874	37724	2571	71616	19062	22271	13805	54363	2924	32454	11591	6453	13242	290	79688	6925	3126	34766	18370	8142	17790
5880	37176	2068	69139	18364	21643	13561	51891	2419	32303	11359	5708	13008	246	80101	6114	2765	34014	17403	7426	17254
5886	35803	1708	65822	17373	20514	12905	49253	1948	30579	11047	4481	12281	211	79006	4822	2133	31325	15173	5878	15376
5892	35035	1889	65455	17371	20132	12464	49065	1854	27120	10958	3552	11658	185	77240	3902	1695	29567	14235	4446	14259
5898	35821	2380	67937	18589	21195	12796	51412	2213	26164	11187	3708	11912	170	77275	4311	1920	31119	16025	4681	15504
5904	37243	2745	70108	19225	22307	13298	53304	2628	28790	11375	4627	12592	181	79164	5521	2513	33247	17731	6319	17054
5910	37849	2874	71690	19336	22740	13441	53571	2874	31428	11351	5395	12899	206	79835	6409	2967	33916	18090	7632	17597
5916	37743	2934	72601	19443	22921	13568	53537	3049	32113	11375	5821	12952	221	79146	6780	3150	34100	18064	8036	17571
5922	37807	3012	72672	19275	22760	13758	53735	3193	31998	11515	6059	13057	230	79533	7036	3213	34234	18126	8166	17612
5928	38004	3013	72316	19481	22523	13842	54084	3334	32523	11656	6210	13057	236	80125	7229	3305	34555	18383	8364	17772
5934	37882	3004	72283	19708	22604	13801	54378	3469	32967	11744	6461	12991	251	79894	7321	3399	34656	18556	8449	17985
5940	37600	3027	71952	19724	23121	13802	54663	3540	32672	11657	6707	13018	281	79848	7371	3422	34296	18418	8452	17937
5946	37158	3048	71350	19488	23194	13780	54766	3545	32350	11549	6784	12998	293	79006	7334	3405	33822	18138	8444	17615
5952	37128	3073	72358	19443	22732	13679	54404	3508	32255	11627	6684	12930	286	77339	7257	3398	33816	18068	8439	17777
5958	37610	3095	73879	20036	22879	13681	54556	3548	32339	11736	6588	12975	280	76476	7275	3414	34377	18416	8523	18029
5964	37710	3104	74489	20068	23083	13702	54544	3588	32693	11658	6658	13141	276	76827	7409	3452	34705	18610	8523	18023
5970	37559	3055	73534	19532	23099	13675	54609	3597	33025	11552	6768	13145	278	77225	7473	3509	34502	18416	8486	18034
5976	37378	3057	72832	19301	22912	13481	54655	3718	32720	11549	6899	13036	293	76856	7445	3492	34098	18142	8518	18071
5982	37117	3134	73568	19373	22695	13391	54113	3870	32402	11537	7105	12958	315	76764	7539	3510	34021	18116	8489	18008
5988	37006	3145	74183	19320	23098	13493	53910	3942	32458	11584	7392	12930	326	76931	7760	3593	33988	18301	8531	17967
5994	37081	3131	73504	19202	23541	13518	54467	3936	32488	11633	7652	12996	337	76669	7887	3596	33813	18324	8653	17987
6000	37004	3138	72578	19420	23409	13497	55262	3908	32374	11618	7660	13007	353	76195	7832	3564	33699	18107	8674	17977
6006	36633	3091	71882	19417	22987	13414	54916	3968	32028	11547	7670	12874	366	76189	7821	3567	33486	17857	8670	17847
6012	36541	3065	71222	19188	22439	13399	53799	4082	32068	11427	7908	12663	380	76139	7898	3581	33292	17821	8745	17688
6018	36542	3116	71333	19124	22266	13321	53333	4162	31929	11339	8159	12584	390	75561	8042	3609	33090	17741	8796	17668
6024	36606	3194	72322	19162	22832	13382	53819	4246	31689	11375	8403	12837	396	75621	8216	3701	33122	17774	8798	17777
6030	37024	3232	73306	19569	23353	13591	54503	4320	32273	11535	8503	12939	400	75293	8286	3752	33790	18150	8917	18060
6036	37031	3245	74096	19779	23259	13619	54980	4369	32973	11607	8626	13003	414	75203	8349	3788	34187	18399	9092	18187
6042	36608	3262	74584	19641	23003	13695	55434	4437	33233	11546	8913	13086	440	75577	8445	3851	33981	18349	9138	18057
6048	36514	3229	73670	19457	22841	13782	55254	4521	33097	11502	9068	12973	451	75054	8391	3839	34049	18281	9159	18097
6054	36604	3193	72415	19298	22795	13583	54173	4509	32620	11406	9036	12876	469	74435	8358	3774	34064	18010	9196	18087
6060	36557	3206	72195	19307	23010	13442	53960	4463	32512	11256	9134	12890	492	74680	8365	3819	33793	17586	9187	17865
6066	36689	3227	72129	19268	23175	13496	54348	4500	32712	11268	9298	12930	492	75034	8464	3885	33678	17809	9152	17870
6072	36851	3220	72792	19489	23004	13504	53972	4564	32596	11386	9313	12790	487	74377	8458	3848	33604	18000	9214	17982
6078	36625	3179	72799	19588	22761	13453	53558	4582	32370	11448	9286	12659	475	74041	8383	3816	33450	17788	9264	17770
6084	36297	3134	71239	19075	22781	13371	53874	4571	32278	11437	9342	12601	475	74593	8460	3831	33097	17812	9186	17632

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
6090	36029	3105	70884	18790	22564	13212	53487	4602	32110	11329	9504	12575	492	74378	8406	3834	32730	17807	9029	17503
6096	35572	3127	71253	18622	22366	13004	52666	4575	31651	11172	9493	12460	497	73238	8339	3744	32460	17630	8831	17304
6102	35263	3152	71035	18668	22381	12743	52603	4497	31372	11109	9391	12312	497	72426	8187	3689	32427	17593	8769	17291
6108	35690	3101	70949	19084	22233	12720	52350	4504	31456	11100	9371	12402	483	72827	8298	3717	32680	17709	8560	17534
6114	35968	2999	70803	19074	22037	12830	51920	4396	31321	11053	9243	12451	467	73081	8147	3572	32338	17544	8295	17296
6120	35597	2965	69836	18603	22288	12836	52052	4303	31170	11012	9080	12340	470	73639	7812	3530	32075	17286	8430	16984
6126	35333	2984	69058	18227	22060	12789	51776	4469	30892	10941	9227	12158	478	72367	8002	3656	32176	17307	8589	17193
6132	34495	3015	68644	18238	21402	12540	50949	4610	30395	10883	9514	12102	470	70083	8209	3722	31808	17188	8654	17176
6138	34032	3081	68755	18352	21383	12414	50509	4674	30127	10779	9684	12161	460	70226	8419	3777	31546	17081	8645	17015
6144	34443	3089	69091	18379	21953	12638	51236	4644	30481	10674	9484	12255	433	71249	8369	3765	31884	17249	8460	17097
6150	34123	2888	69173	18333	22063	12732	51492	4316	30712	10736	8720	12134	401	69785	7893	3525	31732	17142	7836	16782
6156	33640	2644	67978	18060	21390	12540	50679	3745	30178	10693	7566	11871	357	69907	6962	3056	30858	16554	7232	16173
6162	33865	2623	67136	17790	21112	12140	49540	3303	29169	10564	6619	11688	310	69091	6228	2892	30354	16164	7321	15951
6168	34250	2804	67707	17769	21656	12088	49872	3322	29011	10597	6360	12013	281	69972	6335	3138	30650	16334	7776	16270
6174	34443	2943	68760	18245	21915	12413	50858	3532	29870	10668	6241	12320	254	70425	6799	3320	31448	16947	8084	16719
