

Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
And	Alpheratz	alf	21	0 8 23.17	29 5 27.0	2.07	97.1	B9p	358	677	And	Mirach	bet	43	1 9 43.8	35 37 15.0	2.07	199.4	M0IIIvar	6860	5447
And	Almaak	gam1	57	2 3 53.92	42 19 47.5	2.1	354.9	B8V	12533	9640	And		del	31	0 39 19.6	30 51 40.4	3.27	101.3	K3III...	3627	3092
And			51	1 37 59.5	48 37 42.6	3.59	173.9	K3III	9927	7607	And		omi	1	23 1 55.25	42 19 33.5	3.62	692.5	B6pv SB	217675	113726
And		lam	16	23 37 33.71	46 27 33.0	3.81	84.2	G8III-IV	222107	116584	And		mu.	37	0 56 45.1	38 29 57.3	3.86	136.3	A5V	5448	4436
Ant		alf		10 27 9.16	-31 4 4.1	4.28	366.5	K4III	90610	51172	Ant		eps		9 29 14.74	-35 57 4.9	4.51	699.9	K3III	82150	46515
Ant		iot		10 56 43.0	-37 8 14.9	4.6	198.9	K0III	94890	53502	Ant		the		9 44 12.13	-27 46 10.4	4.78	384.2	A7V+...	84367	47758
Aps		alf		14 47 51.73	-79 2 41.0	3.83	411.3	K5III	129078	72370	Aps		gam		16 33 27.46	-78 53 49.1	3.86	159.6	K0IV SB	147675	81065
Aps		bet		16 43 5.42	-77 30 59.7	4.23	157.6	K0III	149324	81852	Aps		del1		16 20 20.84	-78 41 44.4	4.68	765.6	M5III	145366	80047
Aql	Altair	alf	53	19 50 46.68	8 52 2.6	0.76	16.8	A7IV-V	187642	97649	Aql	Tarazed	gam	50	19 46 15.57	10 36 47.8	2.72	460.7	K3II	186791	97278
Aql	Deneb el Okab	zet	17	19 5 24.61	13 51 49.4	2.99	83.2	A0Vn	177724	93747	Aql		the	65	20 11 18.26	0 49 17.3	3.24	287.1	B9.5III	191692	99473
Aql	Deneb Okab	del	30	19 25 29.75	3 6 52.5	3.36	50.1	F0IV	182640	95501	Aql		lam	16	19 6 14.95	-4 52 56.4	3.43	125.2	B9Vn	177756	93805
Aql	Alshain	bet	60	19 55 18.77	6 24 28.6	3.71	44.7	G8IVvar	188512	98036	Aql		eta	55	19 52 28.36	1 0 20.4	3.87	1173.2	F6Ibv SB	187929	97804
Aqr	Sadalsuud	bet	22	21 31 33.52	-5 34 16.2	2.9	611.9	G0Ib	204867	106278	Aqr	Sadalmelik	alf	34	22 5 47.03	0 19 11.4	2.95	758.5	G2Ib	209750	109074
Aqr	Skat	del	76	22 54 39.04	-15 49 14.7	3.27	159.6	A3V	216627	113136	Aqr		zet1	55	22 28 49.8	0 1 12.2	3.65	103.4	F3III-IV	213051	110960
Aqr		c2	88	23 9 26.76	-21 10 20.9	3.68	233.6	K1III	218594	114341	Aqr		lam	73	22 52 36.86	-7 34 46.8	3.73	391.5	M2IIIvar	216386	112961
Aqr	Albali	eps	2	20 47 40.53	-9 29 44.5	3.78	229.5	A1V	198001	102618	Aqr	Sadachbia	gam	48	22 21 39.3	-1 23 14.5	3.86	157.8	A0V	212061	110395
