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The ROSAT all-sky survey catalogue of optically bright main-sequence stars and subgiant stars⋆

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Abstract. We present X-ray data for all main-sequence and subgiant stars of spectral types A, F, G, and K and luminosity classes IV and V listed in the Bright Star Catalogue that have been detected as X-ray sources in the ROSAT all-sky survey; several stars without luminosity class are also included. The catalogue contains 980 entries yielding an average detection rate of 32 percent. In addition to count rates, source detection parameters, hardness ratios, and X-ray fluxes we also list X-ray luminosities derived from *Hipparcos* parallaxes.

Key words: stars: activity — stars: coronae — stars: late-type — X-rays: stars — catalogs

1. Introduction

X-ray emission from late-type stars is generally attributed to magnetically heated stellar coronae. As suggested by the example of the Sun's corona, the emitting hot ($> 10^6$ K) plasma is believed to be confined by coronal magnetic fields, which ultimately originate from the interaction between rotation and outer convection zones. The solar X-ray luminosity varies approximately between $3\ 10^{25}$ and $1\ 10^{27}$ erg s^{-1} (extrapolated to a $1 - 300$ Å "bolometric X-ray band"; cf. Haisch & Schmitt 1996; Acton 1996) during the solar cycle and is known to be strongly correlated with other magnetic activiy indicators (e.g., sunspot numbers, flare frequency, chromospheric Ca II emission). Hence, it can be regarded as a good activity indicator also for other stars.

In principle, any late-type star should be able to sustain a corona, and henceforth, be an X-ray source. Indeed, already the *Einstein Observatory* detected X-ray emission from a large number of late-type stars (cf. Vaiana et al. 1981; Maggio et al. 1987). Detailed studies of the immediate solar environment (Schmitt et al. 1995; Schmitt 1997) revealed that virtually every late-type dwarf star with spectral type later than A7 can be detected as an X-ray source given data of sufficient sensitivity; Schmitt (1997) argues that late-type stars emit X-rays at least at a level such that the apparent X-ray surface flux $F_{\rm x}$ exceeds $\approx 10^4$ erg cm^{-2} s^{-1}. On the other hand, stellar X-ray luminosities appear to be bounded above by the so-called saturation limit $L_{\rm x}/L_{\rm bol} \sim 10^{-3}$, which can be observed both for field stars and stars in open clusters, where one observes that the spectral type above which stars appear to be saturated moves toward later types with increasing age. This is probably related to the angular momentum evolution of young late-type main-sequence stars, which are spun down by magnetic breaking during their first $\sim 10^8$ yrs on the main-sequence. Enhanced activity can, however, last on much longer timescales, as indicated by example of the Hyades cluster.

Until now, the ROSAT observatory has undertaken the only sensitive X-ray survey (RASS) of the whole sky. These data provide a flux-limited but otherwise unbiased sample of X-ray sources (Voges et al. 1996a). Of the $\approx 1.5\ 10^5$ detected sources, about one third are considered to be coronal. Many of these coronal X-ray sources have optically faint counterparts which require optical follow-up observations. A smaller number of X-ray sources have bright optical counterparts, and we have systematically searched for X-ray emission from these optically bright stars. The results of our survey are presented as catalogs of X-ray data, which have already been published for OB stars (Berghöfer et al. 1996) and late-type giants and supergiants (Hünsch et al. 1998; hereafter HSV98).

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⋆ The catalogue is also available in electronic form via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via http://cdsweb.u-strasbg.fr/Abstract.html

2. RASS data and detection of late-type stars

2.1. The ROSAT all-sky survey (RASS)

During it's first half year of operations, the ROSAT observatory carried out the first all-sky survey with an imaging X-ray telescope between July 1990 and January 1991. Further survey observations were carried out in February 1991 (2 days) and August 1991 (10 days). The whole sky was scanned along great circles perpendicular to the direction to the Sun. Because of the Earth's motion around the Sun, the plane of these circles slowly rotated around an axis through the ecliptic poles, thus covering the whole sphere within 6 months. Each point of the sky was observed several times as the scan paths of 2 degrees width (i.e., the field of view of the PSPC detector) progressed along the ecliptic. Therefore, the data of any particular source consist of a number of "snapshots" of up to 30 s duration, separated by the orbital period of the satellite ($\approx$ 90 min) and distributed over an interval of at least 2 days. Towards the ecliptic poles, the cumulative exposure time increases due to the larger number of scans covering a particular position. Depending on the ecliptic latitude (and down-time due to radiation belts of the Earth), the effective exposure time varies between $\sim$ 100 s and $\sim$ 40 000 s (at the poles), with typical values of $\sim$ 400 s on the ecliptic. Given a typical energy-conversion factor for soft sources of 6 10^{-12} erg cts^{-1} cm^{-2} (cf. Sect. 2.4) the typical detection limit of RASS observations (i.e., $\approx$0.015 cts s^{-1}) amounts to $f_x \approx 10^{-13}$ erg cm^{-2} s^{-1}. For a more detailed description of the RASS we refer to Voges (1992) and Belloni et al. (1994). Details of the ROSAT observatory in general can be found in Trümper (1983) and Trümper et al. (1991), the PSPC detector used during the RASS is described by Pfeffermann et al. (1986).

In February 1997 the remaining gaps left in the all sky survey were filled with a sequence of pointed, partially overlapping PSPC observations so that with the exception of a small region around the strong X-ray source Sco X-1 the whole sky has been imaged with the ROSAT PSPC. In the catalog presented in this paper we include sources detected in this "survey repair" pointed observations; they are marked with an asterisk.

The source detection was performed by means of a maximum likelihood algorithm (Cruddace et al. 1988) in the course of the standard analysis software system (SASS; Voges et al. 1992). The significance of an X-ray source is expressed by the likelihood Li $= -\ln(1-P)$, where P is the probability of existence; e.g., a likelihood of Li $= 7$ corresponds to a source existence probability of 99.9%. The result of the SASS is a comprehensive list of several 10^4 sources, each source described by the sky position in right ascension and declination, its source detection likelihood, count rate, hardness ratio, extent, and corresponding errors. The data for the brighter X-ray sources have recently been released as the ROSAT All-sky Survey Bright Source Catalogue (Voges et al. 1996b), which contains sources with Likelihood $\geq$ 15, count rate larger than 0.05 s^{-1}, and with at least 15 detected photons.

2.2. Selection of stars

We used the Bright Star Catalogue (BSC; Hoffleit & Warren 1991) as input sample for our search of X-ray bright late-type stars. In particular, we extracted all stars of spectral types A, F, G, and K and luminosity classes IV and V (including subtypes like IV-V, IVa, but not III-IV). Note that there are no M-type stars in this sample except for the M V star HR 1703, which is obviously a misclassified giant, according to its *Hipparcos* parallax. We also included those stars lacking an MK classification but with a suffix "d" or "sg", and the composite-spectrum stars that do not have one or both companions classified as a giant (these are treated in HSV98). Finally, we included stars of the above mentioned spectral types but without any indication of luminosity (no MK type, no suffix). This also holds for the many Ap-, Am-, Fp- and Fm-stars. Thus in total, our input sample consists of 3054 stars.

One has to keep in mind that because of the large spread in absolute magnitude of main-sequence stars, very different space volumes are covered by our magnitude-limited sample. While A-type stars are almost completely covered by the BSC up to a distance of $\approx$50 pc, K-types stars are only listed in the BSC if they are within a few pc from the Sun. This selection effect obviously introduces a strong bias to any derived X-ray luminosity function.

About 1 percent of the sky was not included in the original RASS, and we list in Table 1 those stars with less than 50 s exposure time. Note that the stars HR 813 (μ Cet), HR 997, HR 5234, HR 5325, and HR 5568 were detected in the pointed survey repair observations and are included in Table 2.

2.3. Matches between input stars and RASS-sources

The procedure whereby the positions of RASS sources were matched with the stars of our input sample has been extensively described in HSV98. Here, we only report that we have accepted sources with a likelihood greater than 7 within 90 arcsec distance from the input stars. The choice of this cut-off radius is justified by means of a Monte Carlo simulation of 10 000 random positions, i.e., approximately the same number as our BSC input catalog; see HSV98 for details. That means, at 90 arcseconds offset between optical and X-ray position the probability that the X-ray source can be attributed to the star (and not to a background object) is 50%. This differential probability increases very rapidly for smaller values of positional offset (see Fig. 2 in HSV98).

For about 400 X-ray sources extracted in this way and not included in the Bright Source Catalogue (Voges et al.

Table 1. Stars of the input sample with less than 50 s exposure time or which are located in the region of the X-ray bright Vela supernova remnant. Stars marked with * in the last column were detected in the survey repair

HR	Name	Sp. type	V	
479		F5IV-V	6.84	
486		K0V	5.86	
487		K5V	5.82	
506		F8V	5.52	
563	ι Ari	K1Vp	5.10	
729	26 Ari	A9V	6.15	
797		A2V	6.30	
813	μ Cet	F0IV	4.27	*
892		A2IV	5.23	
925	ρ^3 Eri	A8V	5.26	
997		F0IV	5.71	*
1053		A3-5V+G0-5	6.15	
1064		F3-5IV	5.96	
1082		A3V	6.38	
1114	τ For	A0V	6.01	
2820	1 CMi	A5IV	5.30	
2836		A2IV	6.37	
2893		A1V	6.28	
2952		A0	6.59	
2953		K0	6.24	
2987		K0	6.43	
3008	11 CMi	A1Vnn	5.30	
3030		K0	6.04	
3064	9 Pup	G0V:	5.17	
3104		K0	5.99	
3394		F0IV	6.32	
3510	54 Cnc	G1V	6.38	
3530		A1Vn	6.55	
3551		A9IV-V	5.33	
3588		Am	5.18	
4028		A9IV	6.55	
4043		A5V	6.22	
4054	40 Leo	F6IV	4.79	
4070	42 Leo	A1V	6.12	
4148	49 Leo	A2V	5.67	
4579		A0-1V	6.43	
5234		A1V	6.14	*
5325		F9V	6.31	*
5474		ApSi	6.37	
5568		K4V	5.74	*
5639		dG6	6.10	
7067		K5	6.17	
7086		A1V	5.88	
7205		F5IV-V	6.37	
7393	μ Tel	F5V	6.30	
7546	ζ Sge	A3V	5.00	
7579		Am	5.75	
7833		A3m	6.55	
7839		A1m	6.18	
7981		A1Vs	6.52	
8372		K5V	6.38	
8586	39 Peg	F1V	6.42	
8624	41 Peg	A2V	6.21	
8756		A5V	6.28	
8959		A2V	4.74	
8960	74 Peg	A1V	6.26	
8963	75 Peg	A1Vn	5.40	

1996b), we checked the X-ray images by eye for reality. Specifically, we rejected photon distributions that are significantly contaminated by nearby strong sources or that are obviously extended. In questionable cases, we ran the standard source detection algorithm of EXSAS on the source images in different passbands and decided on the basis of the results which sources to retain in our final catalog.

Confining now attention to the 3054 BSC positions identified with late-type main-sequence stars and subgiant stars, we detected X-ray emission from 980 stars, i.e., the average detection rate is 32%. Since the total search area around these 3054 stars is $3054 \cdot \pi \cdot (1.5')^2 = 6.00\square^\circ = 0.0145\%$ of the sphere, and the total number of RASS sources amounts to ∼150 000, we would expect 21.8 chance coincidences of late-type main-sequence stars or subgiants with background (or foreground) X-ray sources (i.e., 2.2% of our detected sources).

2.4. Determination of X-ray fluxes and luminosities

The procedure of determining X-ray fluxes has also been described in HSV98. In this paper, we followed the same procedure, except using a slightly different formula for the calculation of individual energy-conversion factors

$$\mathrm{ECF} = (5.30 \cdot hr + 8.31) \quad 10^{-12}\ \mathrm{erg\,cm^{-2}cts^{-1}} \tag{1}$$

which was derived by Schmitt et al. (1995) from an X-ray study of a complete sample of the nearby main-sequence stars; here hr denotes the hardness ratio defined through

$$hr = \frac{\mathrm{H} - \mathrm{S}}{\mathrm{H} + \mathrm{S}}, \tag{2}$$

where H and S denote the source counts in the hard (0.5 − 2.0 keV) and soft (0.1 − 0.4 keV) passbands of ROSAT. The hardness ratio is an "X-ray colour" that is influenced by both the plasma temperature and the hydrogen column density.

Since the SASS source detection was separately performed in both passbands, and since most of our X-ray sources were detected in both bands, the hardness ratios can be estimated for many stars, although in some cases with quite substantial errors. In a few cases, when the sources were not detected in either the soft or the hard passband, we set $hr = +1.0$ or -1.0 by definition, respectively. We refrain from estimating individual errors for f_x since the error in ECF is very difficult to quantify. In general, we estimate this error to be within a factor of two for the weaker sources and less for the brighter sources. The X-ray luminosities are calculated using the recently available *Hipparcos* parallaxes. We only accepted those parallaxes which exceed their corresponding error by at least a factor of 3. Fortunately, this is the case for almost all of the input stars. Where this criterion is not fulfilled, the distance and X-ray luminosity column entries in Table 2 are left open. The X-ray luminosities are then calculated by the relation

$$L_\mathrm{x} = 4\pi d^2 \times f_\mathrm{x}, \tag{3}$$

where d is the distance to the star.

3. The catalogue

Table 2 contains optical and X-ray data of all 980 detected late-type main-sequence stars and subgiant stars as contained in the BSC and specified in Sect. 2.2.

The columns of the table contain the following information:
Col. 1: HR number (BSC). An asterisk indicates objects detected in the survey repair observations (see Sect. 2.2).
Col. 2: HD number.
Col. 3: the star's name (Bayer or Flamsteed designation).
Col. 4: V magnitude (from BSC).
Col. 5: $B-V$ colour index (from BSC).
Col. 6: MK spectral classification (from BSC).
Col. 7: Distance to the star as given by the *Hipparcos* parallaxes.
Col: 8: binary flag; S: single star, VB: visual binary (if a companion within 90 arcseconds distance is known), SB: spectroscopic binary (as given in the BSC), B: other binary (composite spectrum).
Col. 9: effective exposure time in seconds.
Col. 10: mean PSPC count rate in counts per second.
Col. 11: error of PSPC count rate.
Col. 12: likelihood of existence (cf. Sect. 2.1).
Col. 13: offset in arcseconds between optical and X-ray position.
Col. 14: hardness ratio $hr = (\mathrm{H}-\mathrm{S})/(\mathrm{H}+\mathrm{S})$ (cf. Sect. 2.4).
Col. 15: error of hardness ratio.
Col. 16: apparent X-ray flux (0.1 – 2.4 keV) in 10^{-14} erg cm^{-2} s^{-1} (see Sect. 2.4).
Col. 17: X-ray luminosity derived from the distance as given in Col. 7. The values are given in units of 10^{27} erg s^{-1}.

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Table 2. (See Sect. 3)

