

H2

BRIGHT STARS, J2022.5

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
π Phe	9069	00 00 05.2	-52 37 13		5.13	+1.12	+1.08	K0 III
28 ω Psc	9072	00 00 28.1	+06 59 16	b	4.03	+0.42	+0.49	F3 V
ϵ Tuc	9076	00 01 04.2	-65 27 07		4.49	-0.08	-0.04	B9 IV
θ Oct	9084	00 02 43.3	-76 56 30		4.78	+1.25	+1.26	K2 III
30 YY Psc	9089	00 03 06.8	-05 53 21		4.37	+1.63	+2.35	M3 III
2 Cet	9098	00 04 53.4	-17 12 39		4.55	-0.05	-0.03	B9 IV
33 BC Psc	3	00 06 29.2	-05 34 55	b	4.61	+1.03	+1.04	K0 III-IV
21 α And	15	00 09 33.3	+29 12 52	dbn01	2.07	-0.04	-0.10	B9p Hg Mn
11 β Cas	21	00 10 23.6	+59 16 26	svdb	2.28	+0.38	+0.40	F2 III
ϵ Phe	25	00 10 32.8	-45 37 24		3.88	+1.01	+1.00	K0 III
22 And	27	00 11 29.9	+46 11 51		5.01	+0.41	+0.55	F0 II
κ^2 Scl	34	00 12 42.8	-27 40 28	d	5.41	+1.35	+1.31	K5 III
θ Scl	35	00 12 52.4	-35 00 26		5.24	+0.46	+0.53	F3/5 V
88 γ Peg	39	00 14 23.8	+15 18 31	svdb	2.83	-0.19	-0.22	B2 IV
89 χ Peg	45	00 15 46.2	+20 19 54	as	4.79	+1.57	+1.93	M2+ III
7 AE Cet	48	00 15 46.9	-18 48 30		4.44	+1.64	+1.96	M1 III
25 σ And	68	00 19 30.6	+36 54 35	b	4.51	+0.05	+0.06	A2 Va
8 ι Cet	74	00 20 34.4	-08 41 58	d	3.56	+1.21	+1.13	K1 IIIb
ζ Tuc	77	00 21 13.7	-64 44 34		4.23	+0.58	+0.65	F9 V
41 Psc	80	00 21 45.4	+08 18 54		5.38	+1.34	+1.28	K3- III Ca 1 CN 0.5
27 ρ And	82	00 22 18.8	+38 05 35		5.16	+0.44	+0.51	F6 IV
R And	90	00 25 13.7	+38 42 05	svd	10.71	+2.08	+2.63	S5/4.5e
β Hyi	98	00 26 54.1	-77 07 40		2.82	+0.62	+0.68	G1 IV
κ Phe	100	00 27 18.3	-43 33 19		3.93	+0.18	+0.20	A5 Vn
α Phe	99	00 27 23.5	-42 11 02	bn02	2.40	+1.08	+1.11	K0 IIIb
	118	00 31 30.0	-23 39 49	b	5.17	+0.13	+0.14	A5 Vn
λ^1 Phe	125	00 32 29.7	-48 40 46	db	4.76	+0.02	+0.01	A1 Va
β^1 Tuc	126	00 32 33.9	-62 50 04	db	4.36	-0.06	-0.02	B9 V
15 κ Cas	130	00 34 17.8	+63 03 20	sb	4.17	+0.13	+0.17	B0.7 Ia
29 π And	154	00 38 05.3	+33 50 34	db	4.34	-0.12	-0.08	B5 V
17 ζ Cas	153	00 38 14.3	+54 01 14		3.69	-0.20	-0.23	B2 IV
	157	00 38 33.9	+35 31 23	s	5.45	+0.89	+0.82	G2 Ib-II
30 ϵ And	163	00 39 45.0	+29 26 01		4.34	+0.87	+0.92	G6 III Fe-3 CH 1
31 δ And	165	00 40 32.2	+30 59 02	sdb	3.27	+1.27	+1.23	K3 III
18 α Cas	168	00 41 47.9	+56 39 37	dn03	2.24	+1.17	+1.13	K0- IIIa
μ Phe	180	00 42 23.0	-45 57 43		4.59	+0.95	+0.95	G8 III
η Phe	191	00 44 21.5	-57 20 24	d	4.36	+0.02	+0.02	A0.5 IV
16 β Cet	188	00 44 43.1	-17 51 48	n04	2.04	+1.02	+1.00	G9 III CH-1 CN 0.5 Ca 1
22 o Cas	193	00 45 59.4	+48 24 26	db	4.48	-0.07	0.00	B5 III
34 ζ And	215	00 48 32.2	+24 23 21	vdb	4.08	+1.10	+1.06	K0 III
λ Hyi	236	00 49 21.8	-74 48 05		5.09	+1.35	+1.34	K5 III
63 δ Psc	224	00 49 51.1	+07 42 26	d	4.44	+1.50	+1.58	K4.5 IIIb
64 Psc	225	00 50 09.9	+17 03 42	db	5.07	+0.50	+0.57	F7 V
24 η Cas	219	00 50 28.9	+57 56 02	sdb	3.46	+0.59	+0.66	F9 V
35 ν And	226	00 51 03.8	+41 12 04	b	4.53	-0.14	-0.14	B5 V
19 ϕ^2 Cet	235	00 51 15.2	-10 31 25		5.17	+0.51	+0.59	F8 V
	233	00 52 06.8	+64 22 10	cdb	5.35	+0.53	+0.60	G0 III-IV + B9.5 V
20 Cet	248	00 54 09.6	-01 01 21		4.78	+1.55	+1.66	M0- IIIa
λ^2 Tuc	270	00 55 50.3	-69 24 21		5.45	+1.10	+1.05	K2 III
37 μ And	269	00 58 00.6	+38 37 15	d	3.86	+0.13	+0.14	A5 IV-V

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		h m s	° ' "					
27 γ Cas	264	00 58 05.1	+60 50 17	db	2.15	-0.05	-0.02	B0 IVnpe (shell)
38 η And	271	00 58 24.8	+23 32 19	db	4.40	+0.94	+0.94	G8 ⁻ IIIb
68 Psc	274	00 59 03.6	+29 06 48		5.44	+1.08	+0.99	gG6
α Scl	280	00 59 41.3	-29 14 11	sb	4.30	-0.15	-0.12	B4 Vp
σ Scl	293	01 03 30.8	-31 25 53		5.50	+0.08	+0.10	A2 V
71 ϵ Psc	294	01 04 06.8	+08 00 39		4.27	+0.95	+0.98	G9 III Fe-2
β Phe	322	01 07 05.0	-46 35 54	d	3.32	+0.89	+0.90	G8 III
ι Tuc	332	01 08 11.8	-61 39 20		5.36	+0.88	+0.80	G5 III
ν Phe	331	01 08 49.3	-41 22 02	dm	5.21	+0.16	+0.19	A3 IV/V
ζ Phe	338	01 09 19.5	-55 07 33	vdbm	3.94	-0.12	-0.08	B7 V
31 η Cet	334	01 09 43.3	-10 03 49	d	3.46	+1.16	+1.11	K2 ⁻ III CN 0.5
30 μ Cas	321	01 09 47.2	+55 01 48	db	5.17	+0.70	+0.83	G5 Vb
42 ϕ And	335	01 10 49.1	+47 21 40	dm	4.26	+0.01	-0.02	B7 III
43 β And	337	01 11 00.0	+35 44 21	ad	2.07	+1.58	+1.74	M0 ⁺ IIIa
	285	01 12 17.4	+86 22 35		4.24	+1.21	+1.16	K2 III
33 θ Cas	343	01 12 29.3	+55 16 08	db	4.34	+0.17	+0.19	A7m
84 χ Psc	351	01 12 40.1	+21 09 13		4.66	+1.02	+0.99	G8.5 III
83 τ Psc	352	01 12 54.4	+30 12 31	b	4.51	+1.09	+1.05	K0.5 IIIb
86 ζ Psc	361	01 14 54.6	+07 41 37	db	5.21	+0.32	+0.37	F0 Vn
89 Psc	378	01 18 57.7	+03 43 56	b	5.13	+0.07	+0.11	A3 V
90 ν Psc	383	01 20 42.5	+27 22 54	b	4.74	+0.03	+0.10	A2 IV
34 ϕ Cas	382	01 21 30.9	+58 20 57	sdb	4.95	+0.68	+0.93	F0 Ia
46 ξ And	390	01 23 40.6	+45 38 45	b	4.87	+1.08	+1.04	K0 ⁻ IIIb
45 θ Cet	402	01 25 08.9	-08 04 04	d	3.60	+1.07	+1.05	K0 IIIb
37 δ Cas	403	01 27 18.5	+60 21 05	sdb	2.66	+0.16	+0.19	A5 IV
36 ψ Cas	399	01 27 33.3	+68 14 48	d	4.72	+1.05	+1.01	K0 III CN 0.5
94 Psc	414	01 27 54.9	+19 21 23		5.50	+1.11	+1.04	gK1
48 ω And	417	01 29 00.8	+45 31 19	d	4.83	+0.42	+0.49	F5 V
γ Phe	429	01 29 20.4	-43 12 13	vb	3.41	+1.54	+1.73	M0 ⁻ IIIa
48 Cet	433	01 30 40.9	-21 30 49	d	5.11	+0.03	+0.04	A1 Va
δ Phe	440	01 32 11.1	-48 57 23		3.93	+0.97	+1.00	G9 III
99 η Psc	437	01 32 41.5	+15 27 40	dm	3.62	+0.97	+0.94	G7 IIIa
50 ν And	458	01 38 07.6	+41 31 02	db	4.10	+0.54	+0.58	F8 V
α Eri	472	01 38 32.9	-57 07 23	n05	0.45	-0.16	-0.17	B3 Vnp (shell)
51 And	464	01 39 23.2	+48 44 29		3.59	+1.28	+1.23	K3 ⁻ III
40 Cas	456	01 40 21.6	+73 09 13	d	5.28	+0.97	+0.96	G7 III
106 ν Psc	489	01 42 36.3	+05 36 02		4.45	+1.35	+1.37	K3 IIIb
π Scl	497	01 43 09.4	-32 12 52		5.25	+1.04	+1.04	K1 II/III
	500	01 43 51.8	-03 34 40		4.98	+1.38	+1.26	K3 II-III
ϕ Per	496	01 45 05.1	+50 48 04	b	4.01	-0.10	-0.08	B2 Vep
52 τ Cet	509	01 45 06.8	-15 49 11	d	3.49	+0.73	+0.82	G8 V
110 σ Psc	510	01 46 35.1	+09 16 12	s	4.26	+0.94	+0.93	G8 III
ϵ Scl	514	01 46 41.9	-24 56 28	dm	5.29	+0.40	+0.46	F0 V
	513	01 47 07.1	-05 37 18	s	5.37	+1.52	+1.55	K4 III
53 χ Cet	531	01 50 41.5	-10 34 33	d	4.66	+0.33	+0.38	F2 IV-V
55 ζ Cet	539	01 52 34.3	-10 13 29	db	3.74	+1.14	+1.07	K0 III
2 α Tri	544	01 54 22.3	+29 41 15	dvb	3.42	+0.49	+0.55	F6 IV
ψ Phe	555	01 54 32.7	-46 11 35	b	4.39	+1.60	+2.49	M4 III
111 ξ Psc	549	01 54 43.4	+03 17 52	b	4.61	+0.93	+0.93	G9 IIIb Fe-0.5
ϕ Phe	558	01 55 17.9	-42 23 14	b	5.12	-0.06	-0.04	Ap Hg

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		h m s	° ' "					
η^2 Hyi	570	01 55 30.5	-67 32 14		4.68	+0.93	+0.95	G8.5 III
6 β Ari	553	01 55 53.3	+20 55 02	db	2.64	+0.17	+0.18	A4 V
45 ϵ Cas	542	01 56 02.4	+63 46 47		3.35	-0.15	-0.12	B3 IV:p (shell)
χ Eri	566	01 56 49.9	-51 29 52	d	3.69	+0.84	+0.90	G8 III-IV CN-0.5 H δ 0.5
α Hyi	591	01 59 28.7	-61 27 40		2.86	+0.29	+0.34	F0n III-IV
59 ν Cet	585	02 01 03.9	-20 58 11		3.99	+1.55	+1.79	M0 IIIb
113 α Psc	596	02 03 12.8	+02 52 17	vdbm	3.82	+0.02	+0.05	A0p Si Sr
4 Per	590	02 03 49.0	+54 35 43	b	4.99	-0.07	-0.02	B8 III
57 γ^1 And	603	02 05 17.4	+42 26 12	dbm	2.10	+1.37	+1.37	K3- IIb
50 Cas	580	02 05 24.3	+72 31 43	b	3.95	0.00	+0.03	A1 Va
ν For	612	02 05 29.9	-29 11 23	v	4.68	-0.16	-0.12	B9.5p Si
13 α Ari	617	02 08 26.8	+23 34 04	abn06	2.01	+1.15	+1.13	K2 IIIab
4 β Tri	622	02 10 53.4	+35 05 33	db	3.00	+0.14	+0.17	A5 IV
μ For	652	02 13 53.9	-30 37 09		5.27	-0.01	+0.01	A0 Va ⁺ nn
65 ξ^1 Cet	649	02 14 11.7	+08 57 04	db	4.36	+0.88	+0.90	G7 II-III Fe-1
	645	02 15 07.0	+51 10 09	db	5.31	+0.93	+0.93	G8 III CN 1 CH 0.5 Fe-1
	641	02 15 18.1	+58 39 54	s	6.43	+0.55	+0.79	A3 Iab
ϕ Eri	674	02 17 18.8	-51 24 31	d	3.56	-0.12	-0.11	B8 V
67 Cet	666	02 18 06.5	-06 19 10		5.51	+0.96	+0.93	G8.5 III
9 γ Tri	664	02 18 39.6	+33 57 00		4.03	+0.02	-0.02	A0 IV-Vn
68 o Cet	681	02 20 29.1	-02 52 35	vd	6.47	+0.97	+5.71	M5.5-9e III + pec
62 And	670	02 20 44.6	+47 28 57		5.31	+0.01	+0.03	A1 V
δ Hyi	705	02 22 09.4	-68 33 27		4.08	+0.03	+0.04	A1 Va
κ Hyi	715	02 23 01.4	-73 32 39		5.99	+1.09	+1.01	K1 III
κ For	695	02 23 34.3	-23 42 53		5.19	+0.61	+0.68	G0 Va
λ Hor	714	02 25 31.7	-60 12 43		5.36	+0.40	+0.46	F2 IV-V
72 ρ Cet	708	02 27 02.3	-12 11 24		4.88	-0.03	-0.01	A0 III-IVn
κ Eri	721	02 27 48.6	-47 36 13	b	4.24	-0.14	-0.11	B5 IV
73 ξ^2 Cet	718	02 29 21.5	+08 33 35	b	4.30	-0.05	-0.06	A0 III-
12 Tri	717	02 29 29.5	+29 46 07		5.29	+0.31	+0.36	F0 III
ι Cas	707	02 30 57.1	+67 30 07	vdm	4.46	+0.15	+0.17	A5p Sr
μ Hyi	776	02 31 15.4	-79 00 39		5.27	+0.98	+0.98	G8 III
76 σ Cet	740	02 33 09.2	-15 08 50		4.74	+0.45	+0.55	F4 IV
14 Tri	736	02 33 29.1	+36 14 45		5.15	+1.47	+1.49	K5 III
78 ν Cet	754	02 37 03.5	+05 41 25	db	4.87	+0.88	+0.89	G8 III
	753	02 37 19.1	+06 59 35	sdb	5.79	+0.92	+1.06	K3- V
ϵ Hyi	806	02 39 56.6	-68 10 15		4.12	-0.06	-0.07	B9 V
32 ν Ari	773	02 40 06.0	+22 03 27	b	5.45	+0.17	+0.18	A7 V
	743	02 40 13.5	+72 54 53		5.17	+0.90	+0.90	G8 III
82 δ Cet	779	02 40 38.3	+00 25 28	vb	4.08	-0.21	-0.22	B2 IV
ζ Hor	802	02 41 21.7	-54 27 15	b	5.21	+0.41	+0.48	F4 IV
ι Eri	794	02 41 33.3	-39 45 36		4.11	+1.01	+1.05	K0.5 IIIb Fe-0.5
86 γ Cet	804	02 44 28.1	+03 19 46	dm	3.47	+0.09	+0.10	A2 Va
35 Ari	801	02 44 46.7	+27 48 06	b	4.65	-0.12	-0.12	B3 V
89 π Cet	811	02 45 11.7	-13 45 52	b	4.24	-0.12	-0.11	B7 V
14 Per	800	02 45 33.7	+44 23 28		5.43	+0.90	+0.93	G0 Ib Ca 1
13 θ Per	799	02 45 45.0	+49 19 19	d	4.10	+0.51	+0.59	F7 V
1 τ^1 Eri	818	02 46 09.2	-18 28 42	b	4.47	+0.48	+0.54	F5 V
87 μ Cet	813	02 46 09.7	+10 12 29	db	4.27	+0.31	+0.37	F0m F2 V ⁺
β For	841	02 50 01.9	-32 18 45	d	4.45	+0.98	+1.00	G8.5 III Fe-0.5

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		h m s	° ' "					
41 Ari	838	02 51 18.8	+27 21 07	db	3.61	-0.10	-0.08	B8 Vn
16 Per	840	02 52 00.8	+38 24 35	d	4.22	+0.34	+0.41	F1 V ⁺
2 τ^2 Eri	850	02 52 03.6	-20 54 44	d	4.76	+0.91	+0.91	K0 III
15 η Per	834	02 52 21.3	+55 59 14	db	3.77	+1.69	+1.64	K3 ⁻ Ib-IIa
43 σ Ari	847	02 52 44.4	+15 10 25		5.52	-0.10	-0.08	B7 V
R Hor	868	02 54 37.7	-49 47 55	v	7.22	+1.04	+1.01	gM6.5e:
18 τ Per	854	02 55 52.0	+52 51 10	cdb	3.93	+0.76	+0.80	G5 III + A4 V
3 η Eri	874	02 57 31.7	-08 48 35		3.89	+1.09	+1.08	K1 IIIb
	875	02 57 45.2	-03 37 23	b	5.16	+0.08	+0.10	A3 Vn
θ^1 Eri	897	02 59 06.9	-40 12 56	dbmn07	2.88	+0.13	+0.17	A5 IV
24 Per	882	03 00 27.8	+35 16 19		4.94	+1.24	+1.19	K2 III
1 α UMi	424	03 00 43.3	+89 21 28	vdbn58	1.97	+0.64	+0.70	F5-8 Ib
91 λ Cet	896	03 00 55.5	+08 59 45		4.71	-0.11	-0.09	B6 III
θ Hyi	939	03 02 19.2	-71 48 53	d	5.51	-0.13	-0.11	B9 IVp
11 τ^3 Eri	919	03 03 23.1	-23 32 15		4.08	+0.16	+0.18	A4 V
92 α Cet	911	03 03 27.5	+04 10 36	n08	2.54	+1.63	+1.97	M1.5 IIIa
μ Hor	934	03 04 08.8	-59 39 04		5.12	+0.35	+0.41	F0 IV-V
23 γ Per	915	03 06 26.5	+53 35 34	cdb	2.91	+0.72	+0.77	G5 III + A2 V
25 ρ Per	921	03 06 37.6	+38 55 33	v	3.32	+1.53	+2.76	M4 II
	881	03 09 14.8	+79 30 15	dbm	5.49	+1.57	+2.02	M2 IIIab
26 β Per	936	03 09 38.5	+41 02 27	cvdb	2.09	0.00	+0.02	B8 V + F:
ι Per	937	03 10 42.2	+49 41 50	d	4.05	+0.60	+0.65	G0 V
27 κ Per	941	03 11 01.4	+44 56 28	db	3.79	+0.98	+0.94	K0 III
57 δ Ari	951	03 12 55.2	+19 48 37		4.35	+1.03	+0.96	K0 III
α For	963	03 13 02.0	-28 54 01	dm	3.80	+0.54	+0.63	F6 V
TW Hor	977	03 13 07.5	-57 14 17	s	5.71	+2.42	+2.47	C6:,2.5 Ba2 Y4
94 Cet	962	03 13 55.5	-01 06 48	d	5.07	+0.58	+0.63	G0 IV
58 ζ Ari	972	03 16 12.0	+21 07 35		4.87	-0.01	+0.02	A0.5 Va ⁺
13 ζ Eri	984	03 16 55.7	-08 44 15	b	4.80	+0.23	+0.28	A5m:
29 Per	987	03 20 14.6	+50 18 10	sb	5.16	-0.07	-0.05	B3 V
16 τ^4 Eri	1003	03 20 31.1	-21 40 38	d	3.70	+1.61	+2.42	M3 ⁺ IIIa Ca-1
96 κ Cet	996	03 20 32.7	+03 27 05	dasv	4.84	+0.68	+0.73	G5 V
	1008	03 20 49.6	-42 59 06		4.26	+0.71	+0.79	G8 V
	999	03 21 42.4	+29 07 42		4.47	+1.56	+1.61	K3 IIIa Ba 0.5
61 τ Ari	1005	03 22 31.8	+21 13 36	dvm	5.27	-0.07	-0.04	B5 IV
	961	03 23 16.4	+77 48 51	d	5.44	+0.21	+0.23	A5 III:
33 α Per	1017	03 25 56.5	+49 56 22	dasn09	1.79	+0.48	+0.63	F5 Ib
1 o Tau	1030	03 26 01.6	+09 06 24	b	3.61	+0.89	+0.90	G6 IIIa Fe-1
	1009	03 26 39.3	+64 39 51		5.13	+2.04	+2.23	M0 II
	1029	03 27 33.9	+49 11 54	sv	6.09	-0.07	-0.05	B7 V
2 ξ Tau	1038	03 28 23.5	+09 48 35	dbm	3.73	-0.08	-0.07	B9 Vn
κ Ret	1083	03 29 46.6	-62 51 32	d	4.71	+0.41	+0.49	F5 IV-V
	1035	03 30 54.6	+60 01 00	vdm	4.21	+0.42	+0.58	B9 Ia
	1040	03 31 43.6	+58 57 17	asb	4.55	+0.49	+0.79	A0 Ia
17 Eri	1070	03 31 44.2	-04 59 58		4.74	-0.09	-0.07	B9 Vs
5 Tau	1066	03 32 07.1	+13 00 44	b	4.14	+1.11	+1.01	K0 ⁻ II-III Fe-0.5
35 σ Per	1052	03 32 10.3	+48 04 16		4.36	+1.37	+1.42	K3 III
18 ϵ Eri	1084	03 33 59.5	-09 23 00	das	3.72	+0.88	+0.94	K2 V
19 τ^5 Eri	1088	03 34 47.0	-21 33 31	b	4.26	-0.11	-0.09	B8 V
20 EG Eri	1100	03 37 19.0	-17 23 38	dvm	5.24	-0.12	-0.10	B9p Si