6180	34670	2945	69592	18295	21750	12534	50263	3548	30490	10741	6196	12164	253	69561	6916	3314	31735	17186	8064	16808
6186	34852	2901	68419	18207	21800	12395	49754	3351	30722	10812	5973	11921	235	68953	6599	3219	31708	17021	8031	16763
6192	34582	2887	68400	18631	21823	12283	50174	3221	30676	10689	5893	12104	244	69631	6457	3240	32162	17040	8081	16890
6198	34553	2924	70102	18894	21703	12378	50804	3322	30698	10604	6044	12356	256	71048	6766	3371	32054	17132	7994	16754
6204	34562	2884	70412	18430	21812	12498	51241	3425	30746	10524	6064	12264	243	69196	6677	3251	31783	17156	7793	16481
6210	33836	2766	68267	17975	21876	12528	50977	3306	30517	10389	5690	12050	224	67956	6328	3090	31269	16908	7598	16228
6216	33348	2707	67405	18189	21573	12411	50767	3077	30056	10522	5184	11789	209	68036	5946	2987	31052	16752	7428	16220
6222	33327	2707	67007	18267	21109	12236	50198	2927	29866	10464	5111	11669	211	67670	5694	2930	30804	16722	7339	16294
6228	33132	2725	67001	17893	20919	12126	49474	2865	29540	10314	5145	11789	218	69332	5713	2946	30427	16639	7259	16165
6234	32928	2729	67761	17835	21328	12106	50264	2912	29155	10368	5267	11725	245	67666	5791	2945	30648	16762	7296	16241
6240	32819	2712	67189	17494	21195	12043	50357	3030	28865	10244	5443	11618	262	67469	5984	2967	30531	16494	7403	16191
6246	32507	2680	68125	17282	20647	11872	49656	3161	28623	10163	5588	11523	268	66007	6116	2984	29942	16220	7350	15997
6252	32166	2675	65166	17627	20523	11791	49302	3209	28618	10254	5899	11518	263	65710	6079	2957	29717	16275	7321	15913
6258	32347	2694	66332	17703	20738	11841	49626	3238	29064	10177	6294	11736	277	66829	6103	3039	30061	16495	7492	16046
6264	32946	2704	68202	17471	20696	11921	49198	3314	29146	10026	6523	11773	296	67171	6428	3119	30393	16633	7726	16183
6270	32840	2745	66948	17301	20541	11797	47842	3322	28781	9875	6581	11611	299	66262	6453	3147	29854	16504	7813	15981
6276	32191	2812	65768	17198	20859	11800	47918	3388	28640	9766	6590	11331	302	64596	6392	3170	29699	16437	7950	15897
6282	31876	2884	66297	17399	21038	11896	49189	3628	28720	9857	7020	11433	324	63451	6709	3278	30158	16589	8007	16162
6288	31684	2856	66901	17548	20868	11780	49893	3721	29457	9992	7297	11524	347	63862	6910	3293	29966	16480	7916	16208
6294	31979	2769	65684	17380	20531	11583	49017	3739	29617	10002	7545	11507	401	65409	6855	3260	29562	16017	7946	16029
6300	32082	2823	65526	17247	20660	11584	48424	3924	28995	9920	8088	11431	417	64560	6972	3327	30098	16061	8155	16288
6306	31798	2882	65116	16888	20992	11646	48018	4076	28449	9868	8540	11462	459	65080	7319	3446	30286	16101	8288	16220
6312	31332	2884	64138	16824	20845	11573	47197	4178	28195	9846	9009	11387	495	64596	7438	3447	29793	15915	8345	15997
6318	31188	2917	65444	17104	20403	11484	47367	4286	28099	10002	8971	11628	500	64759	7562	3507	29715	15986	8365	16110
6324	31525	2959	66576	17424	20464	11638	48657	4403	28759	10098	9113	11584	526	64238	7636	3500	30430	16190	8548	16607
6330	31593	2943	66297	17392	20629	11757	49235	4551	29259	10024	9563	11567	567	65080	7771	3539	30437	15958	8705	16634
6336	31914	2946	65536	17366	20427	11581	48963	4633	29015	9968	9967	11564	617	64079	7982	3650	29805	15960	8757	16311
6342	31985	2991	65596	17221	20782	11580	49174	4669	29001	9940	10297	11607	638	62383	8141	3668	29812	16451	8789	16540
6348	31950	3013	66648	17312	21120	11668	49612	4720	29338	9933	10160	11791	613	64037	8083	3674	30256	16522	8746	16722
6354	31970	3039	66697	17433	20906	11592	49640	4614	29219	9912	9705	11695	614	64420	7882	3584	30017	16370	8637	16460
6360	31557	3024	65765	17321	20681	11346	48685	4468	28724	10016	9491	11682	603	63820	7671	3567	29727	16225	8419	16387
6366	31137	2984	66128	17492	20929	11400	48722	4507	28589	10067	9374	11728	596	63860	7705	3509	30160	16445	8309	16507
6372	31921	2961	67052	17892	21218	11772	49381	4524	29350	9934	9154	11688	607	64716	7539	3425	30225	16816	8258	16725
6378	32668	2938	67409	18024	21455	11851	49988	4462	30052	9883	8933	11590	579	64399	7098	3336	30473	16764	8224	16642
6384	32455	2904	68187	18023	21564	11752	50178	4396	29959	9966	9070	11700	571	65059	7114	3357	30681	16621	8250	16372
6390	31907	2906	67708	17788	21175	11660	49034	4416	28840	9923	9671	11532	600	62835	7235	3366	30513	16328	8327	16331
6396	31356	2976	66668	17642	20597	11574	48925	4665	28264	9908	10182	11304	670	62886	7646	3542	30037	16150	8602	16393
6402	30868	3059	65798	17562	20495	11467	49177	4913	28682	9901	10718	11361	716	63691	8086	3695	29720	16053	8893	16456
6408	30732	3059	65852	17331	20758	11370	48564	4994	28623	9859	11124	11263	721	63258	8090	3705	29831	16031	8989	16621
6414	30539	3067	65748	17369	21223	11428	48303	5086	28511	9774	11091	11259	719	62414	8234	3740	29764	16306	9137	16334
6420	30782	3120	66223	17856	21624	11436	48854	5176	28824	9642	11161	11488	687	63322	8178	3743	30001	16157	9138	16332
6426	31466	3126	66985	17622	21517	11421	49311	5215	29397	9643	11455	11484	703	62647	8195	3752	29982	16206	9130	16277
6432	31422	3081	66310	17531	21157	11329	48926	5186	29505	9747	11474	11467	735	60956	8128	3663	29966	16358	9037	16414
6438	31124	3054	67145	17464	21115	11200	48778	5261	29117	9750	11733	11505	748	61374	8105	3674	30287	16386	9086	16680
6444	31438	3071	67371	17209	20994	11237	49679	5395	28685	9722	11868	11491	788	62570	8376	3795	29790	16183	9067	16473
6450	31435	3090	67000	17575	20872	11301	48952	5388	28460	9610	12010	11379	791	61028	8394	3810	29492	16013	9062	16358
6456	30936	3055	66304	17473	20878	11181	48007	5387	28582	9405	12223	11210	808	60608	8317	3743	29845	16037	9004	16410
6462	30610	3091	65426	17077	20770	11178	47935	5456	28702	9405	12386	11533	861	61545	8404	3833	29560	16173	9258	16379
6468	30266	3209	65022	16993	20721	11200	48158	5664	28735	9480	12846	11548	888	60459	8690	3894	29605	16353	9459	16391
6474	30075	3238	65028	17278	20710	11070	47873	5722	28769	9526	12891	11222	894	61968	8719	3957	29816	16345	9555	16412
6480	29979	3194	65874	17117	20791	11022	47366	5622	28683	9510	12618	11379	840	61228	8738	3930	29575	16157	9387	16281
6486	29745	3055	64014	16704	20642	11127	46731	5481	28551	9428	12275	11104	815	60072	8494	3756	29234	15782	9026	16178
6492	29469	2957	62080	16404	20094	10985	46188	5337	28067	9276	12136	10671	862	58136	8105	3605	28832	15145	8881	15973