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	$\pm$CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
5	123		5.96	0.67	G5V	20.3	VB	508	0.323	0.026	409	4	−0.33	0.08	212.0	104.4
8	166		6.13	0.75	K0V	13.7	S	327	0.687	0.048	624	8	−0.21	0.06	494.3	111.0
9	203		6.18	0.38	A7V	39.1	S	313	0.044	0.015	13	24	0.32	0.31	44.1	80.6
32	661		6.64	0.37	F2V+F6V	66.4	VB	568	0.023	0.009	9	38	−0.42	0.30	14.1	74.1
41	905	23 And	5.72	0.31	F0IV	35.0	S	367	0.042	0.012	26	13	0.11	0.28	37.4	54.7
50	1061	35 Psc	5.79	0.31	F0IV	80.2	SB	634	0.039	0.009	36	9	−0.22	0.21	28.1	216.0
56	1185		6.15	0.05	A2VpSi	93.0	VB	422	0.015	0.007	8	20	−1.00	0.87	20.3	210.0
66	1343		6.45	0.37	F4IV-V	48.9	S	326	0.019	0.009	9	44	−1.00	0.43	26.1	74.6
88	1835	9 Cet	6.39	0.66	G2V	20.4	S	321	0.289	0.033	209	12	−0.29	0.10	195.7	97.3
98	2151	β Hyi	2.80	0.62	G2IV	7.5	S	195	0.070	0.023	15	19	−1.00	0.25	95.1	6.4
104	2421		5.17	0.03	A2V s	81.2	SB	421	0.032	0.011	14	34	0.52	0.30	35.7	281.7
108	2475		6.43	0.59	G0V	32.2	VB	341	0.176	0.025	98	3	−0.39	0.13	110.0	136.9
120	2726		5.69	0.35	F2V	45.1	S	193	2.241	0.110	999	8	0.13	0.04	2016.7	4900.2
140	3158		5.57	0.47	F3IV-V	25.6	S	216	0.037	0.015	12	38	−1.00	0.31	50.4	39.6
142	3196	13 Cet	5.20	0.56	F8V	21.0	SB,VB	421	1.116	0.076	588	3	−0.20	0.06	809.1	428.9
143	3229	14 Cet	5.93	0.44	F5IV	55.6	S	553	0.119	0.017	115	7	−0.13	0.13	90.8	336.6
147	3302	λ^2 Phe	5.51	0.44	F6V	36.2	S	184	0.224	0.039	61	17	−0.22	0.16	160.2	251.5
172	3794		6.49	0.92	G5	154.3	S	223	0.199	0.033	81	12	0.29	0.15	196.4	5597.4
187	4089	ρ Tuc	5.39	0.50	F6V	40.7	SB	106	0.118	0.038	27	4	0.14	0.35	106.9	211.5
191	4150	η Phe	4.36	0.00	A0IV	73.7	VB	189	0.060	0.022	12	23	−0.27	0.32	41.5	270.0
196	4222		5.42	0.04	A2V s	107.8	S	469	0.027	0.010	10	37	−0.06	0.34	21.8	303.1
200	4295		6.33	0.00	F3V	40.6	S	595	0.024	0.008	15	22	−0.17	0.29	17.8	35.0
209	4391		5.80	0.64	G1V	14.9	VB	215	0.335	0.044	130	7	−0.39	0.11	208.9	55.8
219	4614	η Cas	3.44	0.57	F9V+dM0	6.0	SB,VB	381	0.138	0.022	71	17	−0.72	0.11	62.0	2.6
222	4628		5.75	0.88	K2V	7.5	S	353	0.043	0.013	17	30	−1.00	0.16	58.7	3.9
225	4676	64 Psc	5.07	0.51	F8V	23.9	SB	418	0.024	0.009	11	9	−0.72	0.28	10.7	7.4
235	4813	φ^2 Cet	5.19	0.50	F7IV-V	15.5	S	565	0.073	0.013	54	8	−0.71	0.11	33.1	9.5
244	5015		4.82	0.53	F8V	18.6	SB	326	0.044	0.014	12	28	−0.71	0.24	19.9	8.2
251	5156		6.46	0.44	F6IV-V	74.5	VB	328	0.038	0.013	12	38	0.17	0.31	35.1	232.8
252	5190	λ^1 Tuc	6.22	0.56	F7IV-V	61.2	VB	288	0.020	0.011	8	35	−1.00	0.75	27.9	125.2
297	6210		5.84	0.54	F6V	80.2	S	428	0.052	0.013	29	15	0.36	0.24	53.0	408.0
301	6288	26 Cet	6.04	0.27	F1V	56.6	VB	418	0.034	0.012	13	6	0.17	0.31	31.4	120.5
303	6301		6.19	0.43	F7IV-V	42.0	S	447	0.073	0.014	50	7	0.12	0.19	65.4	137.9
305	6314		6.72	0.31	F0Vn	84.4	S	452	0.049	0.012	29	7	−0.19	0.23	36.1	307.4
313	6479	77 Psc	6.35	0.38	F3V	45.7	VB	325	0.055	0.016	21	17	−0.58	0.21	29.0	72.6
314	6480	77 Psc	7.25	0.49	F6V	44.1	VB	325	0.055	0.016	21	24	−0.58	0.21	29.0	67.4
325	6668		6.37	0.23	A7V	71.6	S	335	0.038	0.013	15	26	−0.39	0.28	24.0	147.2
327	6680	78 Psc	6.25	0.40	F5IV	41.9	S	453	0.080	0.015	48	5	−0.21	0.19	57.4	120.6
328	6695	ψ^2 Psc	5.55	0.13	A3V	49.4	S	241	0.069	0.019	26	5	−0.22	0.27	49.2	143.9
329	6706	30 Cet	5.82	0.43	F7IV	47.7	S	247	0.047	0.016	16	20	0.22	0.31	44.5	121.2
340	6920	44 And	5.65	0.60	F8V	52.7	S	384	0.107	0.018	50	26	0.04	0.18	91.0	302.3
357	7238		6.26	0.42	F5V s	72.3	S	734	0.094	0.013	93	15	0.06	0.13	81.2	507.1
358	7259		6.52	0.48	F7IV	71.2	S	331	0.048	0.014	25	19	0.01	0.29	39.9	242.1
361	7344	ζ Psc	5.24	0.32	A7IV	45.3	SB,VB	421	0.093	0.016	73	32	−0.26	0.15	64.5	158.2
362	7345	ζ Psc	6.30	0.49	F7V	45.3	SB,VB	421	0.093	0.016	73	10	−0.26	0.15	64.5	158.2
366	7439	37 Cet	5.13	0.46	F5V	24.4	VB	335	0.126	0.021	84	13	−0.01	0.16	104.0	74.0
370	7570	ν Phe	4.96	0.58	F8V	15.1	S	324	0.039	0.013	16	10	−1.00	0.47	52.7	14.3
377	7788	κ Tuc	4.86	0.47	F6IV	20.4	VB	110	0.522	0.072	116	14	−0.40	0.12	322.9	161.3
378	7804	89 Psc	5.16	0.07	A3V	67.4	SB	421	0.017	0.008	7	61	0.02	0.45	14.4	78.3
391	8272		6.45	0.00	F4V	57.7	VB	379	0.076	0.017	42	3	−0.24	0.20	53.8	214.2
396	8375		6.29	0.83	G8IV	58.9	S	354	0.065	0.018	22	48	0.36	0.25	66.7	276.9
398	8424		6.49	0.00	A0Vnn	157.7	S	695	0.012	0.005	9	26	−0.05	0.44	9.8	292.1
404	8556		5.91	0.41	F3V	44.8	SB,VB	445	0.041	0.012	16	13	−0.63	0.23	20.3	48.8
405	8589		6.14	0.91	G5	102.5	S	350	0.062	0.016	22	87	−0.52	0.21	34.7	435.3
410	8673		6.31	0.47	F7V	38.3	S	359	0.062	0.016	24	13	−0.60	0.20	32.0	56.1
413	8723	ρ Psc	5.38	0.39	F2V:	26.1	S	380	0.195	0.025	130	10	−0.17	0.12	144.5	117.6
415	8774		6.27	0.46	F7IVb vs	42.6	S	369	0.078	0.017	44	8	−0.42	0.18	47.4	103.1
417	8799	ω And	4.83	0.42	F5IV	28.3	S	254	0.254	0.034	104	10	−0.30	0.12	170.6	163.5
419	8803		6.58	−0.04	B9V+A8V	160.0	VB	426	0.035	0.010	18	18	0.34	0.27	35.0	1071.6
427	9021	38 Cas	5.81	0.47	F6V	29.2	SB	637	0.077	0.013	91	7	−0.22	0.15	55.3	56.6
428	9030		6.14	0.08	A2V s	86.7	SB	570	0.027	0.008	19	14	−0.33	0.27	17.5	157.4
433	9132	48 Cet	5.12	0.02	A1V	67.9	VB	237	0.078	0.023	17	31	−0.02	0.26	64.0	353.3
447	9544		6.28	0.46	F4V	80.6	S	285	0.067	0.018	28	13	−0.23	0.25	47.5	369.1
458	9826	υ And	4.09	0.54	F8V	13.5	SB	354	0.135	0.023	66	31	−0.70	0.11	62.1	13.5
462	9906	τ Scl	5.69	0.33	F2V	62.0	VB	512	0.037	0.011	21	6	−0.22	0.27	26.4	121.2
463	9919	π Psc	5.57	0.35	F0V	33.8	S	416	0.042	0.012	19	18	−0.56	0.20	22.7	31.0
492	10453		5.75	0.44	F5V+F7V	37.3	VB	425	0.037	0.011	21	18	−0.38	0.25	23.2	38.5
494	10481		6.17	0.42	F2V	41.9	S	380	0.100	0.019	51	19	−0.34	0.16	65.1	136.8
499	10543		6.21	0.10	A3V	79.2	VB	250	0.244	0.034	120	9	0.17	0.13	224.7	1685.7
508	10697	109 Psc	6.27	0.75	G3Va	32.6	S	390	0.020	0.008	10	39	−1.00	0.33	27.5	34.9
509	10700	τ Cet	3.50	0.72	G8V	3.6	S	445	0.052	0.013	24	11	−1.00	0.08	70.4	1.1
511	10780		5.63	0.81	K0V	10.0	S	572	0.360	0.026	505	7	−0.60	0.05	184.8	22.0
512	10800		5.87	0.61	G2V	27.1	S	291	0.260	0.032	156	7	−0.08	0.12	204.7	180.3
514	10830	ϵ Scl	5.31	0.39	F1V	27.4	VB	431	0.260	0.026	251	6	−0.32	0.09	172.2	155.0
518	10874		6.32	0.43	F6V	58.3	S	305	0.031	0.013	7	17	−0.37	0.40	19.4	79.0
526	11031		5.82	0.29	A3V	101.6	SB,VB	326	0.031	0.012	9	30	−0.20	0.37	22.3	275.9
529	11151		5.90	0.43	F5IV	44.6	S	326	0.019	0.010	8	82	0.26	0.65	18.8	44.7
534	11257		5.94	0.30	F2V w	42.6	VB	397	0.016	0.008	7	2	−1.00	0.87	22.5	48.8
535	11262		6.37	0.52	F8V	27.1	VB	521	0.025	0.009	12	13	−0.29	0.31	16.9	14.8
544	11443	α Tri	3.41	0.49	F6IV	19.7	SB	284	1.005	0.062	875	7	−0.04	0.06	813.8	376.3

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	f_{x14}	L_{x27}
569	11973	λ Ari	4.79	0.28	F0V	40.8	SB,VB	254	0.066	0.018	27	45	−0.50	0.20	37.2	74.2
575	12111	48 Cas	4.54	0.16	A3IV	35.8	SB,VB	678	0.383	0.025	677	8	−0.12	0.06	293.7	451.1
581	12230	47 Cas	5.38	0.31	F0Vn	33.6	S	763	2.178	0.055	999	2	−0.05	0.02	1752.2	2360.7
582	12235	112 Psc	5.88	0.62	G2IV	31.1	S	366	0.028	0.012	7	15	0.11	0.39	24.9	28.8
591	12311	α Hyi	2.86	0.28	F0V	21.9	S	378	0.055	0.015	21	3	−1.00	0.08	75.0	42.9
593	12363	σ Hyi	6.16	0.44	F5-6IV-V	41.3	S	209	0.094	0.026	21	12	−0.18	0.25	69.5	142.0
637	13445		6.12	0.82	K1V	10.9	S	375	0.058	0.016	24	27	−0.63	0.18	28.9	4.1
638	13456		6.01	0.39	F5V	50.0	S	373	0.035	0.012	10	10	−0.32	0.36	22.9	68.4
647	13594		6.06	0.40	F4V	41.5	VB	109	0.149	0.043	18	44	−0.17	0.27	110.1	227.4
650	13612	66 Cet	5.54	0.57	F8V	46.1	VB	345	0.031	0.012	8	29	−0.46	0.31	18.1	45.9
656	13871	20 Ari	5.79	0.44	F6IV-V	40.1	S	218	0.030	0.013	11	7	−1.00	0.34	40.6	78.1
657	13872	21 Ari	5.58	0.49	F6V	48.1	VB	239	0.076	0.022	21	10	−0.18	0.25	56.1	155.7
660	13974	δ Tri	4.87	0.61	G0.5V	10.8	SB	299	0.423	0.039	285	5	−0.38	0.09	266.6	37.5
692	14691		5.46	0.35	F0V	29.9	S	323	0.036	0.013	12	12	−0.52	0.27	19.8	21.2
695	14802	κ For	5.20	0.60	G0Va	21.9	S	266	0.869	0.060	726	9	−0.07	0.06	690.1	397.1
707	15089	ι Cas	4.52	0.12	A5pSr	43.4	VB	626	0.228	0.020	338	6	−0.20	0.08	165.1	372.1
710	15144		5.83	0.15	A6VpSrCr	65.6	SB,VB	358	0.092	0.020	29	18	0.12	0.19	82.0	422.6
728	15524		5.92	0.41	F6IV	51.0	S	228	0.142	0.028	62	8	0.53	0.18	157.8	491.9
740	15798	σ Cet	4.75	0.45	F4IV	25.8	S	352	0.025	0.011	9	34	−1.00	0.24	33.9	27.0
741	15814	29 Ari	6.04	0.54	F8V	28.7	SB	122	0.306	0.055	58	15	−0.39	0.16	191.3	188.6
753	16160		5.82	0.98	K3V	7.2	SB,VB	232	0.058	0.019	19	14	−0.65	0.20	28.4	1.8
755	16170		6.24	0.52	F6V	53.4	S	577	0.033	0.010	13	9	−0.31	0.25	22.1	75.6
756	16176		5.90	0.48	F5V	54.3	S	304	0.032	0.012	12	21	−0.26	0.35	22.5	79.2
764	16232	30 Ari	7.09	0.50	F4V	39.4	VB	243	0.472	0.046	292	8	−0.02	0.09	387.6	721.0
772	16417	λ^2 For	5.79	0.66	G5IV	25.5	S	448	0.028	0.010	12	5	−1.00	0.20	37.8	29.5
780	16589		6.49	0.52	G0IV	53.4	SB	522	0.081	0.015	57	4	−0.05	0.18	64.8	221.6
781	16620	ϵ Cet	4.84	0.45	F5V+F6V	27.0	SB,VB	256	0.053	0.018	13	9	−0.44	0.28	31.4	27.5
784	16673		5.78	0.52	F6V	21.5	S	225	0.156	0.030	54	13	−0.80	0.10	63.5	35.2
788	16739	12 Per	4.91	0.59	F9V	24.7	SB,VB	558	0.034	0.010	15	22	−0.57	0.26	17.8	13.0
789	16754		4.75	0.06	A2V	39.8	VB	421	0.473	0.035	450	3	−0.16	0.07	353.0	667.8
790	16765	84 Cet	5.71	0.52	F7IV	21.6	VB	149	0.467	0.059	196	2	−0.12	0.12	358.3	200.5
799	16895	θ Per	4.12	0.49	F8V	11.2	VB	527	0.152	0.019	140	4	−0.69	0.08	70.9	10.7
802	16920	ζ Hor	5.21	0.40	F4IV	48.8	SB	404	0.130	0.020	76	9	0.03	0.15	109.7	312.5
803	16955		6.35	0.08	A2Vp:	107.9	VB	424	0.021	0.010	9	17	0.11	0.46	18.9	262.5
804	16970	γ Cet	3.47	0.09	A3V	25.1	VB	224	0.376	0.044	159	14	−0.11	0.11	290.8	219.9
810	17051	ι Hor	5.41	0.56	G0V	17.2	S	825	0.281	0.045	70	7	−0.28	0.14	192.0	68.3
∗813	17094	μ Cet	4.27	0.31	F0IV	25.8	SB,VB	1263	0.101	0.009	295	22	−0.64	0.07	49.7	39.7
815	17138		6.18	0.18	A3V	62.5	SB	461	0.670	0.040	910	4	0.10	0.05	592.3	2771.5
817	17168		6.22	0.04	A1V	107.1	SB	410	0.044	0.013	20	11	0.17	0.28	40.4	554.6
818	17206	τ^1 Eri	4.47	0.48	F6V	14.0	SB	288	0.906	0.059	559	11	−0.22	0.06	647.5	151.3
820	17240		6.30	0.00	A9V	47.1	VB	565	0.035	0.009	24	24	−0.05	0.26	28.0	74.2
826	17390		6.49	0.38	F3IV	45.1	S	253	0.063	0.019	22	15	−0.01	0.27	51.8	125.9
827	17438		6.47	0.39	F2	38.2	S	283	0.293	0.035	115	19	−0.26	0.11	202.9	354.2
853	17864		6.36	0.05	A0V	99.8	S	490	0.130	0.020	88	13	0.00	0.13	107.7	1283.4
855	17904	20 Per	5.33	0.41	F4IV	72.1	SB,VB	488	0.028	0.009	13	21	−1.00	0.25	38.0	236.2
857	17925		6.04	0.87	K2V	10.4	S	220	1.200	0.077	883	8	−0.11	0.06	927.2	119.6
860	17948		5.59	0.45	F4V	26.5	S	550	0.028	0.009	18	30	−1.00	0.18	38.5	32.3
863	18149	ψ For	5.92	0.44	F6IV	59.4	S	286	0.139	0.025	57	13	−0.23	0.16	98.6	416.6
869	18256	ρ^3 Ari	5.63	0.43	F6V	35.4	SB	439	0.052	0.013	25	14	−0.36	0.23	33.0	49.5
878	18404	47 Ari	5.80	0.41	F5IV	31.8	S	213	0.119	0.027	32	12	−0.72	0.16	53.6	65.0
884	18466		6.29	0.47	A2-3V:+G:	144.5	SB	405	0.125	0.020	102	5	0.37	0.14	128.5	3210.3
901	18692	ζ For	5.71	0.40	F2V	32.3	S	288	0.192	0.031	40	71	−0.65	0.14	93.5	117.0
913	18894		6.19	0.60	G0IV-V	32.5	SB	81	0.141	0.051	9	63	−0.26	0.31	97.6	123.0
916	18928		6.36	0.00	F0V	50.0	S	540	0.017	0.007	9	4	−0.70	0.21	7.9	23.5
937	19373	ι Per	4.05	0.59	G0V	10.5	S	523	0.021	0.007	13	55	−1.00	0.48	29.1	3.9
943	19545		6.19	0.16	A5V	57.6	S	231	0.042	0.017	13	20	−0.02	0.40	34.7	137.9
963	20010	α For	3.87	0.52	F8V	14.1	VB	212	2.792	0.168	916	5	−0.08	0.05	2201.8	524.6
971	20149		5.52	0.01	A1V s	133.0	SB	466	0.037	0.010	38	13	0.74	0.23	45.1	954.9
975	20193		6.31	0.37	F4V vw	62.0	VB	460	0.035	0.010	22	8	−0.27	0.29	23.9	110.1
976	20210		6.25	0.28	A1m	66.8	SB,VB	457	0.050	0.012	27	6	−0.06	0.23	40.4	215.8
978	20277		6.06	0.99	G8IV	168.9	S	464	0.588	0.036	845	12	0.23	0.06	560.1	19121.5
988	20395	14 Eri	6.14	0.40	F1V	34.7	S	195	0.063	0.022	15	5	−0.55	0.25	33.8	48.7
996	20630	κ^1 Cet	4.83	0.68	G5V	9.2	S	286	1.201	0.095	472	11	−0.36	0.07	768.9	77.2
∗997	20631		5.71	0.37	F0IV	36.6	SB,VB	1802	0.094	0.008	392	11	−0.39	0.07	58.9	94.3
1001	20675		5.93	0.43	F6V	45.7	S	507	0.046	0.011	36	3	−0.26	0.24	32.0	80.0
1006	20766	ζ^1 Ret	5.54	0.64	G2.5VFe1Hδ1	12.1	S	328	0.095	0.020	35	16	−0.91	0.09	33.1	5.8
1008	20794		4.27	0.71	G8V	6.1	S	519	0.026	0.009	10	16	−0.76	0.30	11.1	0.5
1019	20995		5.61	−0.03	A0V	161.6	VB	477	0.028	0.009	17	26	0.19	0.33	26.0	811.7
1039	21379		6.28	−0.02	A0V s	104.4	SB	419	0.030	0.011	13	4	−0.14	0.32	23.0	299.9
1042	21423	χ^1 For	6.39	0.08	A1IV	99.9	S	134	0.175	0.039	38	81	0.65	0.17	205.4	2452.1
1077	21903		6.46	0.39	F3V	56.0	VB	576	0.061	0.012	63	13	−0.23	0.17	43.5	163.3
1083	22001	κ Ret	4.72	0.40	F5IV-V	21.4	VB	356	0.071	0.017	32	16	−0.50	0.19	40.0	22.0
1084	22049	ϵ Eri	3.73	0.88	K2V	3.2	VB	374	2.822	0.233	327	3	−0.44	0.07	1687.0	20.9
1089	22211		6.49	0.63	G0	134.6	S	343	0.096	0.018	68	14	0.78	0.15	119.5	2589.1
1099	22468		5.71	0.92	G9V	29.0	SB,VB	422	18.970	0.965	999	2	−0.07	0.05	15060.3	15121.0
1107	22701		5.86	0.37	F5IV	40.9	S	596	0.107	0.015	122	2	0.24	0.13	103.0	206.3
1120	22905		6.33	0.88	G5	197.6	S	341	0.037	0.013	13	12	−0.21	0.29	26.9	1257.8
1136	23249	δ Eri	3.54	0.92	K0+IV	9.0	S	532	0.019	0.008	9	24	−0.66	0.29	9.2	0.9
1174	23793	30 Tau	5.07	−0.13	B3V+F5V	173.3	VB	366	0.048	0.013	34	14	0.42	0.26	50.4	1809.8
1189	24071		5.40	0.01	A1V	49.4	VB	70	0.099	0.044	10	90	−0.69	0.65	46.1	134.7