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
	1106	03 37 54.2	-40 12 06		4.57	+1.02	+1.07	K1 III
10 Tau	1101	03 38 01.4	+00 28 18		4.29	+0.58	+0.66	F9 IV-V
37 ψ Per	1087	03 38 06.0	+48 15 56		4.32	-0.06	+0.07	B5 Ve
δ For	1134	03 43 08.6	-31 52 04	b	4.99	-0.16	-0.15	B5 IV
BD Cam	1105	03 44 07.8	+63 17 14	b	5.06	+1.65	+2.40	S3.5/2
23 δ Eri	1136	03 44 19.7	-09 41 19		3.52	+0.92	+0.94	K0 ⁺ IV
β Ret	1175	03 44 29.3	-64 44 12	db	3.84	+1.13	+1.11	K2 III
39 δ Per	1122	03 44 32.2	+47 51 27	dbm	3.01	-0.13	-0.07	B5 III
24 Eri	1146	03 45 39.2	-01 05 37	b	5.24	-0.09	-0.07	B7 V
38 o Per	1131	03 45 44.1	+32 21 28	vdbm	3.84	+0.02	+0.12	B1 III
17 Tau	1142	03 46 13.0	+24 10 57	b	3.72	-0.11	-0.09	B6 III
19 Tau	1145	03 46 33.1	+24 32 10	db	4.30	-0.11	-0.08	B6 IV
41 ν Per	1135	03 46 43.8	+42 38 52	d	3.77	+0.43	+0.52	F5 II
29 Tau	1153	03 46 52.3	+06 07 08	db	5.34	-0.10	-0.08	B3 V
γ Hyi	1208	03 46 54.9	-74 10 11		3.26	+1.59	+1.94	M2 III
20 Tau	1149	03 47 10.2	+24 26 11	sb	3.87	-0.06	-0.02	B7 IIIp
26 π Eri	1162	03 47 12.4	-12 01 57		4.43	+1.60	+1.89	M2 ⁻ IIIab
23 ν 971 Tau	1156	03 47 40.0	+24 01 00		4.14	-0.05	+0.02	B6 IV
27 τ ⁶ Eri	1173	03 47 49.0	-23 11 04		4.22	+0.43	+0.51	F3 III
25 η Tau	1165	03 48 49.6	+24 10 23	d	2.85	-0.09	-0.01	B7 III _n
	1195	03 50 17.8	-36 08 00		4.17	+0.93	+0.92	G7 IIIa
27 Tau	1178	03 50 30.3	+24 07 14	db	3.62	-0.07	-0.03	B8 III
BE Cam	1155	03 51 36.3	+65 35 35		4.39	+1.87	+2.58	M2 ⁺ IIab
γ Cam	1148	03 52 46.3	+71 23 55	d	4.59	+0.06	+0.13	A1 III _n
44 ζ Per	1203	03 55 33.1	+31 56 55	sdb	2.84	+0.27	+0.18	B1 Ib
34 γ Eri	1231	03 59 04.8	-13 26 45	d	2.97	+1.59	+1.78	M0.5 IIIb Ca-1
δ Ret	1247	03 59 06.4	-61 20 14		4.56	+1.59	+1.85	M1 III
45 ϵ Per	1220	03 59 22.2	+40 04 24	sdb	2.90	-0.20	-0.19	B0.5 IV
46 ξ Per	1228	04 00 25.9	+35 51 14	b	3.98	+0.02	+0.16	O7.5 III _f
35 λ Tau	1239	04 01 55.8	+12 33 08	vb	3.41	-0.10	-0.08	B3 V
35 Eri	1244	04 02 40.6	-01 29 17		5.28	-0.13	-0.12	B5 V
38 ν Tau	1251	04 04 21.3	+06 03 00		3.91	+0.03	+0.03	A1 Va
37 Tau	1256	04 06 01.8	+22 08 30	d	4.36	+1.06	+1.02	K0 III
47 λ Per	1261	04 08 16.2	+50 24 36		4.25	-0.01	+0.08	A0 III _n
	1279	04 08 58.6	+15 13 17	sdbm	6.02	+0.40	+0.46	F3 V
48 MX Per	1273	04 10 18.2	+47 46 13		3.96	-0.03	+0.08	B3 Ve
43 Tau	1283	04 10 28.8	+19 40 01		5.51	+1.08	+1.05	K1 III
	1270	04 11 22.9	+59 57 56	s	6.29	+1.11	+1.16	G8 IIa
44 IM Tau	1287	04 12 12.3	+26 32 16	v	5.39	+0.35	+0.41	F2 IV-V
38 o ¹ Eri	1298	04 12 57.9	-06 46 49		4.04	+0.33	+0.38	F1 IV
α Ret	1336	04 14 43.2	-62 25 05	db	3.33	+0.92	+0.91	G8 II-III
α Hor	1326	04 14 44.9	-42 14 24		3.85	+1.09	+1.09	K2 III
40 o ² Eri	1325	04 16 18.5	-07 37 09	d	4.43	+0.82	+0.89	K0.5 V
51 μ Per	1303	04 16 33.5	+48 27 51	db	4.12	+0.94	+0.93	G0 Ib
γ Dor	1338	04 16 37.1	-51 25 51	v	4.26	+0.31	+0.37	F1 V ⁺
49 μ Tau	1320	04 16 45.5	+08 56 49	b	4.27	-0.05	-0.02	B3 IV
ϵ Ret	1355	04 16 52.5	-59 14 55	d	4.44	+1.08	+1.05	K2 IV
48 Tau	1319	04 17 03.1	+15 27 19	sd	6.31	+0.40	+0.46	F3 V
41 Eri	1347	04 18 44.8	-33 44 41	db	3.55	-0.11	-0.09	B9p Mn
54 γ Tau	1346	04 21 04.6	+15 40 49	db	3.65	+0.98	+0.95	G9.5 IIIab CN 0.5

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
57 v483 Tau	1351	04 21 13.9	+14 05 16	sdb	5.58	+0.28	+0.33	F0 IV
	1367	04 21 38.0	-20 35 14		5.38	-0.03	-0.01	A1 V
54 Per	1343	04 21 52.6	+34 37 09	d	4.93	+0.95	+0.94	G8 III Fe 0.5
η Ret	1395	04 22 08.3	-63 20 00		5.24	+0.96	+0.91	G8 III
	1327	04 22 48.5	+65 11 33	s	5.26	+0.82	+0.83	G5 IIb
61 δ Tau	1373	04 24 14.1	+17 35 37	db	3.77	+0.98	+0.93	G9.5 III CN 0.5
63 Tau	1376	04 24 42.7	+16 49 41	csb	5.64	+0.31	+0.34	F0m
42 ξ Eri	1383	04 24 48.2	-03 41 42	b	5.17	+0.07	+0.10	A2 V
43 Eri	1393	04 24 53.0	-33 57 57		3.97	+1.47	+1.53	K3.5- IIIb
65 κ ¹ Tau	1387	04 26 42.8	+22 20 37	db	4.21	+0.14	+0.16	A5 IV-V
68 v776 Tau	1389	04 26 47.7	+17 58 39	dbm	4.30	+0.05	+0.08	A2 IV-Vs
71 v777 Tau	1394	04 27 37.8	+15 40 03	db	4.48	+0.26	+0.33	F0n IV-V
69 υ Tau	1392	04 27 39.5	+22 51 46	db	4.28	+0.26	+0.32	A9 IV-n
77 θ ¹ Tau	1411	04 29 51.8	+16 00 37	db	3.84	+0.95	+1.02	G9 III Fe-0.5
74 ε Tau	1409	04 29 56.0	+19 13 43	d	3.53	+1.01	+1.04	G9.5 III CN 0.5
78 θ ² Tau	1412	04 29 57.0	+15 55 08	sdb	3.40	+0.18	+0.21	A7 III
δ Cae	1443	04 31 31.5	-44 54 23		5.07	-0.19	-0.20	B2 IV-V
50 υ ¹ Eri	1453	04 34 23.6	-29 43 20		4.49	+0.97	+1.00	K0+ III Fe-0.5
α Dor	1465	04 34 29.1	-54 59 57	vdm	3.30	-0.08	-0.08	A0p Si
86 ρ Tau	1444	04 35 07.7	+14 53 24	b	4.65	+0.26	+0.28	A9 V
52 υ ² Eri	1464	04 36 25.6	-30 31 03		3.81	+0.96	+0.93	G8.5 IIIa
88 Tau	1458	04 36 53.6	+10 12 19	dbm	4.25	+0.18	+0.21	A5m
R Dor	1492	04 37 01.6	-62 01 59	vsd	5.59	+1.50	+4.70	M8e III:
87 α Tau	1457	04 37 12.9	+16 33 10	sdbn10	0.87	+1.54	+1.67	K5+ III
48 υ Eri	1463	04 37 26.7	-03 18 29	vdb	3.93	-0.21	-0.20	B2 III
58 Per	1454	04 38 15.3	+41 18 32	cb	4.25	+1.17	+1.13	K0 II-III + B9 V
53 Eri	1481	04 39 12.7	-14 15 42	dbm	3.86	+1.08	+1.09	K1.5 IIIb
90 Tau	1473	04 39 25.1	+12 33 15	db	4.27	+0.12	+0.15	A5 IV-V
α Cae	1502	04 41 17.3	-41 49 19	d	4.44	+0.34	+0.40	F1 V
54 DM Eri	1496	04 41 25.6	-19 37 47	d	4.32	+1.60	+2.27	M3 II-III
β Cae	1503	04 42 51.3	-37 06 05		5.04	+0.39	+0.46	F2 V
94 τ Tau	1497	04 43 35.9	+22 59 53	dbm	4.27	-0.11	-0.10	B3 V
57 μ Eri	1520	04 46 37.8	-03 12 54	b	4.01	-0.15	-0.13	B4 IV
4 Cam	1511	04 49 53.3	+56 47 40	dm	5.29	+0.25	+0.22	Am
1 π ³ Ori	1543	04 51 03.8	+06 59 56	adb	3.19	+0.48	+0.53	F6 V
	1533	04 51 25.8	+37 31 33		4.89	+1.45	+1.51	K3.5 III
2 π ² Ori	1544	04 51 50.4	+08 56 13	b	4.35	+0.01	+0.04	A0.5 IVn
3 π ⁴ Ori	1552	04 52 24.4	+05 38 31	sb	3.68	-0.16	-0.16	B2 III
97 v480 Tau	1547	04 52 41.6	+18 52 35	d	5.08	+0.21	+0.26	A9 V+
4 ο ¹ Ori	1556	04 53 48.5	+14 17 11	cv	4.71	+1.77	+2.63	S3.5/1-
61 ω Eri	1560	04 54 00.1	-05 25 00	b	4.36	+0.26	+0.33	A9 IV
η Men	1629	04 54 33.5	-74 54 05		5.47	+1.52	+1.53	K4 III
8 π ⁵ Ori	1567	04 55 25.5	+02 28 33	vb	3.71	-0.18	-0.18	B2 III
9 α Cam	1542	04 56 18.1	+66 22 40		4.26	-0.01	+0.09	O9.5 Ia
9 ο ² Ori	1580	04 57 38.3	+13 32 53	d	4.06	+1.16	+1.16	K2- III Fe-1
3 ι Aur	1577	04 58 27.8	+33 11 59	a	2.69	+1.49	+1.46	K3 II
7 Cam	1568	04 59 05.9	+53 47 08	dbm	4.43	-0.02	+0.06	A0m A1 III
10 π ⁶ Ori	1601	04 59 43.0	+01 44 49		4.47	+1.37	+1.32	K2- II
7 ε Aur	1605	05 03 35.3	+43 51 15	vdb	3.03	+0.54	+0.61	A9 Ia
8 ζ Aur	1612	05 04 03.3	+41 06 23	cdvb	3.69	+1.15	+1.12	K5 II + B5 V

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
102 ι Tau	1620	05 04 26.6	+21 37 12		4.62	+0.16	+0.19	A7 IV
10 β Cam	1603	05 05 25.7	+60 28 20	d	4.03	+0.92	+0.89	G1 Ib-IIa
η^2 Pic	1663	05 05 33.1	-49 32 54		5.05	+1.48	+1.59	K5 III
11 v1032 Ori	1638	05 05 51.4	+15 26 01	v	4.65	-0.06	+0.02	A0p Si
ζ Dor	1674	05 05 54.0	-57 26 33		4.71	+0.53	+0.60	F7 V
2 ϵ Lep	1654	05 06 24.9	-22 20 32		3.19	+1.46	+1.50	K4 III
10 η Aur	1641	05 08 05.8	+41 15 45	a	3.18	-0.15	-0.17	B3 V
67 β Eri	1666	05 08 57.4	-05 03 32	d	2.78	+0.16	+0.16	A3 IVn
69 λ Eri	1679	05 10 13.5	-08 43 37		4.25	-0.19	-0.16	B2 IVn
16 Ori	1672	05 10 34.0	+09 51 24	db	5.43	+0.25	+0.24	A9m
3 ι Lep	1696	05 13 21.0	-11 50 38	d	4.45	-0.10	-0.08	B9 V:
θ Dor	1744	05 13 44.7	-67 09 36		4.81	+1.27	+1.22	K2.5 IIIa
5 μ Lep	1702	05 13 56.6	-16 10 49	s	3.29	-0.11	-0.09	B9p Hg Mn
4 κ Lep	1705	05 14 16.3	-12 54 58	dm	4.36	-0.09	-0.07	B7 V
17 ρ Ori	1698	05 14 28.2	+02 53 11	dbm	4.46	+1.17	+1.12	K1 III CN 0.5
11 μ Aur	1689	05 14 58.3	+38 30 32		4.82	+0.19	+0.23	A7m
19 β Ori	1713	05 15 37.2	-08 10 38	vdasbn11	0.18	-0.03	+0.03	B8 Ia
σ Col	1743	05 18 17.8	-34 52 28		4.81	+0.99	+1.00	K0/1 III/IV
13 α Aur	1708	05 18 21.3	+46 01 06	cdbn12	0.08	+0.80	+0.83	G6 III + G2 III
20 τ Ori	1735	05 18 42.0	-06 49 18	sdb	3.59	-0.12	-0.10	B5 III
ζ Pic	1767	05 19 55.4	-50 34 57		5.44	+0.52	+0.59	F7 III-IV
6 λ Lep	1756	05 20 36.8	-13 09 18		4.29	-0.24	-0.26	B0.5 IV
15 λ Aur	1729	05 20 43.6	+40 07 00	d	4.69	+0.63	+0.70	G1.5 IV-V Fe-1
22 Ori	1765	05 22 54.7	-00 21 43	b	4.72	-0.17	-0.17	B2 IV-V
29 Ori	1784	05 25 01.9	-07 47 20		4.13	+0.94	+0.97	G8 III Fe-0.5
28 η Ori	1788	05 25 36.6	-02 22 41	cdvbm	3.35	-0.24	-0.16	B1 IV + B
	1686	05 26 18.4	+79 15 05	d	5.08	+0.51	+0.58	F7 Vs
24 γ Ori	1790	05 26 20.4	+06 22 06	dbn13	1.64	-0.22	-0.22	B2 III
112 β Tau	1791	05 27 43.0	+28 37 28	sdn14	1.65	-0.13	-0.09	B7 III
115 Tau	1808	05 28 28.9	+17 58 47	d	5.40	-0.09	-0.07	B5 V
9 β Lep	1829	05 29 12.6	-20 44 35	d	2.81	+0.81	+0.86	G5 II
	1856	05 30 46.7	-47 03 45	d	5.46	+0.62	+0.68	G3 IV
γ Men	1953	05 31 00.5	-76 19 25	d	5.18	+1.13	+1.11	K2 III
32 Ori	1839	05 31 59.4	+05 57 49	dm	4.20	-0.14	-0.14	B5 V
ϵ Col	1862	05 32 00.7	-35 27 19		3.86	+1.13	+1.09	K1 II/III
17 Cam	1802	05 32 18.1	+63 04 58		5.43	+1.70	+2.11	M1 IIIa
34 δ Ori	1852	05 33 09.4	-00 17 03	dvbm	2.25	-0.18	-0.21	O9.5 II
119 CE Tau	1845	05 33 32.0	+18 36 32		4.32	+2.06	+2.54	M2 Iab-Ib
11 α Lep	1865	05 33 43.4	-17 48 28	das	2.58	+0.21	+0.32	F0 Ib
β Dor	1922	05 33 49.4	-62 28 32	v	3.76	+0.64	+0.69	F7-G2 Ib
25 χ Aur	1843	05 34 11.7	+32 12 23	b	4.71	+0.28	+0.51	B5 Iab
37 ϕ^1 Ori	1876	05 36 03.4	+09 30 11	db	4.39	-0.16	-0.13	B0.5 IV-V
39 λ Ori	1879	05 36 22.7	+09 56 51	dm	3.39	-0.16	-0.13	O8 IIIf
v1046 Ori	1890	05 36 28.7	-04 28 52	sdvbm	6.57	-0.14	-0.14	B2 Vh
	1891	05 36 29.2	-04 24 40	dsm	6.24	-0.15	-0.14	B2.5 V
44 ι Ori	1899	05 36 32.1	-05 53 49	dsb	2.75	-0.21	-0.22	O9 III
46 ϵ Ori	1903	05 37 21.4	-01 11 21	dasbn15	1.69	-0.18	-0.16	B0 Ia
40 ϕ^2 Ori	1907	05 38 08.6	+09 18 04	s	4.09	+0.95	+1.02	K0 IIIb Fe-2
123 ζ Tau	1910	05 38 59.5	+21 09 15	sb	2.97	-0.15	-0.15	B2 IIIpe (shell)
48 σ Ori	1931	05 39 52.6	-02 35 20	dbm	3.77	-0.19	-0.25	O9.5 V