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
6498	29612	3079	64410	16567	20244	10936	47290	5473	27735	9345	12582	10972	931	59164	8309	3791	29156	15392	9470	16279
6504	29998	3193	65489	17252	20705	10961	48429	5626	28279	9486	13252	11182	976	60161	8680	3879	29921	15926	9901	16593
6510	29901	3221	65472	17005	20289	11114	48092	5684	28500	9270	13765	11360	1011	59931	8928	3959	29828	15961	9925	16743
6516	29443	3239	65825	16765	20293	11246	47825	5839	28403	9033	13951	11208	1058	59283	9143	3992	29364	15879	9945	16753
6522	29772	3288	65582	17235	20879	11044	47739	5980	28786	9101	14241	11080	1105	58640	9145	4049	29214	16100	10069	16764
6528	30324	3345	65560	17391	21011	11043	47973	6065	29136	9204	14725	11064	1188	57125	9308	4089	29382	16184	10068	16678
6534	30614	3270	66948	16967	20957	11063	48693	6173	28979	9125	15163	11047	1233	56696	9317	4140	29467	16186	10061	16763
6540	29980	3215	65946	16875	20695	10946	48522	6168	28930	8878	14804	11140	1230	55373	9228	4076	29127	16092	9967	16755
6546	29363	3264	66088	17000	20394	10628	46487	5953	28625	8340	14436	10895	1132	51602	9041	3992	28656	15704	9796	16391
6552	28084	3210	63366	16165	19482	10311	43914	5781	27638	7545	15292	10296	1177	46463	8810	3935	27382	15090	9423	15883
6558	25296	3111	57419	14717	18059	9578	41041	5804	26637	6571	17037	9614	1370	40196	8676	3890	25473	14400	9508	15319
6564	24494	3148	59471	14809	18016	8950	40122	5714	25432	6492	15565	10074	1188	42201	8656	3897	26173	14843	9606	15598
6570	26657	3204	63260	16439	19453	9680	43335	5685	26569	7405	13751	10601	974	49309	8636	3869	28058	15529	9697	15925
6576	28253	3222	64343	17106	20289	10405	46263	5734	28429	8182	13315	10974	918	53513	8810	3977	29053	15838	9885	16117
6582	28858	3238	65196	17024	20567	10735	47833	5808	29035	8655	13564	11159	918	54614	8947	4035	29060	15858	9948	16415
6588	29058	3242	65446	16849	20665	10708	47475	5770	28680	8873	13511	10966	912	55491	8813	3950	28752	15848	9884	16592
6594	29089	3276	65953	16938	20931	10651	47492	5680	28343	8935	13121	11218	906	57192	8843	4022	29007	16031	10069	16584
6600	29353	3309	66620	17220	20896	10698	47883	5690	28465	9004	13134	11244	886	57048	8847	4049	29537	16112	10093	16555
6606	29599	3272	67404	16959	20511	10790	47208	5721	28526	9062	13195	11088	864	57356	8841	4010	29378	16026	9959	16685
6612	30183	3261	66933	16927	20733	10798	47934	5761	28357	9072	12731	11304	865	57840	8735	4014	29361	16267	9911	16911
6618	30083	3271	66144	17270	21086	10967	48816	5713	28692	9201	12552	11071	797	56529	8791	3990	29896	16180	9905	16803
6624	29732	3261	65906	17392	21492	11067	48813	5622	29132	9401	12028	11036	773	57956	8654	4004	29914	16233	9913	16860
6630	29170	3259	65948	17214	21323	10905	48266	5490	28900	9370	11778	11052	735	58348	8595	3984	29660	16140	10085	16695
6636	28846	3296	66039	17017	21029	10832	48052	5475	28347	9323	12074	11229	769	57774	8643	4010	29766	16172	10159	16564
6642	29319	3303	66363	17145	20859	10838	47834	5345	28174	9278	11767	11327	709	57728	8599	4032	29789	16237	9951	16544
6648	29785	3228	66101	16934	20820	10920	48278	5143	28440	9158	10922	11495	613	57573	8390	3978	29399	16183	9969	16485
6654	30303	3213	65547	16811	21003	10919	48792	4978	28666	9124	10584	11364	571	58007	8217	3921	29304	15604	9866	16579
6660	30078	3237	66034	17183	20786	10797	48677	4922	28327	9159	10676	11087	651	58131	8245	3914	28999	15589	9792	16634
6666	28717	3294	67032	17512	21250	10754	48439	5034	28324	9313	10951	11094	674	57665	8225	3897	29680	16014	9783	16610
6672	28559	3239	66537	17282	21111	10826	48779	5055	28647	9360	10761	11439	672	58174	8204	3867	29207	16180	9585	16186
6678	29140	3185	65566	16652	20668	10679	48617	4826	28577	9104	10059	11471	615	57851	7858	3773	28670	16101	9524	16396
6684	28788	3185	66658	17177	21100	10716	48606	4648	28654	9001	9607	11405	559	57564	7725	3719	29530	16035	9697	16416
6690	28747	3144	67898	17347	20597	10632	48064	4584	28438	9192	9603	11185	561	57559	7821	3726	29579	15879	9614	16432
6696	28793	3182	66615	16896	20443	10667	47955	4724	27792	9196	9961	11057	604	57979	7750	3737	29112	15501	9710	16424
6702	28868	3177	65398	16785	20624	10808	47907	4835	27803	9106	10223	11124	629	56913	7924	3759	29292	15832	9538	16383
6708	28543	3088	65678	16859	20637	10500	47154	4614	28028	9094	9846	11070	622	57222	7801	3648	29230	15791	9192	16311
6714	27718	3115	65255	16976	21102	10578	47084	4404	27826	9031	8981	11036	532	57455	7360	3482	28457	15418	9034	16297
6720	27924	3148	65695	17116	20996	10711	48583	4327	28094	9042	8885	10923	491	57000	7168	3522	29497	15885	9368	16464
6726	28615	3161	67813	16826	20412	10854	48981	4349	28147	9057	9194	11060	507	57320	7291	3581	29997	15987	9372	16274
6732	29188	3196	67792	16951	20881	10666	48009	4463	27610	9203	9390	11225	551	56920	7428	3671	28864	15814	9313	16144
6738	29116	3140	67726	17753	21353	10552	48111	4533	27791	9221	9283	11263	569	56111	7462	3551	29253	16224	9222	16381
6744	28646	3054	67704	17784	21284	10678	48336	4398	27733	9044	9053	11173	534	57347	7327	3522	29446	15896	9148	16628
6750	28530	3104	67312	17549	21029	10621	47137	4329	27726	9074	9184	11164	567	58202	7253	3552	29243	15905	9212	16259
6756	28924	3181	67397	17600	20739	10631	47632	4420	28018	9084	9281	11273	567	57497	7260	3554	29714	16258	9306	16856
6762	29163	3174	68599	17003	20962	10625	48213	4405	28525	9137	9656	11355	641	58989	7514	3602	29519	15985	9332	16791
6768	28980	3229	68408	17226	21176	10506	48328	4470	28523	9155	9746	11185	670	57639	7503	3539	29645	15973	9462	16250
6774	28722	3218	68097	17124	21150	10531	49424	4556	28422	9081	9741	11580	675	58520	7468	3567	29695	15833	9162	16421
6780	28179	3187	66946	17578	21058	10749	48284	4496	28364	9115	9411	11422	605	57406	7197	3462	29756	16087	9031	16620
6786	27756	3196	67045	17174	21188	10752	47440	4303	27833	9083	9261	11188	563	57431	6999	3440	29183	16285	9010	16526
6792	28615	3118	67861	16929	21013	10599	47678	4272	27904	9034	9135	11411	626	58273	7010	3435	29221	15817	9046	16407
6798	29009	3150	67822	16685	21027	10603	48604	4283	27946	9087	9317	11236	646	56903	7106	3467	28931	16208	9079	16286