Ara		alf		17 31 50.52	-49 52 33.5	2.84	242.3	B2Vne	158427	85792	Ara		bet		17 25 18.0	-55 31 47.4	2.84	602.9	K3Ib-II	157244	85258
Ara		zet		16 58 37.23	-55 59 24.2	3.12	574.2	K5III	152786	83081	Ara		gam		17 25 23.66	-56 22 39.7	3.31	1136.4	B1Ib	157246	85267
Ara		del		17 31 5.98	-60 41 1.0	3.6	187.2	B8V	158094	85727	Ara		the		18 6 37.88	-50 5 29.2	3.65	1012.9	B2Ib	165024	88714
Ara		eta		16 49 47.11	-59 2 28.7	3.77	313.3	K5III	151249	82363	Ara		eps1		16 59 35.05	-53 9 37.8	4.06	304.3	K4III	152980	83153
Ari	Hamal	alf	13	2 7 10.29	23 27 46.0	2.01	65.9	K2III	12929	9884	Ari	Sheratan	bet	6	1 54 38.35	20 48 29.9	2.64	59.6	A5V...	11636	8903
Ari		c	41	2 49 58.99	27 15 38.8	3.61	159.5	B8Vn	17573	13209	Ari	Mesarthim	gam1	5	1 53 31.77	19 17 38.7	3.88	204.4	A1p Si	11502	8832
Aur	Capella	alf	13	5 16 41.3	45 59 56.5	0.08	42.2	M1: comp	34029	24608	Aur	Menkalinan	bet	34	5 59 31.77	44 56 50.8	1.9	82.1	A2V	40183	28360
Aur		the	37	5 59 43.24	37 12 46.0	2.65	173.2	A0p Si	40312	28380	Aur	Hassaleh	iot	3	4 56 59.62	33 9 58.1	2.69	512.0	K3IIvar	31398	23015
Aur	Almaaz	eps	7	5 1 58.13	43 49 23.9	3.03	2038.5	F0Ia	31964	23416	Aur	Hoedus II	eta	10	5 6 30.87	41 14 4.7	3.18	219.3	B3V	32630	23767
Aur	Hoedus I	zet	8	5 2 28.68	41 4 33.2	3.69	787.8	K4II comp	32068	23453	Aur		del	33	5 59 31.55	54 17 5.9	3.72	140.5	K0III	40035	28358
Boo	Arcturus	alf	16	14 15 40.35	19 11 14.2	-0.05	36.7	K2IIIp	124897	69673	Boo	Izar	eps	36	14 44 59.25	27 4 27.0	2.35	209.7	A0	129988	72105
Boo	Muphrid	eta	8	13 54 41.12	18 23 54.9	2.68	37.0	G0IV	121370	67927	Boo	Izar	eps	36	14 44 59.2	27 4 27.0	2.7			129989	
Boo	Seginus	gam	27	14 32 4.76	38 18 28.4	3.04	85.2	A7IIIvar	127762	71075	Boo	Printseps	del	49	15 15 30.1	33 18 54.4	3.46	116.7	G8III	135722	74666
Boo	Nekkar	bet	42	15 1 56.79	40 23 26.3	3.49	218.8	G8III	133208	73555	Boo		rho	25	14 31 49.86	30 22 16.1	3.57	148.8	K3III	127665	71053
Boo		zet	30	14 41 8.92	13 43 42.0	3.78	180.5	A3IVn	129246	71795	Boo	Asellus Primus	the	23	14 25 12.02	51 51 6.2	4.04	47.5	F7V	126660	70497
CMa	Sirius	alf	9	6 45 9.25	-16 42 47.3	-1.44	8.6	A0m...	48915	32349	CMa	Adhara	eps	21	6 58 37.55	-28 58 19.5	1.5	430.9	B2II	52089	33579
CMa	Wezen	del	25	7 8 23.49	-26 23 35.5	1.83	1792.1	F8Ia	54605	34444	CMa	Mirzam	bet	2	6 22 41.99	-17 57 21.3	1.98	499.5	B1II/III	44743	30324