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
α Col	1956	05 40 27.9	-34 03 48	d	2.65	-0.12	-0.07	B7 IV
50 ζ Ori	1948	05 41 53.7	-01 55 57	dbm	1.74	-0.20	-0.18	O9.5 Ib
δ Dor	2015	05 44 48.9	-65 43 38		4.34	+0.22	+0.27	A7 V ⁺ n
13 γ Lep	1983	05 45 24.1	-22 26 33	d	3.59	+0.48	+0.57	F7 V
27 o Aur	1971	05 47 38.7	+49 50 00		5.46	+0.03	+0.07	A0p Cr
β Pic	2020	05 47 49.1	-51 03 33		3.85	+0.17	+0.18	A6 V
14 ζ Lep	1998	05 47 58.6	-14 48 54	b	3.55	+0.10	+0.11	A2 Van
130 Tau	1990	05 48 45.0	+17 44 08		5.47	+0.30	+0.34	F0 III
53 κ Ori	2004	05 48 49.5	-09 39 48		2.07	-0.17	-0.14	B0.5 Ia
γ Pic	2042	05 50 14.3	-56 09 42		4.50	+1.08	+1.06	K1 III
	2049	05 51 23.8	-52 06 16		5.16	+0.96	+0.97	G8 III
β Col	2040	05 51 45.2	-35 45 40		3.12	+1.15	+1.10	K1.5 III
15 δ Lep	2035	05 52 17.4	-20 52 43		3.76	+0.98	+1.05	K0 III Fe-1.5 CH 0.5
32 ν Aur	2012	05 53 03.1	+39 09 10	d	3.97	+1.13	+1.07	K0 III CN 0.5
136 Tau	2034	05 54 44.6	+27 36 56	b	4.56	-0.01	0.00	A0 IV
54 χ^1 Ori	2047	05 55 43.0	+20 16 42	b	4.39	+0.59	+0.66	G0 ⁻ V Ca 0.5
58 α Ori	2061	05 56 23.4	+07 24 34	vadbn16	0.45	+1.50	+2.32	M1-M2 Ia-Iab
30 ξ Aur	2029	05 56 44.0	+55 42 34		4.96	+0.05	+0.09	A1 Va
16 η Lep	2085	05 57 25.8	-14 09 55		3.71	+0.34	+0.39	F1 V
γ Col	2106	05 58 20.1	-35 16 56	d	4.36	-0.17	-0.16	B2.5 IV
η Col	2120	05 59 50.2	-42 48 54		3.96	+1.15	+1.06	G8/K1 II
60 Ori	2103	05 59 59.0	+00 33 12	db	5.21	+0.01	+0.03	A1 Vs
34 β Aur	2088	06 01 10.8	+44 56 50	vdb	1.90	+0.08	+0.05	A1 IV
37 θ Aur	2095	06 01 15.4	+37 12 43	vdb	2.65	-0.08	-0.06	A0p Si
33 δ Aur	2077	06 01 22.9	+54 17 01	d	3.72	+1.01	+0.99	K0 ⁻ III
35 π Aur	2091	06 01 36.3	+45 56 11		4.30	+1.70	+2.51	M3 II
61 μ Ori	2124	06 03 37.3	+09 38 43	dbm	4.12	+0.17	+0.19	A5m:
62 χ^2 Ori	2135	06 05 15.4	+20 08 09	asv	4.64	+0.24	+0.41	B2 Ia
1 Gem	2134	06 05 29.3	+23 15 36	dbm	4.16	+0.84	+0.88	G5 III-IV
17 SS Lep	2148	06 05 59.4	-16 29 15	sb	4.92	+0.20	+0.21	Ap (shell)
ν Dor	2221	06 08 35.6	-68 50 53		5.06	-0.07	-0.08	B8 V
67 ν Ori	2159	06 08 51.4	+14 45 50	db	4.42	-0.16	-0.17	B3 IV
α Men	2261	06 09 34.1	-74 45 35		5.08	+0.71	+0.75	G5 V
	2180	06 09 54.6	-22 25 58		5.49	-0.01	+0.01	A0 V
δ Pic	2212	06 10 44.2	-54 58 28	vb	4.72	-0.23	-0.24	B0.5 IV
70 ξ Ori	2199	06 13 13.2	+14 12 06	db	4.45	-0.18	-0.16	B3 IV
36 μ Cam	2165	06 15 06.8	+65 42 38	b	5.36	+1.34	+1.30	K2 II-III
5 γ Mon	2227	06 15 57.2	-06 17 00	d	3.99	+1.32	+1.27	K1 III Ba 0.5
7 η Gem	2216	06 16 14.2	+22 29 54	vdbm	3.31	+1.60	+2.70	M2.5 III
44 κ Aur	2219	06 16 48.7	+29 29 16		4.32	+1.02	+1.04	G9 IIIb
κ Col	2256	06 17 21.2	-35 08 57		4.37	+0.98	+0.94	K0.5 IIIa
74 Ori	2241	06 17 42.5	+12 15 50	d	5.04	+0.43	+0.50	F4 IV
7 Mon	2273	06 20 47.9	-07 50 02	db	5.27	-0.18	-0.18	B2.5 V
1 ζ CMa	2282	06 21 10.7	-30 04 29	db	3.02	-0.16	-0.20	B2.5 V
	2209	06 21 19.3	+69 18 29	b	4.76	+0.03	+0.05	A0 IV ⁺ nn
2 UZ Lyn	2238	06 21 36.4	+59 00 00		4.44	+0.03	+0.05	A1 Va
δ Col	2296	06 22 56.2	-33 26 56	b	3.85	+0.86	+0.88	G7 II
2 β CMa	2294	06 23 41.5	-17 58 07	svdb	1.98	-0.24	-0.24	B1 II-III
13 μ Gem	2286	06 24 19.3	+22 30 00	sd	2.87	+1.62	+2.30	M3 IIIab
α Car	2326	06 24 27.1	-52 42 31	n17	-0.62	+0.16	+0.23	A9 II

Designation	BS=HR No.	Right Ascension			Declination	Notes	V	B-V	V-I	Spectral Type
		h	m	s						
8	Mon	2298	06 24	57.6	+04 34 47	db	4.39	+0.22	+0.25	A6 IV
		2305	06 25	13.3	-11 32 38		5.21	+1.23	+1.18	K3 III
46	ψ^1 Aur	2289	06 26	37.8	+49 16 26	b	4.92	+1.91	+1.94	K5-M0 Iab-Ib
	λ CMa	2361	06 29	00.3	-32 35 44		4.47	-0.17	-0.16	B4 V
10	Mon	2344	06 29	04.3	-04 46 40	d	5.06	-0.18	-0.18	B2 V
18	ν Gem	2343	06 30	17.9	+20 11 45	db	4.13	-0.12	-0.10	B6 III
4	ξ^1 CMa	2387	06 32	47.7	-23 26 10	vdb	4.34	-0.25	-0.24	B1 III
		2392	06 33	50.2	-11 11 04	dsb	6.30	+1.10	+0.95	G9.5 III: Ba 3
13	Mon	2385	06 34	07.2	+07 18 53		4.47	+0.02	+0.09	A0 Ib-II
		2395	06 34	46.5	-01 14 20		5.09	-0.13	-0.12	B5 Vn
		2435	06 35	28.4	-52 59 41		4.35	-0.02	+0.06	A0 II
5	ξ^2 CMa	2414	06 36	00.0	-22 59 03		4.54	-0.04	-0.01	A0 III
7	ν^2 CMa	2429	06 37	40.0	-19 16 36		3.95	+1.04	+1.02	K1.5 III-IV Fe 1
	ν Pup	2451	06 38	27.0	-43 13 00	b	3.17	-0.10	-0.07	B8 IIIn
8	ν^3 CMa	2443	06 38	52.8	-18 15 30	dm	4.42	+1.14	+1.12	K0.5 III
24	γ Gem	2421	06 39	00.6	+16 22 41	db	1.93	0.00	+0.04	A1 IVs
15	S Mon	2456	06 42	13.0	+09 52 23	dasbm	4.66	-0.23	-0.22	O7 Vf
30	Gem	2478	06 45	15.4	+13 12 12	d	4.49	+1.17	+1.11	K0.5 III CN 0.5
27	ϵ Gem	2473	06 45	18.9	+25 06 25	dasb	3.06	+1.38	+1.22	G8 Ib
		2513	06 45	57.2	-52 13 33	s	6.56	+1.08	+1.03	G5 Iab
9	α CMa	2491	06 46	08.0	-16 44 57	odbn18	-1.44	+0.01	-0.02	A0m A1 Va
31	ξ Gem	2484	06 46	33.1	+12 52 10		3.35	+0.44	+0.48	F5 IV
		2518	06 48	07.6	-37 57 20	d	5.27	-0.08	-0.06	B8/9 V
56	ψ^5 Aur	2483	06 48	21.5	+43 33 10	d	5.24	+0.58	+0.65	G0 V
	α Pic	2550	06 48	25.2	-61 57 58		3.24	+0.23	+0.28	A6 Vn
18	Mon	2506	06 49	02.0	+02 23 09	b	4.48	+1.10	+1.06	K0+ IIIa
57	ψ^6 Aur	2487	06 49	22.3	+48 45 48		5.22	+1.13	+1.09	K0 III
		2401	06 50	01.9	+79 32 06	b	5.44	+0.53	+0.60	F8 V
v415	Car	2554	06 50	20.6	-53 38 58	b	4.41	+0.90	+0.92	G4 II
	τ Pup	2553	06 50	29.7	-50 38 32	b	2.94	+1.21	+1.14	K1 III
13	κ CMa	2538	06 50	40.9	-32 32 09		3.50	-0.12	-0.10	B1.5 IVne
	ι Vol	2602	06 51	11.2	-70 59 28		5.41	-0.11	-0.09	B7 IV
v592	Mon	2534	06 51	47.3	-08 04 08	sv	6.31	+0.01	+0.03	A2p Sr Cr Eu
34	θ Gem	2540	06 54	16.2	+33 55 55	db	3.60	+0.10	+0.14	A3 III-IV
16	ϕ^1 CMa	2580	06 55	04.0	-24 12 49	s	3.89	+1.74	+1.58	K2 Iab
	NP Pup	2591	06 55	09.2	-42 23 42	s	6.32	+2.29	+2.34	C5,2.5
14	θ CMa	2574	06 55	14.1	-12 04 06		4.08	+1.42	+1.49	K4 III
43	Cam	2511	06 56	07.0	+68 51 31		5.11	-0.11	-0.10	B7 III
20	ι CMa	2596	06 57	08.5	-17 05 06		4.36	-0.06	+0.01	B3 II
15	Lyn	2560	06 59	13.1	+58 23 26	d	4.35	+0.85	+0.85	G5 III-IV
21	ϵ CMa	2618	06 59	30.6	-29 00 14	dn19	1.50	-0.21	-0.20	B2 II
22	σ CMa	2646	07 02	37.0	-27 58 06	d	3.49	+1.73	+1.82	K7 Ib
		2527	07 03	18.8	+76 56 38	b	4.55	+1.37	+1.35	K4 III
42	ω Gem	2630	07 03	47.0	+24 10 53	s	5.20	+0.95	+0.83	G5 IIa
24	ϕ^2 CMa	2653	07 03	57.9	-23 52 03	vasb	3.02	-0.08	-0.03	B3 Ia
v386	Car	2683	07 04	43.5	-56 47 04	v	5.14	-0.03	-0.01	Ap Si
		2666	07 04	45.6	-42 22 18	dbm	5.20	+0.20	+0.15	A9m
23	γ CMa	2657	07 04	46.6	-15 40 05		4.11	-0.11	-0.09	B8 II
43	ξ Gem	2650	07 05	26.5	+20 32 07	vdb	4.01	+0.90	+0.90	F9 Ib (var)
	γ^2 Vol	2736	07 08	33.0	-70 32 07	d	3.78	+1.01	+0.94	G9 III

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Designation	BS=HR No.	Right Ascension		Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "						
25	δ CMa	2693	07 09 18.4	-26 25 49	dasb	1.83	+0.67	+0.67	F8 Ia
20	Mon	2701	07 11 20.7	-04 16 26	d	4.91	+1.02	+1.03	K0 III
46	τ Gem	2697	07 12 34.2	+30 12 22	d	4.41	+1.26	+1.25	K2 III
22	δ Mon	2714	07 13 00.8	-00 31 54	d	4.15	-0.01	+0.02	A1 III+
63	Aur	2696	07 13 12.0	+39 16 54	b	4.91	+1.45	+1.48	K3.5 III
	QW Pup	2740	07 13 12.1	-46 47 52		4.49	+0.32	+0.40	F0 IVs
48	Gem	2706	07 13 48.3	+24 05 20	s	5.85	+0.40	+0.46	F5 III-IV
	L ₂ Pup	2748	07 14 13.6	-44 40 39	vd	4.42	+1.33	+3.46	M5 IIIe
51	BQ Gem	2717	07 14 39.7	+16 07 08	dm	5.07	+1.65	+1.63	M4 IIIab
27	EW CMa	2745	07 15 10.3	-26 23 33	dbm	4.42	-0.17	-0.12	B3 IIIep
28	ω CMa	2749	07 15 43.5	-26 48 47		4.01	-0.15	-0.08	B2 IV-Ve
	δ Vol	2803	07 16 48.8	-67 59 54		3.97	+0.76	+0.78	F9 Ib
	π Pup	2773	07 17 56.3	-37 08 20	dm	2.71	+1.62	+1.65	K3 Ib
54	λ Gem	2763	07 19 23.1	+16 29 53	db	3.58	+0.11	+0.12	A4 IV
30	τ CMa	2782	07 19 38.5	-24 59 48	vdbm	4.37	-0.13	-0.10	O9 II
55	δ Gem	2777	07 21 27.9	+21 56 20	db	3.50	+0.37	+0.44	F0 V+
31	η CMa	2827	07 24 59.1	-29 20 54	das	2.45	-0.08	+0.01	B5 Ia
66	Aur	2805	07 25 41.7	+40 37 37	b	5.23	+1.25	+1.14	K1 IIIa Fe-1
60	ι Gem	2821	07 27 07.3	+27 45 05		3.78	+1.02	+1.01	G9 IIIb
3	β CMi	2845	07 28 22.2	+08 14 32	db	2.89	-0.10	-0.07	B8 V
	γ CMi	2854	07 29 23.3	+08 52 42	db	4.33	+1.43	+1.48	K3 III Fe-1
	σ Pup	2878	07 29 56.7	-43 20 53	vdb	3.25	+1.51	+1.54	K5 III
62	ρ Gem	2852	07 30 33.4	+31 44 16	db	4.16	+0.32	+0.40	F0 V+
6	CMi	2864	07 31 02.9	+11 57 30		4.55	+1.28	+1.21	K1 III
		2906	07 35 01.0	-22 20 46		4.44	+0.52	+0.60	F6 IV
66	α^1 Gem	2891	07 36 01.7	+31 50 11	odbm	1.58	+0.03	+0.05	A1m A2 Va
66	α^2 Gem	2890	07 36 02.0	+31 50 14	odbm	1.58	+0.03	+0.05	A2m A5 V:
		2934	07 36 13.1	-52 35 05	b	4.93	+1.37	+1.39	K3 III
69	ν Gem	2905	07 37 18.4	+26 50 38	d	4.06	+1.54	+1.66	M0 III-IIIb
		2937	07 38 12.1	-35 01 13	dm	4.53	-0.08	-0.08	B8 V
25	Mon	2927	07 38 23.8	-04 09 46	d	5.14	+0.44	+0.51	F6 III
10	α CMi	2943	07 40 28.8	+05 09 55	osdbn20	0.40	+0.43	+0.49	F5 IV-V
	ζ Vol	3024	07 41 31.8	-72 39 35	d	3.93	+1.03	+1.02	G9 III
	R Pup	2974	07 41 45.0	-31 42 53	s	6.60	+1.07	+1.21	G2 0-Ia
26	α Mon	2970	07 42 19.3	-09 36 18		3.94	+1.02	+1.01	G9 III Fe-1
	3 Pup	2996	07 44 42.7	-29 00 35	b	3.94	+0.16	+0.34	A2 Ib
75	σ Gem	2973	07 44 42.9	+28 49 38	db	4.23	+1.12	+1.12	K1 III
24	Lyn	2946	07 44 53.9	+58 39 19	d	4.93	+0.10	+0.17	A2 IVn
77	κ Gem	2985	07 45 48.2	+24 20 32	ad	3.57	+0.93	+0.90	G8 III
		3017	07 46 03.4	-38 01 27		3.62	+1.71	+1.82	K5 IIa
78	β Gem	2990	07 46 41.4	+27 58 12	adm21	1.16	+0.99	+0.97	K0 IIIb
4	Pup	3015	07 46 59.0	-14 37 12		5.03	+0.34	+0.40	F2 V
81	Gem	3003	07 47 25.5	+18 27 12	b	4.89	+1.43	+1.54	K4 III
11	CMi	3008	07 47 30.4	+10 42 42	b	5.25	+0.02	+0.04	A0.5 IV ⁻ nn
		2999	07 48 09.1	+37 27 39		5.15	+1.59	+2.03	M2 ⁺ IIIb
		3037	07 48 12.3	-46 39 55	b	5.22	-0.15	-0.15	B1.5 IV
80	π Gem	3013	07 48 57.1	+33 21 31	d	5.14	+1.64	+1.83	M1 ⁺ IIIa
	ρ Pup	3034	07 49 01.3	-25 59 39	d	4.40	-0.07	+0.13	B1 IV:nne
		3055	07 49 55.4	-46 25 51	dm	4.10	-0.16	-0.17	B0 III
OV	Cep	2609	07 50 10.9	+86 57 52		5.05	+1.60	+1.91	M2 ⁻ IIIab

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
7 ξ Pup	3045	07 50 14.5	-24 55 03	db	3.34	+1.22	+1.08	G6 Iab-Ib
13 ζ CMi	3059	07 52 52.0	+01 42 28		5.12	-0.12	-0.09	B8 II
	3080	07 52 59.5	-40 38 05	cb	3.71	+1.01	+1.04	K1/2 II + A
QZ Pup	3084	07 53 26.5	-38 55 20	vb	4.49	-0.19	-0.18	B2.5 V
	3090	07 53 57.8	-48 09 45		4.22	-0.13	-0.11	B0.5 Ib
83 φ Gem	3067	07 54 52.2	+26 42 21	b	4.97	+0.10	+0.14	A3 IV-V
26 Lyn	3066	07 56 20.5	+47 30 15		5.47	+1.46	+1.47	K3 III
χ Car	3117	07 57 21.0	-53 02 37		3.46	-0.18	-0.17	B3p Si
11 Pup	3102	07 57 49.6	-22 56 29		4.20	+0.72	+0.75	F8 II
	3113	07 58 34.0	-30 23 47		4.76	+0.15	+0.24	A6 II
V Pup	3129	07 58 53.3	-49 18 25	cvdb	4.47	-0.18	-0.14	B1 Vp + B2:
	3153	08 00 00.5	-60 38 58	s	5.19	+1.76	+2.12	M1.5 II
27 Mon	3122	08 00 51.6	-03 44 33		4.93	+1.21	+1.22	K2 III
	3131	08 00 52.6	-18 27 44		4.61	+0.09	+0.11	A2 IVn
	3075	08 02 50.6	+73 51 16		5.37	+1.42	+1.41	K3 III
	3145	08 03 26.1	+02 16 17	d	4.39	+1.25	+1.27	K2 IIIb Fe-0.5
ζ Pup	3165	08 04 22.5	-40 04 03	s	2.21	-0.27	-0.22	O5 Iafn
χ Gem	3149	08 04 53.8	+27 43 46	db	4.94	+1.13	+1.09	K1 III
ε Vol	3223	08 07 59.6	-68 41 00	dbm	4.35	-0.11	-0.10	B6 IV
15 ρ Pup	3185	08 08 30.2	-24 22 14	vdb	2.83	+0.46	+0.42	F5 (Ib-II)p
29 ζ Mon	3188	08 09 43.5	-03 03 03	d	4.36	+0.97	+0.92	G2 Ib
16 Pup	3192	08 10 01.9	-19 18 44	b	4.40	-0.16	-0.14	B5 IV
27 Lyn	3173	08 10 08.4	+51 26 23	d	4.78	+0.05	+0.10	A1 Va
γ ² Vel	3207	08 10 13.6	-47 24 14	cdb	1.75	-0.15	-0.14	WC8 + O9I:
NS Pup	3225	08 12 09.8	-39 41 12	b	4.44	+1.59	+1.62	K4.5 Ib
20 Pup	3229	08 14 22.0	-15 51 26		4.99	+1.07	+1.02	G5 IIa
	3243	08 14 50.9	-40 25 04	db	4.42	+1.17	+1.15	K1 II/III
	3182	08 15 01.4	+68 24 18		5.34	+1.04	+0.96	G7 II
17 β Cnc	3249	08 17 44.0	+09 06 53	d	3.53	+1.48	+1.47	K4 III Ba 0.5
α Cha	3318	08 17 54.6	-76 59 24		4.05	+0.41	+0.49	F4 IV
	3270	08 19 23.9	-36 43 48		4.44	+0.22	+0.25	A7 IV
θ Cha	3340	08 19 55.7	-77 33 22	d	4.34	+1.16	+1.10	K2 III CN 0.5
18 χ Cnc	3262	08 21 25.6	+27 08 35		5.13	+0.49	+0.56	F6 V
	3282	08 22 16.2	-33 07 37		4.83	+1.42	+1.35	K2.5 II-III
ε Car	3307	08 22 58.4	-59 34 57	dcmn22	1.86	+1.20	+1.16	K3: III + B2: V
31 Lyn	3275	08 24 22.1	+43 06 51		4.25	+1.55	+1.61	K4.5 III
β Vol	3347	08 25 58.5	-66 12 44		3.77	+1.13	+1.10	K2 III
	3315	08 26 02.1	-24 07 13	db	5.32	+1.48	+1.49	K4.5 III CN 1
	3314	08 26 47.1	-03 58 52		3.91	-0.01	-0.02	A0 Va
1 o UMa	3323	08 32 06.9	+60 38 27	sd	3.35	+0.86	+0.87	G5 III
33 η Cnc	3366	08 34 00.4	+20 21 47		5.33	+1.25	+1.11	K3 III
	3426	08 38 26.2	-43 04 07		4.11	+0.11	+0.20	A6 II
4 δ Hya	3410	08 38 50.7	+05 37 26	db	4.14	0.00	+0.02	A1 IVnn
5 σ Hya	3418	08 39 55.9	+03 15 40		4.45	+1.22	+1.12	K1 III
η Cha	3502	08 40 30.4	-79 02 39		5.46	-0.10	-0.08	B8 V
o Vel	3447	08 40 56.3	-53 00 09	vb	3.60	-0.17	-0.16	B3 IV
β Pyx	3438	08 40 59.0	-35 23 21	db	3.97	+0.94	+0.91	G4 III
6 Hya	3431	08 41 05.4	-12 33 22		4.98	+1.42	+1.40	K4 III
v343 Car	3457	08 41 06.8	-59 50 31	db	4.31	-0.12	-0.08	B1.5 III
	3445	08 41 22.4	-46 43 47	d	3.77	+0.67	+0.92	F0 Ia