6804	28759	3171	67318	17114	20890	10540	47578	4408	28312	9132	9535	11080	637	57244	7034	3432	29449	16193	9013	16484
6810	29118	3115	67711	17226	21039	10697	48111	4464	28168	9213	9407	11019	653	58050	7105	3482	29389	16313	8968	16334
6816	28983	3112	68911	17126	20920	10592	47949	4356	27971	8938	9270	11263	643	57831	7012	3477	28984	16205	8961	16284
6822	28879	3105	68554	17370	20682	10541	47195	4390	27704	8857	9631	11358	654	56608	7021	3450	29169	15850	8737	16234
6828	28788	3135	66894	17697	20581	10426	47084	4500	28203	8982	9592	10945	688	56428	7142	3440	28930	16037	8781	15941
6834	28094	3134	66291	16948	20360	10381	47329	4411	27786	8765	9867	11019	689	56822	7019	3455	28530	15626	8876	15817
6840	27439	3099	67201	16755	20512	10547	46930	4509	26323	8710	9983	11016	718	56623	7056	3419	28090	15552	8638	16079
6846	27412	3028	67712	17033	20798	10392	46549	4477	26285	8793	9738	11100	697	56702	7086	3341	28355	15604	8468	15654
6852	27636	2961	66646	16107	20166	10282	46676	4282	26934	8754	9269	11094	661	57315	6792	3284	28124	15416	8415	15576
6858	27213	2823	62222	15593	19439	10023	45961	4203	26585	8460	9001	11053	647	55850	6623	3194	27627	15024	7817	15590
6864	24404	2408	54199	13838	17608	9264	39894	3767	24842	7456	7848	9344	594	47375	6365	2924	24180	14189	6843	13909
6870	21572	2228	51763	12218	15603	7857	33933	3459	21198	6732	7774	8923	547	41529	5494	2618	21371	12167	6981	12029
6876	22758	2455	56178	13322	16962	8030	37835	3849	21540	7326	8425	9526	586	46226	5940	2889	23126	12713	7620	13151
6882	23979	2561	57860	14429	17652	8842	41385	4035	23476	7810	8533	9806	651	48994	6201	2993	24695	14081	7872	14053
6888	23910	2542	57857	14225	17198	8880	40728	3987	23692	7526	8913	9604	655	48583	6447	3044	23927	13526	7857	13548
6894	24139	2589	59532	14327	17614	8782	39918	4097	23914	7494	9201	9744	673	48292	6442	3035	24926	13364	7783	13824
6900	24345	2704	62050	14601	17936	8992	41467	4183	23922	7706	9505	10023	693	49972	6639	3180	24693	14110	8360	14165

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
6906	25379	2810	63683	15154	18786	9119	43189	4575	24276	7722	10171	10403	762	51307	6818	3303	25628	13942	8814	14594
6912	25797	2902	64048	15700	18926	9460	43170	4725	25183	7978	10349	10641	802	52382	7209	3306	25966	14038	8736	14489
6918	25863	2977	63037	15972	19209	9564	43094	4761	24996	8216	10638	10616	775	53094	7079	3399	26848	14697	8865	15258
6924	26020	3044	62953	15723	19351	9726	42979	5092	25609	8074	11595	10692	879	53147	7721	3653	26821	14308	9225	15211
6930	25665	3040	63937	16185	19324	9858	44778	5350	26664	8062	12190	10702	954	52445	8008	3698	26856	14764	9697	15428
6936	25352	3061	64099	15687	19244	9766	44186	5481	26387	8220	12738	10528	995	52373	8046	3725	26869	15004	9647	15458
6942	25639	3165	63652	15101	19062	9594	43951	5616	26114	8174	13362	10720	1102	53468	8213	3879	26648	14759	9796	15549
6948	26243	3178	64711	15471	19117	9794	44257	5727	26042	8088	13686	10711	1144	52612	8515	3918	26866	14409	9829	15443
6954	26352	3199	64290	15816	19799	9824	44563	5645	25751	7989	13716	10538	1138	52468	8438	3894	26650	14722	9911	15732
6960	26910	3300	64037	15948	19928	9874	44931	5786	25742	7913	13850	10423	1191	52894	8478	3909	26551	14616	9967	15609
6966	26265	3288	63634	16293	19372	9853	44614	5958	25757	8191	13871	10811	1182	53762	8532	3972	27056	14792	9777	15690
6972	25440	3129	62828	15957	19283	9912	44383	6000	25664	8348	13941	10703	1239	54658	8528	3888	26968	14825	9676	15528
6978	25853	3137	63841	15342	19220	9616	43602	6007	25965	8221	14249	10734	1281	53103	8523	3851	26291	14461	10048	15364
6984	25958	3173	63846	15858	19388	9508	44005	5999	25711	8075	14647	10667	1312	50938	8587	3894	26783	14747	9962	15393
6990	25981	3226	63796	16260	18928	9352	44669	5977	25863	8052	14683	10574	1296	51143	8578	3860	26858	14866	10062	15603
6996	26044	3295	64091	15363	18848	9647	43802	6164	25561	8044	14959	10675	1341	52074	8631	3975	26396	14526	10072	15380
7002	25519	3295	63046	14865	18483	9262	42942	6175	24873	7923	15080	10590	1369	51198	8684	3918	25913	14524	9860	15131
7008	25006	3305	62158	15312	18916	9351	43334	6252	25288	7809	15305	10482	1383	50874	8691	3927	26389	14242	10169	15183
7014	24599	3288	63289	15529	18467	9368	43299	6198	25477	7851	15734	10425	1439	50952	8739	3977	25929	14133	10333	15055
7020	24434	3272	62481	15160	18807	9303	43074	6355	24482	7952	16232	10280	1508	51171	8972	3968	25754	14335	10297	15152
7026	25049	3340	63529	15422	18764	9339	42694	6488	24377	7855	17055	10407	1599	52578	9046	4007	26424	14408	10469	15113
7032	25274	3382	64342	15920	18405	9306	43202	6875	25360	7952	18210	10339	1794	51979	9376	4160	26242	14404	10697	16055
7038	25505	3389	63123	15950	18723	9293	43901	6985	25189	8084	19393	10235	1913	51663	9538	4226	26338	14700	10959	15949
7044	25847	3440	62577	15917	19077	9364	44017	7228	26029	8091	19408	10410	1910	49062	9963	4247	26665	14661	10938	15653
7050	26368	3371	63682	15551	19051	9353	44004	6819	25799	7886	16344	10573	1527	49687	9561	4086	26426	14252	10320	15374
7056	25854	3270	63523	14830	19150	9368	43203	5924	25817	7758	13797	10440	1068	50206	8820	3933	26972	14136	10028	15160
7062	25095	3270	63362	14861	18685	9200	43997	5604	25908	7760	13513	10167	922	49485	8445	3885	26198	14488	10254	15166
7068	25453	3327	64111	15240	18219	9181	43409	5789	25509	7735	14328	10293	980	51071	8606	3959	26340	14758	10707	15201
7074	25666	3361	64808	15457	18375	9185	43357	5964	25646	7795	14563	10263	1021	49968	8704	4011	26889	14442	10382	15170
7080	24842	3278	64139	15343	18433	9287	44070	5899	25133	7655	14057	9921	1008	49962	8615	3912	25819	14124	10122	15095
7086	24849	3213	62606	15297	18378	9200	43943	5262	24208	7532	12245	10124	833	49257	8027	3729	26100	14306	9977	14950
7092	24894	3320	62371	15049	18493	9190	42902	4968	24554	7777	11473	10298	697	49037	7856	3755	26034	13903	9643	15269
7098	23875	3329	62372	15466	19481	9212	43564	5098	25329	8007	11593	10196	702	49111	7957	3752	26001	14199	9992	15193
7104	23868	3274	62980	15231	19086	9230	42871	5261	24826	7774	12720	10254	801	48775	8091	3801	25848	13808	10031	14697
7110	24086	3282	62755	15425	18631	9344	42666	5572	25078	7550	12924	9968	899	47175	8158	3788	25856	14030	10266	14926