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	f_{x14}	L_{x27}
1196	24164		6.34	0.30	A5m	60.1	S	495	0.041	0.011	21	10	−0.07	0.26	32.6	141.0
1201	24357		5.97	0.34	F4V	41.4	S	328	0.056	0.015	30	7	−0.25	0.23	39.2	80.5
1210	24546	43 Per	5.28	0.41	F5IV	40.8	SB	616	0.025	0.008	13	12	−1.00	0.18	34.7	69.1
1211	24554	32 Eri	6.14	0.09	A2V	105.7	VB	352	0.207	0.025	169	1	0.10	0.12	183.2	2448.8
1218	24740	32 Tau	5.63	0.30	F2IV	44.8	S	325	0.045	0.013	23	10	−0.27	0.28	31.2	75.1
1220	24760	ϵ Per	2.89	−0.18	B0.5V+A2V	165.0	SB,VB	514	0.069	0.013	46	17	−0.10	0.18	53.4	1741.3
1233	25102		6.37	0.42	F5V	39.3	S	323	0.111	0.021	48	5	−0.30	0.17	74.8	138.5
1238	25202		5.89	0.32	F4V	45.5	SB	307	0.023	0.010	7	34	−1.00	0.59	31.0	76.8
1245	25346		6.05	0.44	F2IV	61.7	S	815	0.101	0.013	128	9	−0.02	0.11	82.9	377.8
1249	25457		5.38	0.50	F5V	19.2	S	320	1.524	0.100	774	10	−0.03	0.06	1242.2	549.6
1254	25570		5.46	0.37	F2V	36.0	S	312	0.155	0.024	90	8	−0.23	0.14	110.3	170.7
1257	25621		5.36	0.50	F6IV	34.6	S	323	0.239	0.030	197	12	0.26	0.11	231.7	332.7
1262	25680	39 Tau	5.90	0.62	G5V	16.7	S	178	0.424	0.051	174	8	−0.26	0.11	293.8	98.3
1269	25867	ψ Tau	5.23	0.34	F1V	27.6	S	421	0.041	0.012	22	6	−0.17	0.27	30.2	27.5
1278	25998	50 Per	5.51	0.46	F7V	21.3	S	473	0.843	0.044	999	11	−0.14	0.05	638.4	347.7
1279	26015		6.01	0.40	F3V	47.0	SB,VB	252	0.033	0.014	8	16	−0.17	0.40	24.6	65.1
1282	26101		6.32	1.18	K0	118.6	S	517	0.015	0.007	7	53	−1.00	0.56	20.7	348.3
1287	26322	44 Tau	5.41	0.34	F2IV-V	59.8	S	430	0.053	0.013	24	21	0.14	0.24	47.9	204.9
1309	26690	46 Tau	5.29	0.36	F2V+F5V	37.0	SB,VB	259	0.102	0.023	55	11	−0.60	0.15	52.5	86.0
1314	26764		5.19	0.05	A2Vn	108.2	SB	527	0.032	0.009	21	6	0.51	0.34	35.6	498.5
1319	26911	48 Tau	6.32	0.40	F5V	44.4	S	322	0.045	0.013	19	28	−0.52	0.25	24.8	58.6
1321	26913		6.93	0.70	G5IV	20.9	S	271	0.502	0.044	304	32	−0.43	0.08	302.9	158.2
1322	26923		6.31	0.59	G0IV	21.2	S	271	0.502	0.044	304	36	−0.43	0.08	302.9	162.7
1324	26961		4.61	0.04	A2V	97.6	SB	516	0.469	0.031	716	4	0.19	0.06	437.2	4978.2
1325	26965	o^2 Eri	4.43	0.82	K1-V	5.0	VB	341	0.179	0.025	93	43	−0.14	0.13	135.8	4.1
1330	27084		5.45	0.22	A7V	79.4	S	515	0.302	0.025	364	5	−0.02	0.08	248.0	1872.0
1331	27176	51 Tau	5.65	0.28	F0V	54.8	SB,VB	422	0.072	0.015	46	3	0.11	0.20	64.0	230.0
1341	27309	56 Tau	5.38	−0.14	A0pSi	96.9	S	414	0.161	0.022	100	15	−0.22	0.12	114.7	1288.9
1342	27322		5.88	0.00	A3V	95.0	S	523	0.023	0.008	11	16	0.94	0.42	30.8	332.7
1351	27397	57 Tau	5.59	0.28	F0IV	44.8	SB,VB	416	0.093	0.017	63	10	−0.16	0.17	69.4	166.8
1354	27429		6.12	0.37	F3:V	47.3	SB	447	0.094	0.016	60	19	−0.52	0.14	52.4	140.6
1355	27442	ϵ Ret	4.44	1.08	K2IVa	18.2	VB	1131	0.013	0.005	12	19	−1.00	0.28	17.3	6.9
1358	27483		6.17	0.46	F6V	45.9	SB	412	0.131	0.020	87	4	−0.50	0.12	73.9	186.1
1362	27536		6.27	0.91	G8IV:	63.2	S	295	0.273	0.033	164	3	0.16	0.11	249.6	1191.9
1368	27628	60 Tau	5.72	0.32	A3m	45.7	SB	431	0.031	0.011	11	16	−0.77	0.36	13.0	32.6
1374	27710		6.01	0.35	F0IV-V	54.3	VB	413	0.130	0.020	93	39	−0.15	0.14	97.5	344.7
1376	27749	63 Tau	5.64	0.30	A1m	47.2	SB	457	0.022	0.009	7	9	−0.34	0.35	14.4	38.6
1379	27786	56 Per	5.76	0.40	F4V	41.7	VB	463	0.173	0.021	145	8	−0.36	0.11	110.5	229.5
1380	27819	δ^2 Tau	4.80	0.15	A7V	44.7	SB	506	0.031	0.009	26	80	0.97	0.26	42.2	101.1
1385	27901		5.98	0.37	F4V	49.0	SB	568	0.061	0.012	55	2	−0.19	0.17	44.3	127.4
1389	27962	δ^3 Tau	4.29	0.05	A2IV	45.4	SB,VB	545	0.044	0.011	27	31	−0.66	0.16	21.0	51.7
1391	27991	70 Tau	6.46	0.49	F7V	46.6	SB,VB	534	0.215	0.022	247	13	−0.34	0.09	139.8	362.8
1394	28052	71 Tau	4.49	0.25	F0V	47.9	SB,VB	559	0.925	0.041	999	20	−0.05	0.04	744.0	2045.7
1404	28246		6.39	0.44	F6V	37.0	S	826	0.123	0.014	115	30	−0.17	0.10	91.1	149.4
1405	28255		6.29	0.66	G4V	27.1	VB	544	0.051	0.012	23	18	−0.88	0.20	18.7	16.4
1406	28271		6.40	0.52	F7V	54.3	SB,VB	451	0.347	0.029	372	4	0.17	0.08	320.0	1128.4
1408	28294	76 Tau	5.90	0.32	F0IV	54.3	S	584	0.022	0.007	13	30	−0.66	0.25	10.5	37.0
1422	28485	80 Tau	5.58	0.32	F0V	43.6	SB,VB	541	0.056	0.012	41	18	−0.39	0.18	35.1	79.8
1430	28556	83 Tau	5.40	0.26	F0V	45.8	S	589	0.069	0.012	62	8	−0.20	0.16	49.9	125.1
1432	28677	85 Tau	6.02	0.34	F4V	44.9	SB	453	0.033	0.010	18	33	−0.46	0.24	19.2	46.4
1436	28736		6.39	0.42	F5V	43.2	S	530	0.064	0.013	39	21	−0.19	0.19	46.6	104.2
1438	28763		6.21	0.12	A3V	122.5	VB	169	0.055	0.022	11	17	−0.55	0.30	29.6	532.2
1458	29140	88 Tau	4.25	0.18	A5m	46.1	SB	439	0.333	0.030	310	10	−0.16	0.08	248.5	632.5
1459	29169		6.02	0.38	F5IV	44.2	S	455	0.035	0.012	10	17	−0.70	0.21	16.0	37.4
1466	29316	2 Cam	5.35	0.32	A8V	85.0	VB	500	0.077	0.014	56	13	−0.08	0.19	60.6	524.6
1468	29329		6.49	0.51	F7V	32.2	S	477	0.729	0.040	999	4	−0.01	0.05	602.3	748.4
1470	29364		6.47	0.00	F2V:	70.0	SB,VB	457	0.054	0.013	28	9	0.00	0.22	45.3	265.4
1472	29375	89 Tau	5.79	0.31	F0V	45.5	S	424	0.018	0.008	9	12	−0.45	0.34	10.4	25.9
1473	29388	90 Tau	4.27	0.12	A6V	45.9	SB	385	0.025	0.010	11	6	−0.20	0.36	18.3	46.0
1474	29391	51 Eri	5.23	0.28	F0V	29.8	S	509	1.594	0.155	275	77	−0.09	0.09	1248.6	1323.2
1490	29646		5.78	−0.03	A2V	102.7	VB	460	0.099	0.016	88	52	−0.09	0.15	77.3	975.0
1501	29867		6.45	0.00	A8V	72.0	S	457	0.030	0.010	16	6	−0.08	0.30	23.3	144.8
1502	29875	α Cae	4.45	0.34	F2V	20.1	VB	329	0.521	0.042	393	7	−0.32	0.07	344.3	167.0
1503	29992	β Cae	5.05	0.37	F1V	27.7	S	268	0.099	0.022	39	8	−0.16	0.19	73.7	67.5
1511	30121	4 Cam	5.30	0.25	A3m	49.7	S	479	0.024	0.009	10	13	−0.50	0.29	13.8	40.6
1532	30495	58 Eri	5.51	0.63	G2.5V	13.3	S	539	0.490	0.046	272	3	−0.33	0.08	321.6	68.2
1543	30652	π^3 Ori	3.19	0.45	F6V	8.0	SB	392	1.957	0.147	481	9	−0.23	0.07	1387.7	106.9
1557	30985		6.07	0.37	F2-3V	52.3	VB	252	0.035	0.014	11	29	0.59	0.34	39.6	129.6
1563	31203	ι Pic	5.61	0.33	F0IV	37.1	VB	937	0.107	0.019	50	21	−0.16	0.15	79.8	131.3
1564	31204	ι Pic	6.42	0.00	F4V:	32.1	VB	937	0.107	0.019	50	20	−0.16	0.15	79.8	98.3
1568	31278	7 Cam	4.47	−0.02	A1V	115.2	SB,VB	450	0.143	0.020	125	36	0.17	0.13	131.5	2088.7
1575	31362		6.37	0.33	F0	43.2	S	445	0.071	0.014	48	9	0.07	0.20	61.9	138.2
1591	31623		6.23	0.42	F2	84.0	S	390	0.017	0.009	7	33	−0.51	0.33	9.6	81.3
1592	31647	ω Aur	4.94	0.04	A1V	48.8	VB	468	0.658	0.039	999	5	0.10	0.05	581.8	1656.2
1593	31662		6.03	0.41	F4V	36.9	VB	439	0.091	0.016	70	3	−0.24	0.17	64.3	104.7
1594	31675		6.19	0.48	dF6	27.9	S	428	0.289	0.027	296	6	−0.21	0.09	208.2	194.6
1597	31746		6.12	0.44	F3V	30.9	S	326	0.141	0.023	83	2	−0.10	0.16	109.7	125.2
1599	31761	5 Aur	5.95	0.41	F5V	53.0	VB	466	0.027	0.009	14	38	−0.26	0.32	18.9	63.7
1608	32008	63 Eri	5.38	0.80	G4V	54.7	S	401	0.531	0.038	513	3	−0.35	0.06	342.8	1225.9
1614	32147		6.22	1.06	K3V	8.8	SB	387	0.032	0.012	9	13	−0.63	0.38	16.0	1.5

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
1637	32537	9 Aur	5.00	0.33	F0V	26.2	SB	450	0.051	0.013	22	20	−0.83	0.16	19.8	16.3
1639	32608		6.52	0.16	A5V	82.4	S	465	0.028	0.009	17	18	−0.16	0.30	21.0	170.2
1647	32715		6.41	0.40	F6V	39.6	S	415	0.070	0.015	50	8	−0.35	0.18	45.2	84.7
1649	32743	η^1 Pic	5.38	0.42	F2V	26.2	VB	244	0.179	0.030	60	7	−0.22	0.15	127.9	104.9
1657	32964	66 Eri	5.12	−0.06	B9V+A1V	85.8	SB,VB	416	0.085	0.016	65	3	0.25	0.19	82.3	725.3
1664	33054	14 Ori	5.34	0.33	Am	59.4	VB	424	0.038	0.012	15	15	−0.71	0.17	17.4	73.5
1668	33167		5.68	0.42	F5V	46.2	S	434	0.118	0.017	107	7	0.09	0.14	103.5	264.5
1670	33204		6.01	0.27	A5m	54.7	VB	452	0.033	0.010	24	20	0.18	0.29	30.7	109.8
1673	33256	68 Eri	5.12	0.44	F2V	25.0	S	406	0.021	0.009	8	47	−1.00	0.25	29.0	21.7
1674	33262	ζ Dor	4.72	0.52	F7V	11.7	S	1236	0.484	0.110	26	14	−0.32	0.18	320.4	52.0
1686	33564		5.05	0.47	F6V	21.0	VB	519	0.020	0.007	11	10	−1.00	0.40	26.8	14.1
1687	33608		5.90	0.46	F5V	38.4	S	406	0.105	0.018	70	12	−0.14	0.16	79.8	140.9
1700	33875		6.27	−0.01	A1V	129.9	S	594	0.020	0.007	13	9	0.14	0.37	17.7	358.0
1706	33959	14 Aur	5.02	0.23	A9IVδ Del	82.4	SB,VB	461	5.051	0.107	999	10	−0.96	0.00	1627.4	13211.6
1717	34180		6.15	0.39	F0IV	45.9	S	412	0.056	0.014	28	52	−0.11	0.23	43.2	109.0
1734	34499	18 Aur	6.49	0.24	A7V	72.2	VB	456	0.032	0.010	22	17	−0.53	0.24	17.6	109.8
1747	34721		5.96	0.58	G0V	24.9	SB,VB	417	0.028	0.010	14	47	−0.03	0.37	22.9	17.0
1780	35296	111 Tau	4.99	0.53	F8V	14.7	SB	443	1.395	0.057	999	7	−0.12	0.04	1070.5	275.5
1782	35317		6.11	0.50	F7V	58.0	SB,VB	424	0.058	0.014	23	24	−0.37	0.21	37.1	149.4
1785	35386		6.49	0.50	F6V	52.4	S	444	0.101	0.019	56	7	−0.16	0.16	75.4	247.7
1817	35850		6.35	0.51	dF7	26.8	S	416	2.732	0.195	675	3	0.24	0.06	2617.8	2256.0
1857	36570	19 Cam	6.15	0.01	A0V	114.0	VB	400	0.049	0.013	26	28	0.08	0.25	42.9	667.1
1872	36777	38 Ori	5.36	0.05	A2V	105.8	VB	460	0.032	0.010	17	23	0.06	0.31	27.2	364.1
1925	37394		6.23	0.84	K1V	12.2	S	367	0.369	0.033	331	16	−0.55	0.07	199.0	35.7
1926	37430	ν^1 Col	6.16	0.34	F0IV	44.6	S	520	0.115	0.017	98	20	−0.21	0.13	83.0	197.2
1935	37495	ν^2 Col	5.31	0.46	F4V	42.5	S	526	0.125	0.017	109	9	−0.14	0.13	94.3	203.6
1936	37501		6.32	0.85	G5IV	106.7	S	1090	0.036	0.007	39	11	1.00	0.53	48.6	662.1
1940	37594		6.00	0.27	A8V s	41.4	S	466	0.017	0.008	7	12	−0.51	0.33	9.4	19.2
1967	38089		6.02	0.40	F3V	50.2	SB,VB	456	0.052	0.012	31	9	−0.66	0.19	24.8	74.7
1981	38385		6.25	0.37	F3V	53.4	S	627	0.014	0.006	10	14	−0.86	0.15	5.1	17.4
1982	38392		6.15	0.94	K2V	9.0	S	488	0.343	0.029	330	9	−0.52	0.06	190.5	18.5
1988	38529		5.95	0.78	G4V	42.4	S	481	0.069	0.013	55	9	−0.23	0.18	48.6	104.8
2007	38858		5.97	0.64	G4V	15.6	S	500	0.023	0.008	10	45	−0.77	0.22	9.6	2.8
2047	39587	χ^1 Ori	4.41	0.59	G0V	8.7	SB,VB	431	1.942	0.068	999	8	−0.27	0.03	1335.9	120.0
2072	39937		5.94	0.66	F7IV	127.2	S	1659	0.655	0.020	999	2	0.15	0.03	596.2	11546.0
2094	40292		5.29	0.31	F0Vδ Del	34.9	S	1218	0.009	0.004	8	49	−0.94	0.15	3.0	4.3
2118	40745		6.22	0.36	F0	59.9	S	528	0.018	0.008	9	34	−0.62	0.29	9.2	39.7
2124	40932	μ Ori	4.12	0.16	A2V	46.5	SB,VB	449	0.091	0.016	72	4	−0.13	0.15	69.6	180.3
2150	41547		5.87	0.37	dF4	59.0	SB	542	0.034	0.009	21	18	−0.54	0.22	18.4	76.6
2157	41700		6.35	0.52	G0IV-V	26.7	S	933	0.636	0.028	889	76	−0.08	0.05	501.5	427.6
2162	41824		6.58	0.72	G6V	29.7	VB	1042	1.902	0.212	183	5	0.13	0.10	1711.6	1809.6
2174	42111		5.73	0.07	A3Vn	186.9	VB	478	0.083	0.015	73	12	0.25	0.17	80.2	3350.9
2179	42278		6.17	0.34	F3IV w	61.0	S	515	0.025	0.009	14	8	−0.08	0.31	20.0	89.2
2180	42301		5.50	−0.01	A0IV	78.3	S	590	0.023	0.008	14	17	0.50	0.32	25.3	185.8
2181	42303	π^2 Col	5.50	0.00	A0V	80.1	VB	871	0.024	0.007	12	57	0.28	0.27	24.0	184.3
2186	42443		5.71	0.44	F6V	54.1	VB	591	0.073	0.013	55	8	−0.20	0.16	52.8	184.9
2208	42807		6.45	0.67	G2V	18.1	S	450	0.193	0.023	172	2	−0.36	0.10	123.6	48.5
2209	42818		4.80	0.03	A0Vn	53.9	SB	359	0.047	0.014	23	17	−0.19	0.28	34.6	120.4
2217	43017		6.92	0.45	F4IV	48.3	VB	336	0.021	0.009	9	78	−0.65	0.42	10.2	28.5
2220	43042	71 Ori	5.20	0.44	F6V	21.1	VB	403	0.140	0.020	95	13	−0.17	0.13	103.6	55.3
2225	43162		6.39	0.72	G5	16.7	S	651	0.655	0.071	165	21	−0.39	0.09	408.7	136.3
2236	43358		6.37	0.46	F5IV:	92.9	SB,VB	479	0.021	0.009	8	12	−0.12	0.50	15.8	163.4
2238	43378	2 Lyn	4.48	0.01	A2V s	45.7	S	366	0.019	0.009	9	22	−0.16	0.44	14.0	35.1
2241	43386	74 Ori	5.04	0.42	F5IV-V	19.6	S	454	0.352	0.029	380	3	−0.23	0.07	249.5	114.8
2253	43683		6.16	0.01	A3V	195.3	VB	443	0.021	0.009	8	83	−1.00	0.35	28.3	1292.0
2259	43821		6.24	0.87	K0	106.2	SB	476	0.042	0.012	21	10	0.41	0.28	44.4	599.3
2261	43834	α Men	5.09	0.72	G6V	10.1	S	1166	0.017	0.005	21	16	−1.00	0.23	23.1	2.9
2265	43940		5.87	0.14	A3V	62.1	S	790	0.500	0.027	788	5	−0.05	0.05	402.6	1858.1
2272	44092		6.43	0.06	A1V s	103.7	S	346	0.017	0.008	8	23	0.28	0.59	16.9	218.1
2280	44333		6.31	0.24	A4.5V	102.5	VB	484	0.037	0.010	20	14	0.12	0.30	32.7	411.2
2298	44769	ϵ Mon	4.44	0.18	A5IV	39.4	SB,VB	462	0.080	0.015	58	10	−0.48	0.14	46.2	85.7
2299	44770		6.72	0.45	F5V	24.3	VB	462	0.080	0.015	58	4	−0.48	0.14	46.2	32.7
2320	45229	ν Pic	5.61	0.24	Am	50.3	S	1432	0.018	0.004	31	9	−0.10	0.23	14.2	42.9
2328	45380		6.27	−0.04	A0Vn	125.5	VB	523	0.137	0.018	156	21	0.36	0.12	140.2	2640.5
2351	45638		6.59	0.00	A9IV	60.8	S	451	0.133	0.019	97	6	−0.28	0.13	91.0	402.3
2353	45680		6.48	0.39	F3V	49.8	VB	716	0.147	0.016	181	5	−0.11	0.10	113.6	336.7
2365	45947		6.24	0.38	F2	35.6	S	466	0.055	0.012	39	10	−0.04	0.21	44.2	66.9
2384	46273		5.27	0.41	F2V	51.7	SB,VB	870	0.070	0.010	73	9	−0.56	0.11	37.4	119.7
2386	46304		5.60	0.25	F0Vnn	43.2	VB	500	0.141	0.018	132	9	−0.39	0.11	87.8	196.3
2401	46588		5.45	0.50	F8V	17.9	SB	528	0.017	0.007	9	18	−1.00	0.43	22.7	8.7
2421	47105	γ Gem	1.93	0.00	A0IV	32.1	SB	447	0.219	0.025	182	1	−0.03	0.10	178.5	220.5
2424	47144		5.59	−0.14	A0V	177.9	VB	413	0.068	0.015	32	13	0.06	0.22	58.3	2209.4
2439	47415		6.38	0.53	F8IV	35.2	SB	422	0.161	0.022	133	11	−0.22	0.12	114.7	169.7
2466	48097	26 Gem	5.21	0.06	A2V	42.7	SB	443	0.093	0.018	51	9	−0.40	0.16	57.3	125.0
2468	48189		6.18	0.62	G1-2V	21.7	VB	966	2.325	0.050	999	4	−0.15	0.02	1747.2	981.5
2481	48501		6.13	0.34	F0	48.9	VB	285	0.043	0.015	11	50	−0.36	0.30	27.8	79.7
2482	48543		6.29	0.34	A3V+F/G	91.3	VB	611	0.047	0.011	35	2	−0.53	0.18	26.0	259.1
2483	48682	ψ^5 Aur	5.25	0.56	G0V	16.5	VB	337	0.048	0.014	17	43	−0.18	0.29	35.1	11.4
2485	48767		6.33	0.00	dF6	47.0	SB,VB	350	0.116	0.020	79	7	−0.23	0.16	82.0	217.0
2486	48766		6.28	0.47	dF5	47.0	VB	350	0.116	0.020	79	12	−0.23	0.16	82.0	217.0