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
34 Lyn	3422	08 42 33.8	+45 45 12		5.35	+0.99	+0.97	G8 IV
7 η Hya	3454	08 44 24.0	+03 19 00	b	4.30	-0.19	-0.20	B4 V
α Pyx	3468	08 44 29.8	-33 16 07		3.68	-0.18	-0.17	B1.5 III
43 γ Cnc	3449	08 44 35.1	+21 23 10	db	4.66	+0.01	+0.03	A1 Va
	3477	08 45 12.2	-42 43 54	d	4.05	+0.87	+0.89	G6 II-III
δ Vel	3485	08 45 19.5	-54 47 31	dm	1.93	+0.04	+0.05	A1 Va
47 δ Cnc	3461	08 45 57.6	+18 04 13	d	3.94	+1.08	+1.01	K0 IIIb
	3487	08 46 47.5	-46 07 29		3.87	+0.02	+0.09	A1 II
v344 Car	3498	08 47 17.4	-56 51 11		4.50	-0.17	-0.16	B3 Vne
12 Hya	3484	08 47 26.3	-13 37 52	db	4.32	+0.90	+0.91	G8 III Fe-1
11 ε Hya	3482	08 47 57.9	+06 20 06	cdbm	3.38	+0.69	+0.78	G5: III + A:
48 ι Cnc	3475	08 48 03.2	+28 40 34	d	4.03	+1.01	+0.96	G8 II-III
13 ρ Hya	3492	08 49 37.4	+05 45 12	db	4.35	-0.04	-0.03	A0 Vn
14 KX Hya	3500	08 50 29.5	-03 31 40		5.30	-0.08	-0.06	B9p Hg Mn
γ Pyx	3518	08 51 29.3	-27 47 40		4.02	+1.27	+1.24	K2.5 III
ζ Oct	3678	08 52 58.4	-85 44 58		5.43	+0.31	+0.35	F0 III
	3571	08 55 33.3	-60 43 52	d	3.84	-0.10	-0.08	B7 II-III
16 ζ Hya	3547	08 56 34.9	+05 51 31		3.11	+0.98	+0.96	G9 IIIa
v376 Car	3582	08 57 31.4	-59 19 00	d	4.93	-0.18	-0.21	B2 IV-V
65 α Cnc	3572	08 59 42.9	+11 46 09	db	4.26	+0.14	+0.14	A5m
9 ι UMa	3569	09 00 44.3	+47 57 07	db	3.12	+0.22	+0.25	A7 IVn
64 σ ³ Cnc	3575	09 00 55.2	+32 19 47	d	5.23	+0.91	+0.91	G8 III
	3591	09 00 55.9	-41 20 31	cb	4.45	+0.65	+0.75	G8/K1 III + A
	3579	09 02 05.5	+41 41 31	odbm	3.96	+0.46	+0.53	F7 V
α Vol	3615	09 02 47.8	-66 29 11	b	4.00	+0.15	+0.15	A5m
8 ρ UMa	3576	09 04 32.5	+67 32 23		4.74	+1.54	+2.15	M3 IIIb Ca 1
	3614	09 04 55.9	-47 11 17		3.75	+1.17	+1.11	K2 III
12 κ UMa	3594	09 05 09.1	+47 03 57	dm	3.57	+0.01	+0.03	A0 IIIn
	3643	09 05 11.5	-72 41 36		4.47	+0.61	+0.67	F8 II
	3612	09 07 57.2	+38 21 39		4.56	+1.04	+0.97	G7 Ib-II
λ Vel	3634	09 08 49.5	-43 31 27	dn23	2.23	+1.67	+1.69	K4.5 Ib
76 κ Cnc	3623	09 08 57.8	+10 34 35	db	5.23	-0.09	-0.07	B8p Hg Mn
15 UMa	3619	09 10 26.7	+51 30 44		4.46	+0.29	+0.30	F0m
77 ξ Cnc	3627	09 10 38.9	+21 57 11	db	5.16	+0.97	+0.90	G9 IIIa Fe-0.5 CH-1
v357 Car	3659	09 11 33.6	-59 03 35	b	3.43	-0.19	-0.17	B2 IV-V
	3663	09 11 47.3	-62 24 35		3.96	-0.18	-0.18	B3 III
β Car	3685	09 13 26.3	-69 48 36	n24	1.67	+0.07	+0.02	A1 III
36 Lyn	3652	09 15 16.0	+43 07 25		5.30	-0.13	-0.12	B8p Mn
22 θ Hya	3665	09 15 32.0	+02 13 06	db	3.89	-0.06	-0.07	B9.5 IV (C II)
	3696	09 16 50.2	-57 38 11		4.34	+1.60	+1.83	M0.5 III Ba 0.3
ι Car	3699	09 17 41.5	-59 22 13		2.21	+0.19	+0.28	A7 Ib
38 Lyn	3690	09 20 14.2	+36 42 22	dbm	3.82	+0.07	+0.12	A2 IV-
40 α Lyn	3705	09 22 25.2	+34 17 46		3.14	+1.55	+1.65	K7 IIIab
θ Pyx	3718	09 22 29.4	-26 03 44		4.71	+1.63	+1.91	M0.5 III
κ Vel	3734	09 22 48.7	-55 06 27	b	2.47	-0.14	-0.17	B2 IV-V
1 κ Leo	3731	09 25 57.6	+26 05 03	d	4.47	+1.22	+1.20	K2 III
30 α Hya	3748	09 28 41.6	-08 45 26	dn25	1.99	+1.44	+1.39	K3 II-III
ε Ant	3765	09 30 10.5	-36 03 02	b	4.51	+1.41	+1.37	K3 III
ψ Vel	3786	09 31 35.4	-40 33 58	dm	3.60	+0.37	+0.43	F0 V+
	3821	09 31 45.6	-73 10 51		5.46	+1.56	+1.57	K4 III

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
	3803	09 31 54.4	-57 08 03		3.16	+1.54	+1.59	K5 III
R Car	3816	09 32 48.5	-62 53 20	vd	7.43	+0.91	+0.91	gM5e
4 λ Leo	3773	09 33 00.0	+22 52 03		4.32	+1.54	+1.63	K4.5 IIIb
5 ξ Leo	3782	09 33 09.4	+11 11 57		4.99	+1.05	+0.89	G9.5 III
23 UMa	3757	09 33 16.7	+62 57 43	d	3.65	+0.36	+0.41	F0 IV
	3808	09 34 14.7	-21 12 58		5.02	+1.02	+0.94	K0 III
25 θ UMa	3775	09 34 21.0	+51 34 24	db	3.17	+0.48	+0.56	F6 IV
	3825	09 35 05.9	-59 19 50		4.08	-0.01	+0.01	B5 II
10 SU LMi	3800	09 35 35.7	+36 17 47		4.54	+0.91	+0.91	G7.5 III Fe-0.5
26 UMa	3799	09 36 21.1	+51 57 00		4.47	+0.03	+0.08	A1 Va
24 DK UMa	3771	09 36 25.9	+69 43 47		4.54	+0.78	+0.83	G5 III-IV
	3836	09 37 38.0	-49 27 23	d	4.34	+0.17	+0.18	A5 IV-V
	3834	09 39 37.6	+04 32 48		4.68	+1.31	+1.35	K3 III
	3751	09 40 07.6	+81 13 27		4.28	+1.49	+1.46	K3 IIIa
35 ι Hya	3845	09 41 00.3	-01 14 45		3.90	+1.31	+1.29	K2.5 III
38 κ Hya	3849	09 41 23.1	-14 26 07		5.07	-0.15	-0.15	B5 V
14 ο Leo	3852	09 42 21.0	+09 47 20	cdb	3.52	+0.52	+0.59	F5 II + A5?
16 ψ Leo	3866	09 44 57.3	+13 55 04	d	5.36	+1.61	+1.94	M24+ IIIab
θ Ant	3871	09 45 12.4	-27 52 24	cdm	4.78	+0.52	+0.61	F7 II-III + A8 V
ι Car	3884	09 45 51.9	-62 36 44	v	3.69	+1.01	+1.03	F9-G5 Ib
17 ε Leo	3873	09 47 07.5	+23 40 11		2.97	+0.81	+0.81	G1 II
υ Car	3890	09 47 39.8	-65 10 37	dm	2.92	+0.27	+0.42	A6 II
R Leo	3882	09 48 46.0	+11 19 24	v	10.35	+1.50	+9.03	gM7e
	3881	09 50 01.8	+45 54 54		5.08	+0.62	+0.68	G0.5 Va
39 υ ¹ Hya	3903	09 52 33.7	-14 57 11		4.11	+0.92	+0.92	G8.5 IIIa
29 υ UMa	3888	09 52 34.2	+58 55 54	vd	3.78	+0.29	+0.39	F0 IV
24 μ Leo	3905	09 54 02.3	+25 54 00	s	3.88	+1.22	+1.13	K2 III CN 1 Ca 1
	3923	09 55 56.0	-19 07 00	b	4.94	+1.56	+1.75	K5 III
φ Vel	3940	09 57 39.3	-54 40 32	d	3.52	-0.07	-0.04	B5 Ib
19 LMi	3928	09 59 03.2	+40 56 51	b	5.11	+0.48	+0.55	F5 V
	3947	09 59 50.3	-35 59 58	d	5.23	+0.30	+0.34	F1 III-IV
29 π Leo	3950	10 01 24.0	+07 56 07		4.68	+1.59	+1.96	M2- IIIab
20 LMi	3951	10 02 18.1	+31 48 43		5.37	+0.68	+0.74	G3 Va Hδ 1
40 υ ² Hya	3970	10 06 13.2	-13 10 28	b	4.60	-0.09	-0.07	B8 V
30 η Leo	3975	10 08 33.4	+16 39 08	asd	3.48	-0.03	+0.06	A0 Ib
	3974	10 08 45.0	+35 08 03		4.49	+0.19	+0.19	A7 V
15 α Sex	3981	10 09 05.3	-00 28 57		4.48	-0.03	-0.01	A0 III
31 Leo	3980	10 09 05.8	+09 53 11	d	4.39	+1.45	+1.51	K3.5 IIIb Fe-1:
32 α Leo	3982	10 09 34.1	+11 51 23	dbn26	1.36	-0.09	-0.10	B7 Vn
41 λ Hya	3994	10 11 41.1	-12 27 58	db	3.61	+1.01	+0.96	K0 III CN 0.5
	4037	10 14 16.2	-70 09 00		3.29	-0.07	-0.03	B8 III _n
	4023	10 15 41.0	-42 14 02	b	3.85	+0.05	+0.03	A2 Va
v337 Car	4050	10 17 50.2	-61 26 43	d	3.39	+1.54	+1.45	K2.5 II
36 ζ Leo	4031	10 17 56.3	+23 18 16	dasb	3.43	+0.31	+0.39	F0 III
33 λ UMa	4033	10 18 26.7	+42 48 04	s	3.45	+0.03	+0.05	A1 IV
22 ε Sex	4042	10 18 44.9	-08 10 55		5.25	+0.34	+0.39	F1 IV-
AG Ant	4049	10 19 09.6	-29 06 18		5.52	+0.28	+0.31	A0p Ib-II
41 γ ¹ Leo	4057	10 21 12.6	+19 43 37	dbm	2.01	+1.13	+1.17	K1- IIIb Fe-0.5
	4080	10 23 17.7	-41 45 49		4.82	+1.10	+1.06	K1 III
34 μ UMa	4069	10 23 39.7	+41 23 08	b	3.06	+1.60	+1.77	M0 III

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H15

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
	4086	10 24 28.6	-38 07 29		5.34	+0.25	+0.28	A8 V
	4102	10 24 50.2	-74 08 47	b	3.99	+0.37	+0.43	F2 V
	4072	10 25 43.6	+65 27 06	b	4.94	-0.05	-0.02	A0p Hg
42	μ Hya	4094	10 27 10.8		3.83	+1.46	+1.47	K4+ III
	α Ant	4104	10 28 11.0	b	4.28	+1.43	+1.47	K4.5 III
		4114	10 28 42.5		3.81	+0.32	+0.41	F0 Ib
31	β LMi	4100	10 29 10.6	dbm	4.20	+0.91	+0.89	G9 IIIab
29	δ Sex	4116	10 30 37.3		5.19	-0.05	-0.03	B9.5 V
36	UMa	4112	10 32 03.1	d	4.82	+0.54	+0.58	F8 V
	PP Car	4140	10 32 49.7		3.30	-0.09	+0.02	B4 Vne
46	Leo	4127	10 33 23.7		5.43	+1.70	+1.91	M1 IIIb
		4084	10 33 38.1		5.25	+0.40	+0.46	F4 V
		4143	10 33 54.1	dm	5.02	+1.05	+1.11	K1/2 III
47	ρ Leo	4133	10 33 59.7	vdb	3.84	-0.15	-0.13	B1 Iab
44	Hya	4145	10 35 05.2	d	5.08	+1.60	+1.59	K5 III
	γ Cha	4174	10 35 43.0		4.11	+1.58	+1.71	M0 III
		4159	10 36 27.5	b	4.45	+1.60	+1.62	K5 II
37	UMa	4141	10 36 35.7		5.16	+0.35	+0.39	F1 V
		4126	10 36 56.5		4.86	+0.96	+0.94	G8 III
		4167	10 38 15.2	dbm	3.84	+0.30	+0.35	F0m
37	LMi	4166	10 39 58.9		4.68	+0.82	+0.82	G2.5 IIa
		4180	10 40 12.4	d	4.29	+1.03	+0.96	G2 II
	θ Car	4199	10 43 45.9	b	2.74	-0.22	-0.24	B0.5 Vp
41	LMi	4192	10 44 38.1		5.08	+0.04	+0.06	A2 IV
		4181	10 44 38.8		5.01	+1.41	+1.38	K3 III
		4191	10 44 51.7	db	5.18	+0.32	+0.38	F5 III
	δ^2 Cha	4234	10 45 58.1		4.45	-0.19	-0.19	B2.5 IV
42	LMi	4203	10 47 06.6	db	5.36	-0.05	-0.03	A1 Vn
51	Leo	4208	10 47 37.1		5.50	+1.13	+1.08	gK3
	μ Vel	4216	10 47 44.5	cdbm	2.69	+0.90	+0.91	G5 III + F8: V
53	Leo	4227	10 50 26.3	b	5.32	+0.04	+0.05	A2 V
	ν Hya	4232	10 50 44.2		3.11	+1.23	+1.22	K1.5 IIIb H δ -0.5
		4257	10 54 24.9	db	3.78	+0.95	+0.96	K0 IIIb
46	LMi	4247	10 54 33.9		3.79	+1.04	+1.07	K0+ III-IV
54	Leo	4259	10 56 49.7	cdm	4.30	+0.02	+0.07	A1 III _n + A1 IV _n
	ι Ant	4273	10 57 46.2		4.60	+1.01	+0.99	K0 III
47	UMa	4277	11 00 43.1		5.03	+0.62	+0.69	G1 ⁻ V Fe-0.5
7	α Crt	4287	11 00 52.4		4.08	+1.08	+1.06	K0+ III
		4293	11 01 11.5		4.37	+0.12	+0.13	A3 IV
58	Leo	4291	11 01 43.3	d	4.84	+1.14	+1.13	K0.5 III Fe-0.5
48	β UMa	4295	11 03 11.1	b	2.34	+0.03	+0.02	A0m A1 IV-V
60	Leo	4300	11 03 31.7		4.42	+0.05	+0.03	A0.5m A3 V
50	α UMa	4301	11 05 05.8	mn27	1.81	+1.06	+1.03	K0 ⁻ IIIa
63	χ Leo	4310	11 06 10.6	d	4.62	+0.33	+0.39	F1 IV
	χ^1 Hya	4314	11 06 25.1	d	4.92	+0.37	+0.43	F3 IV
v382	Car	4337	11 09 33.5	cb	3.93	+1.23	+1.19	G4 0-Ia
52	ψ UMa	4335	11 10 55.2		3.00	+1.14	+1.09	K1 III
11	β Crt	4343	11 12 46.1	b	4.46	+0.03	+0.04	A2 IV
		4350	11 13 34.9	b	5.37	+0.18	+0.19	A3 IV/V
68	δ Leo	4357	11 15 18.1	d	2.56	+0.13	+0.12	A4 IV

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
70	θ Leo	4359	11 15 25.1		3.33	0.00	+0.01	A2 IV (Kvar)
74	ϕ Leo	4368	11 17 48.4	d	4.45	+0.21	+0.25	A7 V ⁺ n
	SV Crt	4369	11 18 06.7	sdb	6.11	+0.21	+0.23	A8p Sr Cr
54	ν UMa	4377	11 19 41.3	db	3.49	+1.40	+1.37	K3 ⁻ III
55	UMa	4380	11 20 21.1	db	4.76	+0.11	+0.11	A1 Va
12	δ Crt	4382	11 20 28.1	b	3.56	+1.11	+1.12	G9 IIIb CH 0.2
	π Cen	4390	11 22 02.4	dm	3.90	-0.16	-0.16	B5 Vn
77	σ Leo	4386	11 22 17.8	b	4.05	-0.06	-0.06	A0 III ⁺
78	ι Leo	4399	11 25 05.7	dbm	4.00	+0.42	+0.47	F2 IV
15	γ Crt	4405	11 26 00.5	d	4.06	+0.22	+0.24	A7 V
84	τ Leo	4418	11 29 05.7	d	4.95	+1.00	+0.95	G7.5 IIIa
1	λ Dra	4434	11 32 42.9		3.82	+1.61	+1.79	M0 III Ca-1
	ξ Hya	4450	11 34 06.8	d	3.54	+0.95	+0.92	G7 III
	λ Cen	4467	11 36 49.9	d	3.11	-0.04	-0.01	B9.5 II n
		4466	11 37 01.5		5.26	+0.26	+0.29	A7m
21	θ Crt	4468	11 37 49.5	b	4.70	-0.07	-0.06	B9.5 Vn
91	ν Leo	4471	11 38 06.1		4.30	+0.98	+0.98	G8 ⁺ IIIb
	o Hya	4494	11 41 20.1		4.70	-0.07	-0.05	B9 V
61	UMa	4496	11 42 13.8	das	5.31	+0.72	+0.78	G8 V
3	Dra	4504	11 43 42.5		5.32	+1.27	+1.23	K3 III
v810	Cen	4511	11 44 36.3	s	5.00	+0.78	+0.87	G0 0-Ia Fe 1
27	ζ Crt	4514	11 45 54.4	dm	4.71	+0.96	+0.94	G8 IIIa
	λ Mus	4520	11 46 41.0	d	3.63	+0.16	+0.17	A7 IV
3	ν Vir	4517	11 47 00.9		4.04	+1.50	+1.79	M1 III
63	χ UMa	4518	11 47 13.8		3.69	+1.18	+1.15	K0.5 IIIb
		4522	11 47 36.9	d	4.11	+0.90	+0.88	G3 II
93	DQ Leo	4527	11 49 08.6	cdb	4.50	+0.55	+0.69	G4 III-IV + A7 V
	II Hya	4532	11 49 53.5		5.10	+1.59	+2.84	M4 ⁺ III
94	β Leo	4534	11 50 12.3	dn28	2.14	+0.09	+0.10	A3 Va
		4537	11 50 47.6		4.30	-0.15	-0.09	B3 V
5	β Vir	4540	11 51 52.1	d	3.59	+0.52	+0.61	F9 V
		4546	11 52 16.6		4.47	+1.28	+1.24	K3 III
	β Hya	4552	11 54 03.0	vdm	4.29	-0.10	-0.07	Ap Si
64	γ UMa	4554	11 55 00.3	ab	2.41	+0.04	+0.06	A0 Van
95	Leo	4564	11 56 49.9	db	5.53	+0.12	+0.13	A3 V
30	η Crt	4567	11 57 09.9		5.17	-0.02	0.00	A0 Va
8	π Vir	4589	12 02 01.6	b	4.65	+0.12	+0.14	A5 IV
	θ^1 Cru	4599	12 04 11.1	db	4.32	+0.28	+0.36	A8m
		4600	12 04 49.9		5.15	+0.42	+0.50	F6 V
9	o Vir	4608	12 06 21.3	s	4.12	+0.97	+0.96	G8 IIIa CN-1 Ba 1 CH 1
	η Cru	4616	12 08 04.3	db	4.14	+0.35	+0.41	F2 V ⁺
		4618	12 09 15.7	v	4.46	-0.16	-0.16	B2 III ne
	δ Cen	4621	12 09 32.0	d	2.58	-0.13	-0.12	B2 IV ne
1	α Crv	4623	12 09 34.7		4.02	+0.33	+0.40	F0 IV-V
2	ϵ Crv	4630	12 11 17.1		3.02	+1.33	+1.23	K2.5 IIIa
	ρ Cen	4638	12 12 50.3		3.97	-0.16	-0.17	B3 V
		4646	12 13 13.6	vb	5.14	+0.36	+0.42	F2m
	δ Cru	4656	12 16 21.2		2.79	-0.19	-0.25	B2 IV
69	δ UMa	4660	12 16 31.8	d	3.32	+0.08	+0.03	A2 Van
4	γ Crv	4662	12 16 58.0	bn29	2.58	-0.11	-0.10	B8p Hg Mn