7116	24381	3237	63244	15420	18697	9145	41968	5423	24517	7385	13233	9902	943	48001	8262	3795	25851	13959	9978	15176
7122	24283	3155	62922	15204	18474	8953	43214	5148	24023	7487	11262	10013	772	47843	7994	3629	25897	14031	9462	15124
7128	23799	3078	63034	14727	18328	9027	43371	4520	24259	7684	9968	10049	590	48594	7427	3515	25887	13976	9529	14610
7134	23750	3054	63436	14360	18819	9053	42922	4487	23940	7682	9908	10208	589	49047	7232	3474	26130	13792	9492	14780
7140	24205	3028	62253	14556	18602	9212	42270	4517	24587	7819	10181	10170	623	48255	7266	3510	26019	14007	9354	14620
7146	24344	3070	60719	14897	18137	9141	41832	4476	24569	7743	10728	10050	706	47742	7224	3528	24882	14010	9872	14245
7152	24067	3124	59681	15118	18514	8977	42071	4788	23061	7517	11302	10144	734	48610	7490	3641	25406	14026	9647	14067
7158	23835	3101	59867	14884	18147	8791	41726	4832	24133	7465	11234	9784	718	47304	7480	3698	25064	14282	9813	14235
7164	23140	3050	59924	14718	17419	8824	40168	4754	24116	7211	11396	9629	746	46294	7540	3650	23967	13710	9526	14012
7170	22607	2955	58264	14069	16943	8337	38634	4636	22240	6838	11478	9407	778	45829	7532	3650	23912	13171	9377	13774
7176	22141	2872	55649	13197	16932	8149	37608	4566	21853	6626	11883	9280	812	44716	7620	3624	22808	12881	9223	13912
7182	20812	2802	52480	12537	16148	7961	36990	4641	21726	6609	12062	9061	842	43363	7632	3522	22131	12617	8860	13720
7188	20474	2761	52527	12767	16248	7535	36355	4759	20782	6388	12226	8906	865	42446	7538	3479	22015	12031	9198	13393
7194	21375	2733	54131	12966	15883	7635	34860	4745	20592	6236	11685	8978	862	42952	7610	3468	22303	12137	9265	12993
7200	21333	2791	54296	12870	16244	7862	34766	4567	21389	6416	11394	9046	828	42223	7349	3488	22335	12050	9478	12719
7206	21886	3002	56386	13950	16811	7931	37570	4816	21955	6840	11965	9270	848	44167	7394	3612	23135	12638	9978	13215
7212	22837	3165	58998	14484	16986	8200	39330	5168	22052	7112	12957	9666	905	46258	7913	3756	24621	13032	10122	14314
7218	22427	3196	59179	14622	17384	8413	39196	5356	22668	7335	13458	9720	993	46476	8360	3851	24549	13402	10186	14508
7224	22034	3181	59140	14025	17298	8487	39330	5459	23354	7300	13758	9762	1042	46328	8516	3897	25116	13378	10371	14333
7230	21853	3124	57832	13604	16902	8365	37884	5422	22819	7132	13841	9485	1051	45529	8447	3836	24847	12932	10062	13991
7236	22185	3032	57267	13605	16612	7844	37828	5317	21823	6683	14041	9303	1110	44623	8436	3827	23216	12649	10008	13220
7242	22219	3028	57979	13512	16913	7850	37467	5428	22058	6558	14592	9292	1203	44125	8219	3858	22220	12962	10061	13364
7248	21939	3024	57231	13400	16660	7989	38662	5682	22155	6461	15137	9200	1281	43776	8446	3822	23229	12953	10226	13796
7254	22350	3049	57288	13177	16511	7940	39658	5765	22409	6873	16019	9336	1375	44681	8787	3894	22822	12945	10474	14250
7260	22270	3165	55980	13453	16607	8132	39855	6051	23211	7037	16524	9397	1464	45789	8986	4019	23312	12864	10580	14339
7266	22033	3192	56124	13577	16501	8029	38493	6093	22969	6858	16565	9495	1467	45750	9068	4046	23185	12559	10545	14260
7272	21414	3216	57695	13460	16839	8236	38162	6093	23349	6746	16425	9299	1460	44555	9102	4019	23104	12780	10819	13848
7278	21181	3293	56993	13511	16127	7778	38283	6179	22341	6607	17228	9234	1525	44202	9031	4065	23222	12848	10604	13699
7284	21433	3292	56078	13574	16966	7782	38320	6438	23256	6898	17613	9262	1635	44202	9150	4106	22588	12772	10318	14193
7290	21420	3250	56753	13550	15930	7795	38241	6422	22895	6946	18031	9316	1708	43570	9242	4058	23149	12534	10710	13833
7296	21914	3231	57706	13625	16490	7748	39361	6540	22719	6951	18417	9415	1776	44796	9304	4110	24217	13085	10974	14193
7302	22244	3259	58998	13313	16773	7871	38008	6592	22499	6824	18990	9509	1900	45248	9324	4188	24068	13234	10951	14309
7308	22477	3357	58980	13647	16410	8032	38359	6897	22859	6872	19236	9578	1977	45084	9394	4227	23785	12906	11221	14256

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
7314	22674	3417	59163	13698	17395	8270	39182	7052	23549	6971	19778	9416	2045	45229	9495	4205	23932	12767	11058	14370
7320	22684	3395	59669	14167	17444	8250	39787	6903	23186	7008	19817	9631	2122	45602	9583	4196	23865	13072	10864	14419
7326	22730	3428	59499	14259	16969	8141	39590	6935	23306	7054	20223	9874	2214	46059	9589	4281	23981	13352	11195	14704
7332	22457	3514	60958	14592	17470	8464	39834	7242	24171	7048	20993	9846	2303	46082	9730	4344	24765	13693	11241	14739
7338	22654	3509	62120	14652	17814	8640	39854	7515	24513	7223	20990	9832	2335	46586	9900	4437	24754	13636	11051	14664
7344	22979	3433	61515	14572	17693	8649	39766	7347	24414	7104	21178	9639	2348	46152	9886	4412	24539	13480	11233	14662
7350	22836	3403	59847	14073	17252	8551	39673	7388	24475	7254	21209	9485	2410	45165	9942	4310	23893	13313	11076	14043
7356	22740	3445	58648	13847	17235	8343	39135	7255	23902	7162	21466	9504	2481	45291	9815	4265	24031	13466	11184	14155
7362	22695	3460	58542	14141	17212	8221	39496	7431	23977	6889	21856	9551	2559	44312	9728	4298	24344	12912	11491	14364
7368	22804	3527	58976	14250	17213	8251	39163	7590	24020	6817	22290	9613	2595	43973	9930	4373	24623	13395	11660	14728
7374	22516	3551	59315	13832	17205	8208	39544	7755	23783	6926	22799	9566	2597	45014	10002	4424	24529	13660	11554	14970
7380	22044	3514	59074	13804	17263	8307	39181	7859	24409	6913	22531	9453	2676	46166	10031	4400	24494	13213	11579	14577
7386	21790	3559	58281	13802	17947	8198	38680	7797	23976	7054	22653	9298	2750	45445	10101	4352	23731	13106	11697	14195
7392	21796	3593	57812	13683	17564	8260	39493	7813	23416	7032	22819	9406	2722	44670	9949	4383	23544	13392	11500	14538
7398	21576	3561	58612	13912	17846	8466	41030	7935	23342	7139	22938	9224	2716	44838	9902	4419	24136	13203	11316	14183
7404	21924	3548	58339	14304	18082	8403	40426	7927	23287	7157	23119	9211	2710	44780	9931	4392	23995	13451	11530	14074
7410	21918	3576	57774	13717	17301	8217	39299	7879	23280	6946	23164	9432	2705	44764	9930	4361	23871	13297	11426	14256
7416	21308	3540	58158	13549	17388	8132	39491	8053	23427	6802	23335	9408	2718	44416	9993	4394	23927	12905	11481	14880
7422	21052	3531	59472	14165	17802	8523	40050	8055	23561	6852	23705	9272	2756	42950	10123	4388	24063	13147	11741	14735