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
2491	48915	α CMa	−1.46	0.00	A1Vm	2.6	SB,VB	272	12.730	0.219	999	7	−0.99	0.00	3899.2	32.4
2500	49095		5.92	0.48	F6V	24.3	S	577	0.015	0.006	9	30	−0.65	0.31	7.1	5.0
2514	49434		5.75	0.28	F1V	40.1	S	367	0.019	0.009	9	39	−1.00	0.30	26.4	50.7
2530	49933		5.77	0.39	F2V	29.9	VB	224	0.366	0.043	163	6	−0.04	0.11	296.5	317.0
2539	50018	59 Aur	6.12	0.37	F2Vδ Del	162.6	VB	361	0.054	0.014	28	37	−0.01	0.25	44.2	1397.4
2548	50223		5.14	0.45	F5V	25.2	S	606	0.016	0.006	10	28	−0.87	0.32	5.8	4.4
2550	50241	α Pic	3.27	0.21	A7IV	30.3	S	1213	0.078	0.009	138	8	−0.13	0.11	59.2	65.2
2551	50277		5.77	0.26	F0Vn	62.6	S	325	0.057	0.016	22	17	−0.13	0.27	43.8	205.3
2552	50282		6.30	0.99	K0	146.2	S	291	0.088	0.019	41	28	0.61	0.17	101.3	2591.7
2564	50635	38 Gem	4.65	0.30	F0Vp	27.9	SB,VB	344	0.263	0.031	196	3	−0.22	0.10	188.2	175.8
2607	51733		5.46	0.36	dF0	38.6	VB	500	0.095	0.015	80	16	−0.35	0.14	61.6	109.6
2612	51825		6.23	0.46	F8IV-V	43.2	VB	432	0.412	0.032	462	5	−0.02	0.07	338.0	754.6
2626	52362		6.22	0.00	A0V	130.2	SB	550	0.015	0.007	10	13	−0.42	0.35	9.4	191.3
2637	52619		6.27	0.45	F5V	68.2	S	427	0.027	0.010	10	2	−0.37	0.33	17.5	97.1
2658	53253		6.43	−0.04	A0V	125.2	S	535	0.023	0.008	13	49	−0.14	0.33	17.6	329.1
2677	53952		6.14	0.37	F2V	55.7	VB	482	0.015	0.007	7	67	−0.44	0.38	9.3	34.4
2683	54118		5.17	−0.04	A0pSi	86.6	S	541	0.023	0.009	10	86	0.14	0.34	20.8	186.7
2705	54958		6.23	0.40	F0	49.8	VB	391	0.052	0.013	27	10	−0.14	0.25	39.1	116.1
2720	55568		6.10	0.27	A8V	47.6	S	424	0.051	0.014	22	34	−0.54	0.19	27.6	74.6
2735	55864	γ^1 Vol	5.69	0.40	F2V	45.1	SB,VB	777	0.079	0.012	46	34	−0.28	0.13	54.1	131.7
2740	55892		4.49	0.32	F0IV	21.2	S	176	0.106	0.027	34	22	−0.58	0.18	55.6	29.8
2776	56963		5.77	0.32	A7 s	34.5	S	377	0.035	0.012	15	22	−0.63	0.20	17.4	24.8
2777	56986	δ Gem	3.53	0.34	F2IV	18.0	SB,VB	443	0.108	0.019	57	21	−0.56	0.12	57.8	22.5
2788	57167		5.70	0.35	F1V	44.0	SB	395	0.443	0.034	554	2	−0.01	0.07	366.1	849.3
2813	57852		6.05	0.42	F0-2IV-V	34.8	VB	309	0.354	0.035	252	12	−0.14	0.10	267.7	387.5
2814	57853		6.60	0.59	G0V:e	34.8	VB	309	0.354	0.035	252	9	−0.14	0.10	267.7	387.5
2832	58461		5.78	0.42	F0V	34.8	S	184	0.074	0.022	27	11	−0.46	0.25	43.6	63.3
2846	58728	63 Gem	5.22	0.39	F5V+F5V	34.0	SB	442	0.485	0.035	418	7	−0.35	0.06	313.1	434.0
2848	58805		6.47	0.42	F3V	39.1	S	340	0.034	0.012	13	21	−0.45	0.32	20.1	36.8
2852	58946	ρ Gem	4.18	0.32	F0V	18.5	SB	445	0.347	0.029	399	2	−0.29	0.08	234.9	96.2
2869	59466		6.58	0.06	A1IV	106.0	S	295	0.024	0.010	15	18	−0.01	0.43	19.9	267.7
2882	59967		6.65	0.63	G4V	21.8	S	271	0.320	0.037	195	15	−0.36	0.10	205.1	116.3
2890	60178	α Gem	2.88	0.04	A2Vm	15.8	SB,VB	440	3.697	0.091	999	58	−0.15	0.02	2778.3	830.4
2891	60179	α Gem	1.98	0.03	A1V	15.8	SB,VB	440	3.697	0.091	999	58	−0.15	0.02	2778.3	830.4
2909	60584		5.83	0.44	dF4	29.1	SB,VB	204	0.363	0.044	180	6	−0.25	0.11	253.9	256.6
2910	60585		5.87	0.00	dF6	29.1	VB	204	0.363	0.044	180	14	−0.25	0.11	253.9	256.6
2923	60951		6.34	0.99	G5	211.9	SB	246	0.019	0.010	9	4	1.00	0.80	25.3	1359.5
2943	61421	α CMi	0.38	0.42	F5IV-V	3.5	SB,VB	400	3.655	0.098	999	7	−0.90	0.01	1293.9	18.9
2962	61859		6.02	0.00	F7V	54.6	SB	434	0.028	0.011	9	39	−0.24	0.32	19.9	71.1
2997	62613		6.56	0.73	G8V	17.0	S	551	0.021	0.008	9	21	−0.66	0.26	9.9	3.4
3015	62952	4 Pup	5.04	0.33	F0V	72.5	S	349	0.023	0.010	10	56	0.19	0.47	21.7	136.4
3028	63332		6.02	0.46	F6V	30.0	S	342	0.019	0.009	9	35	−1.00	0.70	26.4	28.5
3029	63336	5 Pup	5.48	0.48	dF5	30.2	VB	234	0.054	0.017	16	33	−1.00	0.33	72.8	79.7
3070	64185		5.78	0.42	F1V	34.9	VB	711	0.090	0.013	88	20	−0.35	0.13	58.4	85.2
3072	64235		5.76	0.41	F5IV	40.9	VB	227	0.311	0.037	191	14	0.12	0.12	278.3	557.0
3079	64379		5.01	0.44	F5V	18.0	VB	154	0.589	0.063	226	5	−0.20	0.10	426.9	165.9
3087	64685		5.86	0.35	F2IV	38.2	S	363	0.045	0.014	15	15	−0.25	0.29	31.5	54.9
3119	65626		6.49	0.62	F8V	101.6	SB	443	1.347	0.057	999	5	0.03	0.04	1140.8	14096.1
3131	65810		4.61	0.08	A2Vn	73.0	S	198	0.032	0.015	10	6	−1.00	0.30	44.0	280.6
3144	66011		6.22	0.57	G0IV	59.6	S	136	0.124	0.034	21	13	−0.24	0.29	87.3	371.6
3173	67006	27 Lyn	4.84	0.05	A2V	66.8	VB	408	0.026	0.010	13	19	−0.17	0.33	19.6	104.6
3191	67767	ψ Cnc	5.73	0.81	G7V	42.0	S	366	0.181	0.023	152	11	−0.10	0.12	141.1	297.4
3208	68257	ζ^1 Cnc	5.63	0.54	F8V	25.6	VB	372	0.129	0.020	82	18	−0.59	0.12	67.1	52.5
3209	68256	ζ^1 Cnc	6.02	0.54	F9V	25.6	VB	372	0.129	0.020	82	18	−0.59	0.12	67.1	52.5
3210	68255	ζ^2 Cnc	6.20	0.60	G5V	25.6	VB	372	0.129	0.020	82	13	−0.59	0.12	67.1	52.5
3220	68456		4.76	0.43	F5V	21.4	S	366	0.351	0.032	292	5	−0.18	0.09	258.5	141.5
3221	68457		6.45	0.20	A7Vm	153.1	VB	420	0.020	0.010	7	26	−0.41	0.31	12.2	340.9
3254	69548	30 Lyn	5.89	0.39	F4V	31.7	S	282	0.110	0.022	49	17	−0.42	0.18	66.7	80.0
3259	69830		5.98	0.76	G7.5V	12.6	S	355	0.032	0.011	13	1	−0.65	0.29	15.7	3.0
3260	69863		5.16	0.09	A2V	74.2	VB	398	0.095	0.018	75	16	0.04	0.18	81.2	535.5
3274	70267		6.42	0.39	F5V	77.9	VB	517	0.041	0.011	24	12	−0.33	0.26	26.9	195.2
3276	70302		6.13	1.04	K0	218.3	VB	383	0.050	0.014	24	2	0.73	0.19	60.9	3473.3
3297	70958	1 Hya	5.61	0.46	F3V	27.2	SB	307	0.686	0.050	548	10	0.01	0.07	574.0	508.5
3313	71153	24 Cnc	7.81	0.52	F7V	76.0	VB	192	0.246	0.039	74	22	−0.10	0.15	191.2	1321.3
3316	71196		6.01	0.40	F3V	33.9	S	358	0.166	0.024	93	5	−0.07	0.14	131.7	181.6
3337	71663		6.39	0.33	A5m	85.3	SB,VB	295	0.159	0.025	89	14	0.03	0.16	134.8	1172.4
3352	71973		6.31	0.00	A2m	83.9	SB,VB	448	0.053	0.013	39	4	−0.18	0.23	39.0	328.3
3365	72291	32 Lyn	6.24	0.36	F5Vb vw	37.3	S	303	0.086	0.019	34	15	−0.55	0.18	46.5	77.5
3385	72688		6.36	0.95	K0V	130.7	S	406	0.715	0.063	392	7	0.26	0.08	692.3	14153.5
3391	72905	π^1 UMa	5.64	0.62	G1.5Vb	14.3	S	392	0.797	0.047	820	4	−0.32	0.05	526.9	128.4
3395	72945		5.99	0.52	F8V	26.5	SB,VB	333	0.118	0.021	49	3	−0.53	0.13	65.1	54.9
3396	72946		7.25	0.71	G5V	23.4	VB	333	0.118	0.021	49	12	−0.53	0.13	65.1	42.7
3401	73029		6.48	0.00	A2Vn	110.5	S	467	0.015	0.007	8	88	−0.20	0.41	10.7	156.7
3410	73262	δ Hya	4.16	0.00	A1Vnn	54.9	SB	322	0.101	0.021	43	12	−0.44	0.17	60.7	218.9
3430	73752		5.05	0.73	G6IV	19.9	SB,VB	374	0.047	0.014	17	16	−0.76	0.21	20.1	9.6
3434	73900		6.13	0.42	F1IV	40.2	SB,VB	356	0.123	0.020	86	2	−0.18	0.16	90.7	175.6
3451	74243		6.33	0.00	F7V	65.3	S	258	0.043	0.016	20	5	0.24	0.38	41.6	212.3
3455	74341		6.34	0.20	A3V	69.5	VB	491	0.531	0.050	305	6	0.27	0.09	517.5	2994.4
3460	74405	θ Vol	5.20	0.01	A0V	73.3	VB	380	0.033	0.012	9	39	0.32	0.48	33.3	214.3
3472	74688		6.41	0.52	F2IV	87.0	VB	350	0.028	0.011	15	8	0.56	0.42	31.1	281.6

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
3485	74956	δ Vel	1.96	0.04	A1V	24.4	VB	553	0.264	0.034	109	8	−0.23	0.12	187.3	134.0
3499	75332		6.25	0.49	F7Vn	28.7	S	296	0.448	0.043	277	4	0.00	0.09	372.0	366.3
3524	75747		6.05	0.23	A5V+A7V	97.8	SB	675	0.314	0.033	188	31	0.00	0.10	261.1	2985.0
3537	76143		5.35	0.42	F5IV	52.5	VB	395	0.029	0.011	10	12	−0.12	0.35	22.3	73.7
3538	76151		6.00	0.67	G2V	17.1	S	307	0.118	0.023	49	8	−0.58	0.13	61.8	21.6
3569	76644	ι UMa	3.14	0.19	A7IV	14.6	SB,VB	285	0.169	0.027	81	5	−0.34	0.14	110.2	28.2
3570	76653		5.71	0.48	F6V	24.1	S	440	0.461	0.034	403	2	−0.30	0.07	309.5	215.9
3579	76943		3.97	0.44	F5V	16.4	SB,VB	400	0.676	0.045	543	5	−0.46	0.05	396.9	128.2
3584	77084		6.18	0.46	F6V	39.6	S	317	0.080	0.018	42	12	−0.09	0.21	62.4	116.7
3598	77370		5.16	0.42	F3V	26.2	VB	355	0.219	0.028	155	5	−0.32	0.11	144.6	118.6
3616	78154	σ^2 UMa	4.80	0.49	F6IV	20.5	VB	438	0.059	0.014	23	21	−0.78	0.15	24.5	12.3
3625	78366		5.93	0.60	F9V	19.1	S	411	0.334	0.030	284	5	−0.41	0.08	204.9	89.8
3626	78418	75 Cnc	5.98	0.66	G5IV-V	31.3	SB	365	0.090	0.018	39	40	−0.65	0.14	43.7	51.2
3635	78661		6.48	0.34	F2Vp	37.7	S	342	0.032	0.012	11	34	−0.72	0.24	14.6	24.8
3649	79066		6.35	0.32	A9IVδ Del	50.9	S	348	0.034	0.012	12	8	−0.36	0.32	21.7	67.2
3650	79096	π^1 Cnc	6.51	0.73	G9V	20.5	VB	189	0.061	0.022	14	19	−1.00	0.44	83.4	41.9
3690	80081	38 Lyn	3.82	0.06	A3V	37.4	SB,VB	461	0.210	0.024	171	6	−0.11	0.10	162.2	271.2
3701	80441		6.12	0.38	F2V+F4V	47.8	VB	458	0.065	0.014	37	3	−0.04	0.20	52.6	143.8
3712	80671		5.39	0.42	F4V	33.5	VB	297	0.049	0.015	19	7	−0.31	0.27	32.5	43.7
3714	80719		6.33	0.46	dF6	48.3	SB	412	0.085	0.016	62	7	0.19	0.18	79.5	222.1
3750	81809		5.38	0.64	G2V	31.2	SB,VB	395	0.030	0.012	9	22	−0.89	0.26	10.7	12.5
3756	81919		6.65	0.20	A3	114.7	VB	628	0.064	0.012	57	14	0.17	0.18	59.1	930.5
3757	81937	23 UMa	3.67	0.33	F0IV	23.1	VB	346	0.042	0.013	14	7	−1.00	0.30	57.6	36.9
3759	81997	τ^1 Hya	4.60	0.46	F6V	17.1	S	365	0.574	0.041	507	18	−0.25	0.06	401.0	140.3
3761	82068		6.05	0.15	A3Vn	68.3	S	334	0.052	0.014	23	25	0.58	0.27	59.4	331.3
3785	82428		6.14	0.24	F0Vn	54.3	SB	342	0.025	0.011	8	1	−0.54	0.30	13.5	47.4
3786	82434	ψ Vel	3.60	0.36	F3IV+F0IV	18.6	VB	427	0.558	0.038	552	4	−0.33	0.06	366.2	150.9
3795	82554	ι Cha	5.36	0.45	F3-5IV	56.5	S	429	0.018	0.008	8	55	−0.47	0.41	10.6	40.5
3806	82685		6.42	0.00	F2V+F1V	69.6	VB	480	0.062	0.013	42	4	−0.40	0.18	38.4	222.7
3811	82780		6.76	0.35	F2V	84.7	SB,VB	369	0.065	0.016	27	9	−0.34	0.19	42.5	365.2
3812	82785		6.43	0.33	F0IV	72.7	VB	390	0.042	0.013	17	24	−0.11	0.28	32.4	204.9
3815	82885	11 LMi	5.41	0.77	G8V	11.2	VB	467	0.298	0.027	254	24	−0.55	0.07	160.9	24.1
3828	83261		6.53	0.38	F2	68.3	VB	480	0.053	0.013	27	2	−0.58	0.17	27.7	154.4
3852	83808	o Leo	3.52	0.49	F6II+A1-5V	41.5	SB	342	0.072	0.017	34	16	−0.51	0.18	40.5	83.4
3857	83951	13 LMi	6.14	0.36	F3V	53.3	S	471	0.026	0.009	14	22	−0.10	0.35	20.5	69.6
3893	85217	4 Sex	6.24	0.48	F7Vn	45.9	SB	417	0.181	0.022	166	11	−0.15	0.12	136.2	343.4
3928	86146	19 LMi	5.14	0.46	F6V s	28.9	SB	366	0.087	0.019	31	6	−0.66	0.15	42.0	41.9
3954	87141		5.74	0.48	F5V	47.3	S	545	0.053	0.012	25	16	−0.17	0.22	39.5	105.6
3969	87500		6.37	0.37	F2Vn	114.0	S	237	0.033	0.014	9	21	1.00	0.37	44.4	690.2
3979	87822		6.24	0.45	F4V	63.3	VB	408	0.041	0.012	16	26	−0.11	0.26	31.8	152.6
3991	88215		5.31	0.36	F5V	27.3	SB	466	0.027	0.010	10	10	−0.78	0.17	11.3	10.1
4013	88742		6.38	0.59	G1V	22.7	S	281	0.080	0.021	23	35	−0.14	0.24	60.8	37.6
4040	89169		6.57	0.48	F3V	102.0	VB	394	0.039	0.012	17	19	0.59	0.35	44.3	551.4
4059	89490		6.37	0.90	K0	89.8	S	429	0.136	0.020	87	22	0.20	0.14	127.3	1227.7
4060	89565		6.32	0.33	F1IV	53.3	S	448	0.016	0.008	8	30	−0.17	0.41	11.9	40.3
4061	89569		5.81	0.48	F6V	35.8	S	232	0.106	0.024	47	16	0.03	0.21	90.1	138.4
4062	89571		5.50	0.00	F0IV	40.8	S	533	0.031	0.010	15	19	−0.54	0.22	16.8	33.4
4065	89715		5.67	0.05	A1V	89.4	VB	251	0.067	0.018	23	28	0.11	0.28	60.0	574.6
4079	89995		6.54	0.46	F6V	55.7	VB	390	0.035	0.012	14	20	−0.22	0.30	24.8	91.9
4084	90089		5.26	0.37	F2V	21.5	S	329	0.309	0.033	181	4	−0.21	0.10	222.5	122.9
4096	90470		6.02	0.17	A2V	66.3	S	470	0.034	0.011	15	10	−0.16	0.27	25.0	131.3
4102	90589		4.00	0.35	F2IV	16.2	SB	108	0.182	0.047	25	8	−0.43	0.20	109.8	34.5
4112	90839	36 UMa	4.84	0.52	F8V	12.9	S	572	0.195	0.021	172	5	−0.67	0.07	93.0	18.4
4130	91280		6.05	0.51	F7V	42.4	S	314	0.068	0.017	29	6	0.20	0.24	63.3	136.2
4141	91480	37 UMa	5.16	0.34	F1V	26.5	S	582	0.104	0.016	72	13	0.11	0.14	92.8	77.7
4149	91706		6.10	0.50	F7V	63.5	S	351	0.040	0.013	16	12	−0.19	0.29	29.2	140.7
4155	91858		6.57	0.29	F0V	57.6	S	395	0.034	0.012	11	62	−0.28	0.35	23.0	91.2
4167	92139		3.84	0.30	F4IV+F3	26.5	SB,VB	338	0.203	0.028	138	3	−0.35	0.11	130.9	110.1
4182	92588	33 Sex	6.26	0.88	K1IV	34.4	S	386	0.167	0.024	119	8	−0.45	0.11	98.9	140.0
4203	93152	42 LMi	5.24	−0.06	A1Vn	115.7	SB	408	0.024	0.010	11	13	−0.22	0.38	17.4	278.2
4229	93742	40 Sex	6.61	0.22	A2IV	95.9	VB	228	0.037	0.016	11	4	−0.16	0.40	27.3	300.4
4251	94388		5.24	0.47	F6V	31.3	S	289	0.070	0.018	37	13	0.13	0.24	63.4	74.4
4263	94660		6.11	−0.08	A0pSiCr	152.0	S	285	0.143	0.025	68	1	0.14	0.17	129.4	3577.0
4281	95216		6.55	0.43	F5V	44.8	S	272	0.063	0.018	20	17	−0.28	0.24	42.9	102.9
4314	96202	χ^1 Hya	4.94	0.36	F3IV	43.5	VB	289	0.032	0.013	12	9	−1.00	0.24	43.3	98.1
4345	97334		6.41	0.61	G0V	21.7	S	207	0.320	0.045	114	8	−0.26	0.12	222.0	125.3
4350	97495		5.36	0.18	A3IV-V	50.0	SB	157	0.078	0.024	25	36	0.08	0.32	68.4	204.1
4363	97855		6.50	0.43	F6V+F9V	39.1	VB	384	0.034	0.012	11	85	−0.69	0.31	15.7	28.7
4369	98088		6.14	0.20	A8IVpeSrCrSi	129.0	SB,VB	283	0.013	0.007	8	31	0.71	0.83	15.3	305.4
4370	98096		6.31	0.40	F3V	55.4	VB	221	0.044	0.017	10	29	−0.36	0.42	28.1	103.2
4373	98221		6.45	0.40	F4V	46.7	S	351	0.150	0.024	80	19	−0.33	0.13	98.4	256.6
4374	98230	ξ UMa	4.87	0.00	G0V		SB,VB	192	4.539	0.157	999	4	−0.21	0.03	3266.7	
4375	98231	ξ UMa	4.41	0.59	G0V		SB,VB	192	4.539	0.157	999	4	−0.21	0.03	3266.7	
4380	98353	55 UMa	4.78	0.12	A1Vp:	56.1	SB	251	0.053	0.016	21	20	−0.41	0.28	32.6	122.8
4384	98560		5.99	0.46	F6IV	37.4	S	429	0.051	0.013	30	7	0.51	0.24	56.1	93.9
4399	99028	ι Leo	3.94	0.41	F4IV	24.2	SB,VB	384	0.185	0.024	108	14	−0.65	0.09	90.0	63.3
4405	99211	γ Crt	4.08	0.21	A5V	25.7	VB	303	0.030	0.013	9	28	−0.54	0.35	16.6	13.1
4408	99285	81 Leo	5.57	0.36	F2V	47.3	VB	366	0.069	0.016	37	12	−0.15	0.22	52.2	139.7
4414	99491	83 Leo	6.50	0.79	K0IV	17.7	VB	386	0.030	0.012	7	44	−0.98	0.21	9.3	3.5
4422	99787	57 UMa	5.31	0.01	A2V	64.1	SB	290	0.054	0.017	17	9	−0.19	0.30	39.7	195.6