CMa	Aludra	eta	31	7 24 5.71	-29 18 11.2	2.45	3197.6	B5Ia	58350	35904	CMa	Furud	zet	1	6 20 18.79	-30 3 48.2	3.02	336.2	B2.5V	44402	30122
CMa		omi2	24	7 3 1.47	-23 49 59.9	3.02	2568.2	B3Ia	53138	33977	CMa		sig	22	7 1 43.15	-27 56 5.4	3.49	1217.0	K4III	52877	33856
CMa		kap	13	6 49 50.47	-32 30 30.6	3.5	789.7	B1.5IVne	50013	32759	CMa		omi1	16	6 54 7.95	-24 11 3.2	3.89	1976.7	K3Iab	50877	33152
CMi	Procyon	alf	10	7 39 18.54	5 13 39.0	0.4	11.4	F5IV-V	61421	37279	CMi	Gomeisa	bet	3	7 27 9.07	8 17 21.9	2.89	170.2	B8Vvar	58715	36188
CMi		gam	4	7 28 9.83	8 55 31.8	4.33	397.8	K3III SB	58972	36284	CMi		G		8 2 15.95	2 20 3.5	4.39	261.1	K2III	66141	39311
CVn	Cor Caroli	alf2	12	12 56 1.84	38 19 5.7	2.89	110.2	A0spe...	112413	63125	CVn	Chara	bet	8	12 33 45.09	41 21 24.4	4.24	27.3	G0V	109358	61317
CVn			24	13 34 27.37	49 0 57.3	4.68	190.5	A5V	118232	66234	CVn			20	13 17 32.64	40 34 21.2	4.72	286.4	F3III	115604	64844
Cae		alf		4 40 33.82	-41 51 48.9	4.44	65.7	F2V	29875	21770	Cae		gam		5 4 24.31	-35 28 58.3	4.55	185.0	K2III	32831	23595
Cae		bet		4 42 3.45	-37 8 41.2	5.04	90.2	F3V	29992	21861	Cae		del		4 30 50.1	-44 57 13.5	5.07	710.6	B2IV-V	28873	21060
Cam		bet	10	5 3 25.1	60 26 32.2	4.03	997.4	G0Ib	31910	23522	Cam		alf	9	4 54 3.01	66 20 33.6	4.26	6939.6	O9.5Ia SB:	30614	22783
Cam			7	4 57 17.22	53 45 7.5	4.43	375.8	A1V	31278	23040	Cam		gam		3 50 21.48	71 19 56.5	4.59	335.2	A2IVn	23401	17959
Cap	Deneb Algedi	del	49	21 47 2.29	-16 7 35.6	2.85	38.6	A5mF2 (IV)	207098	107556	Cap	Dabih	bet	9	20 21 0.65	-14 46 53.0	3.05	344.1	A5:n	193495	100345
Cap	Gredi Algedi	alf2	6	20 18 3.22	-12 32 41.5	3.58	108.7	G6/G8III	192947	100064	Cap	Nashira	gam	40	21 40 5.34	-16 39 44.1	3.69	138.9	A7III:mp...	206088	106985
Cap		zet	34	21 26 40.03	-22 24 41.0	3.77	398.2	G4Ibp...	204075	105881	Cap		the	23	21 5 56.78	-17 13 57.8	4.08	158.3	A1V	200761	104139
Car	Canopus	alf		6 23 57.09	-52 41 44.6	-0.62	312.7	F0Ib	45348	30438	Car	Miaplacidus	bet		9 13 12.24	-69 43 2.9	1.67	111.2	A2IV	80007	45238
Car	Avior	eps		8 22 30.86	-59 30 34.3	1.86	632.1	K3III+B2V	71129	41037	Car	Aspidiske	iot		9 17 5.43	-59 16 30.9	2.21	692.5	A8Ib	80404	45556
Car		the		10 42 57.43	-64 23 40.1	2.74	439.0	B0Vp	93030	52419	Car		ups		9 47 6.14	-65 4 19.3	2.92	1622.7	A9	85123	48002