7428	21340	3566	59674	14234	17638	8118	39712	8043	23109	7179	23743	9410	2825	42436	10201	4409	24440	13627	11629	14634
7434	21566	3579	59463	14141	17908	8331	39641	8121	23486	6990	23468	9488	2858	43463	10235	4401	23965	13324	11483	14511
7440	21637	3617	60071	14081	17342	8273	39369	8064	24135	6684	23462	9237	2810	43550	10065	4364	22950	13017	11303	14931
7446	21580	3660	59580	14213	17040	8093	38264	7977	23538	6942	23765	9256	2791	42943	10087	4380	23509	13029	11574	14979
7452	21708	3654	58732	14586	16988	8299	38636	8046	23703	7052	23757	9230	2815	42537	10300	4413	24028	12637	11576	14592
7458	22054	3634	58456	13947	16731	8347	39434	8109	23172	7095	23705	9222	2855	42461	10278	4400	24205	12963	11386	14085
7464	21981	3631	58710	13685	16691	8232	39693	8081	22613	6903	23967	9195	2872	42988	10080	4451	23818	13283	11652	14541
7470	21532	3612	58572	13868	17448	8191	39493	8298	23156	6801	23928	9392	2869	43587	10068	4493	23922	13220	11858	14521
7476	21317	3560	57073	14110	17801	8006	39689	8226	23573	6733	24007	9549	2880	43933	10242	4458	24016	12861	11807	14363
7482	21478	3489	57660	14185	17272	8200	39562	8112	23718	6593	23966	9277	2878	43287	10235	4434	24036	12649	11827	14087
7488	21140	3537	59592	14446	17611	8140	39047	8144	23280	6815	24107	9326	2925	42266	10152	4397	23964	13088	11683	14269
7494	20919	3609	60109	14194	17989	8058	38842	8216	22527	6685	24420	9400	2983	42425	10180	4398	23554	12858	11714	14226
7500	21691	3537	59926	13868	17516	8197	39400	8281	22192	6731	24904	9339	3028	43277	10337	4412	23102	13079	11506	14237
7506	22109	3494	58061	13682	16697	8154	38692	8155	22481	6742	24946	9212	3031	43460	10346	4364	23036	12704	11699	14373
7512	21148	3573	57309	13589	17081	7900	37904	8198	22883	6587	24816	9211	3022	43003	10309	4428	23230	12808	11733	14625
7518	21018	3576	58678	13335	16952	7681	37981	8299	22342	6541	24341	9239	3039	42713	10427	4487	23078	12906	11661	14586
7524	20973	3566	58969	13337	17063	7971	38364	8323	22144	6661	24581	9227	3042	42350	10433	4485	22814	12526	11745	14292
7530	20740	3665	58015	13784	17205	8037	38142	8335	22081	6673	25082	9293	3077	41819	10297	4472	22272	12547	11720	14255
7536	21245	3700	58461	13997	17098	7900	38220	8362	22553	6562	25374	9260	3173	41966	10233	4485	22744	12675	11748	14124
7542	21373	3648	59086	14213	16899	7821	37992	8477	22959	6673	25341	9258	3258	41693	10344	4503	23178	12856	11641	14041
7548	21659	3638	57941	14483	16724	7824	37358	8552	22698	6696	25315	9163	3282	40505	10454	4520	23055	12786	11576	14010
7554	21169	3579	57195	14213	16773	7992	37477	8510	22669	6740	25222	9196	3264	40708	10502	4539	22766	12778	11843	13866
7560	20299	3534	57721	13660	16537	7813	36924	8448	22902	6682	25422	9421	3254	41966	10548	4514	23053	12544	11893	14063
7566	20685	3610	58492	13540	16439	7869	36847	8408	23606	6768	25711	9197	3244	42395	10537	4487	22677	12640	11831	14292
7572	20779	3608	58598	13803	16484	7865	37277	8512	23398	6545	25896	8956	3277	41826	10556	4523	23313	12991	11796	14253
7578	20448	3462	58007	13420	16866	7791	37417	8273	22699	6505	25034	8848	3255	40836	10428	4509	23276	13045	11547	14072
7584	19701	2961	52758	11539	15989	7644	35129	7743	22114	6234	21195	8027	2857	39060	10011	4211	21774	12843	10043	13266
7590	15944	1980	38786	8559	12906	7012	28137	6410	19140	5420	14950	6023	2075	33218	8869	3408	17485	11219	6794	11080
7596	9937	1172	23854	5591	8424	5152	17321	4338	13359	3798	9709	4086	1285	23022	6527	2342	10406	7987	4330	7132
7602	6721	1052	18010	4150	5628	3224	10963	2885	8987	2449	8725	3408	874	15754	4300	1694	6666	4995	4113	4660
7608	7615	1408	22460	4820	5473	2634	12528	2808	8130	2101	11762	4101	1015	15234	3844	1842	7312	4676	5704	4918
7614	9822	1702	28903	6097	7775	3258	17316	3816	10606	2740	14213	4991	1437	19215	4990	2406	10842	5928	6992	7187
7620	10316	1663	30201	6420	8561	4002	18278	4339	12836	3343	13121	5023	1549	22445	6016	2627	12288	7167	6476	8048
7626	10004	1566	29460	6237	8158	3987	16876	4052	12574	3347	12139	4936	1308	21694	5976	2484	10946	6951	6351	7371
7632	10325	1665	30750	6465	8123	3798	17650	3933	12279	3335	12906	5095	1170	20691	5709	2465	10896	6952	6747	7178
7638	11672	1859	33321	7392	9042	3963	20184	4159	12877	3511	14165	5638	1239	21954	5847	2691	12415	7783	7403	7916
7644	12976	2086	37001	8466	10196	4409	23595	4702	14295	3739	15481	6356	1365	25516	6416	3018	14136	7965	8196	9328
7650	14250	2478	41543	9317	11174	5080	25916	5441	15865	4086	16488	6868	1426	29637	7245	3264	15345	8437	8836	9734
7656	15878	2777	45737	10657	12397	5546	28302	5733	16839	4624	16037	7535	1324	32444	7713	3387	17033	9520	9177	10146
7662	17221	3027	49573	11887	13730	6135	31180	5681	17641	4947	15967	8100	1145	34568	7839	3563	18614	9986	9977	11648
7668	18304	3268	53502	12364	15371	6745	33324	5975	19170	5263	17265	8548	1183	36667	8230	3855	20327	11240	10832	12822
7674	18698	3409	55905	12394	15943	7120	34726	6429	20479	5731	18325	8886	1393	39056	8887	4085	21606	12020	11167	13157
7680	19190	3409	56221	12476	15998	7398	35809	6733	21053	6008	19130	9409	1530	40231	9326	4224	22081	12165	11509	13548
7686	19881	3382	56961	12592	16010	7405	35934	6836	21612	6076	19020	9390	1544	40095	9435	4307	22689	12447	11487	13462
7692	20079	3428	57604	12752	15850	7468	36287	6690	21681	6148	18320	9107	1441	40512	9389	4254	22592	12556	11343	13798
7698	20530	3542	57009	13032	16104	7600	36783	6416	21925	6273	18648	9113	1369	40728	9372	4229	22662	12759	11344	13813
7704	20984	3589	56343	13293	16475	7582	37502	6779	22994	6508	19131	8852	1487	40871	9511	4323	23181	12843	11605	13636
7710	20872	3605	56902	13465	16356	7579	37492	7077	23187	6642	19724	8864	1688	41799	9705	4385	22847	12768	11770	13869
7716	20775	3704	57892	13671	16190	7637	37070	7032	22592	6616	20404	9171	1852	42637	9806	4416	22331	12747	11638	13828

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
7722	20452	3831	58843	13451	16701	7561	38351	7155	22845	6614	20810	9368	1986	42017	9917	4422	22192	12714	11740	13833
7728	19609	3839	59434	13441	16876	7549	38893	7375	23140	6597	21084	9351	2070	40567	9980	4383	22185	12775	12024	14127