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
4437	100180	88 Leo	6.20	0.57	G0V	23.0	VB	398	0.031	0.010	16	12	−1.00	0.46	41.6	26.4
4443	100286		5.81	0.53	F8V	26.7	VB	354	0.035	0.013	10	14	−0.73	0.21	15.4	13.2
4444	100287		5.64	0.53	F8V	26.7	VB	354	0.035	0.013	10	5	−0.73	0.21	15.4	13.2
4454	100518		6.55	0.18	A2m	113.6	S	419	0.055	0.014	18	5	−0.31	0.21	36.6	565.5
4455	100563	89 Leo	5.77	0.46	F5V	26.6	S	417	0.242	0.027	197	2	−0.33	0.09	158.7	134.0
4496	101501	61 UMa	5.33	0.72	G8V	9.5	S	314	0.348	0.037	194	13	−0.75	0.07	150.9	16.4
4502	101615		5.55	0.00	A0V	64.2	SB	155	0.091	0.028	21	17	−0.43	0.27	54.9	270.8
4505	101688		6.59	0.00	F2IV-V	61.3	S	438	0.059	0.014	36	13	−0.52	0.18	32.8	147.8
4528	102510	4 Vir	5.32	0.02	A1	58.9	S	434	0.019	0.008	10	15	0.44	0.42	20.4	84.9
4533	102634		6.15	0.52	F7V	34.2	S	392	0.025	0.010	12	12	−0.83	0.24	10.0	13.9
4535	102660		6.04	0.27	A3m	62.7	SB	320	0.027	0.011	15	6	0.21	0.39	25.5	119.9
4536	102713		5.70	0.46	F5IV	69.5	SB	367	0.067	0.017	29	10	−0.32	0.21	44.0	254.5
4539	102845		6.13	0.95	K0	206.2	S	323	0.130	0.022	80	7	0.54	0.18	145.3	7392.9
4540	102870	β Vir	3.61	0.55	F9V	10.9	S	417	0.344	0.030	264	8	−0.63	0.07	170.9	24.3
4554	103287	γ UMa	2.44	0.00	A0Ve	25.6	SB	401	0.050	0.014	22	27	−0.23	0.24	35.6	28.0
4599	104671	θ^1 Cru	4.33	0.27	Am	70.5	SB,VB	369	0.029	0.011	11	9	−0.67	0.29	13.7	81.4
4600	104731		5.15	0.41	F6V	24.2	S	173	0.067	0.023	14	13	−0.31	0.31	44.7	31.3
4606	104904		6.27	0.59	F6V	76.3	S	786	0.121	0.014	187	10	0.00	0.11	100.6	700.0
4627	105678		6.35	0.50	F6IV	72.2	S	675	0.034	0.008	30	6	−0.19	0.22	24.5	153.0
4634	105841		6.08	0.39	F2-3IV	88.8	S	365	0.023	0.009	9	9	−0.85	0.21	8.8	83.3
4646	106112		5.14	0.33	A5m	33.7	SB	89	0.271	0.060	46	7	−0.16	0.20	202.1	274.2
4657	106516		6.11	0.46	F5V	22.6	S	386	0.042	0.012	20	18	−0.94	0.20	13.9	8.5
4686	107192		6.28	0.35	F2V	46.6	S	909	0.125	0.013	201	7	−0.18	0.10	91.7	237.9
4698	107398		7.13	0.36	F3V+F3V	92.3	VB	449	0.029	0.010	10	18	−0.41	0.29	17.6	179.7
4708	107705	17 Vir	6.40	0.60	F8V	29.8	VB	409	0.027	0.011	8	12	−0.98	0.20	8.5	9.0
4758	108799		6.35	0.56	G0V	25.0	VB	257	0.620	0.050	432	3	−0.18	0.08	456.1	340.6
4767	108954		6.21	0.54	F8-G0V	21.9	S	343	0.033	0.013	8	34	−0.39	0.30	20.6	11.9
4785	109358	β CVn	4.26	0.59	G0V	8.4	SB	509	0.023	0.008	12	44	−1.00	0.35	31.8	2.7
4796	109573		5.80	0.01	A0V	67.1	VB	284	0.113	0.024	42	18	−0.24	0.17	79.6	428.4
4825	110379	γ Vir	3.65	0.36	F0V	11.8	SB,VB	146	2.039	0.121	888	9	−0.10	0.05	1586.3	265.6
4826	110380	γ Vir	3.68	0.00	F0V	11.8	VB	146	2.039	0.121	888	16	−0.10	0.05	1586.3	265.6
4855	111164	34 Vir	6.07	0.12	A3V	74.6	S	434	0.043	0.013	12	14	0.28	0.27	42.3	281.5
4856	111199		6.26	0.55	F7V	66.3	VB	394	0.039	0.014	13	6	−0.34	0.28	25.7	135.1
4864	111395		6.31	0.70	G7V	17.2	S	424	0.133	0.021	77	14	−0.54	0.11	72.6	25.6
4867	111456		5.85	0.46	F5V	24.2	S	479	0.503	0.034	565	2	−0.19	0.06	367.7	256.8
4891	111998	38 Vir	6.11	0.50	F5V	32.5	S	341	0.135	0.023	61	15	−0.40	0.14	83.8	106.0
4892	112014		5.85	−0.06	A0V+A2V		SB,VB	713	0.013	0.005	10	17	0.14	0.42	11.5	
4914	112412	α^1 CVn	5.60	0.34	F0V	33.8	VB	500	0.076	0.015	42	4	−0.38	0.17	48.0	65.6
4915	112413	α^2 CVn	2.90	−0.12	A0pSiEuHg	33.8	VB	500	0.076	0.015	42	17	−0.38	0.17	48.0	65.6
4922	112935		6.02	0.38	F0V	40.0	S	262	0.127	0.025	54	4	−0.02	0.19	103.9	199.1
4926	113022		6.20	0.42	F6V s	40.8	S	500	0.070	0.014	40	5	−0.40	0.16	43.6	86.9
4931	113139	78 UMa	4.93	0.36	F2V	25.0	VB	545	0.226	0.022	206	13	−0.58	0.07	118.2	88.1
4934	113337		6.00	0.41	F6V	37.4	S	517	0.119	0.017	92	14	−0.04	0.14	96.5	161.8
4946	113848	39 Com	5.99	0.39	F4V	49.9	VB	512	0.059	0.013	29	25	−0.09	0.20	46.5	138.8
4966	114371		5.91	0.42	F3IV-V	44.1	SB,VB	386	0.018	0.008	7	10	−0.71	0.27	8.1	18.8
4968	114378	α Com	5.22	0.45	F5V		VB	244	0.876	0.063	538	8	−0.38	0.06	551.7	
4969	114379	α Com	5.22	0.00	F5V		VB	244	0.876	0.063	538	8	−0.38	0.06	551.7	
4979	114613		4.85	0.70	G3V	20.5	S	282	0.100	0.022	34	8	−0.70	0.15	45.9	23.0
4980	114630		6.16	0.60	G0V	39.8	SB,VB	141	0.757	0.075	283	8	0.00	0.10	628.8	1192.3
4983	114710	β Com	4.26	0.57	F9.5V	9.2	SB	504	0.255	0.037	78	10	−0.72	0.08	114.6	11.5
5000	115149		6.07	0.44	F5V	38.9	S	221	0.045	0.018	11	65	−0.55	0.33	24.5	44.3
5011	115383	59 Vir	5.22	0.59	G0V s	18.0	VB	331	1.122	0.087	415	5	−0.14	0.07	849.1	327.3
5037	116160		5.69	0.06	A2V	65.3	S	307	0.311	0.036	189	7	−0.20	0.10	225.5	1149.8
5040	116235	64 Vir	5.87	0.12	A2m	63.7	S	293	0.124	0.024	55	2	−0.32	0.18	82.0	398.1
5050	116568	66 Vir	5.75	0.42	F3-4V s	30.1	SB	280	0.139	0.025	61	10	−0.40	0.15	86.3	93.5
5054	116656	ζ UMa	2.27	0.02	A1VpSrSi	24.0	SB	545	0.019	0.008	8	54	−0.34	0.36	12.5	8.6
5055	116657	ζ UMa	3.95	0.13	A1m	24.0	SB	545	0.019	0.008	8	40	−0.34	0.36	12.5	8.6
5062	116842	80 UMa	4.01	0.16	A5V	24.9	SB	552	0.026	0.010	13	6	0.24	0.34	25.4	18.8
5069	117025		6.11	0.11	ApSrEuCr	88.3	S	209	0.036	0.015	10	27	−0.79	0.23	14.7	137.2
5074	117200		6.66	0.37	F0	67.4	VB	507	0.027	0.010	16	4	−0.07	0.30	21.2	115.3
5075	117201		7.04	0.39	F0	65.4	VB	507	0.027	0.010	16	72	−0.07	0.30	21.2	108.3
5094	117661	73 Vir	6.01	0.18	F0IV-V	71.7	VB	334	0.027	0.012	8	36	0.23	0.44	26.0	160.2
5107	118098	ζ Vir	3.37	0.11	A3V	22.4	S	252	0.025	0.012	10	20	−0.25	0.44	17.7	10.7
5110	118216		4.98	0.40	F2IV	44.5	SB	527	2.768	0.075	999	4	−0.07	0.02	2197.4	5211.8
5113	118261		5.63	0.50	F6V	35.5	SB,VB	240	0.036	0.015	13	17	−0.55	0.26	19.5	29.4
5128	118646		5.83	0.40	F5V	49.0	S	275	0.067	0.019	17	29	−0.04	0.26	54.4	156.1
5138	118889		5.57	0.33	F0V	53.5	VB	289	0.023	0.012	8	78	−1.00	0.71	31.6	108.3
5144	119055	1 Boo	5.75	0.01	A1V	92.9	VB	376	0.101	0.020	40	13	0.01	0.18	84.3	869.5
5148	119124		6.32	0.54	F7-9V	25.2	VB	541	0.365	0.029	372	5	−0.14	0.07	276.5	210.5
5156	119288		6.16	0.42	F3Vp	35.8	S	343	0.030	0.012	8	17	−0.51	0.42	17.1	26.2
5168	119756	1 Cen	4.23	0.38	F3IV	19.3	SB	283	0.615	0.049	404	4	0.02	0.08	517.9	230.0
5185	120136	τ Boo	4.50	0.48	F6IV	15.6	VB	376	0.563	0.061	179	11	−0.53	0.08	309.5	90.1
5205	120602		6.01	0.90	K0	123.6	S	311	0.028	0.012	11	15	0.64	0.36	33.1	605.4
5209	120690		6.45	0.69	G5V	19.9	S	217	0.063	0.020	16	7	−0.73	0.25	27.9	13.3
5212	120759		6.12	0.48	F7V	53.6	VB	295	0.055	0.017	11	21	−0.46	0.33	32.3	111.0
5216	120874		6.46	0.09	A3V	82.5	SB	589	0.075	0.013	49	9	−0.19	0.16	54.6	444.9
5222	120987		5.54	0.44	F4V	50.1	SB,VB	310	0.081	0.019	36	16	−0.15	0.22	60.7	182.2
5233	121325		6.19	0.53	F8V+G0	33.8	VB	358	0.633	0.043	573	4	0.03	0.07	536.0	733.4
*5234	121336		6.14	0.07	A1V	142.9	VB	686	0.047	0.008	109	4	0.27	0.18	46.2	1127.4
5235	121370	η Boo	2.68	0.58	G0IV	11.3	SB	377	0.144	0.023	55	15	−0.65	0.12	70.0	10.8