Car		ome		10 13 44.28	-70 2 16.5	3.29	370.2	B8III	89080	50099	Car		p		10 32 1.48	-61 41 7.3	3.3	497.2	B4Vne	91465	51576
Car		q		10 17 5.01	-61 19 56.4	3.39	736.3	K3II	89388	50371	Car		a		9 10 58.11	-58 58 0.9	3.43	418.7	B2IV	79351	45080
Car		chi		7 56 46.74	-52 58 56.6	3.46	386.9	B3IVp	65575	38827	Car		l		9 45 14.83	-62 30 28.5	3.69	1510.0	G5Iab/Ib	84810	47854

Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
Car		u		10 53 29.57	-58 51 11.8	3.78	96.8	K0III-IV...	94510	53253	Car		s		10 27 52.75	-58 44 21.9	3.81	1042.0	F2II	90853	51232
Car		c		8 55 2.86	-60 38 41.0	3.84	312.1	B8III	76728	43783	Car		x		11 8 35.4	-58 58 30.2	3.93	5930.2	G0Ia0	96918	54463
Cas		gam	27	0 56 42.5	60 43 0.3	2.15	613.1	B0IV:evar	5394	4427	Cas	Shedir	alf	18	0 40 30.39	56 32 14.7	2.24	228.6	K0II-IIIvar	3712	3179
Cas	Caph	bet	11	0 9 10.09	59 9 0.8	2.28	54.5	F2III-IV	432	746	Cas	Ruchbah	del	37	1 25 48.6	60 14 7.5	2.66	99.4	A5Vv SB	8538	6686
Cas	Segin Ruchbah	eps	45	1 54 23.68	63 40 12.5	3.35	442.0	B2pvar	11415	8886	Cas	Achird	eta	24	0 49 5.1	57 48 59.6	3.46	19.4	G0V SB	4614	3821
Cas		zet	17	0 36 58.27	53 53 49.0	3.69	597.4	B2IV	3360	2920	Cas			50	2 3 26.19	72 25 16.5	3.95	162.1	A2V	12216	9598
Cen	Rigil Kent	alf		14 39 40.9	-60 50 6.5	-0.01	4.4	G2V	128620	71683	Cen	Hadar	bet		14 3 49.44	-60 22 22.7	0.61	525.2	B1III	122451	68702
Cen	Proksima C.	alf		14 39 39.39	-60 50 22.1	1.35			128621	71681	Cen	Menkent	the	5	14 6 41.32	-36 22 7.3	2.06	60.9	K0IIIb	123139	68933
Cen		gam		12 41 31.2	-48 57 35.6	2.2	130.4	A1IV	110304	61932	Cen		eps		13 39 53.27	-53 27 58.9	2.29	375.8	B1III	118716	66657
Cen		eta		14 35 30.45	-42 9 27.9	2.33	308.6	B1Vn+A	127972	71352	Cen		zet		13 55 32.43	-47 17 17.8	2.55	384.6	B2.5IV	121263	68002
Cen		del		12 8 21.54	-50 43 20.7	2.58	395.3	B2IVne	105435	59196	Cen		iot		13 20 36.07	-36 42 43.5	2.75	58.6	A2V	115892	65109
Cen		lam		11 35 46.93	-63 1 11.4	3.11	409.7	B9II:	100841	56561	Cen		kap		14 59 9.7	-42 6 14.9	3.13	539.1	B2IV	132200	73334
Cen		nu.		13 49 30.3	-41 41 15.6	3.41	474.8	B2IV	120307	67464	Cen		mu.		13 49 37.01	-42 28 25.3	3.47	526.9	B2IV-Ve	120324	67472
Cen		phi		13 58 16.28	-42 6 2.5	3.83	465.3	B2IV	121743	68245	Cen		tau		12 37 42.33	-48 32 28.6	3.85	131.7	A2V	109787	61622