7734	19771	3720	59452	13788	16703	7706	38158	7487	22562	6592	21052	9258	2080	39830	9972	4367	22534	12872	11974	14100
7740	19991	3600	58365	13543	16714	7720	37299	7423	21895	6423	20640	9246	2018	40101	9926	4370	22718	12722	11591	13925
7746	19486	3632	56926	13352	16564	7715	36945	7226	21949	6385	19956	8905	1910	40438	9787	4362	22764	12396	11609	14004
7752	19246	3675	58361	13532	16234	7738	36923	7028	21690	6478	19852	8643	1829	40246	9763	4328	23121	12611	11621	14189
7758	19733	3672	60510	13719	16197	7729	37137	6909	21735	6477	19916	9065	1829	39886	9839	4331	23160	13039	11623	14337
7764	20229	3654	60333	13571	16597	7842	37710	7096	22030	6374	20275	9335	1908	39880	9846	4373	22995	13067	11887	14096
7770	20141	3664	59753	13592	16745	7858	37484	7261	22372	6140	20648	9350	1985	39597	9827	4349	22847	13133	11967	13695
7776	20436	3687	59226	14002	16481	7702	37548	7198	22160	5977	20363	9389	1975	39312	9757	4331	22682	13014	11881	13643
7782	20217	3647	58502	13742	16057	7552	37362	7149	21295	6096	20545	9473	1981	40453	9724	4380	23173	12675	11740	13764
7788	19554	3626	57661	13638	16147	7688	37069	7160	21908	6414	20630	9423	2005	40409	9759	4424	23463	12798	11763	13806
7794	19375	3644	57294	13740	16203	7870	36637	7287	22468	6583	20854	9244	2034	38998	9761	4404	23289	12849	11483	13733
7800	19576	3671	58604	13677	16334	7911	37258	7479	22593	6532	21414	9103	2146	39329	9885	4400	22933	12510	11557	13661
7806	19351	3673	59274	13644	17275	7912	37819	7717	22161	6479	21894	8929	2276	39767	10093	4434	22969	12441	11909	13713
7812	19350	3605	58485	13646	17539	7794	37602	7888	22074	6479	21654	8829	2322	39802	10250	4448	23439	12854	12057	13999
7818	19495	3511	58363	13214	16896	7605	37675	7764	22754	6401	21190	8987	2256	40728	10287	4427	23218	12984	11838	14118
7824	19243	3538	58800	12760	16384	7498	37083	7498	22623	6293	20927	9159	2146	40708	10113	4382	22784	12860	11535	13923
7830	18588	3617	59080	12756	16320	7674	36621	7250	22217	6367	20908	9240	2079	40259	9826	4299	22644	12482	11633	14161
7836	18880	3658	58429	12708	16563	7730	36252	7199	22238	6480	21243	9102	2089	39850	9739	4254	22679	12377	11920	14146
7842	19149	3653	57200	12878	16559	7383	35784	7297	22654	6369	21591	8870	2162	39330	9863	4305	22784	12674	11971	13763
7848	18631	3604	56558	13002	16714	7226	36581	7402	22417	6176	21680	8753	2244	40062	9864	4326	23047	12869	11693	13918
7854	19106	3571	55973	13159	16852	7360	37093	7559	22251	6055	21569	8917	2290	40220	9797	4344	22929	12764	11765	13876
7860	19472	3623	55747	13444	16242	7374	36988	7689	22437	6037	21671	8748	2278	39281	9834	4392	22306	12696	11938	13679
7866	18687	3627	56401	13262	15923	7289	37010	7610	22767	6124	22258	8642	2288	38891	9869	4403	22406	12887	11798	13897
7872	18992	3620	57042	12872	16264	7326	36486	7562	22672	6162	22600	8560	2393	39229	9953	4433	22543	12600	11724	13545
7878	19772	3594	56456	12640	15904	7363	36280	7623	22139	6162	22824	8418	2496	39317	9997	4418	21858	12492	11813	13709
7884	18936	3786	57075	12581	15579	7398	35970	7727	21726	6214	23031	8615	2517	38987	10028	4370	21693	12471	11867	14176
7890	18058	3959	58784	12628	15678	7445	36300	7825	21306	6189	22739	8603	2495	38502	10120	4376	21812	12416	11785	13623
7896	18759	3782	58230	12659	15860	7404	36334	7875	21708	6048	22510	8660	2475	37774	10070	4406	21624	12230	11941	13727
7902	18556	3633	56076	12741	15893	7454	35908	7962	21781	6054	22382	8468	2436	37619	9874	4401	21536	12046	12071	14043
7908	18253	3577	54676	12699	15964	7523	35933	7895	21224	6114	22383	8536	2407	38117	9817	4394	21883	12151	11995	13542
7914	18273	3529	54426	12806	16012	7556	36260	7728	21122	6052	22574	8605	2406	37582	9893	4374	21474	12130	11843	13353
7920	18488	3518	53595	12944	16075	7390	36589	7710	21824	6022	22763	8387	2432	36679	9968	4379	21232	11640	11679	13317
7926	17192	3495	53327	12580	15704	7175	36066	7772	21427	6042	23063	8253	2490	36224	10013	4382	21067	11599	11654	12975
7932	16443	3460	53789	12238	15366	7088	35059	7767	19954	5968	23080	8279	2555	36483	9933	4304	20917	11323	11386	12927
7938	17581	3415	54485	12414	15477	7078	34579	7666	20551	5953	22762	8351	2569	36314	9822	4238	20617	11516	11455	13003
7944	17883	3436	55340	12357	15312	7125	34108	7644	21245	6018	23159	8228	2586	36657	9863	4262	21299	11884	11380	13142
7950	17134	3414	54182	11972	15096	7236	34525	7991	21269	5976	23440	8251	2632	37333	9867	4310	21629	11840	11553	13273
7956	17582	3393	54016	12337	15287	7278	35383	8138	20769	5835	23810	8169	2692	37551	9904	4346	20860	11209	11627	13017
7962	17832	3392	54902	12621	15037	7183	34526	7933	20752	5641	23733	8038	2756	37486	10020	4392	20486	11801	11514	13110
7968	18283	3556	55259	12657	14603	7063	33553	7959	20954	5543	23602	8135	2804	36672	10105	4416	20766	12001	11654	12873
7974	18034	3609	55940	13045	14804	6914	34201	8060	20723	5660	23949	8178	2811	37536	10152	4380	20813	12010	11603	13356
7980	18076	3501	55144	12888	14918	6886	34948	8002	21118	5711	24175	8058	2772	37289	10023	4304	21189	11955	11619	14022
7986	17824	3437	53614	12303	14915	7075	34597	7978	21585	5710	23944	8155	2806	35963	9986	4317	21097	11757	11598	13303
7992	17248	3479	53099	12223	14719	7174	34257	8037	21357	5713	24061	8229	2867	36168	9883	4289	20772	11352	11608	12777
7998	17627	3503	53301	11900	14700	6944	33806	7902	20535	5687	24627	8355	2894	37088	9702	4253	21044	11694	11374	12694
8004	16743	3545	54195	11525	14488	6705	33573	7861	19884	5752	24622	8412	2969	37245	9896	4305	20291	11565	11529	13241
8010	16008	3610	53407	11528	14629	6645	33224	8123	20381	5748	24525	8397	3049	36936	10164	4295	20205	11554	11565	13179
8016	16738	3473	52209	12002	14612	6806	32952	8126	20721	5675	24726	8320	3134	36142	10176	4251	20408	11434	11431	13088
8022	16903	3450	53150	12589	14778	6988	32850	8039	21162	5644	25043	8135	3165	35830	10124	4254	20775	11422	11592	13219
8028	15678	3416	52613	12699	15244	6816	33510	7992	20576	5827	25179	8203	3228	37366	10207	4254	20513	11754	11691	12703
8034	16132	3406	51025	12341	15243	6558	34300	8029	20010	5845	25231	7973	3325	37481	10227	4247	20301	11815	11435	12918
8040	17428	3445	51219	12344	15145	6664	34456	8150	20399	5780	25340	7908	3398	35804	9997	4218	20241	11666	11617	13208