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
5256	122064		6.37	0.00	K3V	10.1	S	813	0.016	0.007	9	31	−0.75	0.35	7.2	0.9
5257	122066	48 Hya	5.77	0.48	F7V	57.4	S	229	0.097	0.022	37	23	0.42	0.22	102.7	404.6
5268	122510		6.18	0.48	F8V	38.3	VB	284	0.089	0.021	33	7	−0.40	0.19	55.2	96.6
5307	124115		6.43	0.48	F7V	45.9	S	406	0.071	0.015	38	19	−0.53	0.16	38.8	98.0
*5325	124580		6.31	0.60	F9V	21.1	S	522	0.205	0.020	156	5	−0.38	0.10	129.2	68.5
5317	124425		5.91	0.47	F7V w	55.7	SB	403	0.116	0.019	62	3	−0.10	0.15	90.1	334.9
5346	125040		6.25	0.49	F8V	32.3	VB	428	0.215	0.026	148	8	−0.21	0.10	154.4	192.4
5347	125111		6.38	0.36	F2IV	48.3	S	541	0.068	0.013	43	11	−0.21	0.17	49.2	137.2
5350	125161	ι Boo	4.75	0.20	A9V	29.8	SB,VB	686	0.058	0.012	41	43	−0.47	0.15	33.9	36.0
5357	125283		5.94	0.08	A2Vn	68.5	S	275	0.052	0.018	10	41	0.42	0.33	54.5	305.7
5365	125451	18 Boo	5.41	0.38	F5IV	26.1	S	234	0.202	0.033	70	10	−0.13	0.16	153.6	125.1
5385	126128		6.86	0.43	F0V+F2V	65.9	SB,VB	385	0.082	0.018	35	7	−0.35	0.18	52.6	273.5
5386	126129		5.12	−0.02	A0V	65.9	VB	385	0.082	0.018	35	6	−0.35	0.18	52.6	273.5
5387	126141		6.22	0.37	F5V	35.7	S	365	0.055	0.015	25	9	−0.47	0.21	32.1	49.0
5396	126354	τ^2 Lup	4.35	0.43	F4IV+A7:	96.3	SB,VB	303	0.283	0.033	195	21	0.39	0.10	294.1	3265.6
5401	126504		5.83	0.31	A1mA5/7-F2	58.3	VB	363	0.022	0.010	9	22	−0.56	0.37	12.0	48.8
5404	126660	θ Boo	4.05	0.50	F7V	14.6	S	724	1.996	0.055	999	3	0.02	0.02	1679.8	426.7
5406	126722	104 Vir	6.17	0.09	A2IV	72.3	S	215	0.076	0.020	36	9	−0.04	0.26	61.9	387.0
5409	126868	φ Vir	4.81	0.70	G2IV	41.4	SB,VB	247	1.211	0.071	999	3	0.07	0.06	1051.3	2156.6
5411	126943		6.63	0.37	F1IV	76.5	S	647	0.036	0.009	33	7	0.45	0.27	38.6	270.4
5413	126983		5.37	0.05	A1V+B	68.2	SB,VB	340	0.165	0.023	105	14	−0.15	0.14	124.0	690.3
5426	127486		5.87	0.48	F6IV-V	87.6	S	311	0.070	0.018	20	31	−0.65	0.17	34.0	312.0
5433	127726		6.01	0.22	A7Vn	71.3	VB	523	0.049	0.012	40	3	−0.02	0.22	40.4	245.3
5434	127739	26 Boo	5.92	0.35	F2IV	51.4	S	523	0.024	0.009	12	16	−0.19	0.30	17.7	56.0
5436	127821		6.09	0.41	F4IV	31.7	S	176	0.085	0.029	11	25	0.28	0.29	83.3	100.4
5445	128093		6.33	0.40	F5V	42.2	VB	501	0.089	0.016	64	6	−0.13	0.16	68.2	145.0
5447	128167	σ Boo	4.46	0.36	F2V	15.5	S	457	0.171	0.022	112	4	−0.32	0.11	112.8	32.3
5455	128429		6.20	0.46	F5V	33.4	S	169	0.238	0.041	78	9	−0.21	0.16	171.1	227.9
5459	128620	α^1 Cen	−0.01	0.71	G2V	1.3	SB,VB	420	3.177	0.212	589	6	−0.98	0.01	990.0	2.2
5465	128917		6.22	0.45	F4V	44.3	S	351	0.040	0.013	18	16	−0.23	0.28	28.2	66.1
5468	129002	33 Boo	5.39	0.00	A1V	60.4	SB	462	0.342	0.030	337	3	0.13	0.08	307.6	1341.9
5492	129798		6.25	0.41	F2V	42.6	SB,VB	539	0.048	0.012	24	9	−0.37	0.18	30.5	66.2
5511	130109	109 Vir	3.72	−0.01	A0V	39.4	S	352	0.045	0.013	24	17	−0.14	0.27	34.0	63.3
5524	130603		6.14	0.48	F2-6V	80.9	VB	524	0.033	0.010	14	12	0.11	0.29	29.1	227.7
5530	130819	α^1 Lib	5.15	0.41	F4IV	23.7	S	379	0.283	0.031	189	11	−0.29	0.09	191.5	128.3
5533	130945	38 Boo	5.74	0.48	F7IV w	46.9	S	673	0.049	0.011	38	12	0.00	0.20	40.5	106.3
5534	130948		5.85	0.56	G0-2V	17.9	SB	529	0.407	0.031	427	8	−0.34	0.07	264.6	101.9
5544	131156	ξ Boo	4.55	0.76	G8Ve+K4Ve	6.7	VB	400	2.440	0.183	416	2	−0.31	0.07	1626.7	87.4
5553	131511		6.01	0.83	K2V	11.5	SB	398	0.363	0.034	245	10	−0.48	0.07	209.2	33.3
5566	131923		6.35	0.71	G3-5V	24.5	S	349	0.017	0.008	8	31	−1.00	0.33	23.0	16.5
*5568	131977		5.74	1.11	K4V	5.9	VB	702	0.156	0.015	267	8	−0.71	0.05	84.5	3.5
5581	132254		5.63	0.50	F7V	24.8	S	740	0.027	0.009	9	32	−0.10	0.28	20.7	15.3
5596	133002		5.64	0.68	F9V	43.3	S	753	0.115	0.014	146	9	−0.19	0.11	84.3	189.5
5610	133408		6.50	0.31	F0V	79.1	VB	269	0.047	0.016	14	6	−0.43	0.34	28.6	213.7
5612	133484		6.65	0.46	F6IV	57.3	VB	785	0.023	0.007	15	14	−0.50	0.24	12.8	50.3
5618	133640	44 Boo	4.76	0.65	F9-G1Vn	12.8	SB,VB	612	3.414	0.076	999	11	−0.16	0.02	2547.5	496.0
5630	134044		6.35	0.52	F8V	29.5	S	667	0.018	0.007	11	21	0.28	0.35	17.1	17.8
5634	134083	45 Boo	4.93	0.43	F5V	19.7	S	380	0.208	0.026	149	2	−0.47	0.10	121.3	56.4
5663	135235		5.95	0.21	A3m	51.8	VB	376	0.019	0.008	9	35	−0.59	0.43	9.6	30.9
5697	136347		6.48	−0.06	A0pSi	123.5	VB	378	0.119	0.019	72	7	0.52	0.15	132.1	2409.4
5698	136351	ν^1 Lup	5.00	0.50	F8V	34.2	S	392	0.156	0.022	110	4	−0.10	0.14	121.1	169.2
5700	136359		5.67	0.48	F7V	41.7	S	336	0.141	0.024	42	35	−0.07	0.20	112.1	232.8
5716	136751		6.19	0.39	F3-4IV s	53.8	S	806	0.021	0.007	15	18	0.06	0.29	18.6	64.2
5719	136933	υ Lup	5.37	−0.11	A0pSi	117.9	VB	383	0.105	0.019	56	7	0.16	0.18	96.3	1601.4
5723	137052	ϵ Lib	4.94	0.44	F5IV	32.4	SB	374	0.030	0.012	13	11	−0.32	0.34	20.2	25.3
5727	137107	η CrB	5.58	0.58	G0V	18.6	SB,VB	376	0.148	0.024	76	2	−0.78	0.09	61.7	25.6
5728	137108	η CrB	6.08	0.00	G3V	18.6	VB	376	0.148	0.024	76	2	−0.78	0.09	61.7	25.6
5729	137333	ρ Oct	5.57	0.11	A2V	66.6	S	206	0.268	0.040	107	11	−0.14	0.14	203.1	1077.2
5734	137392	μ^2 Boo	6.50	0.59	G1V	37.3	S	414	0.195	0.025	130	9	−0.37	0.10	123.6	205.6
5756	138268		6.22	0.22	A8V		SB	340	0.029	0.012	11	13	0.70	0.30	35.3	
5758	138290		6.57	0.37	F4V w	50.7	S	234	0.106	0.025	37	30	0.13	0.24	95.1	292.4
5765	138488		7.00	0.27	A3+F0V:	101.6	VB	383	0.070	0.014	38	11	0.96	0.15	93.9	1160.5
5779	138763		6.51	0.58	F7V	25.1	S	381	0.240	0.027	201	10	−0.15	0.10	180.3	136.3
5793	139006	α CrB	2.23	−0.02	A0V+G5V	22.9	SB	252	0.118	0.024	47	6	−0.26	0.19	82.1	51.5
5813	139389		6.52	0.00	F5V:	36.0	S	214	0.101	0.028	18	10	−0.49	0.22	58.0	90.0
5815	139460		6.50	0.53	F6IV-V	22.6	VB	260	0.050	0.018	11	60	−0.65	0.21	24.2	14.8
5816	139461		6.48	0.52	F6V	24.9	SB,VB	260	0.050	0.018	11	71	−0.65	0.21	24.2	17.9
5818	139493		5.74	0.00	A2V	75.5	VB	1178	0.087	0.010	110	4	−0.16	0.10	65.0	443.6
5825	139664		4.64	0.40	F5IV-V	17.5	S	420	0.523	0.037	476	8	−0.28	0.06	357.1	131.1
5829	139777		6.58	0.67	G0IV-V+G8IV-V	22.1	SB,VB	889	0.785	0.031	999	12	−0.07	0.03	623.0	362.9
5830	139798		5.75	0.36	F2V	35.7	S	805	0.017	0.006	9	13	−0.28	0.34	11.7	17.8
5845	140232	τ^7 Ser	5.81	0.20	A2m	53.2	S	274	0.067	0.021	15	6	−0.07	0.28	53.4	181.0
5846	140285		5.94	0.00	A0V+B	141.4	VB	375	0.103	0.020	50	20	−0.04	0.17	83.8	2006.2
5853	140538	ψ Ser	5.88	0.68	G2.5V	14.7	SB	492	0.129	0.018	96	6	−0.64	0.10	63.4	16.3
5856	140722		6.51	0.32	F2IV	68.1	VB	429	0.069	0.015	42	62	0.18	0.20	64.3	356.5
5864	140901		6.01	0.72	G6V	15.2	VB	394	0.147	0.023	67	7	−0.73	0.11	65.2	18.1
5868	141004	λ Ser	4.43	0.60	G0-V	11.8	SB	503	0.062	0.014	30	18	−0.71	0.13	28.2	4.7
5870	141187	υ Ser	5.71	0.09	A3V	77.2	S	540	0.037	0.012	14	7	0.18	0.29	34.7	247.8
5887	141675		5.86	0.25	A3m	79.6	SB,VB	1277	0.016	0.005	14	21	−0.38	0.21	10.3	78.3
5895	141851	36 Ser	5.11	0.12	A3Vnp	48.9	VB	414	0.028	0.010	18	8	−0.38	0.29	17.8	50.9

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
5921	142529		6.31	0.38	F1IV	49.5	S	359	0.037	0.013	16	15	−0.26	0.29	25.7	75.3
5923	142542		6.29	0.43	F6V	50.5	S	446	0.035	0.012	13	20	−0.35	0.31	22.5	68.5
5933	142860	γ Ser	3.85	0.48	F6V	11.1	S	560	0.035	0.012	10	9	−0.90	0.13	12.5	1.9
5936	142908	λ CrB	5.45	0.33	F0IV	41.5	S	269	0.036	0.014	10	24	−0.80	0.45	14.8	30.4
5954	143333	49 Lib	5.47	0.52	F8V	32.8	SB	450	0.087	0.017	49	13	−0.26	0.17	60.1	77.3
5961	143474	ι^1 Nor	4.63	0.24	A7IV	43.0	VB	352	2.045	0.139	618	15	−0.08	0.06	1612.7	3566.3
5977	144069	ξ Sco	5.07	0.00	F5IV		VB	458	0.253	0.025	233	13	−0.32	0.09	167.7	
5978	144070	ξ Sco	4.77	0.47	F5IV		SB,VB	458	0.253	0.025	233	11	−0.32	0.09	167.7	
5986	144284	θ Dra	4.01	0.52	F8IV	20.9	SB	1603	0.750	0.023	999	2	−0.09	0.03	587.5	307.8
5989	144362		6.53	0.48	F2IV	78.1	SB,VB	456	0.070	0.014	43	10	0.48	0.19	76.4	557.1
5991	144415		5.73	0.29	F1IV	52.0	VB	300	0.018	0.010	8	8	−0.13	0.51	13.7	44.4
5999	144668		7.05	0.36	A7IVe	207.9	VB	417	0.299	0.030	158	70	0.92	0.04	394.9	20422.5
6052	145976		6.50	0.39	F3V	73.1	VB	662	0.032	0.009	20	10	−0.59	0.26	16.4	105.0
6063	146361	σ CrB	5.64	0.51	G0VCaIIe	21.7	SB,VB	764	9.487	0.115	999	12	0.06	0.01	8185.4	4606.1
6064	146362	σ CrB	6.66	0.00	G1V	21.7	VB	764	9.487	0.115	999	7	0.06	0.01	8185.4	4606.1
6091	147365		5.46	0.40	F3IV-V	26.8	VB	818	0.640	0.030	999	8	−0.16	0.04	477.5	410.8
6093	147449	σ Ser	4.82	0.34	F0V	27.4	S	439	0.043	0.013	14	7	−0.51	0.30	24.3	21.8
6094	147513		5.40	0.62	G5V	12.9	S	349	0.654	0.045	646	8	−0.25	0.06	457.1	90.6
6097	147553		6.47	0.01	A0V+A0V	116.8	VB	368	0.074	0.017	34	40	0.01	0.21	61.8	1009.1
6098	147584	ζ TrA	4.91	0.55	F9V	12.1	SB	166	1.027	0.081	493	3	−0.22	0.07	733.6	128.6
6109	147787	ι TrA	5.27	0.36	F4IV	40.4	SB,VB	211	0.079	0.023	18	31	−0.08	0.28	62.0	121.1
6111	147869	21 Her	5.85	−0.01	A2pSr:	104.7	SB	425	0.026	0.010	12	1	1.00	0.31	36.1	473.1
6116	148048	η UMi	4.95	0.37	F5V	29.8	S	912	0.030	0.007	19	60	−0.27	0.22	20.6	22.0
6123	148283	25 Her	5.54	0.17	A5V	78.6	VB	808	0.014	0.005	12	13	0.68	0.50	16.7	123.1
6129	148367	υ Oph	4.63	0.17	A3m	37.5	SB,VB	375	0.288	0.029	226	5	−0.12	0.10	221.2	372.0
6137	148515		6.48	0.40	F2V	46.4	SB,VB	354	0.030	0.011	10	14	−0.19	0.34	21.6	55.7
6162	149303		5.65	0.12	A4Vn	69.1	VB	901	0.041	0.009	26	27	−0.31	0.16	27.2	155.2
6171	149661	12 Oph	5.75	0.82	K2V	9.8	S	603	0.258	0.032	148	4	−0.64	0.09	126.8	14.5
6181	150012		6.31	0.41	F5IV	69.5	S	473	0.064	0.014	31	17	0.18	0.21	59.6	344.2
6186	150118	17 Dra	6.53	−0.06	A1Vnn	121.7	S	570	0.072	0.015	26	69	−0.95	0.09	23.6	418.2
6212	150680	ζ Her	2.81	0.65	G0IV	10.8	SB,VB	494	0.128	0.019	77	19	−0.72	0.09	57.4	8.0
6216	150768		6.58	0.10	A2V	91.7	VB	359	0.040	0.014	10	8	−0.58	0.31	20.7	208.8
6218	150894		6.02	0.09	A3IV	231.5	VB	340	0.019	0.009	8	68	0.66	0.57	22.4	1438.3
6237	151613		4.85	0.38	F2V	26.7	SB	777	0.235	0.019	343	6	−0.02	0.07	192.8	164.8
6240	151676		6.10	0.00	A5V	74.2	SB	395	0.202	0.024	204	5	0.34	0.11	203.9	1344.3
6243	151769	20 Oph	4.65	0.47	F7IV	37.0	SB	443	0.163	0.021	157	5	0.00	0.12	135.3	221.4
6254	152107	52 Her	4.82	0.09	A2VpSrCrEu	53.7	VB	787	0.046	0.009	36	12	−0.49	0.16	26.3	90.7
6267	152303		5.98	0.42	F4V	36.0	VB	1248	0.067	0.009	110	10	0.02	0.13	56.1	86.9
6269	152311		5.88	0.68	G3V	28.0	S	344	0.028	0.011	9	19	−0.59	0.34	14.4	13.5
6279	152598	53 Her	5.32	0.29	F0-2V	30.0	S	634	0.065	0.011	48	4	−0.08	0.18	51.0	55.1
6302	153229		6.59	0.40	F3IV	48.4	S	386	0.029	0.012	7	24	−0.20	0.39	21.2	59.3
6310	153363	26 Oph	5.75	0.41	F4V	33.3	S	274	0.098	0.022	44	6	−0.51	0.18	54.7	72.5
6314	153580	ϵ^2 Ara	5.29	0.48	F6V	26.3	VB	243	0.255	0.036	100	6	−0.26	0.14	176.7	146.6
6315	153597	19 Dra	4.89	0.48	F6V	15.1	SB	2622	0.406	0.013	999	4	−0.42	0.02	246.9	67.2
6317	153653		6.59	0.23	A7V	73.0	SB,VB	522	0.017	0.007	8	11	−1.00	0.46	22.6	144.2
6328	153897		6.55	0.41	F5V	42.8	S	632	0.036	0.009	27	19	−0.20	0.24	26.0	57.2
6332	154029	59 Her	5.25	0.02	A3IV	90.5	S	842	0.007	0.004	7	24	0.71	0.52	8.8	86.4
6349	154417		6.01	0.58	F8.5IV-V	20.4	S	496	0.230	0.023	193	2	−0.48	0.08	132.6	65.9
6369	154905	μ Dra	5.83	0.00	F7V	27.0	VB	1270	0.484	0.021	999	7	−0.25	0.04	338.4	294.4
6370	154906	μ Dra	5.80	0.48	F7V	27.0	VB	1270	0.484	0.021	999	5	−0.25	0.04	338.4	294.4
6375	155078		5.56	0.52	F5IV	40.3	S	387	0.075	0.015	64	3	0.46	0.18	81.0	157.8
6386	155379		6.54	−0.04	A0pHg	113.5	S	321	0.035	0.013	14	25	1.00	0.32	48.0	740.6
6400	155875		6.53	0.60	G0-1IV:	38.8	VB	155	0.717	0.073	276	5	−0.10	0.09	558.1	1004.8
6401	155885	36 Oph	5.11	0.86	K1V	6.0	VB	291	0.854	0.058	664	5	−0.59	0.05	442.7	19.0
6402	155886	36 Oph	5.07	0.85	K0V	6.0	SB,VB	291	0.854	0.058	664	6	−0.59	0.05	442.7	19.0
6416	156274		5.48	0.80	G8-K0V	8.8	VB	251	0.029	0.013	8	43	−0.25	0.47	20.3	1.9
6426	156384		5.91	1.04	K3V+K5V	7.0	VB	307	0.206	0.029	120	10	−0.60	0.11	105.5	6.1
6435	156717		6.02	0.04	A2Vnn	114.4	VB	334	0.103	0.020	50	21	0.06	0.19	88.8	1390.6
6436	156729	69 Her	4.65	0.05	A2V	54.5	SB	746	0.031	0.008	28	14	0.00	0.27	26.0	92.5
6469	157482		5.51	0.68	F9Vn:	64.4	SB	925	0.175	0.015	278	5	0.08	0.08	152.8	757.8
6489	157856		6.44	0.46	F3V	61.8	S	416	0.041	0.013	17	18	0.06	0.30	35.5	162.3
6492	157919	45 Oph	4.29	0.40	F5IVδ Sct*	34.2	S	279	0.037	0.014	10	18	−0.61	0.32	18.7	26.1
6493	157950		4.54	0.39	F3V	30.0	SB	381	0.093	0.017	62	7	−0.10	0.18	72.1	77.9
6496	157968		6.21	0.51	F7V	45.3	S	352	0.083	0.017	48	21	−0.29	0.20	56.4	138.5
6537	159217	σ Ara	4.59	−0.03	A0V	118.2	S	196	0.041	0.019	10	10	−0.29	0.46	27.6	461.9
6538	159222		6.56	0.65	G5V	23.7	S	840	0.024	0.007	17	13	−0.79	0.14	10.1	6.8
6539	159312		6.48	0.01	A0V	103.7	S	297	0.080	0.019	37	5	0.10	0.23	71.1	915.0
6554	159541	ν^1 Dra	4.88	0.26	A6V	30.3	SB	1674	0.014	0.004	15	64	−0.41	0.23	8.8	9.7
6555	159560	ν^2 Dra	4.87	0.28	A4m	30.6	SB	1674	0.014	0.004	15	3	−0.41	0.23	8.8	9.9
6561	159876	ξ Ser	3.54	0.26	F0IVδ Sct	32.3	SB,VB	331	0.815	0.052	702	3	−0.01	0.06	673.0	841.7
6569	160032	λ Ara	4.77	0.40	F3IV	21.9	S	164	0.128	0.033	32	10	−0.31	0.27	85.1	48.7
6573	160269	26 Dra	5.23	0.61	G0Va	14.1	VB	2942	0.345	0.012	999	11	−0.48	0.02	199.0	47.3
6594	160910		5.52	0.38	F4V w	35.5	VB	609	0.088	0.013	90	9	0.08	0.16	76.8	115.9
6596	160922	ω Dra	4.80	0.43	F5V	23.5	SB	4848	0.465	0.010	999	5	−0.28	0.02	317.8	209.3
6598	160933		6.42	0.58	F9V	42.5	S	3992	0.005	0.002	11	19	−0.63	0.16	2.7	5.9
6618	161693		5.75	0.01	A2V	126.6	S	1720	0.010	0.003	14	1	0.54	0.28	10.8	207.7
6623	161797	μ Her	3.42	0.75	G5IV	8.4	VB	718	0.197	0.019	232	5	−0.86	0.05	73.9	6.2
6636	162003	ψ^1 Dra	4.58	0.42	F5IV-V	22.0	VB	3397	0.125	0.007	600	7	−0.50	0.04	70.8	41.1
6637	162004	ψ^1 Dra	5.79	0.53	G0V	22.3	VB	3397	0.125	0.007	600	23	−0.50	0.04	70.8	42.2
6638	162076		5.69	0.94	G5IV	76.7	S	615	0.079	0.013	53	14	0.27	0.16	77.2	543.5