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H17

Designation	BS=HR No.	Right Ascension			Declination	Notes	V	B-V	V-I	Spectral Type
		h	m	s						
ε Mus	4671	12 18	48.4	-68 05 09	b	4.06	+1.60	+2.82	M5 III	
ζ Cru	4679	12 19	40.5	-64 07 41	d	4.06	-0.17	-0.18	B2.5 V	
β Cha	4674	12 19	43.0	-79 26 13		4.24	-0.12	-0.11	B5 Vn	
3 CVn	4690	12 20	54.8	+48 51 34		5.28	+1.62	+1.90	M1+ IIIab	
15 η Vir	4689	12 21	03.5	-00 47 30	db	3.89	+0.03	+0.03	A1 IV+	
16 Vir	4695	12 21	29.6	+03 11 15	d	4.97	+1.17	+1.19	K0.5 IIIb Fe-0.5	
ε Cru	4700	12 22	35.4	-60 31 31		3.59	+1.39	+1.39	K3 III	
12 Com	4707	12 23	38.0	+25 43 17	cdb	4.78	+0.52	+0.61	G5 III + A5	
6 CVn	4728	12 26	57.2	+38 53 38		5.01	+0.96	+0.94	G9 III	
α ¹ Cru	4730	12 27	52.0	-63 13 25	cdbmn30	0.77	-0.24	-0.26	B0.5 IV	
15 γ Com	4737	12 28	03.4	+28 08 37		4.35	+1.13	+1.04	K1 III Fe 0.5	
σ Cen	4743	12 29	16.0	-50 21 18		3.91	-0.19	-0.20	B2 V	
	4748	12 29	34.7	-39 09 56		5.45	-0.07	-0.05	B8/9 V	
74 UMa	4760	12 30	59.9	+58 16 56		5.37	+0.21	+0.17	δ Del	
7 δ Crv	4757	12 31	01.9	-16 38 26	d	2.94	-0.01	-0.04	B9.5 IV ⁻ n	
γ Cru	4763	12 32	25.7	-57 14 20	dn31	1.59	+1.60	+2.37	M3.5 III	
8 η Crv	4775	12 33	14.0	-16 19 13	b	4.30	+0.39	+0.44	F2 V	
γ Mus	4773	12 33	50.5	-72 15 25		3.84	-0.16	-0.14	B5 V	
5 κ Dra	4787	12 34	25.9	+69 39 52	vb	3.85	-0.12	-0.02	B6 IIIpe	
	4783	12 34	45.2	+33 07 25		5.42	+1.01	+0.96	K0 III CN-1	
8 β CVn	4785	12 34	48.4	+41 14 08	adsb	4.24	+0.59	+0.67	G0 V	
9 β Crv	4786	12 35	34.4	-23 31 15		2.65	+0.89	+0.88	G5 IIb	
23 Com	4789	12 35	58.3	+22 30 21	dbm	4.80	+0.01	+0.03	A0m A1 IV	
24 Com	4792	12 36	15.4	+18 15 12	d	5.03	+1.15	+1.12	K2 III	
α Mus	4798	12 38	33.1	-69 15 33	d	2.69	-0.18	-0.23	B2 IV-V	
τ Cen	4802	12 38	56.6	-48 39 53		3.85	+0.05	+0.06	A1 IVnn	
26 χ Vir	4813	12 40	24.6	-08 07 09	d	4.66	+1.24	+1.15	K2 III CN 1.5	
γ Cen	4819	12 42	46.1	-49 04 59	dbm	2.20	-0.02	-0.01	A1 IV	
29 γ ¹ Vir	4825	12 42	48.1	-01 34 22	ocdbm	2.74	+0.36	+0.43	F1 V	
29 γ ² Vir	4826	12 42	48.1	-01 34 19	ocdm	2.74	+0.36	+0.43	F0m F2 V	
30 ρ Vir	4828	12 43	01.4	+10 06 43	b	4.88	+0.08	+0.08	A0 Va (λ Boo)	
	4839	12 45	12.8	-28 26 50		5.46	+1.35	+1.31	K3 III	
Y CVn	4846	12 46	11.0	+45 19 03		5.42	+2.99	+3.07	C5.5	
32 FM Vir	4847	12 46	45.3	+07 33 02	b	5.22	+0.32	+0.34	F2m	
β Mus	4844	12 47	41.1	-68 13 51	cdm	3.04	-0.18	-0.19	B2 V + B2.5 V	
β Cru	4853	12 49	03.1	-59 48 41	vdb	1.25	-0.24	-0.27	B0.5 III	
	4874	12 51	54.8	-34 07 17	d	4.90	-0.03	-0.01	A0 IV	
31 Com	4883	12 52	47.6	+27 25 07	s	4.93	+0.68	+0.70	G0 IIIp	
	4888	12 54	24.0	-49 03 55	b	4.33	+1.34	+1.33	K3/4 III	
	4889	12 54	41.5	-40 18 03		4.25	+0.22	+0.27	A7 V	
77 ε UMa	4905	12 55	00.8	+55 50 17	dvbn32	1.76	-0.02	-0.04	A0p Cr	
40 ψ Vir	4902	12 55	31.5	-09 39 39		4.77	+1.59	+2.18	M3- III Ca-1	
μ ¹ Cru	4898	12 55	55.9	-57 17 59	d	4.03	-0.18	-0.26	B2 IV-V	
8 Dra	4916	12 56	21.9	+65 19 00	v	5.23	+0.30	+0.35	F0 IV-V	
43 δ Vir	4910	12 56	44.3	+03 16 32	d	3.39	+1.57	+2.24	M3+ III	
12 α ² CVn	4915	12 57	04.6	+38 11 50	vd	2.89	-0.12	-0.13	A0p Si Eu	
ι Oct	4870	12 57	36.0	-85 14 41	dm	5.45	+0.99	+0.97	K0 III	
78 UMa	4931	13 01	41.3	+56 14 44	asdm	4.93	+0.37	+0.45	F2 V	
47 ε Vir	4932	13 03	17.8	+10 50 19	asd	2.85	+0.93	+0.83	G8 IIIab	
δ Mus	4923	13 03	51.3	-71 40 10	b	3.61	+1.19	+1.17	K2 III	

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
14 CVn	4943	13 06 47.4	+35 40 44		5.20	-0.06	-0.04	B9 V
ξ ² Cen	4942	13 08 14.2	-50 01 34	db	4.27	-0.18	-0.18	B1.5 V
51 θ Vir	4963	13 11 07.0	-05 39 31	dbm	4.38	-0.01	+0.01	A1 IV
43 β Com	4983	13 12 55.3	+27 45 53	db	4.23	+0.57	+0.67	F9.5 V
η Mus	4993	13 16 48.2	-68 00 47	vdb	4.79	-0.08	-0.09	B7 V
	5006	13 18 08.5	-31 37 29		5.10	+0.96	+0.95	K0 III
20 AO CVn	5017	13 18 32.9	+40 27 17	sv	4.72	+0.31	+0.31	F2 III (str. met.)
60 σ Vir	5015	13 18 44.5	+05 21 07		4.78	+1.64	+1.97	M1 III
61 Vir	5019	13 19 35.2	-18 26 09	d	4.74	+0.71	+0.75	G6.5 V
46 γ Hya	5020	13 20 09.0	-23 17 22	d	2.99	+0.92	+0.90	G8 IIIa
	5028	13 21 52.2	-36 49 49		2.75	+0.07	+0.02	A2 Va
	5035	13 24 06.3	-61 06 20	d	4.52	-0.14	-0.13	B3 V
79 ζ UMa	5054	13 24 49.7	+54 48 30	db	2.23	+0.06	+0.07	A1 Va ⁺ (Si)
80 UMa	5062	13 26 07.4	+54 52 17	b	3.99	+0.17	+0.19	A5 Vn
67 α Vir	5056	13 26 22.9	-11 16 41	vdbn33	0.98	-0.24	-0.25	B1 V
68 Vir	5064	13 27 54.7	-12 49 27		5.27	+1.48	+1.60	M0 III
	5085	13 29 16.4	+59 49 48	d	5.40	-0.01	+0.01	A1 Vn
70 Vir	5072	13 29 31.9	+13 39 33	d	4.97	+0.71	+0.77	G4 V
	5089	13 32 21.4	-39 31 22	dbm	3.90	+1.19	+1.10	G8 III
78 CW Vir	5105	13 35 16.4	+03 32 39	vb	4.92	+0.03	+0.03	A1p Cr Eu
	5110	13 35 48.0	+37 04 04	b	4.91	+0.40	+0.55	F1 V ⁺
79 ζ Vir	5107	13 35 50.5	-00 42 36		3.38	+0.11	+0.12	A2 IV ⁻
	5139	13 37 43.6	+71 07 41		5.50	+1.22	+1.18	gK2
	5132	13 41 19.7	-53 34 47	d	2.29	-0.17	-0.23	B1 III
ε Cen	5134	13 41 24.0	-50 03 47	s	5.74	+1.50	+3.33	M6 III
v744 Cen								
82 Vir	5150	13 42 47.8	-08 48 57		5.03	+1.62	+2.04	M1.5 III
1 Cen	5168	13 46 58.4	-33 09 24	b	4.23	+0.39	+0.44	F2 V ⁺
4 τ Boo	5185	13 48 19.9	+17 20 44	d	4.50	+0.51	+0.51	F7 V
85 η UMa	5191	13 48 25.5	+49 12 06	abn34	1.85	-0.10	-0.08	B3 V
v766 Cen	5171	13 48 46.4	-62 42 05	sdm	6.40	+	+	K0 0-Ia
5 υ Boo	5200	13 50 33.8	+15 41 13		4.05	+1.52	+1.60	K5.5 III
2 v806 Cen	5192	13 50 45.4	-34 33 44		4.19	+1.52	+3.00	M4.5 III
	5190	13 50 51.8	-41 47 56	vb	3.41	-0.23	-0.24	B2 IV
	5193	13 50 58.9	-42 35 06	sdb	3.47	-0.17	-0.21	B2 IV-Vpne (shell)
89 Vir	5196	13 51 05.9	-18 14 43		4.96	+1.06	+1.09	K0.5 III
10 CU Dra	5226	13 52 05.4	+64 36 45	d	4.58	+1.57	+2.35	M3.5 III
8 η Boo	5235	13 55 45.4	+18 17 09	asdb	2.68	+0.58	+0.65	G0 IV
	5231	13 56 57.3	-47 23 53	b	2.55	-0.18	-0.18	B2.5 IV
	5241	13 59 18.1	-63 47 45		4.71	+1.08	+1.05	K1.5 III
	5248	13 59 38.9	-42 12 35		3.83	-0.22	-0.23	B2 IV
47 Hya	5250	13 59 47.2	-25 04 52	b	5.20	-0.09	-0.07	B8 V
υ ¹ Cen	5249	14 00 04.8	-44 54 44		3.87	-0.21	-0.22	B2 IV-V
93 τ Vir	5264	14 02 47.6	+01 26 12	db	4.23	+0.12	+0.14	A3 IV
	5260	14 03 08.4	-45 42 41	b	4.34	+0.60	+0.65	F6 II
υ ² Cen	5270	14 03 38.1	+09 34 41	s	6.18	+0.85	+0.87	G8: II: Fe-5
11 α Dra	5291	14 05 00.0	+64 16 08	sb	3.67	-0.05	-0.08	A0 III
	5267	14 05 25.9	-60 28 49	dbmn35	0.61	-0.23	-0.25	B1 III
β Cen	5285	14 07 25.7	-41 17 11		4.36	-0.20	-0.21	B2 V
	5261	14 07 35.9	-76 54 13	vs	5.69	+1.24	+4.10	M6.5 III:
49 π Hya	5287	14 07 39.5	-26 47 23		3.25	+1.09	+1.10	K2 ⁻ III Fe-0.5

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
5 θ Cen	5288	14 08 00.9	-36 28 47	dn36	2.06	+1.01	+1.01	K0- IIIb
4 UMi	5321	14 08 47.7	+77 26 30	db	4.80	+1.37	+1.34	K3- IIIb Fe-0.5
BY Boo	5299	14 08 49.7	+43 44 53		5.13	+1.49	+2.74	M4.5 III
12 Boo	5304	14 11 25.5	+24 59 09	db	4.82	+0.54	+0.57	F8 IV
98 κ Vir	5315	14 14 06.0	-10 22 39		4.18	+1.32	+1.35	K2.5 III Fe-0.5
16 α Boo	5340	14 16 41.3	+19 03 58	dmn37	-0.05	+1.24	+1.22	K1.5 III Fe-0.5
21 ι Boo	5350	14 16 57.7	+51 15 51	db	4.75	+0.24	+0.19	A7 IV
99 ι Vir	5338	14 17 11.8	-06 06 25		4.07	+0.51	+0.59	F7 III-IV
19 λ Boo	5351	14 17 14.3	+45 59 09		4.18	+0.09	+0.04	A0 Va (λ Boo)
	5361	14 18 56.9	+35 24 23	b	4.80	+1.06	+1.00	K0 III
100 λ Vir	5359	14 20 19.9	-13 28 25	b	4.52	+0.13	+0.11	A5m:
18 Boo	5365	14 20 21.7	+12 54 05	d	5.41	+0.39	+0.41	F3 V
ι Lup	5354	14 20 51.3	-46 09 38		3.55	-0.18	-0.18	B2.5 IVn
	5358	14 21 54.9	-56 29 20		4.30	+0.08	+0.21	B6 Ib
ψ Cen	5367	14 21 56.0	-37 59 15	d	4.05	-0.03	-0.02	A0 III
v761 Cen	5378	14 24 26.0	-39 36 48	v	4.41	-0.19	-0.20	B7 IIIp (var)
	5392	14 25 18.6	+05 43 09	b	5.10	+0.12	+0.14	A5 V
23 θ Boo	5404	14 25 57.7	+51 44 51	d	4.04	+0.50	+0.59	F7 V
	5390	14 26 06.0	-24 54 26		5.34	+0.96	+0.95	K0 III
22 Boo	5405	14 27 30.2	+19 07 36		5.40	+0.23	+0.21	F0m
5 UMi	5430	14 27 30.3	+75 35 45	d	4.25	+1.43	+1.42	K4- III
τ^1 Lup	5395	14 27 35.5	-45 19 19	vd	4.56	-0.15	-0.14	B2 IV
τ^2 Lup	5396	14 27 38.3	-45 28 47	cdm	4.33	+0.43	+0.58	F4 IV + A7:
105 ϕ Vir	5409	14 29 21.8	-02 19 40	sdbm	4.81	+0.69	+0.73	G2 IV
52 Hya	5407	14 29 29.9	-29 35 30	d	4.97	-0.07	-0.05	B8 IV
δ Oct	5339	14 30 48.3	-83 46 04		4.31	+1.30	+1.30	K2 III
25 ρ Boo	5429	14 32 48.0	+30 16 25	ad	3.57	+1.30	+1.22	K3 III
27 γ Boo	5435	14 32 59.0	+38 12 38	d	3.04	+0.19	+0.17	A7 IV ⁺
σ Lup	5425	14 34 08.8	-50 33 20		4.44	-0.18	-0.18	B2 III
28 σ Boo	5447	14 35 39.6	+29 38 54	d	4.47	+0.36	+0.41	F2 V
η Cen	5440	14 36 56.7	-42 15 19	v	2.33	-0.16	-0.17	B1.5 IVpne (shell)
ρ Lup	5453	14 39 24.8	-49 31 21		4.05	-0.15	-0.16	B5 V
33 Boo	5468	14 39 40.4	+44 18 29	b	5.39	+0.03	+0.05	A1 V
α^2 Cen	5460	14 41 08.6	-60 55 35	odn38	1.35	+0.90	+0.88	K1 V
α^1 Cen	5459	14 41 08.6	-60 55 43	odbn38	-0.01	+0.71	+0.69	G2 V
30 ζ Boo	5478	14 42 13.5	+13 37 58	odbm	3.78	+0.04	+0.06	A2 Va
	5471	14 43 21.9	-37 53 19		4.01	-0.16	-0.18	B3 V
α Lup	5469	14 43 26.2	-47 29 00	vdb	2.30	-0.15	-0.21	B1.5 III
107 μ Vir	5487	14 44 14.9	-05 45 17	b	3.87	+0.39	+0.47	F2 V
α Cir	5463	14 44 21.1	-65 04 17	db	3.18	+0.26	+0.26	A7p Sr Eu
34 W Boo	5490	14 44 24.7	+26 25 59	v	4.80	+1.67	+2.13	M3- III
	5485	14 45 02.5	-35 16 09		4.06	+1.36	+1.35	K3 IIIb
36 ϵ Boo	5506	14 45 58.2	+26 58 49	dm	2.35	+0.97	+0.95	K0- II-III
109 Vir	5511	14 47 23.3	+01 47 57		3.73	-0.01	+0.01	A0 IVnn
	5495	14 48 36.6	-52 28 38	d	5.22	+0.98	+0.96	G8 III
56 Hya	5516	14 49 03.9	-26 10 50		5.23	+0.94	+0.93	G8/K0 III
7 β UMi	5563	14 50 39.8	+74 03 49	dn40	2.07	+1.47	+1.46	K4- III
α Aps	5470	14 50 45.9	-79 08 15		3.83	+1.43	+1.42	K3 III CN 0.5
58 Hya	5526	14 51 36.9	-28 03 10		4.42	+1.37	+1.43	K2.5 IIIb Fe-1:
8 α^1 Lib	5530	14 51 56.0	-16 05 22		5.15	+0.40	+0.48	F3 V

Designation	BS=HR No.	Right Ascension			Declination	Notes	V	B-V	V-I	Spectral Type
		h	m	s						
	5552	14 52	00.9	+59 12 11		5.48	+1.37	+1.34	K4 III	
9 α^2 Lib	5531	14 52	07.6	-16 08 02	dbn39	2.75	+0.15	+0.16	A3 III-IV	
o Lup	5528	14 53	07.0	-43 40 01	dbm	4.32	-0.15	-0.14	B5 IV	
	5558	14 57	08.0	-33 56 45	db	5.32	+0.05	+0.06	A0 V	
RR UMi	5589	14 57	56.9	+65 50 36	b	4.63	+1.59	+2.85	M4.5 III	
15 ξ^2 Lib	5564	14 57	59.6	-11 29 57		5.48	+1.49	+1.51	gK4	
16 Lib	5570	14 58	21.7	-04 26 13		4.47	+0.32	+0.38	F0 IV-	
β Lup	5571	15 00	00.9	-43 13 23		2.68	-0.18	-0.23	B2 IV	
κ Cen	5576	15 00	38.1	-42 11 35	dm	3.13	-0.21	-0.21	B2 V	
19 δ Lib	5586	15 02	10.7	-08 36 25	vdb	4.91	0.00	+0.07	B9.5 V	
42 β Boo	5602	15 02	47.6	+40 18 10		3.49	+0.96	+0.89	G8 IIIa Fe-0.5	
110 Vir	5601	15 04	02.4	+02 00 15		4.39	+1.03	+1.04	K0+ IIIb Fe-0.5	
20 σ Lib	5603	15 05	23.5	-25 22 08		3.25	+1.67	+2.23	M2.5 III	
43 ψ Boo	5616	15 05	24.6	+26 51 40		4.52	+1.24	+1.23	K2 III	
	5635	15 06	55.4	+54 28 14		5.24	+0.96	+0.95	G8 III Fe-1	
45 Boo	5634	15 08	17.4	+24 46 58	d	4.93	+0.43	+0.51	F5 V	
λ Lup	5626	15 10	22.1	-45 21 53	dbm	4.07	-0.16	-0.18	B3 V	
24 ι Lib	5652	15 13	30.5	-19 52 31	db	4.54	-0.07	-0.06	B9p Si	
κ^1 Lup	5646	15 13	30.6	-48 49 18	d	3.88	-0.03	-0.02	B9.5 IVnn	
ζ Lup	5649	15 13	54.9	-52 10 59	d	3.41	+0.92	+0.91	G8 III	
	5691	15 14	54.4	+67 15 42		5.15	+0.55	+0.62	F8 V	
1 Lup	5660	15 16	00.4	-31 36 06		4.91	+0.37	+0.48	F0 Ib-II	
3 Ser	5675	15 16	18.6	+04 51 26	dm	5.32	+1.09	+1.05	gK0	
49 δ Boo	5681	15 16	24.6	+33 13 55	db	3.46	+0.96	+0.96	G8 III Fe-1	
27 β Lib	5685	15 18	13.2	-09 27 52	b	2.61	-0.07	-0.08	B8 III _n	
2 Lup	5686	15 19	12.3	-30 13 47		4.35	+1.10	+1.03	K0- IIIa CH-1	
β Cir	5670	15 19	17.6	-58 53 00		4.07	+0.09	+0.08	A3 Vb	
μ Lup	5683	15 20	06.6	-47 57 23	dm	4.27	-0.09	-0.07	B8 V	
13 γ UMi	5735	15 20	42.6	+71 45 14		3.00	+0.06	+0.12	A3 III	
γ TrA	5671	15 21	02.6	-68 45 37		2.87	+0.01	+0.04	A1 III	
δ Lup	5695	15 22	51.4	-40 43 38		3.22	-0.23	-0.23	B1.5 IVn	
ϕ^1 Lup	5705	15 23	14.5	-36 20 29	d	3.57	+1.53	+1.59	K4 III	
ϵ Lup	5708	15 24	13.1	-44 46 08	dbm	3.37	-0.19	-0.20	B2 IV-V	
ϕ^2 Lup	5712	15 24	36.0	-36 56 15		4.54	-0.16	-0.16	B4 V	
γ Cir	5704	15 25	11.3	-59 23 59	cdm	4.48	+0.17	+0.18	B5 IV	
51 μ^1 Boo	5733	15 25	20.5	+37 17 57	db	4.31	+0.31	+0.35	F0 IV	
12 ι Dra	5744	15 25	26.0	+58 53 16	d	3.29	+1.17	+1.07	K2 III	
9 τ^1 Ser	5739	15 26	50.1	+15 21 01		5.16	+1.65	+1.84	M1 IIIa	
3 β CrB	5747	15 28	45.4	+29 01 45	vdb	3.66	+0.32	+0.37	F0p Cr Eu	
52 ν^1 Boo	5763	15 31	44.3	+40 45 26		5.04	+1.59	+1.71	K4.5 IIIb Ba 0.5	
4 θ CrB	5778	15 33	50.3	+31 17 04	dm	4.14	-0.13	-0.12	B6 Vnn	
κ^1 Aps	5730	15 34	00.9	-73 27 53	d	5.40	-0.15	-0.14	B1pne	
37 Lib	5777	15 35	24.7	-10 08 25		4.61	+1.00	+1.02	K1 III-IV	
5 α CrB	5793	15 35	38.5	+26 38 25	bn41	2.22	+0.03	+0.05	A0 IV	
13 δ Ser	5789	15 35	52.7	+10 27 54	cdm	3.80	+0.27	+0.30	F0 III-IV + F0 IIIb	
γ Lup	5776	15 36	38.9	-41 14 26	dvbm	2.80	-0.22	-0.22	B2 IVn	
38 γ Lib	5787	15 36	47.3	-14 51 47	d	3.91	+1.01	+1.02	G8.5 III	
	5784	15 37	45.1	-44 28 13		5.44	+1.50	+1.49	K4/5 III	
39 ν Lib	5794	15 38	23.7	-28 12 29	d	3.60	+1.36	+1.36	K3.5 III	
54 ϕ Boo	5823	15 38	38.1	+40 16 52		5.25	+0.89	+0.89	G7 III-IV Fe-2	