8046	16846	3493	52502	12189	15592	6998	33480	8332	21018	5644	25855	8368	3509	36093	10052	4235	20429	11519	11693	12954
8052	17461	3399	52328	12115	15642	7158	33564	8446	20975	5548	26041	8551	3609	36292	10383	4338	20275	11521	11623	13014
8058	16947	3432	52398	12517	15141	7078	34627	8462	20625	5498	26001	8416	3619	36266	10397	4376	20101	11136	11695	13343
8064	16458	3536	53804	12473	14907	6969	34282	8378	20745	5711	26226	8300	3614	36450	10213	4364	19966	11315	11413	12534
8070	16549	3482	55602	12316	14661	6943	33774	8305	20516	5538	26218	8261	3646	36496	10191	4356	20088	11603	11198	12803
8076	16141	3571	53957	12357	14556	7087	34319	8392	19863	5669	26416	8067	3692	36871	10189	4379	19702	11685	11450	13235
8082	16082	3492	50566	12199	14992	7031	35055	8363	20436	5746	26704	8032	3790	38167	10167	4356	19733	11346	11570	12856
8088	15492	3366	50724	12271	15304	6936	34270	8215	19858	5640	26703	8160	3898	37127	10178	4289	19405	11642	11091	12428
8094	14665	3329	51798	12713	15005	6878	34186	8085	19772	5593	26229	8197	3909	34899	10075	4284	19917	11406	11238	11540
8100	14917	3343	51003	12927	14964	6766	34479	8163	19665	5806	26012	8193	3882	34103	10009	4313	20484	11412	11400	12272
8106	17114	3444	50362	12940	15275	6716	33386	8230	19727	5770	26061	7978	3970	33864	10054	4289	19632	10793	11332	12678
8112	16536	3364	50399	12546	15253	6737	32510	8314	20192	5682	26090	8187	4040	34243	10093	4176	19540	11224	11293	13016
8118	15257	3339	49858	11150	14687	6716	32389	8337	20018	5512	26159	8189	4050	34878	10209	4181	20117	11377	11146	13238
8124	14319	3455	49680	10913	14559	6464	32257	8220	19555	5690	26382	7778	4069	34481	10238	4187	19776	11033	11229	12907

Table 2: Flux (E-16 erg/cm^2.s.Å) (continued)

λ Å	Hip 689	Hip 1055	Hip 4809	Hip 11253	Hip 11352	Hip 12552	Hip 14230	Hip 14669	Hip 17491	HD 25811	AD Leo	Hip 51945	Wolf 424	Hip 64838	Hip 65011	Hip 66008	Hip 70973	Hip 72479	Hip 77725	Hip 78864
8130	13580	3356	48850	11601	14879	6378	32445	8139	20290	5396	26198	7641	4033	34467	10248	4166	18948	11162	11105	12593
8136	13467	3065	47716	11997	14403	6453	32277	8123	19992	5270	26217	7820	3997	33265	9887	4197	18729	11248	11044	12282
8142	13963	3149	48194	11832	14016	6511	31961	8080	19657	4947	26137	7692	3922	33393	9796	4136	18408	11122	11052	12396
8148	14323	3117	49076	11303	14368	6316	30900	7936	18885	4894	25749	7662	3873	34429	9739	4035	18473	10848	10980	12853
8154	13234	3068	48747	11201	13969	6074	29467	7804	19090	5246	25455	7520	3882	34119	9815	4068	17867	11500	10681	12167
8160	13392	3056	48888	11086	13415	6058	28516	7670	19181	5103	25015	7421	3846	33884	9623	4074	16883	11091	10590	11903
8166	13894	3011	48877	10708	13120	5910	29056	7676	17975	4769	23920	7511	3773	32735	9550	4110	16516	10782	10697	11086
8172	14220	2979	47376	10734	13237	6004	29467	7636	19152	4896	23020	7423	3560	31438	9478	4026	17588	11184	10287	11530
8178	13541	2960	47003	11340	13875	6113	29426	7417	19232	4748	22779	7469	3280	32526	9378	3932	17924	10996	9866	11281
8184	12877	2883	48003	11209	14368	5993	29968	7052	18837	4919	22981	7432	3099	32043	9101	3863	18030	10294	9912	11272
8190	13008	3030	48627	11422	14028	5844	29126	6654	18155	5182	23654	7573	3044	30759	8886	3825	16947	10308	10196	11534
8196	14025	3161	49679	11504	14011	5738	29154	6664	17146	5098	24913	7906	3181	33201	9004	3915	17696	9980	10531	11651
8202	13630	3316	49656	11767	13755	5948	29960	6991	17578	5179	25913	7987	3434	33672	9330	4017	18375	10512	10848	11686
8208	12627	3173	48384	11422	13682	5914	29407	7364	17973	5200	25948	7627	3647	35425	9712	4137	18225	9813	10864	11999
8214	12422	2959	47085	10659	12943	6251	29392	7664	17292	5164	25500	7268	3751	33661	10049	4196	17480	10132	10544	12513
8220	12626	2969	46453	10226	12611	6274	29721	7636	17248	4891	25183	7115	3855	32133	10071	4097	16943	9952	10080	11850
8226	13215	2995	46395	10571	11549	6180	29455	7616	17397	5104	25637	7380	3858	30892	9791	4013	17539	10277	9866	11227
8232	14027	3243	48985	10840	11604	6044	29846	7591	17944	5316	26750	7762	3874	30448	9589	4110	17352	10476	10608	11266
8238	13681	3357	49757	11001	11971	6102	30372	7642	19303	5139	27188	8043	4003	32717	9842	4154	17515	10765	10580	11491
8244	13381	3466	50406	11409	12815	6399	30048	7827	18322	5202	27298	8179	4016	33157	10050	4164	17697	10907	11242	11974
8250	13676	3488	49765	11498	13339	6275	29692	8084	18176	5224	27245	7885	4008	32275	10087	4215	17352	10332	10910	12711
8256	13630	3332	49654	11247	13707	6235	29444	8191	19131	5378	26827	7726	4002	33146	9989	4259	17988	10218	10776	12320
8262	13525	3421	51308	11140	14605	6154	29732	8001	19703	5036	26365	7675	3946	31560	10005	4227	17823	11350	11080	11927
8268	13297	3444	49774	11779	14780	5881	30513	7977	18749	4975	25762	7569	3916	31736	9901	4148	17797	10389	11212	12049
8274	12703	3349	49407	11528	14115	5933	30325	8121	18244	5118	25678	7542	3888	32661	9880	4149	17357	10245	10495	11612
8280	11478	3189	50129	10984	13008	6101	29508	7978	18174	4892	25928	7437	3800	31919	9734	4116	17698	9554	10362	11192
8286	12619	3132	49277	10741	12377	6173	28121	7757	18388	4652	25654	7738	3728	33344	9660	4089	17509	9985	10738	11156
8292	12323	3059	49502	12004	12397	6274	28365	7644	18579	4713	25679	8185	3641	31603	9863	4140	17293	10456	10940	11773
8298	12103	3013	48215	12349	12899	6166	28408	7675	18608	4824	25650	8169	3646	31996	10083	4124	16714	9990	10501	11711
8304	13207	3035	47503	12366	13372	6009	27752	7550	18841	4752	25724	7666	3669	32096	9937	4104	16578	9949	10217	12042
8310	12736	3150	47830	11577	13610	5590	28713	7628	19480	4426	25666	7180	3700	30795	9882	4037	17557	10273	10398	11928
8316	12044	3052	47708	11255	13690	5398	30794	7928	18172	4672	25060	6961	3714	33706	9776	4001	17118	10050	10107	11232
8322	12515	2957	48494	11361	13027	5540	30046	7890	17553	4708	25225	7337	3713	33309	9697	3954	16961	9498	10296	11151
8328	13068	3312	48422	10819	12836	5705	30632	7833	17042	4598	26235	7801	3755	31454	9693	4082	16411	9233	10344	11146
8334	13056	3438	48447	10725	12738	5776	30255	7718	18311	4772	26058	7670	3724	30911	9861	4073	16084	10148	10478	11806
8340	11891	3378	49608	11296	12404	5578	30332	7644	17765	5245	25637	7494	3742	31195	9782	3990	16426	9981	10345	11752