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
6641	162132		6.43	0.11	A2V s	131.6	SB,VB	1362	0.082	0.009	178	6	0.28	0.11	80.2	1661.5
6656	162579	30 Dra	5.02	0.02	A2V	66.5	VB	1628	0.009	0.003	8	4	−1.00	0.46	12.4	65.6
6659	162596		6.35	1.12	K0	136.4	SB	355	0.039	0.012	21	19	1.00	0.27	52.9	1178.9
6670	162917		5.77	0.42	F3-5IV-V	31.4	SB	339	0.101	0.020	49	2	−0.50	0.17	57.0	67.1
6681	163336		5.89	0.05	A1V	76.3	VB	311	0.142	0.025	47	23	0.16	0.17	130.1	905.9
6697	163840		6.30	0.63	G2V	28.6	SB,VB	651	0.020	0.007	14	30	−1.00	0.33	27.5	26.8
6710	164259	ζ Ser	4.62	0.38	F2IV	23.2	SB	343	0.197	0.025	133	2	−0.04	0.13	159.3	102.5
6733	164764	τ Oph	5.94	0.00	F5V	52.0	VB	276	0.076	0.019	32	4	−0.14	0.23	57.5	186.3
6734	164765	τ Oph	5.24	0.38	F2V	52.0	SB,VB	276	0.076	0.019	32	3	−0.14	0.23	57.5	186.3
6735	164780		6.36	0.98	K0	146.8	S	2698	0.064	0.006	253	3	0.45	0.08	68.9	1776.9
6748	165185		5.95	0.62	G5V	17.4	S	124	0.585	0.075	131	10	−0.26	0.12	405.8	146.4
6751	165259		5.85	0.46	F5V	40.8	VB	139	0.195	0.041	47	16	0.09	0.21	171.4	342.3
6752	165341	70 Oph	4.03	0.86	K0V	5.1	SB,VB	347	1.649	0.127	410	7	−0.51	0.06	924.6	28.6
6764	165567		6.52	0.46	F7V	50.2	S	955	0.075	0.011	88	5	−0.15	0.13	56.2	169.3
6767	165645		6.34	0.26	F0V	57.3	SB,VB	1050	0.021	0.006	15	15	−1.00	0.26	28.0	110.3
6771	165777	72 Oph	3.73	0.12	A4IV s	25.4	SB,VB	401	0.021	0.010	7	27	−0.58	0.30	11.2	8.6
6775	165908	99 Her	5.04	0.52	F7V	15.7	SB,VB	719	0.016	0.006	9	8	−1.00	0.30	22.2	6.5
6781	166045	100 Her	5.86	0.12	A3V	70.1	VB	633	0.487	0.029	754	7	−0.09	0.05	381.2	2239.4
6782	166046	100 Her	5.90	0.14	A3V	50.9	VB	633	0.487	0.029	754	8	−0.09	0.05	381.2	1181.0
6795	166233	73 Oph	5.73	0.37	F2V	51.0	VB	372	0.055	0.016	20	8	−0.39	0.24	34.5	107.1
6797	166285		5.69	0.47	F5V	46.9	SB	360	0.047	0.014	15	27	−0.28	0.35	32.2	85.0
6809	166865	40 Dra	6.04	0.51	F7	50.9	SB,VB	1564	0.079	0.008	158	4	−0.23	0.09	55.9	173.5
6810	166866	41 Dra	5.68	0.50	F7	53.1	SB,VB	1564	0.079	0.008	158	17	−0.23	0.09	55.9	188.6
6828	167425		6.18	0.58	F9V	22.9	VB	119	0.232	0.049	44	7	−0.28	0.20	158.5	99.6
6843	167833		6.31	0.38	A8V	131.9	S	276	0.139	0.024	82	20	1.00	0.10	189.2	3939.3
6844	167858		6.63	0.31	F2V	62.6	S	337	0.029	0.011	10	11	0.02	0.42	24.7	115.5
6849	168092		6.37	0.34	F1V	106.5	SB	2314	0.015	0.003	40	11	0.51	0.20	16.5	224.2
6850	168151	36 Dra	5.03	0.38	F5V	23.5	S	5748	0.242	0.007	999	4	−0.17	0.02	179.5	118.6
6876	168913	108 Her	5.63	0.21	A5m	57.6	SB	687	0.049	0.010	39	15	−0.17	0.19	36.5	145.0
6914	169938		6.27	0.16	A3/4V	82.6	S	145	0.034	0.019	10	38	0.68	0.77	41.1	335.9
6923	170073	39 Dra	4.98	0.08	A1V	57.8	SB,VB	2349	0.127	0.009	400	83	−0.18	0.06	93.4	373.0
6927	170153	χ Dra	3.57	0.49	F7V	8.1	SB,VB	2629	0.156	0.009	506	20	−0.76	0.03	66.7	5.2
6948	170773		6.22	0.42	F5IV	36.1	S	122	0.138	0.039	22	24	−0.25	0.27	96.3	150.0
6950	170829		6.50	0.79	G8IV	35.8	SB	553	0.024	0.008	14	21	−0.57	0.26	12.6	19.4
6956	170902		6.37	0.22	A4V	74.0	S	305	0.045	0.016	14	41	0.02	0.40	38.0	248.8
6981	171746		6.21	0.53	G2V+G2V	34.2	VB	500	0.549	0.034	768	8	−0.15	0.06	412.6	577.8
6987	171834		5.45	0.37	F3V	31.7	SB	388	0.124	0.021	76	10	−0.14	0.15	93.8	112.8
6998	172051		5.86	0.68	G4V	13.0	S	283	0.045	0.016	15	10	−0.67	0.21	21.4	4.3
7000	172103		6.66	0.42	F1IV-V	103.0	S	360	0.030	0.011	18	48	0.61	0.36	34.6	439.4
7003	172187		6.20	0.24	F0V	125.9	SB	1095	0.014	0.005	9	8	0.20	0.39	13.6	257.8
7012	172555		4.79	0.20	A5IV-V	29.2	S	130	0.097	0.032	16	24	−0.22	0.32	69.3	70.8
7013	172569		6.06	0.28	F0V	71.7	SB	4805	0.010	0.002	33	6	−0.56	0.13	5.3	32.6
7018	172728		5.74	−0.06	A0V	130.5	S	2821	0.016	0.003	45	12	0.21	0.18	14.9	303.6
7034	173093		6.31	0.48	F7V	69.6	S	344	0.131	0.021	67	15	−0.06	0.16	104.9	608.4
7038	173282		6.36	0.45	F5V	56.8	S	307	0.065	0.018	24	8	0.22	0.26	61.4	236.6
7047	173494		6.31	0.40	F6V	44.4	S	458	0.015	0.007	8	26	−1.00	0.60	20.4	48.2
7051	173582	ϵ^1 Lyr	5.06	0.16	A4V	49.8	S	896	0.084	0.011	118	3	−0.13	0.12	63.9	189.1
7052	173583	ϵ^1 Lyr	6.02	0.00	F1V	49.8	S	896	0.084	0.011	118	4	−0.13	0.12	63.9	189.1
7056	173648	ζ^1 Lyr	4.36	0.19	A4m	47.1	SB,VB	631	0.251	0.022	286	3	0.05	0.08	215.3	571.6
7057	173649	ζ^2 Lyr	5.73	0.28	F0IV	46.0	SB,VB	631	0.251	0.022	286	47	0.05	0.08	215.3	546.1
7061	173667	110 Her	4.19	0.46	F6V	19.1	S	272	0.376	0.039	294	9	−0.15	0.10	282.9	123.4
7077	174115		6.75	0.20	A1m	128.4	SB,VB	293	0.024	0.012	7	36	1.00	0.47	32.9	649.4
7123	175225		5.51	0.84	G9IVa	26.1	S	785	0.415	0.024	775	5	−0.20	0.05	300.7	245.0
7124	175286	50 Dra	5.35	0.05	A1Vn	93.2	SB	1757	0.025	0.005	40	22	−0.09	0.18	19.6	203.5
7126	175317		5.79	0.36	F4V	32.0	S	303	0.083	0.019	35	10	−0.17	0.24	61.6	75.5
7152	175813	ϵ CrA	4.87	0.41	F2V	29.9	SB	219	0.088	0.023	28	7	−0.17	0.29	65.3	69.9
7160	175938		6.39	0.28	A8V	88.3	S	1213	0.034	0.007	33	15	−0.11	0.18	26.1	243.4
7162	176051		5.22	0.59	F9V	15.0	VB	729	0.101	0.014	97	5	−0.77	0.08	42.8	11.5
7163	176095		6.21	0.46	F5IV	56.7	S	453	0.041	0.011	37	7	−0.36	0.23	25.9	99.7
7172	176303	11 Aql	5.23	0.53	F8V	47.6	VB	162	0.227	0.040	81	5	0.43	0.16	240.8	653.9
7191	176668		6.45	0.93	G5IV+G8V	93.5	VB	3000	0.115	0.007	676	10	0.40	0.05	119.6	1250.2
7213	177171	ρ Tel	5.16	0.53	F7V	52.4	SB	127	2.085	0.132	999	1	0.24	0.06	1997.8	6572.8
7214	177178		5.83	0.18	A4V	55.2	SB	398	0.078	0.016	58	42	0.12	0.19	70.0	255.2
7215	177196	16 Lyr	5.01	0.19	A7V	39.2	S	688	0.078	0.013	43	34	−0.17	0.16	57.4	105.3
7226	177474	γ CrA	4.93	0.52	F8V	17.9	SB,VB	259	0.044	0.015	16	10	−0.73	0.28	19.5	7.5
7227	177475	γ CrA	4.99	0.52	F8V	17.9	VB	259	0.044	0.015	16	10	−0.73	0.28	19.5	7.5
7231	177552		6.53	0.35	F1V	44.8	S	391	0.069	0.015	36	10	−0.51	0.22	38.6	92.7
7232	177565		6.16	0.72	G5IV	17.2	S	260	0.024	0.012	7	28	−1.00	0.29	32.4	11.4
7235	177724	ζ Aql	2.99	0.01	A0Vn	25.5	SB	435	0.141	0.020	91	26	−0.11	0.13	109.0	84.9
7247	178089		6.54	0.38	F2V	60.8	S	1418	0.047	0.007	84	6	−0.11	0.14	36.2	160.0
7260	178428		6.07	0.70	G5V	21.0	SB,VB	450	0.047	0.012	31	29	−0.29	0.22	32.0	16.8
7261	178449	17 Lyr	5.23	0.34	F0V	40.6	SB,VB	700	0.038	0.009	31	18	−0.56	0.19	20.4	40.1
7263	178476		6.23	0.40	F3V	43.8	VB	505	0.048	0.012	26	5	−0.91	0.18	16.8	38.6
7267	178619		6.48	0.52	F5IV-V	72.5	SB	457	0.039	0.011	32	5	0.75	0.33	47.8	300.2
7272	178911		6.74	0.63	G1V	49.0	VB	378	0.025	0.010	14	18	−1.00	0.00	34.7	99.6
7275	179094		5.81	1.09	K1IV	70.2	SB	930	1.275	0.038	999	3	0.15	0.02	1160.9	6849.5
7280	179422		6.36	0.41	F5V	43.1	S	636	0.069	0.012	76	7	−0.12	0.16	52.8	117.4
7291	179949		6.25	0.54	F9V	27.0	S	305	0.075	0.018	25	31	−0.39	0.23	46.9	41.0
7312	180777	59 Dra	5.13	0.31	A9V	27.3	S	1584	0.127	0.010	351	6	−0.12	0.07	97.5	86.9
7313	180782		6.19	0.02	A1Vn	84.5	S	406	0.043	0.012	25	4	−0.24	0.26	29.9	255.3

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	f_{x14}	L_{x27}
7330	181321		6.48	0.63	G5V	20.9	S	291	0.627	0.049	421	8	−0.08	0.07	494.1	257.1
7345	181655		6.31	0.68	G8V	25.2	S	515	0.105	0.017	105	28	−0.26	0.14	72.5	55.2
7354	182101		6.35	0.44	F6V	35.7	S	498	0.084	0.014	75	2	−0.20	0.16	61.0	93.2
7366	182475		6.52	0.33	A9V	100.8	S	374	0.013	0.007	7	17	0.33	0.59	12.8	155.3
7373	182572	31 Aql	5.16	0.77	G8IVHδ 1	15.1	S	488	0.029	0.009	13	34	−0.62	0.33	14.4	3.9
7377	182640	δ Aql	3.36	0.32	F3IV	15.4	SB	382	0.241	0.027	185	14	−0.56	0.09	129.0	36.5
7384	182761		6.31	−0.02	A0V	122.5	S	381	0.078	0.017	31	24	0.07	0.20	67.4	1210.4
7392	183007		5.71	0.22	Am	57.4	SB	299	0.039	0.014	13	9	−0.06	0.35	31.0	122.3
7416	183806		5.61	−0.04	ApCrEuSr	133.9	S	286	0.036	0.013	11	46	−0.26	0.42	24.8	532.1
7423	184102		6.05	0.07	A3V	94.7	SB	1140	0.013	0.005	9	64	−1.00	0.36	17.7	189.8
7438	184663		6.38	0.41	F6IV	42.0	S	384	0.128	0.020	92	7	0.11	0.16	114.0	241.0
7460	185124	42 Aql	5.46	0.43	F3IV	32.1	S	371	0.093	0.018	49	15	−0.17	0.18	68.8	84.9
7462	185144	σ Dra	4.68	0.79	K0V	5.8	S	1448	0.256	0.014	694	1	−0.80	0.03	104.1	4.1
7469	185395	θ Cyg	4.48	0.38	F4V	18.6	VB	853	0.323	0.021	562	7	−0.42	0.05	196.8	81.4
7484	185912		5.82	0.44	F6Va	39.8	SB	1333	0.123	0.011	248	7	−0.30	0.08	82.7	156.8
7496	186185		5.49	0.46	F5IV	36.7	S	305	0.100	0.021	47	13	−0.44	0.17	59.6	96.0
7528	186882	δ Cyg	2.87	−0.03	B9.5IV+F1V	52.4	SB,VB	751	0.087	0.012	120	7	0.17	0.13	80.0	263.3
7534	187013	17 Cyg	4.99	0.47	F7V	20.9	VB	468	0.136	0.018	109	6	−0.29	0.13	91.8	47.8
7553	187532	51 Aql	5.39	0.38	F0V	26.4	VB	240	0.065	0.019	22	23	−0.65	0.24	31.7	26.5
7557	187642	α Aql	0.77	0.22	A7V	5.1	S	486	0.148	0.020	79	7	−1.00	0.04	201.3	6.4
7560	187691	o Aql	5.11	0.55	F8V	19.4	VB	401	0.046	0.013	16	21	−0.55	0.24	25.0	11.3
7562	187753		6.25	0.10	A1m	116.6	S	428	0.030	0.010	13	14	−0.14	0.37	22.8	370.2
7571	187949		6.48	0.14	A0V+F8IV	116.6	SB,VB	218	0.384	0.043	238	5	0.51	0.09	422.5	6865.9
7577	188074		6.20	0.36	F2V	66.1	SB	854	0.074	0.010	98	8	−0.14	0.13	56.4	294.3
7578	188088		6.18	1.02	K2V	14.2	SB,VB	276	0.416	0.041	272	3	−0.48	0.08	239.8	58.0
7597	188376	ω Sgr	4.70	0.75	G5V	23.8	SB	221	0.040	0.017	9	39	−0.13	0.42	30.8	20.9
7602	188512	β Aql	3.71	0.86	G8IV	13.7	S	343	0.248	0.029	202	12	−0.34	0.10	161.3	36.3
7605	188642		6.55	0.39	F4V	52.7	S	285	0.076	0.019	32	11	−0.10	0.24	59.3	196.9
7610	188728	φ Aql	5.28	−0.01	A1IV	63.1	SB	400	0.039	0.012	20	4	−0.32	0.26	25.6	122.1
7631	189245		5.66	0.49	F7V	20.9	SB	250	1.789	0.125	622	1	0.05	0.07	1534.1	799.9
7634	189296		6.12	0.00	A4Vn	85.7	S	1227	0.010	0.004	14	6	−0.12	0.34	8.0	70.1
7665	190248	δ Pav	3.56	0.76	G6-8IV	6.1	S	124	0.073	0.028	10	60	−0.53	0.41	40.2	1.8
7672	190406	15 Sge	5.80	0.61	G1V	17.7	S	374	0.056	0.015	23	25	−1.00	0.09	76.2	28.5
7674	190422		6.26	0.53	F8V	23.2	S	195	0.282	0.041	95	7	−0.34	0.13	183.9	118.5
7683	190771		6.19	0.64	G5IV	18.9	VB	710	0.527	0.028	970	3	−0.09	0.05	412.6	175.8
7689	191026	27 Cyg	5.36	0.85	K0IV	24.2	VB	664	0.336	0.024	476	5	−0.27	0.07	230.9	161.6
7692	191096		6.21	0.43	F4V	52.2	S	1372	0.070	0.008	168	13	0.01	0.10	58.5	190.9
7693	191104		6.43	0.46	F3V	43.3	SB,VB	297	0.089	0.020	32	12	−0.49	0.18	50.6	113.3
7697	191195		5.85	0.39	F5V	36.5	S	1175	0.023	0.006	21	11	−0.65	0.15	11.0	17.5
7702	191329		6.54	0.13	A3V	200.0	S	1096	0.011	0.005	9	74	0.59	0.39	12.7	607.6
7727	192455	68 Dra	5.75	0.47	F5V	48.7	S	1077	0.121	0.012	242	1	−0.08	0.09	95.7	271.3
7755	192983		6.31	0.00	A2Vn	108.8	VB	1051	0.006	0.003	8	17	−0.40	0.33	3.7	52.6
7756	192985		5.91	0.38	F5V:	34.5	S	903	0.041	0.008	41	11	−0.37	0.16	25.8	36.8
7781	193592		5.76	0.11	A2V s	89.2	SB,VB	1234	0.038	0.006	54	1	−0.03	0.17	30.6	291.8
7793	194012		6.17	0.51	F8V	26.1	S	432	0.051	0.013	28	22	−0.52	0.19	28.2	23.0
7822	194943	ρ Cap	4.78	0.38	F2IV	30.3	S	412	0.098	0.018	49	1	−0.56	0.15	52.1	57.1
7826	195050	40 Cyg	5.62	0.06	A3V	82.9	S	621	0.020	0.008	9	32	−0.93	0.25	6.9	56.9
7828	195068	43 Cyg	5.69	0.26	dF0	37.7	S	947	0.093	0.011	118	51	−0.37	0.10	58.9	99.9
7882	196524	β Del	3.63	0.44	F5IV	29.9	SB,VB	520	0.388	0.041	214	5	0.22	0.10	367.7	392.2
7896	196755	κ Del	5.05	0.72	G2IV	30.1	S	458	0.081	0.015	45	13	−0.63	0.14	40.4	43.7
7917	197120		6.08	0.14	A2V	82.0	SB,VB	481	0.017	0.007	9	11	0.22	0.43	15.9	128.0
7925	197373		6.01	0.46	F6IV	33.2	S	911	0.119	0.013	141	4	−0.15	0.10	89.4	117.8
7935	197649		6.49	0.39	F3IV	69.3	SB	309	0.034	0.013	10	31	0.71	0.34	41.7	239.7
7936	197692	ψ Cap	4.14	0.43	F4V	14.7	S	224	0.634	0.056	408	8	−0.13	0.08	483.2	124.5
7947	197963	γ^1 Del	5.14	0.49	F7V	31.6	VB	480	0.254	0.025	309	9	0.27	0.09	247.8	295.2
7948	197964	γ^2 Del	4.27	1.04	K1IV	31.1	VB	480	0.254	0.025	309	2	0.27	0.09	247.8	287.0
7950	198001	ϵ Aqr	3.77	0.00	A1V	70.4	S	432	0.013	0.007	7	26	1.00	0.79	17.6	104.0
7957	198149	η Cep	3.43	0.92	K0IV	14.3	VB	841	0.011	0.005	10	28	−0.77	0.23	4.8	1.2
7982	198571	4 Aqr	5.99	0.46	F5V+F7V	58.9	VB	385	0.047	0.013	23	13	−0.56	0.20	25.2	104.5
8013	199260		5.70	0.50	F7V	21.0	S	375	0.389	0.034	352	5	−0.18	0.08	285.8	150.8
8024	199603		6.01	0.23	F0IV	84.5	SB	186	0.167	0.034	47	16	0.06	0.19	144.3	1234.0
8028	199629	ν Cyg	3.94	0.02	A1Vn	109.1	SB	657	0.048	0.010	43	85	0.61	0.22	55.4	788.3
8034	199766	ϵ Equ	5.23	0.46	F6IV	60.3	SB,VB	457	0.135	0.019	122	5	0.22	0.13	127.6	554.9
8041	199960	11 Aqr	6.21	0.63	G1V	26.5	S	450	0.017	0.007	8	55	−0.81	0.30	6.7	5.7
8048	200163	ζ Mic	5.30	0.41	F3V	35.3	S	303	0.115	0.022	62	2	−0.07	0.18	91.3	136.2
8056	200375		6.25	0.48	F5V	65.9	VB	432	0.075	0.015	58	11	−0.16	0.18	56.1	291.7
8060	200499	η Cap	4.84	0.17	A5V	48.4	VB	215	0.049	0.019	10	17	−1.00	0.25	67.1	188.4
8061	200525		5.68	0.59	F8-G0V	18.7	VB	139	0.243	0.046	60	16	−0.37	0.16	154.4	64.8
8072	200740		6.37	0.98	K0	119.0	S	810	0.036	0.008	50	5	0.40	0.21	38.0	643.7
8077	200790	4 Equ	5.94	0.54	F8V	37.0	VB	468	0.305	0.027	383	8	−0.23	0.08	216.3	353.5
8085	201091	61 Cyg	5.21	1.18	K5V	3.5	VB	543	0.422	0.030	452	10	−0.72	0.04	189.5	2.8
8091	201352	27 Cap	6.25	0.38	F1IV	53.9	S	320	0.088	0.019	53	9	0.08	0.21	76.9	266.7
8099	201636		5.87	0.40	F3IV	49.1	S	981	0.027	0.007	27	17	−0.29	0.20	18.3	52.8
8100	201647		5.83	0.45	F5IV	32.4	S	464	0.119	0.018	97	9	−0.51	0.12	66.7	83.6
8101	201671		6.68	0.03	A1V		SB,VB	495	0.068	0.013	55	2	0.07	0.19	59.0	
8130	202444	τ Cyg	3.72	0.39	F2IV	20.9	SB,VB	492	0.240	0.025	210	7	−0.44	0.08	143.2	75.0
8133	202582		6.39	0.60	G2IV+G2IV	41.4	VB	871	0.014	0.005	10	25	−1.00	0.21	18.5	37.9
8140	202730	θ Ind	4.39	0.19	A5V	29.8	VB	317	0.419	0.040	275	7	−0.12	0.09	321.7	341.3
8151	203006	θ^1 Mic	4.82	0.02	ApCrEuSr	57.2	S	379	0.106	0.019	66	4	0.30	0.18	105.1	411.2
8162	203280	α Cep	2.44	0.22	A7V	15.0	S	774	0.019	0.007	11	20	−1.00	0.24	26.4	7.1