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H21

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
ε TrA	5771	15 38 48.4	-66 23 25	d	4.11	+1.16	+1.12	K1/2 III
ω Lup	5797	15 39 34.7	-42 38 22	db	4.34	+1.41	+1.42	K4.5 III
40 τ Lib	5812	15 40 02.6	-29 51 00	b	3.66	-0.18	-0.18	B2.5 V
	5798	15 40 30.5	-52 26 42	d	5.43	+0.01	+0.03	B9 V
43 κ Lib	5838	15 43 14.8	-19 45 01	db	4.75	+1.57	+1.74	M0 ⁻ IIIb
16 ζ UMi	5903	15 43 18.1	+77 43 27		4.29	+0.04	+0.05	A2 III-IVn
8 γ CrB	5849	15 43 41.3	+26 13 32	dm	3.81	+0.02	+0.04	A0 IV comp.?
24 α Ser	5854	15 45 22.7	+06 21 22	d	2.63	+1.17	+1.09	K2 IIIb CN 1
	5886	15 47 00.9	+62 31 50		5.19	+0.06	+0.07	A2 IV
28 β Ser	5867	15 47 13.6	+15 21 10	d	3.65	+0.07	+0.09	A2 IV
27 λ Ser	5868	15 47 32.2	+07 17 02	b	4.42	+0.60	+0.66	G0 ⁻ V
35 κ Ser	5879	15 49 45.2	+18 04 24		4.09	+1.62	+1.73	M0.5 IIIab
10 δ CrB	5889	15 50 32.3	+26 00 03	s	4.59	+0.79	+0.82	G5 III-IV Fe-1
32 μ Ser	5881	15 50 47.8	-03 29 51	db	3.54	-0.04	-0.03	A0 III
37 ε Ser	5892	15 51 56.4	+04 24 41		3.71	+0.15	+0.13	A5m
11 κ CrB	5901	15 52 04.9	+35 35 19	sd	4.79	+1.00	+0.97	K1 IVa
5 χ Lup	5883	15 52 23.7	-33 41 38	b	3.97	-0.05	-0.05	B9p Hg
1 χ Her	5914	15 53 27.3	+42 23 22		4.60	+0.56	+0.63	F8 V Fe-2 Hδ-1
45 λ Lib	5902	15 54 38.7	-20 13 57	b	5.04	-0.01	-0.03	B2.5 V
46 θ Lib	5908	15 55 06.6	-16 47 37		4.13	+1.00	+1.02	G9 IIIb
β TrA	5897	15 57 08.7	-63 29 52	d	2.83	+0.32	+0.36	F0 IV
41 γ Ser	5933	15 57 29.6	+15 35 22	d	3.85	+0.48	+0.54	F6 V
5 ρ Sco	5928	15 58 16.7	-29 16 41	db	3.87	-0.20	-0.18	B2 IV-V
CL Dra	5960	15 58 19.6	+54 41 13	b	4.96	+0.27	+0.29	F0 IV
13 ε CrB	5947	15 58 31.2	+26 48 50	sd	4.14	+1.23	+1.17	K2 IIIab
48 FX Lib	5941	15 59 27.2	-14 20 34	b	4.95	-0.08	-0.06	B5 IIIpe (shell)
6 π Sco	5944	16 00 13.0	-26 10 38	cvdb	2.89	-0.18	-0.18	B1 V + B2 V
T CrB	5958	16 00 26.7	+25 51 27	vdb	10.08	+1.34	+2.06	gM3: + Bep
	5943	16 01 02.7	-41 48 25		4.99	+0.99	+0.97	K0 II/III
49 Lib	5954	16 01 35.5	-16 35 53	db	5.47	+0.52	+0.52	F8 V
η Lup	5948	16 01 37.2	-38 27 33	d	3.42	-0.21	-0.23	B2.5 IVn
7 δ Sco	5953	16 01 40.1	-22 41 03	dbm	2.29	-0.12	-0.09	B0.3 IV
13 θ Dra	5986	16 02 18.8	+58 30 21	b	4.01	+0.53	+0.55	F8 IV-V
8 β ¹ Sco	5984	16 06 44.9	-19 51 55	db	2.56	-0.07	-0.04	B0.5 V
8 β ² Sco	5985	16 06 45.2	-19 51 42	sd	4.90	-0.02	0.00	B2 V
θ Lup	5987	16 08 04.6	-36 51 42		4.22	-0.18	-0.19	B2.5 Vn
δ Nor	5980	16 08 05.4	-45 13 56		4.73	+0.23	+0.20	A7m
9 ω ¹ Sco	5993	16 08 07.6	-20 43 42	s	3.93	-0.05	+0.01	B1 V
10 ω ² Sco	5997	16 08 43.7	-20 55 40		4.31	+0.83	+0.85	G4 II-III
7 κ Her	6008	16 09 05.5	+16 59 18	d	5.00	+0.93	+0.93	G5 III
11 φ Her	6023	16 09 28.8	+44 52 37	vb	4.23	-0.05	-0.02	B9p Hg Mn
16 τ CrB	6018	16 09 47.7	+36 26 06	db	4.73	+1.02	+1.00	K1 ⁻ III-IV
19 UMi	6079	16 10 12.8	+75 49 12		5.48	-0.09	-0.07	B8 V
14 ν Sco	6027	16 13 18.4	-19 31 03	dbm	4.00	+0.08	+0.14	B2 IVp
κ Nor	6024	16 15 15.9	-54 41 11	d	4.95	+1.02	+0.99	G8 III
1 δ Oph	6056	16 15 31.6	-03 45 02	d	2.73	+1.58	+1.82	M0.5 III
21 η UMi	6116	16 16 52.4	+75 42 09	d	4.95	+0.39	+0.46	F5 V
δ TrA	6030	16 17 30.2	-63 44 26	d	3.86	+1.11	+1.03	G2 Ib-IIa
2 ε Oph	6075	16 19 30.8	-04 44 45	d	3.23	+0.97	+0.96	G9.5 IIIb Fe-0.5
22 τ Her	6092	16 20 25.1	+46 15 39	vd	3.91	-0.15	-0.19	B5 IV

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
	6077	16 20 58.4	-30 57 34	db	5.53	+0.47	+0.54	F6 III
γ^2 Nor	6072	16 21 32.0	-50 12 30	d	4.01	+1.08	+1.03	K1+ III
20 σ Sco	6084	16 22 33.6	-25 38 42	vdbm	2.90	+0.30	+0.31	B1 III
20 γ Her	6095	16 22 54.8	+19 06 06	db	3.74	+0.30	+0.34	A9 IIIbn
50 σ Ser	6093	16 23 12.8	+00 58 40		4.82	+0.34	+0.39	F1 IV-V
δ^1 Aps	6020	16 23 47.1	-78 44 52	d	4.68	+1.68	+2.67	M4 IIIa
14 η Dra	6132	16 24 18.1	+61 27 49	db	2.73	+0.91	+0.84	G8- IIIab
4 ψ Oph	6104	16 25 25.4	-20 05 17		4.48	+1.00	+0.99	K0- II-III
24 ω Her	6117	16 26 27.3	+13 58 59	vd	4.57	0.00	+0.02	B9p Cr
15 Dra	6161	16 27 57.0	+68 43 10		4.94	-0.05	+0.02	B9.5 III
7 χ Oph	6118	16 28 19.9	-18 30 20	b	4.22	+0.22	+0.24	B1.5 Ve
ϵ Nor	6115	16 28 50.5	-47 36 14	db	4.46	-0.07	-0.04	B4 V
21 α Sco	6134	16 30 47.5	-26 28 48	vdbn42	1.06	+1.87	+2.90	M1.5 Iab-Ib
ζ TrA	6098	16 30 54.9	-70 07 54	b	4.90	+0.56	+0.64	F9 V
27 β Her	6148	16 31 11.3	+21 26 31	db	2.78	+0.95	+0.94	G7 IIIa Fe-0.5
10 λ Oph	6149	16 32 03.0	+01 56 11	dbm	3.82	+0.02	+0.03	A1 IV
8 ϕ Oph	6147	16 32 25.8	-16 39 36	d	4.29	+0.92	+0.89	G8+ IIIa
	6143	16 32 51.4	-34 45 05		4.24	-0.17	-0.17	B2 III-IV
9 ω Oph	6153	16 33 28.4	-21 30 46		4.45	+0.13	+0.12	Ap Sr Cr
35 σ Her	6168	16 34 49.8	+42 23 30	db	4.20	-0.01	+0.02	A0 IIIn
γ Aps	6102	16 36 58.4	-78 56 35	b	3.86	+0.92	+0.92	G8/K0 III
23 τ Sco	6165	16 37 17.2	-28 15 39	s	2.82	-0.21	-0.24	B0 V
	6166	16 37 51.6	-35 17 58	b	4.18	+1.54	+1.72	K7 III
13 ζ Oph	6175	16 38 24.0	-10 36 39		2.54	+0.04	+0.10	O9.5 Vn
42 Her	6200	16 39 21.6	+48 53 07	d	4.86	+1.56	+2.03	M3- IIIab
40 ζ Her	6212	16 42 08.1	+31 33 47	dbm	2.81	+0.65	+0.70	G0 IV
	6196	16 42 52.6	-17 47 02		4.91	+1.10	+1.13	G7.5 II-III CN 1 Ba 0.5
44 η Her	6220	16 43 40.1	+38 52 50	d	3.48	+0.92	+0.89	G7 III Fe-1
22 ϵ UMi	6322	16 43 44.7	+81 59 49	vdb	4.21	+0.90	+0.91	G5 III
	6237	16 45 43.6	+56 44 32	db	4.84	+0.38	+0.44	F2 V+
β Aps	6163	16 46 20.6	-77 33 36	d	4.23	+1.06	+1.04	K0 III
α TrA	6217	16 51 04.0	-69 03 56	n43	1.91	+1.45	+1.45	K2 IIb-IIIa
20 Oph	6243	16 51 04.8	-10 49 15	b	4.64	+0.48	+0.55	F7 III
26 ϵ Sco	6241	16 51 37.5	-34 19 55		2.29	+1.14	+1.10	K2 III
η Ara	6229	16 51 44.3	-59 04 44	d	3.77	+1.56	+1.67	K5 III
51 Her	6270	16 52 41.3	+24 37 12		5.03	+1.25	+1.11	K0.5 IIIa Ca 0.5
μ^1 Sco	6247	16 53 23.9	-38 05 02	vb	3.00	-0.20	-0.20	B1.5 IVn
53 Her	6279	16 53 49.3	+31 39 56	d	5.34	+0.32	+0.37	F2 V
μ^2 Sco	6252	16 53 51.8	-38 03 13		3.56	-0.21	-0.21	B2 IV
25 ι Oph	6281	16 55 04.4	+10 07 47	b	4.39	-0.09	-0.13	B8 V
ζ^2 Sco	6271	16 56 10.3	-42 23 51		3.62	+1.39	+1.37	K3.5 IIIb
27 κ Oph	6299	16 58 44.1	+09 20 30	as	3.19	+1.16	+1.10	K2 III
ζ Ara	6285	17 00 29.4	-56 01 23		3.12	+1.55	+1.60	K4 III
58 ϵ Her	6324	17 01 09.1	+30 53 40	db	3.92	-0.02	-0.04	A0 IV+
ϵ^1 Ara	6295	17 01 23.0	-53 11 33		4.06	+1.45	+1.42	K4 IIIab
30 Oph	6318	17 02 14.9	-04 15 17	d	4.82	+1.48	+1.49	K4 III
59 Her	6332	17 02 26.3	+33 32 13		5.27	+0.03	+0.04	A3 IV-Vs
60 Her	6355	17 06 25.4	+12 42 41	d	4.89	+0.13	+0.11	A4 IV
22 ζ Dra	6396	17 08 51.4	+65 41 13	d	3.17	-0.12	-0.14	B6 III
35 η Oph	6378	17 11 40.2	-15 45 03	dbmn44	2.43	+0.06	+0.06	A2 Va+ (Sr)

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H23

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
η Sco	6380	17 13 46.1	-43 15 59		3.32	+0.44	+0.47	F2 V:p (Cr)
64 α^1 Her	6406	17 15 40.5	+14 21 58	vsdm	2.78	+1.16	+1.13	M5 Ib-II
67 π Her	6418	17 15 49.9	+36 47 06		3.16	+1.44	+1.31	K3 II
65 δ Her	6410	17 15 57.4	+24 48 51	db	3.12	+0.08	+0.06	A1 Vann
v656 Her	6452	17 21 18.4	+18 02 08		5.01	+1.65	+1.90	M1+ IIIab
72 Her	6458	17 21 30.2	+32 26 24	d	5.38	+0.62	+0.70	G0 V
53 ν Ser	6446	17 22 05.7	-12 52 04	d	4.32	+0.04	+0.07	A1.5 IV
40 ξ Oph	6445	17 22 21.4	-21 08 06	d	4.39	+0.39	+0.47	F2 V
42 θ Oph	6453	17 23 23.6	-25 01 12	dvb	3.27	-0.19	-0.21	B2 IV
ι Aps	6411	17 24 37.2	-70 08 36	dm	5.39	-0.04	-0.02	B8/9 Vn
23 δ UMi	6789	17 25 04.4	+86 34 11		4.35	+0.02	+0.04	A1 Van
β Ara	6461	17 27 10.5	-55 32 54		2.84	+1.48	+1.50	K3 Ib-IIa
γ Ara	6462	17 27 17.6	-56 23 46	d	3.31	-0.15	-0.12	B1 Ib
49 σ Oph	6498	17 27 37.9	+04 07 21	s	4.34	+1.48	+1.44	K2 II
44 Oph	6486	17 27 44.8	-24 11 38		4.16	+0.28	+0.30	A9m:
	6493	17 27 49.6	-05 06 17	b	4.53	+0.39	+0.46	F2 V
45 Oph	6492	17 28 47.6	-29 53 07		4.28	+0.40	+0.45	δ Del
23 β Dra	6536	17 30 56.5	+52 17 08	sd	2.79	+0.95	+0.93	G2 Ib-IIa
76 λ Her	6526	17 31 38.9	+26 05 42		4.41	+1.43	+1.39	K3.5 III
27 Dra	6566	17 31 52.7	+68 07 14	db	5.07	+1.08	+1.04	G9 IIIb
34 ν Sco	6508	17 32 17.7	-37 18 41	b	2.70	-0.18	-0.23	B2 IV
24 ν^1 Dra	6554	17 32 37.2	+55 10 10	b	4.89	+0.25	+0.28	A7m
25 ν^2 Dra	6555	17 32 42.7	+55 09 30	db	4.86	+0.28	+0.30	A7m
δ Ara	6500	17 33 08.1	-60 41 59	d	3.60	-0.10	-0.10	B8 Vn
α Ara	6510	17 33 35.0	-49 53 29	db	2.84	-0.14	-0.15	B2 Vne
35 λ Sco	6527	17 35 08.3	-37 07 05	vdbn45	1.62	-0.23	-0.24	B1.5 IV
55 α Oph	6556	17 35 58.8	+12 32 43	bn46	2.08	+0.16	+0.17	A5 Vnn
28 ω Dra	6596	17 36 49.4	+68 44 51	db	4.77	+0.43	+0.49	F4 V
	6546	17 38 05.9	-38 38 56		4.26	+1.08	+1.09	G8/K0 III/IV
55 ξ Ser	6561	17 38 52.6	-15 24 39	db	3.54	+0.26	+0.29	F0 IIIb
θ Sco	6553	17 38 56.2	-43 00 35	m	1.86	+0.41	+0.48	F1 III
85 ι Her	6588	17 40 06.1	+45 59 43	svdb	3.82	-0.18	-0.21	B3 IV
31 ψ Dra	6636	17 41 32.7	+72 08 14	d	4.57	+0.43	+0.50	F5 V
56 o Ser	6581	17 42 40.8	-12 53 08	b	4.24	+0.09	+0.10	A2 Va
κ Sco	6580	17 44 02.8	-39 02 21	vb	2.39	-0.17	-0.22	B1.5 III
84 Her	6608	17 44 17.0	+24 19 10	s	5.73	+0.68	+0.74	G2 IIIb
60 β Oph	6603	17 44 35.1	+04 33 34		2.76	+1.17	+1.10	K2 III CN 0.5
58 Oph	6595	17 44 46.8	-21 41 32		4.86	+0.47	+0.54	F7 V:
μ Ara	6585	17 45 56.0	-51 50 36		5.12	+0.69	+0.71	G5 V
86 μ Her	6623	17 47 20.5	+27 42 32	asd	3.42	+0.75	+0.71	G5 IV
η Pav	6582	17 47 56.7	-64 43 53		3.61	+1.16	+1.09	K1 IIIa CN 1
35 Dra	6701	17 48 26.8	+76 57 30		5.02	+0.52	+0.59	F7 IV
3 X Sgr	6616	17 48 58.7	-27 50 14	v	4.53	+0.60	+0.76	F3 II
62 γ Oph	6629	17 49 01.3	+02 42 02	b	3.75	+0.04	+0.05	A0 Van
ι^1 Sco	6615	17 49 09.6	-40 08 00	sdb	2.99	+0.51	+0.64	F2 Ia
	6630	17 51 23.4	-37 02 54	d	3.19	+1.19	+1.15	K2 III
32 ξ Dra	6688	17 53 55.1	+56 52 11	d	3.73	+1.18	+1.11	K2 III
89 v441 Her	6685	17 56 19.7	+26 02 52	svb	5.47	+0.34	+0.41	F2 Ibp
91 θ Her	6695	17 57 01.5	+37 14 56		3.86	+1.35	+1.17	K1 IIa CN 2
33 γ Dra	6705	17 57 07.8	+51 29 13	asdn47	2.24	+1.52	+1.54	K5 III