Cen		ups1		13 58 40.77	-44 48 12.7	3.87	417.6	B2IV-V	121790	68282	Cen		pi.		11 21 0.44	-54 29 27.7	3.9	321.3	B5Vn	98718	55425
Cen		d		13 31 2.67	-39 24 26.2	3.9	1254.5	G8II/III	117440	65936	Cen		sig		12 28 2.41	-50 13 50.2	3.91	443.2	B3V	108483	60823
Cep	Alderamin	alf	5	21 18 34.58	62 35 7.6	2.45	48.8	A7IV-V	203280	105199	Cep	Errai	gam	35	23 39 20.98	77 37 55.1	3.21	45.0	K1IV	222404	116727
Cep	Alfirk	bet	8	21 28 39.58	70 33 38.5	3.23	595.2	B2IIIv SB	205021	106032	Cep		zet	21	22 10 51.26	58 12 4.5	3.39	726.4	K1Ibv SB	210745	109492
Cep		eta	3	20 45 17.27	61 50 12.5	3.41	46.8	K0IV	198149	102422	Cep		iot	32	22 49 40.91	66 12 2.6	3.5	115.4	K0III	216228	112724
Cet	Diphda	bet	16	0 43 35.23	-17 59 12.1	2.04	95.8	K0III	4128	3419	Cet	Menkar	alf	92	3 2 16.78	4 5 23.7	2.54	220.1	M2III	18884	14135
Cet	Deneb Algenubi	eta	31	1 8 35.26	-10 10 54.9	3.46	117.6	K2III	6805	5364	Cet	Kaffalidma	gam	86	2 43 18.12	3 14 10.2	3.47	82.0	A3V	16970	12706
Cet		tau	52	1 44 5.13	-15 56 22.3	3.49	11.9	G8V	10700	8102	Cet	Deneb Kaitos	iot	8	0 19 25.68	-8 49 25.8	3.56	289.7	K2III	1522	1562
Cet		the	45	1 24 1.45	-8 10 57.9	3.6	114.5	K0III	8512	6537	Cet	Baten Kaitos	zet	55	1 51 27.61	-10 20 5.8	3.74	259.1	K2III	11353	8645
Cha		alf		8 18 31.27	-76 55 11.9	4.05	63.5	F5III	71243	40702	Cha		gam		10 35 28.22	-78 36 28.1	4.11	413.4	M0III	92305	51839
Cha		bet		12 18 20.94	-79 18 44.2	4.24	270.7	B5Vn	106911	60000	Cha		the		8 20 38.89	-77 29 4.5	4.34	153.7	K0III-IV	71701	40888
Cir		alf		14 42 30.69	-64 58 28.5	3.18	53.5	F1Vp	128898	71908	Cir		bet		15 17 30.96	-58 48 3.2	4.07	96.6	A3V	135379	74824
Cir		gam		15 23 22.66	-59 19 14.5	4.48	509.6	B5III+F8	136415	75323	Cir		eps		15 17 38.89	-63 36 37.8	4.85	373.2	K2.5III	135291	74837
Cnc	Altarf	bet	17	8 16 30.95	9 11 8.4	3.53	290.4	K4III	69267	40526	Cnc	Asellus Aus.	del	47	8 44 41.11	18 9 17.5	3.94	136.1	K0III	74442	42911
Cnc		iot	48	8 46 41.83	28 45 36.0	4.03	298.1	G8Iab:	74739	43103	Cnc	Acubens	alf	65	8 58 29.2	11 51 28.0	4.26	173.6	A5m	76756	44066
Col	Phact	alf		5 39 38.94	-34 4 26.6	2.65	268.2	B7IV	37795	26634	Col	Wazn	bet		5 50 57.55	-35 46 9.5	3.12	86.0	K1.5III	39425	27628
Col		del		6 22 6.85	-33 26 10.6	3.85	237.2	G7II	44762	30277	Col		eps		5 31 12.74	-35 28 13.6	3.86	277.1	K1II/III	36597	25859