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
8170	203454		6.40	0.53	F8V	26.6	SB	575	0.729	0.038	999	3	−0.23	0.05	517.1	436.7
8205	204121		6.13	0.44	F5V	47.9	S	335	0.056	0.015	32	11	0.00	0.26	46.9	128.5
8208	204153		5.60	0.32	F0V	34.3	S	702	0.030	0.008	20	12	−0.62	0.28	15.3	21.5
8210	204188		6.07	0.22	A8m	46.0	SB	255	1.052	0.068	600	8	−1.00	0.00	1431.8	3631.1
8220	204485		5.80	0.32	F0V	44.6	S	412	0.060	0.014	38	9	−0.17	0.19	44.6	106.3
8222	204577		6.57	0.41	F0V	133.2	S	376	0.040	0.013	14	24	0.43	0.30	42.1	894.0
8245	205289	37 Cap	5.69	0.40	F1V	27.1	S	363	0.192	0.025	129	3	−0.42	0.11	116.9	103.0
8263	205765		6.25	0.06	A2V	122.2	VB	375	0.026	0.011	9	46	−0.26	0.38	18.0	322.3
8266	205835	74 Cyg	5.01	0.18	A5V	63.3	S	664	0.014	0.006	9	8	−0.54	0.41	7.6	36.6
8276	206043		5.85	0.32	F2V	39.1	S	304	0.030	0.012	8	49	−0.29	0.36	20.5	37.4
8283	206301	42 Cap	5.18	0.65	G1V+G0V	32.5	SB	263	0.639	0.052	503	5	0.07	0.08	554.7	702.8
8307	206774	79 Cyg	5.65	0.00	A0V	83.5	S	605	0.439	0.030	145	41	0.66	0.09	518.1	4326.6
8309	206826	μ^1 Cyg	4.73	0.48	F6V	22.4	SB,VB	402	0.155	0.022	111	4	−0.17	0.13	114.6	68.8
8310	206827	μ^2 Cyg	6.08	0.36	G2V	22.4	VB	402	0.155	0.022	111	8	−0.17	0.13	114.6	68.8
8314	206860		5.94	0.59	G0V	18.4	S	196	0.635	0.060	296	12	−0.27	0.09	436.5	176.7
8315	206901	κ Peg	4.13	0.43	F5IV	35.3	SB,VB	354	0.244	0.028	166	6	−0.06	0.11	194.7	290.0
8322	207098	δ Cap	2.87	0.29	Am	11.8	SB	345	1.655	0.125	479	5	−0.29	0.07	1120.9	187.5
8323	207129		5.58	0.60	G0V	15.6	VB	334	0.067	0.017	25	10	−0.48	0.21	38.4	11.2
8330	207223		6.21	0.34	F3V	50.3	S	316	0.022	0.010	7	8	−1.00	0.55	29.5	89.2
8363	208177		6.20	0.48	F5IV	69.7	VB	323	0.054	0.016	21	10	0.20	0.28	50.5	293.4
8369	208496	κ^1 Ind	6.12	0.46	F3V	66.5	SB	375	0.537	0.039	480	13	−0.04	0.07	434.9	2300.1
8376	208703		6.33	0.37	F5IV	55.6	S	174	0.095	0.028	16	47	−0.02	0.29	77.9	288.4
8387	209100	ϵ Ind	4.69	1.06	K4-5V	3.6	S	414	0.260	0.029	169	9	−0.85	0.05	99.1	1.6
8400	209369	16 Cep	5.03	0.44	F5V	37.5	S	711	0.206	0.018	308	10	−0.04	0.08	166.7	280.5
8417	209790	ξ Cep	4.29	0.34	A3/6Vm	31.2	SB,VB	644	0.240	0.021	306	7	−0.42	0.07	145.9	169.7
8423	209942		6.98	0.52	F6IV-V	39.4	SB,VB	786	2.607	0.059	999	16	−0.04	0.02	2111.1	3921.2
8430	210027	ι Peg	3.76	0.44	F5V	11.8	SB	505	0.260	0.024	261	7	−0.58	0.07	136.1	22.5
8431	210049	μ PsA	4.50	0.05	A2V	40.0	S	243	0.034	0.013	14	21	−1.00	1.34	46.8	89.6
8455	210460		6.18	0.69	G0V	55.5	S	402	0.097	0.017	71	10	0.27	0.17	94.4	348.2
8457	210464		6.09	0.50	F6V	56.7	S	291	0.117	0.022	62	7	−0.05	0.18	93.8	360.7
8462	210705	39 Aqr	6.03	0.38	F2V	43.5	S	268	0.043	0.014	18	12	−0.34	0.29	28.0	63.3
8463	210715		5.40	0.15	A5V	54.8	S	511	0.096	0.016	67	8	−0.37	0.14	61.1	219.6
8466	210762		5.92	1.51	K0		S	513	0.016	0.007	12	87	0.83	0.65	20.6	
8472	210855		5.24	0.51	F8V	37.0	S	624	0.111	0.014	156	8	0.03	0.13	94.3	154.5
8474	210884		5.50	0.38	F2V	32.7	VB	155	0.064	0.024	15	16	−0.25	0.32	44.6	56.9
8501	211415		5.37	0.60	G3V	13.6	VB	359	0.040	0.013	12	11	−1.00	0.13	54.8	12.2
8507	211575		6.39	0.44	F3V	41.5	VB	281	0.027	0.012	8	4	−0.79	0.27	11.3	23.3
8518	212061	γ Aqr	3.84	−0.05	A0V	48.4	SB,VB	244	0.055	0.017	22	15	−0.43	0.24	33.2	92.9
8519	212071		6.42	0.00	K2	505.1	S	668	0.018	0.007	9	75	0.00	0.40	14.7	4488.8
8533	212404	51 Aqr	5.78	−0.04	A0V	130.0	VB	268	0.030	0.014	9	44	−0.17	0.41	22.2	448.2
8544	212697	53 Aqr	6.57	0.00	G2V	20.1	VB	274	0.847	0.058	603	9	−0.32	0.06	560.4	270.4
8545	212698	53 Aqr	6.35	0.61	G1V	20.1	VB	274	0.847	0.058	603	6	−0.32	0.06	560.4	270.4
8547	212728		5.55	0.20	A4V	43.6	S	500	0.012	0.006	8	60	1.00	0.96	16.1	36.4
8558	213051	ζ^1 Aqr	4.59	0.00	F6IV	31.7	VB	244	0.488	0.045	316	14	0.12	0.09	436.7	525.5
8559	213052	ζ^2 Aqr	4.42	0.38	F3V	31.7	VB	244	0.488	0.045	316	11	0.12	0.09	436.7	525.5
8566	213235	37 Peg	5.48	0.38	F2V+F2V	52.8	SB,VB	197	0.025	0.013	7	74	−0.96	1.18	8.2	27.2
8576	213398	β PsA	4.29	0.01	A0V	45.5	VB	305	0.064	0.018	23	40	−0.52	0.20	35.8	88.5
8578	213403	ρ^1 Cep	5.83	0.15	A2Vm	62.6	S	1075	0.022	0.006	24	4	−0.11	0.24	17.3	81.1
8580	213428		6.16	1.08	K0	145.1	S	207	0.080	0.022	35	19	0.39	0.27	83.2	2097.5
8581	213429		6.14	0.56	F7V	25.5	VB	193	0.031	0.015	7	38	−1.00	0.80	41.8	32.6
8592	213845	υ Aqr	5.20	0.44	F4IV	22.7	S	265	0.271	0.036	143	9	−0.27	0.11	186.7	115.5
8598	214019		6.34	0.00	A0V	122.7	VB	573	0.018	0.007	8	43	−0.94	0.32	5.8	104.9
8600	214085	σ^1 Gru	6.28	0.12	A3Vn	69.4	SB	254	0.038	0.016	7	13	−0.10	0.37	29.5	169.9
8608	214298		6.30	0.00	K5	256.4	S	440	0.059	0.013	43	64	−0.04	0.22	47.8	3758.3
8629	214810		6.31	0.52	F6V	33.5	VB	142	0.071	0.026	15	33	−0.85	0.41	26.9	36.1
8631	214850		5.71	0.72	G4V	32.8	VB	423	0.038	0.012	20	4	−0.72	0.20	17.2	22.2
8646	215121		6.30	0.56	F3V	135.5	S	356	0.043	0.013	20	20	0.38	0.28	44.7	982.0
8687	216172		6.19	0.00	F5V	62.5	VB	735	0.081	0.012	72	8	−0.29	0.14	54.9	256.4
8721	216803		6.48	1.10	K4V	7.6	S	150	0.526	0.065	185	7	−0.47	0.10	306.3	21.4
8724	216900		6.51	0.18	A3V s	81.6	VB	393	0.047	0.013	26	3	0.14	0.26	42.5	337.9
8767	217792	π PsA	5.11	0.29	F0V+F3V	28.6	SB	146	0.379	0.056	109	5	−0.03	0.14	309.0	302.1
8787	218227	θ Gru	4.28	0.42	F5mδ Del	40.8	VB	201	0.085	0.025	23	6	−0.33	0.26	55.8	111.1
8788	218235		6.13	0.44	F6V s	43.2	SB	433	0.089	0.016	59	6	−0.21	0.17	64.4	143.7
8792	218261		6.30	0.49	F7V	28.3	S	465	0.111	0.017	72	15	−0.45	0.14	65.6	62.9
8799	218396		5.99	0.26	A5V	39.9	S	470	0.021	0.008	13	5	−0.88	0.27	7.7	14.7
8805	218470	5 And	5.70	0.44	F5V	34.1	S	414	0.044	0.012	18	21	−0.40	0.26	27.1	37.7
8814	218630		5.81	0.48	F4IV	34.6	VB	202	0.195	0.036	66	9	0.06	0.17	168.4	241.8
8825	218804	6 And	5.94	0.44	F5IV	28.3	S	381	0.108	0.019	76	16	−0.35	0.15	69.9	66.8
8832	219134		5.56	1.01	K3V	6.5	S	497	0.023	0.009	10	35	−0.96	0.17	7.4	0.4
8838	219291		6.41	0.45	F6IV w	112.7	VB	505	0.020	0.008	11	8	0.38	0.44	20.3	309.3
8843	219482		5.66	0.51	F7V	20.6	S	374	0.635	0.043	560	4	0.00	0.07	528.1	267.5
8845	219487		6.60	0.40	F5V	43.0	S	474	0.031	0.010	18	6	−0.12	0.32	23.6	52.3
8859	219693	φ Gru	5.53	0.44	F5V	34.6	S	145	0.063	0.025	12	4	0.44	0.38	66.7	95.6
8865	219832	ψ^3 Aqr	4.98	−0.02	A0V	76.3	VB	310	0.149	0.024	100	8	−0.05	0.15	119.6	834.0
8866	219834	94 Aqr	5.08	0.80	G5IV	20.7	SB,VB	304	0.036	0.013	13	19	−0.78	0.32	15.0	7.7
8868	219877	96 Aqr	5.55	0.39	F3IV-V	34.8	SB,VB	341	0.185	0.026	120	4	−0.32	0.13	122.6	177.9
8877	220003		6.05	0.42	F5mδ Del	90.2	VB	192	0.059	0.021	14	1	−1.00	0.69	80.4	782.5
8883	220096		5.64	0.82	G4V	100.8	S	126	3.258	0.165	999	11	0.06	0.05	2810.9	34175.4
8884	220105		6.13	0.17	A5Vn	80.0	VB	450	0.020	0.008	13	32	−0.06	0.38	15.8	121.2
8885	220117	12 And	5.77	0.46	F5V	42.4	S	406	0.082	0.016	48	4	−0.28	0.18	56.0	120.3

Table 2. continued

HR	HD	name	V	$B-V$	MK type	dist	binary	Exp.	CR	±CR	Li	Δ	hr	Δhr	$f_{\rm x14}$	$L_{\rm x27}$
8888	220242		6.62	0.37	F5V	65.1	S	478	0.037	0.010	28	1	−0.36	0.24	23.5	119.1
8907	220729	o Gru	5.52	0.40	F4V	32.0	SB	182	0.102	0.029	20	56	0.34	0.28	103.2	126.2
8955	221970		6.35	0.46	F6V	77.0	S	326	0.046	0.015	17	19	−0.12	0.29	35.4	250.8
8964	222143		6.58	0.66	G5	23.1	S	344	0.286	0.030	239	6	−0.36	0.10	183.2	117.1
8968	222345	ω^1 Aqr	5.00	0.24	F0IV	41.0	SB	240	0.067	0.019	22	10	−0.17	0.27	49.6	99.9
8969	222368	ι Psc	4.13	0.51	F7V	13.8	S	373	0.111	0.019	73	2	−0.88	0.07	40.7	9.3
8977	222451		6.23	0.39	F1V	44.2	S	481	0.032	0.010	13	14	−1.00	0.25	43.4	101.4
9016	223352	δ Scl	4.57	0.01	A0V	44.0	S	301	0.198	0.029	85	10	−0.01	0.14	163.8	379.4
9020	223421		6.33	0.40	F2IV	76.6	S	564	0.048	0.011	38	3	0.55	0.19	54.1	380.1
9028	223552		6.44	0.37	F3V	40.5	VB	483	0.200	0.023	197	7	−0.24	0.10	141.1	277.2
9038	223778		6.39	0.98	K3V	10.8	SB	747	0.419	0.025	795	8	−0.39	0.05	261.6	36.4
9039	223781	82 Peg	5.30	0.18	A4Vn	57.8	S	428	0.030	0.010	20	15	−0.01	0.33	24.9	99.6
9060	224361		5.97	0.11	A1IV	62.9	S	278	0.077	0.019	26	17	0.07	0.25	66.5	314.3
9072	224617	ω Psc	4.01	0.42	F4IV	32.5	SB,VB	431	0.067	0.015	34	17	−0.43	0.21	40.5	51.1
9078	224758		6.46	0.50	F7-8IV-V	78.7	S	277	0.046	0.015	19	14	−0.16	0.30	34.5	255.9
9088	224930	85 Peg	5.75	0.67	G5VbFe-2	12.4	SB	369	0.029	0.011	12	27	−0.44	0.32	17.4	3.2
9093	225003	32 Psc	5.63	0.29	F0V	37.7	S	415	0.077	0.016	43	31	−0.47	0.18	44.8	76.2
9095	225045		6.25	0.53	F6V	61.9	S	313	0.045	0.015	11	14	0.11	0.32	40.1	183.8
9106	225233		7.31	0.44	F2V	91.6	S	557	0.013	0.007	8	21	−0.23	0.40	9.6	96.0
9107	225239		6.12	0.62	G2V	36.8	S	262	0.628	0.052	489	1	−0.27	0.07	432.3	700.2