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
92 ξ Her	6703	17 58 38.4	+29 14 48	v	3.70	+0.94	+0.89	G8.5 III
94 υ Her	6707	17 59 21.8	+30 11 19	dm	4.41	+0.38	+0.51	F2m
64 υ Oph	6698	18 00 15.9	-09 46 28		3.32	+0.99	+0.95	G9 IIIa
93 Her	6713	18 01 03.5	+16 45 04		4.67	+1.25	+1.12	K0.5 IIb
67 Oph	6714	18 01 46.4	+02 55 56	sd	3.93	+0.03	+0.10	B5 Ib
68 Oph	6723	18 02 53.7	+01 18 23	dbm	4.42	+0.05	+0.06	A0.5 Van
W Sgr	6742	18 06 27.5	-29 34 37	vdb	4.66	+0.77	+0.81	G0 Ib/II
70 Oph	6752	18 06 35.4	+02 29 51	dvbm	4.03	+0.86	+0.96	K0 ⁻ V
10 γ Sgr	6746	18 07 15.2	-30 25 18	b	2.98	+0.98	+0.99	K0 ⁺ III
	6791	18 08 09.5	+43 27 57	sb	5.00	+0.91	+0.91	G8 III CN-1 CH-3
θ Ara	6743	18 08 23.0	-50 05 15		3.65	-0.10	-0.06	B2 Ib
72 Oph	6771	18 08 25.0	+09 34 07	db	3.71	+0.16	+0.18	A5 IV-V
103 ο Her	6779	18 08 25.2	+28 46 01	db	3.84	-0.02	-0.02	A0 II-III
102 Her	6787	18 09 43.3	+20 49 10	d	4.37	-0.16	-0.19	B2 IV
π Pav	6745	18 10 44.7	-63 39 52	b	4.33	+0.23	+0.23	A7p Sr
ε Tel	6783	18 12 53.9	-45 56 53	d	4.52	+1.01	+0.95	K0 III
36 Dra	6850	18 14 01.6	+64 24 19	d	4.99	+0.44	+0.51	F5 V
13 μ Sgr	6812	18 15 06.5	-21 03 03	db	3.84	+0.20	+0.21	B9 Ia
	6819	18 19 01.2	-56 00 49	b	5.36	-0.05	-0.01	B3 IIIpe
η Sgr	6832	18 19 09.0	-36 45 10	d	3.10	+1.58	+2.24	M3.5 IIIab
43 φ Dra	6920	18 20 25.9	+71 20 57	vdbm	4.22	-0.09	-0.11	A0p Si
44 χ Dra	6927	18 20 38.9	+72 44 31	db	3.55	+0.49	+0.62	F7 V
1 κ Lyr	6872	18 20 39.1	+36 04 33		4.33	+1.16	+1.10	K2 ⁻ IIIab CN 0.5
74 Oph	6866	18 21 59.5	+03 23 20	d	4.85	+0.91	+0.90	G8 III
19 δ Sgr	6859	18 22 26.0	-29 48 59	d	2.72	+1.38	+1.35	K2.5 IIIa CN 0.5
58 η Ser	6869	18 22 28.5	-02 53 29	d	3.23	+0.94	+0.96	K0 III-IV
109 Her	6895	18 24 39.5	+21 46 53	sd	3.85	+1.17	+1.13	K2 IIIab
ξ Pav	6855	18 25 17.8	-61 28 50	db	4.35	+1.46	+1.50	K4 III
20 ε Sgr	6879	18 25 39.9	-34 22 18	dn48	1.79	-0.03	+0.01	A0 II ⁻ n (shell)
α Tel	6897	18 28 38.4	-45 57 13		3.49	-0.18	-0.18	B3 IV
22 λ Sgr	6913	18 29 21.5	-25 24 26		2.82	+1.03	+1.04	K1 IIIb
γ Sct	6930	18 30 28.8	-14 32 58		4.67	+0.08	+0.10	A2 III ⁻
ζ Tel	6905	18 30 33.7	-49 03 21		4.10	+1.00	+1.02	G8/K0 III
60 Ser	6935	18 30 51.2	-01 58 08	b	5.38	+0.96	+0.95	K0 III
θ Cra	6951	18 35 06.5	-42 17 38		4.62	+0.99	+0.95	G8 III
α Sct	6973	18 36 25.9	-08 13 36		3.85	+1.32	+1.28	K3 III
	6985	18 37 32.2	+09 08 30	b	5.38	+0.39	+0.45	F5 IIIs
3 α Lyr	7001	18 37 42.1	+38 48 21	asdn49	0.03	0.00	-0.01	A0 Va
δ Sct	7020	18 43 30.3	-09 01 45	vdb	4.70	+0.36	+0.40	F2 III (str. met.)
ε Sct	7032	18 44 44.8	-08 15 04	d	4.88	+1.11	+1.07	G8 IIb
6 ζ ¹ Lyr	7056	18 45 32.9	+37 37 47	db	4.34	+0.19	+0.18	A5m
50 Dra	7124	18 45 37.9	+75 27 34	b	5.37	+0.05	+0.06	A1 Vn
ζ Pav	6982	18 45 39.1	-71 24 18	d	4.01	+1.13	+1.14	K0 III
110 Her	7061	18 46 37.9	+20 34 09	d	4.19	+0.48	+0.55	F6 V
	7064	18 46 58.9	+26 41 15		4.83	+1.20	+1.16	K2 III
27 φ Sgr	7039	18 47 03.7	-26 57 56	b	3.17	-0.11	-0.10	B8 III
111 Her	7069	18 48 00.9	+18 12 29	db	4.34	+0.15	+0.16	A3 Va ⁺
β Sct	7063	18 48 22.1	-04 43 19	b	4.22	+1.09	+1.09	G4 IIa
R Sct	7066	18 48 41.0	-05 40 45	vs	5.38	+1.28	+1.42	K0 Ib;p Ca-1
η ¹ CrA	7062	18 50 27.7	-43 39 12		5.46	+0.13	+0.15	A2 Vn

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H25

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
10 β Lyr	7106	18 50 54.7	+33 23 24	cvdb	3.52	0.00	+0.02	B7 Vpe (shell)
47 σ Dra	7125	18 51 32.0	+59 24 59	dvb	4.63	+1.19	+1.20	G9 III Fe-0.5
52 ν Dra	7180	18 54 06.9	+71 19 37	b	4.82	+1.15	+1.10	K0 III CN 0.5
λ Pav	7074	18 54 17.6	-62 09 32	d	4.22	-0.15	-0.14	B2 II-III
12 δ^2 Lyr	7139	18 55 17.5	+36 55 42	d	4.22	+1.58	+2.60	M4 II
13 R Lyr	7157	18 56 01.2	+43 58 36	vsb	4.08	+1.40	+3.14	M5 III (var)
34 σ Sgr	7121	18 56 39.5	-26 16 00	dn50	2.05	-0.13	-0.13	B3 IV
63 θ^1 Ser	7141	18 57 20.3	+04 14 04	d	4.62	+0.16	+0.20	A5 V
37 ξ^2 Sgr	7150	18 59 04.3	-21 04 31		3.52	+1.15	+1.09	K1 III
κ Pav	7107	18 59 15.5	-67 12 07	v	4.40	+0.53	+0.59	F5 I-II
14 γ Lyr	7178	18 59 47.1	+32 43 18	d	3.25	-0.05	-0.03	B9 II
λ Tel	7134	19 00 15.4	-52 54 24	b	4.85	-0.05	-0.03	A0 III+
13 ϵ Aql	7176	19 00 38.6	+15 06 01	db	4.02	+1.08	+1.00	K1- III CN 0.5
12 Aql	7193	19 02 52.9	-05 42 21		4.02	+1.08	+1.08	K1 III
38 ζ Sgr	7194	19 04 02.5	-29 50 45	dbm	2.60	+0.06	+0.06	A2 IV-V
39 σ Sgr	7217	19 06 01.8	-21 42 24	d	3.76	+1.01	+0.98	G9 IIIb
17 ζ Aql	7235	19 06 26.7	+13 53 54	db	2.99	+0.01	-0.01	A0 Vann
χ Oct	6721	19 07 24.1	-87 34 25		5.29	+1.30	+1.26	K3 III
16 λ Aql	7236	19 07 26.5	-04 50 50		3.43	-0.10	-0.09	A0 IVp (wk 4481)
18 ι Lyr	7262	19 08 06.3	+36 08 12	d	5.25	-0.11	-0.09	B6 IV
40 τ Sgr	7234	19 08 20.6	-27 38 08	b	3.32	+1.17	+1.15	K1.5 IIIb
α CrA	7254	19 11 00.0	-37 52 02		4.11	+0.04	+0.03	A2 IVn
41 π Sgr	7264	19 11 06.0	-20 59 09	d	2.88	+0.38	+0.44	F2 II-III
β CrA	7259	19 11 34.4	-39 18 11		4.10	+1.16	+1.11	K0 II
57 δ Dra	7310	19 12 33.3	+67 42 04	d	3.07	+0.99	+0.94	G9 III
20 Aql	7279	19 13 53.9	-07 54 01		5.35	+0.09	+0.11	B3 V
20 η Lyr	7298	19 14 31.5	+39 11 09	db	4.43	-0.15	-0.19	B2.5 IV
60 τ Dra	7352	19 15 06.3	+73 23 48	b	4.45	+1.26	+1.15	K2+ IIIb CN 1
21 θ Lyr	7314	19 17 09.0	+38 10 30	d	4.35	+1.26	+1.13	K0 II
1 κ Cyg	7328	19 17 37.3	+53 24 39	b	3.80	+0.95	+0.85	G9 III
25 ω^1 Aql	7315	19 18 52.4	+11 38 15		5.28	+0.20	+0.21	F0 IV
43 Sgr	7304	19 18 57.0	-18 54 40		4.88	+1.01	+0.99	G8 II-III
44 ρ^1 Sgr	7340	19 22 58.6	-17 48 11		3.92	+0.23	+0.25	F0 III-IV
46 ν Sgr	7342	19 23 00.8	-15 54 40	b	4.52	+0.08	+0.34	Apep
β^1 Sgr	7337	19 24 15.0	-44 24 52	d	3.96	-0.09	-0.07	B8 V
β^2 Sgr	7343	19 24 50.4	-44 45 19		4.27	+0.35	+0.42	F0 IV
α Sgr	7348	19 25 26.5	-40 34 17	b	3.96	-0.11	-0.10	B8 V
31 Aql	7373	19 26 02.6	+11 59 39	d	5.17	+0.76	+0.75	G7 IV H δ 1
30 δ Aql	7377	19 26 37.9	+03 09 40	db	3.36	+0.32	+0.38	F2 IV-V
6 α Vul	7405	19 29 38.5	+24 42 42	d	4.44	+1.50	+1.68	M0.5 IIIb
10 ι^2 Cyg	7420	19 30 16.4	+51 46 43		3.76	+0.15	+0.18	A4 V
6 β Cyg	7417	19 31 37.7	+28 00 29	cdm	3.05	+1.09	+1.05	K3 II + B9.5 V
36 Aql	7414	19 31 50.4	-02 44 25		5.03	+1.77	+2.29	M1 IIIab
61 σ Dra	7462	19 32 18.7	+69 41 58	asd	4.67	+0.79	+0.85	K0 V
8 Cyg	7426	19 32 36.5	+34 30 07		4.74	-0.15	-0.12	B3 IV
38 μ Aql	7429	19 35 11.3	+07 25 42	d	4.45	+1.18	+1.14	K3- IIIb Fe 0.5
ι Tel	7424	19 36 52.7	-48 02 54		4.88	+1.10	+1.06	K0 III
13 θ Cyg	7469	19 37 02.7	+50 16 27	d	4.49	+0.40	+0.44	F4 V
41 ι Aql	7447	19 37 53.1	-01 14 06	d	4.36	-0.08	-0.06	B5 III
52 Sgr	7440	19 38 04.4	-24 49 56	d	4.59	-0.08	-0.06	B8/9 V

Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type	
		h m s	° ' "						
39 κ Aql	7446	19 38 06.0	-06 58 33		4.93	-0.05	+0.03	B0.5 IIIIn	
5 α Sge	7479	19 41 06.1	+18 04 01	d	4.39	+0.78	+0.77	G1 II	
	7495	19 41 31.8	+45 34 45	sd	5.06	+0.43	+0.49	F5 II-III	
54 Sgr	7476	19 42 00.6	-16 14 24	d	5.30	+1.11	+1.14	K2 III	
6 β Sge	7488	19 42 03.6	+17 31 46		4.39	+1.04	+0.96	G8 IIIa CN 0.5	
16 Cyg	7503	19 42 24.8	+50 34 41	sd	5.99	+0.64	+0.61	G1.5 Vb	
16 Cyg	7504	19 42 27.9	+50 34 14	s	6.25	+0.66	+0.61	G3 V	
55 Sgr	7489	19 43 48.2	-16 04 10	b	5.06	+0.32	+0.37	F0 IVn:	
10 Vul	7506	19 44 39.1	+25 49 37		5.50	+0.94	+0.93	G8 III	
15 Cyg	7517	19 45 05.3	+37 24 35		4.89	+0.95	+0.94	G8 III	
18 δ Cyg	7528	19 45 40.7	+45 11 12	dbm	2.86	0.00	-0.02	B9.5 III	
50 γ Aql	7525	19 47 19.7	+10 40 10	d	2.72	+1.51	+1.44	K3 II	
56 Sgr	7515	19 47 40.4	-19 42 19		4.87	+1.06	+1.03	K0 ⁺ III	
63 ϵ Dra	7582	19 48 05.1	+70 19 30	dbm	3.84	+0.89	+0.88	G7 IIIb Fe-1	
7 δ Sge	7536	19 48 23.4	+18 35 28	cdm	3.68	+1.31	+1.27	M2 II + A0 V	
	ν Tel	7510	19 49 50.8	-56 18 22		5.33	+0.20	+0.21	A9 Vn
	χ Cyg	7564	19 51 25.8	+32 58 20	vd	7.91	+2.10	+6.13	S6+/1e
53 α Aql	7557	19 51 52.8	+08 55 45	dvN51	0.76	+0.22	+0.27	A7 Vnn	
51 Aql	7553	19 52 01.0	-10 42 17	d	5.38	+0.40	+0.47	F0 V	
		7589	19 52 39.8	+47 05 11	s	5.60	-0.08	0.00	O9.5 Iab
v3961 Sgr	7552	19 53 21.9	-39 48 55	svb	5.32	-0.05	-0.02	A0p Si Cr Eu	
9 Sge	7574	19 53 22.0	+18 43 52	sb	6.24	-0.03	-0.01	O8 If	
55 η Aql	7570	19 53 37.1	+01 03 54	vb	3.87	+0.63	+0.73	F6-G1 Ib	
v1291 Aql	7575	19 54 29.4	-03 03 17	s	5.63	+0.23	+0.26	A5p Sr Cr Eu	
60 β Aql	7602	19 56 25.1	+06 27 52	ad	3.71	+0.86	+0.89	G8 IV	
	ι Sgr	7581	19 56 48.5	-41 48 26		4.12	+1.06	+1.09	G8 III
21 η Cyg	7615	19 57 09.0	+35 08 40	d	3.89	+1.02	+0.98	K0 III	
61 Sgr	7614	19 59 13.5	-15 25 48		5.01	+0.06	+0.05	A3 Va	
12 γ Sge	7635	19 59 45.5	+19 33 16	s	3.51	+1.57	+1.65	M0 ⁻ III	
θ^1 Sgr	7623	20 01 11.8	-35 12 49	db	4.37	-0.15	-0.15	B2.5 IV	
15 NT Vul	7653	20 02 01.7	+27 49 01	b	4.66	+0.18	+0.19	A7m	
ϵ Pav	7590	20 03 09.3	-72 50 52		3.97	-0.03	-0.04	A0 Va	
62 v3872 Sgr	7650	20 04 02.3	-27 38 44		4.43	+1.64	+2.50	M4.5 III	
1 κ Cep	7750	20 08 05.4	+77 46 41	dm	4.38	-0.05	-0.06	B9 III	
ξ Tel	7673	20 09 05.9	-52 48 51	b	4.93	+1.59	+1.83	M1 IIab	
28 v1624 Cyg	7708	20 10 15.8	+36 54 25	b	4.93	-0.14	-0.13	B2.5 V	
δ Pav	7665	20 10 54.7	-66 07 19		3.55	+0.75	+0.76	G6/8 IV	
65 θ Aql	7710	20 12 27.9	-00 45 12	db	3.24	-0.07	-0.06	B9.5 III ⁺	
33 Cyg	7740	20 13 55.2	+56 38 14	b	4.28	+0.11	+0.14	A3 IVn	
31 σ^1 Cyg	7735	20 14 20.4	+46 48 38	cvdb	3.80	+1.27	+1.15	K2 II + B4 V	
67 ρ Aql	7724	20 15 19.1	+15 16 03	b	4.94	+0.07	+0.09	A1 Va	
32 σ^2 Cyg	7751	20 16 10.1	+47 47 03	cvdb	3.96	+1.45	+1.45	K3 II + B9: V	
24 Vul	7753	20 17 44.9	+24 44 30		5.30	+0.95	+0.94	G8 III	
34 P Cyg	7763	20 18 37.0	+38 06 14	vs	4.77	+0.38	+0.44	B1pe	
5 α^1 Cap	7747	20 18 53.6	-12 26 14	dbm	4.30	+0.93	+1.05	G3 Ib	
6 α^2 Cap	7754	20 19 18.0	-12 28 25	db	3.58	+0.88	+0.92	G9 III	
9 β Cap	7776	20 22 16.4	-14 42 31	cdb	3.05	+0.79	+0.90	K0 II: + A5n: V:	
37 γ Cyg	7796	20 23 02.2	+40 19 47	asd	2.23	+0.67	+0.65	F8 Ib	
		7794	20 24 17.5	+05 24 59		5.30	+0.98	+0.96	G8 III-IV
39 Cyg	7806	20 24 45.6	+32 15 50	s	4.43	+1.33	+1.31	K2.5 III Fe-0.5	

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Designation	BS=HR No.	Right		Declination	Notes	V	B-V	V-I	Spectral Type
		Ascension	Ascension						
		h	m	s	°	'	"		
α Pav	7790	20 27 24.8	-56 39 39	dbn52	1.94	-0.12	-0.10	B2.5 V	
2 θ Cep	7850	20 29 57.3	+63 04 13	b	4.21	+0.20	+0.20	A7m	
41 Cyg	7834	20 30 18.9	+30 26 41		4.01	+0.40	+0.46	F5 II	
69 Aql	7831	20 30 49.5	-02 48 34		4.91	+1.16	+1.12	K2 III	
73 AF Dra	7879	20 31 11.1	+75 01 53	b	5.18	+0.10	+0.11	A0p Sr Cr Eu	
2 ϵ Del	7852	20 34 17.3	+11 22 51		4.03	-0.12	-0.10	B6 III	
6 β Del	7882	20 38 36.3	+14 40 28	dbm	3.64	+0.43	+0.50	F5 IV	
α Ind	7869	20 39 08.4	-47 12 41	d	3.11	+1.00	+0.98	K0 III CN-1	
71 Aql	7884	20 39 29.9	-01 01 31	db	4.31	+0.95	+0.91	G7.5 IIIa	
29 Vul	7891	20 39 31.7	+21 16 53		4.81	-0.03	-0.01	A0 Va (shell)	
7 κ Del	7896	20 40 13.3	+10 10 00	d	5.07	+0.70	+0.75	G2 IV	
9 α Del	7906	20 40 41.0	+15 59 34	dbm	3.77	-0.06	-0.01	B9 IV	
15 ν Cap	7900	20 41 19.6	-18 03 29		5.15	+1.65	+2.02	M1 III	
49 Cyg	7921	20 41 57.2	+32 23 18	sdbm	5.53	+0.87	+0.88	G8 IIb	
50 α Cyg	7924	20 42 12.0	+45 21 42	asdbn53	1.25	+0.09	+0.16	A2 Ia	
11 δ Del	7928	20 44 30.6	+15 09 23	vb	4.43	+0.30	+0.34	F0m	
η Ind	7920	20 45 40.7	-51 50 20		4.51	+0.28	+0.30	A9 IV	
3 η Cep	7957	20 45 44.6	+61 55 36	d	3.41	+0.91	+0.94	K0 IV	
	7955	20 45 54.6	+57 39 40	db	4.52	+0.54	+0.58	F8 IV-V	
52 Cyg	7942	20 46 35.5	+30 48 10	d	4.22	+1.05	+1.01	K0 IIIa	
β Pav	7913	20 46 57.5	-66 07 13		3.42	+0.16	+0.20	A6 IV-	
53 ϵ Cyg	7949	20 47 07.4	+34 03 20	adb	2.48	+1.02	+1.00	K0 III	
16 ψ Cap	7936	20 47 25.4	-25 11 19		4.13	+0.43	+0.49	F4 V	
12 γ^2 Del	7948	20 47 42.2	+16 12 24	dm	4.27	+1.04	+1.03	K1 IV	
54 λ Cyg	7963	20 48 17.2	+36 34 28	dbm	4.53	-0.08	-0.12	B6 IV	
2 ϵ Aqr	7950	20 48 53.5	-09 24 43		3.78	0.00	-0.01	A1 III-	
3 EN Aqr	7951	20 48 55.4	-04 56 38		4.43	+1.64	+2.21	M3 III	
55 v1661 Cyg	7977	20 49 42.3	+46 11 54	sd	4.81	+0.57	+0.59	B2.5 Ia	
ι Mic	7943	20 50 00.1	-43 54 18	d	5.11	+0.36	+0.42	F1 IV	
18 ω Cap	7980	20 53 09.6	-26 50 01		4.12	+1.63	+1.76	M0 III Ba 0.5	
6 μ Aqr	7990	20 53 51.9	-08 53 51	db	4.73	+0.33	+0.36	F2m	
32 Vul	8008	20 55 31.2	+28 08 39		5.03	+1.48	+1.50	K4 III	
β Ind	7986	20 56 33.1	-58 22 03	d	3.67	+1.25	+1.11	K1 II	
	8023	20 57 22.5	+45 00 44	sb	5.96	+0.02	+0.04	O6 V	
58 ν Cyg	8028	20 58 00.8	+41 15 17	dbm	3.94	+0.03	+0.01	A0.5 III _n	
33 Vul	8032	20 59 16.7	+22 24 50		5.30	+1.42	+1.40	K3.5 III	
59 v832 Cyg	8047	21 00 35.5	+47 36 35	dbm	4.74	-0.08	-0.06	B1.5 V _{nne}	
20 AO Cap	8033	21 00 52.6	-18 56 48	sv	6.26	-0.11	-0.09	B9psi	
γ Mic	8039	21 02 39.9	-32 10 06	d	4.67	+0.89	+0.90	G8 III	
ζ Mic	8048	21 04 23.8	-38 32 32		5.32	+0.42	+0.49	F3 V	
62 ξ Cyg	8079	21 05 45.0	+44 01 06	sb	3.72	+1.61	+1.63	K4.5 Ib-II	
23 θ Cap	8075	21 07 12.5	-17 08 32	b	4.08	-0.01	0.00	A1 Va ⁺	
α Oct	8021	21 07 21.8	-76 56 07	cvb	5.13	+0.49	+0.66	G2 III + A7 III	
61 v1803 Cyg	8085	21 07 54.6	+38 51 40	asd	5.20	+1.07	+1.13	K5 V	
61 Cyg	8086	21 07 55.8	+38 51 11	sd	6.05	+1.31	+1.27	K7 V	
24 Cap	8080	21 08 26.4	-24 54 53	d	4.49	+1.60	+1.81	M1- III	
13 ν Aqr	8093	21 10 49.0	-11 16 46		4.50	+0.93	+0.92	G8 ⁺ III	
5 γ Equ	8097	21 11 26.1	+10 13 24	dm	4.70	+0.26	+0.26	F0p Sr Eu	
64 ζ Cyg	8115	21 13 53.7	+30 19 12	sdb	3.21	+0.99	+0.97	G8 ⁺ III-IIIa Ba 0.5	
	8110	21 14 37.1	-27 31 34		5.41	+1.43	+1.41	K5 III	

Designation	BS=HR No.	Right Ascension			Declination	Notes	V	B-V	V-I	Spectral Type
		h	m	s						
<i>o</i> Pav	8092	21	15	24.7	-70 01 57	b	5.06	+1.58	+2.03	M1/2 III
7 <i>δ</i> Equ	8123	21	15	34.6	+10 05 57	dbm	4.47	+0.53	+0.57	F8 V
65 <i>τ</i> Cyg	8130	21	15	41.5	+38 08 32	dbm	3.74	+0.39	+0.46	F2 V
8 <i>α</i> Equ	8131	21	16	56.9	+05 20 31	cdb	3.92	+0.55	+0.62	G2 II-III + A4 V
67 <i>σ</i> Cyg	8143	21	18	18.1	+39 29 23	b	4.22	+0.10	+0.25	B9 Iab
66 <i>ν</i> Cyg	8146	21	18	50.7	+34 59 32	db	4.41	-0.10	-0.09	B2 Ve
5 <i>α</i> Cep	8162	21	19	06.9	+62 40 53	d	2.45	+0.26	+0.26	A7 V+n
<i>ε</i> Mic	8135	21	19	17.8	-32 04 38		4.71	+0.07	+0.09	A1m A2 Va+
<i>θ</i> Ind	8140	21	21	27.4	-53 21 13	dm	4.39	+0.19	+0.21	A5 IV-V
<i>θ</i> ¹ Mic	8151	21	22	11.5	-40 42 46	dvm	4.80	+0.03	+0.07	Ap Cr Eu
1 Peg	8173	21	23	07.7	+19 54 06	db	4.08	+1.11	+1.05	K1 III
32 <i>ι</i> Cap	8167	21	23	29.8	-16 44 15		4.28	+0.89	+0.89	G7 III Fe-1.5
18 Aqr	8187	21	25	25.1	-12 46 50	d	5.48	+0.30	+0.34	F0 V+
69 Cyg	8209	21	26	42.3	+36 45 56	sd	5.93	+0.03	-0.12	B0 Ib
<i>σ</i> Oct	7228	21	27	03.7	-88 51 40	vn59	5.45	+0.28	+0.32	F0 III
34 <i>ζ</i> Cap	8204	21	27	56.9	-22 18 46	db	3.77	+1.00	+0.88	G4 Ib: Ba 2
<i>γ</i> Pav	8181	21	28	16.5	-65 15 46		4.21	+0.49	+0.61	F6 Vp
8 <i>β</i> Cep	8238	21	28	56.5	+70 39 35	vdb	3.23	-0.20	-0.25	B1 III
36 Cap	8213	21	30	00.1	-21 42 29		4.50	+0.89	+0.89	G7 IIIb Fe-1
71 Cyg	8228	21	30	16.9	+46 38 26		5.22	+0.97	+0.95	K0- III
2 Peg	8225	21	30	58.1	+23 44 18	d	4.52	+1.62	+1.82	M1+ III
22 <i>β</i> Aqr	8232	21	32	44.5	-05 28 16	asd	2.90	+0.83	+0.82	G0 Ib
73 <i>ρ</i> Cyg	8252	21	34	49.7	+45 41 31		3.98	+0.89	+0.94	G8 III Fe-0.5
74 Cyg	8266	21	37	51.2	+40 30 55		5.04	+0.20	+0.22	A5 V
9 v337 Cep	8279	21	38	31.4	+62 11 02	as	4.76	+0.25	+0.38	B2 Ib
5 Peg	8267	21	38	48.6	+19 25 15		5.46	+0.32	+0.37	F0 V+
23 <i>ξ</i> Aqr	8264	21	38	56.9	-07 45 08	db	4.68	+0.18	+0.19	A5 Vn
75 Cyg	8284	21	41	04.2	+43 22 36	sd	5.09	+1.60	+1.92	M1 IIIab
40 <i>γ</i> Cap	8278	21	41	20.1	-16 33 35	b	3.69	+0.32	+0.32	A7m:
11 Cep	8317	21	42	14.6	+71 24 55		4.55	+1.11	+1.07	K0.5 III
<i>ν</i> Oct	8254	21	43	53.7	-77 17 17	b	3.73	+1.01	+0.98	K0 III
<i>μ</i> Cep	8316	21	44	11.8	+58 53 02	vasd	4.23	+2.24	+3.57	M2- Ia
8 <i>ε</i> Peg	8308	21	45	17.5	+09 58 45	sdn54	2.38	+1.52	+1.42	K2 Ib-II
9 Peg	8313	21	45	34.7	+17 27 15	as	4.34	+1.16	+1.05	G5 Ib
10 <i>κ</i> Peg	8315	21	45	40.0	+25 44 58	dbm	4.14	+0.43	+0.48	F5 IV
10 <i>ν</i> Cep	8334	21	46	05.9	+61 13 31		4.25	+0.47	+0.73	A2 Ia
9 <i>ι</i> PsA	8305	21	46	16.8	-32 55 19	db	4.35	-0.05	-0.05	A0 IV
81 <i>π</i> ² Cyg	8335	21	47	37.6	+49 24 52	dbm	4.23	-0.12	-0.13	B2.5 III
49 <i>δ</i> Cap	8322	21	48	16.8	-16 01 27	vdb	2.85	+0.18	+0.35	F2m
14 Peg	8343	21	50	50.5	+30 16 47	b	5.07	+0.01	+0.03	A1 Vs
<i>o</i> Ind	8333	21	52	39.1	-69 31 24		5.52	+1.38	+1.35	K2/3 III
16 Peg	8356	21	54	05.3	+26 01 55	b	5.09	-0.16	-0.15	B3 V
51 <i>μ</i> Cap	8351	21	54	31.2	-13 26 42		5.08	+0.38	+0.43	F2 V
<i>γ</i> Gru	8353	21	55	17.0	-37 15 29		3.00	-0.08	-0.10	B8 IV-Vs
13 Cep	8371	21	55	38.7	+56 43 06	s	5.74	+0.66	+1.00	B8 Ib
<i>δ</i> Ind	8368	21	59	26.0	-54 53 04	dm	4.40	+0.30	+0.35	F0 III-IVn
17 <i>ξ</i> Cep	8417	22	04	26.6	+64 44 17	dbm	4.26	+0.38	+0.44	A7m:
<i>ε</i> Ind	8387	22	05	03.9	-56 41 32		4.69	+1.06	+1.15	K4/5 V
20 Cep	8426	22	05	41.6	+62 53 45		5.27	+1.41	+1.39	K4 III
19 Cep	8428	22	05	50.5	+62 23 23	sd	5.07	+0.24	+0.15	O9.5 Ib

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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
34 α Aqr	8414	22 06 56.3	-00 12 35	sd	2.95	+0.97	+0.92	G2 Ib
λ Gru	8411	22 07 27.8	-39 26 02		4.47	+1.35	+1.31	K3 III
33 ι Aqr	8418	22 07 39.0	-13 45 35	b	4.29	-0.08	-0.06	B9 IV-V
24 ι Peg	8430	22 08 03.6	+25 27 21	db	3.77	+0.44	+0.51	F5 V
α Gru	8425	22 09 38.4	-46 51 04	dn55	1.73	-0.07	-0.05	B7 Vn
14 μ PsA	8431	22 09 41.4	-32 52 40		4.50	+0.05	+0.06	A1 IVnn
24 Cep	8468	22 10 14.0	+72 27 08		4.79	+0.92	+0.91	G7 II-III
	8546	22 10 57.5	+86 13 11	b	5.27	-0.03	-0.01	B9.5 Vn
29 π Peg	8454	22 10 59.4	+33 17 22		4.28	+0.47	+0.52	F3 III
26 θ Peg	8450	22 11 20.1	+06 18 34	b	3.52	+0.09	+0.09	A2m A1 IV-V
21 ζ Cep	8465	22 11 38.3	+58 18 46	b	3.39	+1.56	+1.58	K1.5 Ib
22 λ Cep	8469	22 12 16.6	+59 31 34	s	5.05	+0.19	+0.21	O6 If
	8485	22 14 50.9	+39 49 38	dbm	4.50	+1.39	+1.36	K2.5 III
16 λ PsA	8478	22 15 35.0	-27 39 16		5.45	-0.12	-0.11	B8 III
23 ϵ Cep	8494	22 15 52.2	+57 09 23	db	4.18	+0.28	+0.33	A9 IV
1 Lac	8498	22 16 57.2	+37 51 41		4.14	+1.45	+1.33	K3 ⁻ II-III
43 θ Aqr	8499	22 18 01.2	-07 40 14		4.17	+0.98	+0.95	G9 III
α Tuc	8502	22 20 01.4	-60 08 47	b	2.87	+1.39	+1.37	K3 III
ϵ Oct	8481	22 22 25.5	-80 19 34		5.09	+1.28	+3.21	M6 III
31 IN Peg	8520	22 22 37.6	+12 19 09		4.82	-0.13	-0.16	B2 IV-V
48 γ Aqr	8518	22 22 49.0	-01 16 24	db	3.86	-0.06	-0.06	B9.5 III-IV
47 Aqr	8516	22 22 49.6	-21 29 05		5.12	+1.06	+1.02	K0 III
3 β Lac	8538	22 24 27.0	+52 20 32	d	4.42	+1.02	+1.03	G9 IIIb Ca 1
52 π Aqr	8539	22 26 25.5	+01 29 32		4.80	-0.17	-0.18	B1 Ve
δ Tuc	8540	22 28 54.4	-64 51 03	dm	4.51	-0.03	-0.01	B9.5 IVn
ν Gru	8552	22 29 57.9	-39 01 02	d	5.47	+0.96	+1.01	G8 III
55 ζ^2 Aqr	8559	22 29 59.4	+00 05 45	cdm	3.65	+0.41	+0.50	F2.5 IV-V
27 δ Cep	8571	22 30 00.7	+58 31 51	vdb	4.07	+0.78	+0.81	F5-G2 Ib
29 ρ^2 Cep	8591	22 30 03.6	+78 56 24	b	5.45	+0.09	+0.11	A3 V
5 Lac	8572	22 30 28.3	+47 49 21	cdb	4.34	+1.68	+1.90	M0 II + B8 V
δ^1 Gru	8556	22 30 36.3	-43 22 48	d	3.97	+1.02	+0.98	G6/8 III
δ^2 Gru	8560	22 31 05.5	-43 38 00	d	4.12	+1.57	+2.49	M4.5 IIIa
6 Lac	8579	22 31 27.8	+43 14 21	b	4.52	-0.09	-0.09	B2 IV
57 σ Aqr	8573	22 31 50.1	-10 33 44	dbm	4.82	-0.05	-0.04	A0 IV
7 α Lac	8585	22 32 13.4	+50 23 55	d	3.76	+0.03	+0.05	A1 Va
17 β PsA	8576	22 32 46.7	-32 13 48	d	4.29	+0.01	+0.03	A1 Va
59 ν Aqr	8592	22 35 55.3	-20 35 32		5.21	+0.45	+0.49	F5 V
31 Cep	8615	22 36 19.4	+73 45 37		5.08	+0.40	+0.46	F3 III-IV
62 η Aqr	8597	22 36 30.7	-00 00 03		4.04	-0.08	-0.07	B9 IV-V:n
63 κ Aqr	8610	22 38 55.2	-04 06 41	d	5.04	+1.14	+1.10	K1.5 IIIb CN 0.5
30 Cep	8627	22 39 27.3	+63 42 07	b	5.19	+0.08	+0.10	A3 IV
10 Lac	8622	22 40 16.5	+39 10 04	ad	4.89	-0.21	-0.23	O9 V
	8626	22 40 35.6	+37 42 38	sd	6.03	+0.85	+0.87	G3 Ib-II: CN-1 CH 2 Fe-1
11 Lac	8632	22 41 30.3	+44 23 39		4.50	+1.32	+1.25	K2.5 III
18 ϵ PsA	8628	22 41 53.7	-26 55 32		4.18	-0.11	-0.07	B8 Ve
42 ζ Peg	8634	22 42 35.1	+10 56 58	d	3.41	-0.09	-0.06	B8.5 III
β Gru	8636	22 44 00.1	-46 45 59		2.07	+1.61	+2.60	M4.5 III
44 η Peg	8650	22 44 03.6	+30 20 22	cdb	2.93	+0.85	+0.87	G8 II + F0 V
13 Lac	8656	22 45 05.9	+41 56 16	d	5.11	+0.96	+0.95	K0 III
47 λ Peg	8667	22 47 37.0	+23 41 04		3.97	+1.07	+0.99	G8 IIIa CN 0.5

Designation	BS=HR No.	Right Ascension			Declination	Notes	V	B-V	V-I	Spectral Type
		h	m	s						
46	ξ Peg	8665	22 47	49.1	+12 17 20	d	4.20	+0.50	+0.60	F6 V
	β Oct	8630	22 48	13.7	-81 15 45	b	4.13	+0.21	+0.24	A7 III-IV
68	Aqr	8670	22 48	45.4	-19 29 44		5.24	+0.94	+0.93	G8 III
	ε Gru	8675	22 49	54.1	-51 11 53		3.49	+0.08	+0.10	A2 Va
32	ι Cep	8694	22 50	29.2	+66 19 09	s	3.50	+1.05	+1.06	K0 ⁻ III
71	τ Aqr	8679	22 50	46.8	-13 28 24	d	4.05	+1.57	+1.72	M0 III
48	μ Peg	8684	22 51	05.5	+24 43 15	s	3.51	+0.93	+0.89	G8 ⁺ III
		8685	22 52	18.6	-39 02 14		5.43	+1.44	+1.44	K3 III
22	γ PsA	8695	22 53	46.2	-32 45 20	dm	4.46	-0.04	-0.01	A0m A1 III-IV
73	λ Aqr	8698	22 53	47.2	-07 27 34		3.73	+1.63	+2.07	M2.5 III Fe-0.5
		8748	22 54	08.9	+84 27 59		4.70	+1.42	+1.38	K4 III
76	δ Aqr	8709	22 55	50.5	-15 42 02		3.27	+0.07	+0.08	A3 IV-V
23	δ PsA	8720	22 57	11.3	-32 25 08	d	4.20	+0.95	+0.96	G8 III
		8726	22 57	25.5	+49 51 15	s	4.99	+1.78	+1.87	K5 Ib
24	α PsA	8728	22 58	53.3	-29 30 09	an56	1.17	+0.15	+0.16	A3 Va
		8732	22 59	49.8	-35 24 11	s	6.15	+0.58	+0.62	F8 III-IV
v509	Cas	8752	23 01	02.4	+57 03 59	s	5.10	+1.01	+0.99	G4v 0
	ζ Gru	8747	23 02	11.8	-52 37 59	b	4.11	+0.96	+1.01	G8/K0 III
1	ο And	8762	23 02	57.7	+42 26 50	dbm	3.62	-0.10	-0.05	B6pe (shell)
	π PsA	8767	23 04	44.2	-34 37 38	b	5.12	+0.31	+0.37	F0 V:
53	β Peg	8775	23 04	52.1	+28 12 19	d	2.44	+1.66	+2.31	M2.5 II-III
4	β Psc	8773	23 05	01.3	+03 56 30		4.48	-0.12	-0.09	B6 Ve
54	α Peg	8781	23 05	53.0	+15 19 36	bn57	2.49	0.00	0.00	A0 III-IV
86	Aqr	8789	23 07	53.1	-23 37 16	dm	4.48	+0.89	+0.92	G6 IIIb
	θ Gru	8787	23 08	08.3	-43 23 54	dm	4.28	+0.42	+0.44	F5 (II-III)m
55	Peg	8795	23 08	08.3	+09 31 53		4.54	+1.56	+1.79	M1 IIIab
33	π Cep	8819	23 08	37.2	+75 30 34	dbm	4.41	+0.80	+0.84	G2 III
88	Aqr	8812	23 10	38.6	-21 03 00		3.68	+1.20	+1.16	K1.5 III
	ι Gru	8820	23 11	37.4	-45 07 28	b	3.88	+1.00	+0.95	K1 III
59	Peg	8826	23 12	52.4	+08 50 33		5.15	+0.14	+0.15	A3 Van
90	φ Aqr	8834	23 15	29.2	-05 55 39		4.22	+1.55	+1.89	M1.5 III
91	ψ ¹ Aqr	8841	23 17	04.1	-08 57 53	d	4.24	+1.11	+1.06	K1 ⁻ III Fe-0.5
6	γ Psc	8852	23 18	19.9	+03 24 20	s	3.70	+0.92	+0.97	G9 III: Fe-2
	γ Tuc	8848	23 18	43.7	-58 06 43		3.99	+0.41	+0.50	F2 V
93	ψ ² Aqr	8858	23 19	04.3	-09 03 34		4.41	-0.14	-0.14	B5 Vn
	γ Scl	8863	23 20	02.0	-32 24 33		4.41	+1.11	+1.08	K1 III
95	ψ ³ Aqr	8865	23 20	07.8	-09 29 15	d	4.99	-0.02	0.00	A0 Va
62	τ Peg	8880	23 21	45.2	+23 51 49	v	4.58	+0.18	+0.23	A5 V
98	Aqr	8892	23 24	09.0	-19 58 39		3.96	+1.08	+1.10	K1 III
4	Cas	8904	23 25	50.9	+62 24 24	d	4.96	+1.68	+1.94	M2 ⁻ IIIab
68	υ Peg	8905	23 26	30.4	+23 31 42	s	4.42	+0.62	+0.67	F8 III
99	Aqr	8906	23 27	13.5	-20 31 07		4.38	+1.46	+1.52	K4.5 III
8	κ Psc	8911	23 28	05.2	+01 22 44	d	4.95	+0.04	+0.01	A0p Cr Sr
10	θ Psc	8916	23 29	06.6	+06 30 10		4.27	+1.06	+1.03	K0.5 III
70	Peg	8923	23 30	17.7	+12 53 06		4.54	+0.94	+0.93	G8 IIIa
		8924	23 30	41.8	-04 24 36	s	6.26	+1.12	+1.04	K3 ⁻ IIIb Fe 2
	τ Oct	8862	23 30	42.4	-87 21 29		5.50	+1.28	+1.24	K2 III
	β Scl	8937	23 34	10.3	-37 41 37		4.38	-0.10	-0.09	B9.5p Hg Mn
		8952	23 35	58.5	+71 46 00	s	5.86	+1.68	+1.71	G9 Ib
	ι Phe	8949	23 36	16.8	-42 29 26	d	4.69	+0.08	+0.10	Ap Sr

BRIGHT STARS, J2022.5


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Designation	BS=HR No.	Right Ascension	Declination	Notes	V	B-V	V-I	Spectral Type
		h m s	° ' "					
16 λ And	8961	23 38 40.4	+46 34 49	vdb	3.81	+0.98	+0.96	G8 III-IV
	8959	23 39 03.2	-45 22 04	b	4.74	+0.08	+0.08	A1/2 V
17 ι And	8965	23 39 14.8	+43 23 34	b	4.29	-0.08	-0.06	B8 V
35 γ Cep	8974	23 40 17.6	+77 45 28	as	3.21	+1.03	+0.99	K1 III-IV CN 1
17 ι Psc	8969	23 41 06.5	+05 44 54	d	4.13	+0.51	+0.59	F7 V
19 κ And	8976	23 41 31.4	+44 27 31	d	4.15	-0.07	-0.06	B8 IVn
μ Scl	8975	23 41 48.7	-31 56 55		5.30	+0.97	+0.95	K0 III
18 λ Psc	8984	23 43 11.7	+01 54 14	b	4.49	+0.20	+0.22	A6 IV-
105 ω ² Aqr	8988	23 43 53.3	-14 25 13	db	4.49	-0.03	-0.04	B9.5 IV
106 Aqr	8998	23 45 22.0	-18 09 07		5.24	-0.08	-0.06	B9 Vn
20 ψ And	9003	23 47 09.4	+46 32 43	dm	4.97	+1.09	+1.05	G3 Ib-II
	9013	23 49 00.3	+67 55 55	b	5.05	+0.01	+0.03	A1 Vn
20 Psc	9012	23 49 05.9	-02 38 11	d	5.49	+0.94	+0.96	gG8
δ Scl	9016	23 50 05.6	-28 00 21	d	4.59	0.00	-0.01	A0 Va ⁺ n
81 φ Peg	9036	23 53 38.1	+19 14 43		5.06	+1.59	+2.09	M3 ⁻ IIIb
82 HT Peg	9039	23 53 46.1	+11 04 21		5.30	+0.19	+0.20	A4 Vn
7 ρ Cas	9045	23 55 31.2	+57 37 28		4.51	+1.19	+1.15	G2 0 (var)
84 ψ Peg	9064	23 58 54.6	+25 15 59	d	4.63	+1.58	+2.21	M3 III
27 Psc	9067	23 59 49.5	-03 25 52	db	4.88	+0.93	+0.92	G9 III

Notes to Table

- a anchor point for the MK system
- b spectroscopic binary
- c composite or combined spectrum
- d double star given in Washington Double Star Catalog
- m magnitude and color refer to combined light of two or more stars
- n navigational star followed by its star number in *The Nautical Almanac*
- o orbital position generated using FK5 center-of-mass position and proper motion
- s MK standard star
- v variable star

 A searchable version of this table appears on *The Astronomical Almanac Online*.

 These data or auxiliary material may also be found on *The Astronomical Almanac Online* at <https://asa.hmnao.com> and <https://aa.usno.navy.mil/publications/docs/asa.html>