Com		bet	43	13 11 52.92	27 52 33.7	4.23	29.9	G0V	114710	64394	Com	Diadem	alf	42	13 9 59.55	17 31 44.8	4.32	46.7	F5V	114378	64241
Com		gam	15	12 26 56.33	28 16 7.0	4.35	170.1	K2IIICN+...	108381	60742	Com			11	12 20 43.09	17 47 33.6	4.72	360.8	G8III	107383	60202
CrA		bet		19 10 1.75	-39 20 26.5	4.1	508.0	K0II/IIICN.	178345	94160	CrA	Alfecca Meridiana	alf		19 9 28.28	-37 54 15.3	4.11	129.7	A0/A1V	178253	94114
CrA		gam		19 6 25.04	-37 3 45.9	4.23			177474	93825	CrA		del		19 8 20.93	-40 29 47.9	4.57	174.7	K1III	177873	94005
CrB		T		15 59 30.2	25 55 13.0	2	2025.8	M3III+pec	143454		CrB	Alphekka	alf	5	15 34 41.19	26 42 53.7	2.22	74.7	A0V	139006	76267
CrB	Nusakan	bet	3	15 27 49.85	29 6 19.8	3.66	114.0	F0p	137909	75695	CrB		gam	8	15 42 44.64	26 17 43.9	3.81	145.1	A1Vs	140436	76952
Crt	Labr	del	12	11 19 20.52	-14 46 44.6	3.56	194.7	K0III	98430	55282	Crt		gam	15	11 24 52.98	-17 41 2.5	4.06	83.8	A9V	99211	55705
Crt	Alkes	alf	7	10 59 46.75	-18 17 56.8	4.08	174.3	K1III	95272	53740	Crt		bet	11	11 11 39.49	-22 49 32.2	4.46	266.0	A1V	97277	54682
Cru	Acrux	alf1		12 26 35.94	-63 5 56.6	0.77	320.7	B0.5IV	108248	60718	Cru	Mimosa	bet		12 47 43.32	-59 41 19.4	1.25	352.6	B0.5III	111123	62434
Cru	Gacrux	gam		12 31 9.93	-57 6 45.2	1.59	87.9	M4III	108903	61084	Cru	Acrux	alf2		12 26 36.5	-63 5 58.0	1.73			108249	
Cru		del		12 15 8.76	-58 44 56.0	2.79	364.0	B2IV	106490	59747	Cru		eps		12 21 21.81	-60 24 4.9	3.59	228.1	K3/K4III	107446	60260
Crv	Gienah	gam	4	12 15 48.47	-17 32 31.1	2.58	164.9	B8III	106625	59803	Crv	Kraz	bet	9	12 34 23.23	-23 23 47.8	2.65	139.7	G5II	109379	61359
Crv	Algorab	del	7	12 29 51.98	-16 30 54.3	2.94	87.9	B9.5V	108767	60965	Crv	Minkar	eps	2	12 10 7.53	-22 37 11.3	3.02	303.4	K2III	105707	59316
Cyg	Deneb Cygni	alf	50	20 41 25.91	45 16 49.2	1.25	3229.3	A2Ia	197345	102098	Cyg	Sadr	gam	37	20 22 13.7	40 15 24.1	2.23	1524.1	F8Ib	194093	100453
Cyg	Gienah	eps	53	20 46 12.43	33 58 10.0	2.48	72.1	K0III	197989	102488	Cyg		del	18	19 44 58.44	45 7 50.5	2.86	171.0	B9.5III	186882	97165
Cyg	Albireo	bet1	6	19 30 43.29	27 57 34.9	3.05	385.5	K3II+...	183912	95947	Cyg		zet	64	21 12 56.18	30 13 37.5	3.21	150.9	G8II SB	202109	104732
Cyg		ksi	62	21 4 55.86	43 55 40.3	3.72	1177.5	K5Ibv SB	200905	104060	Cyg		tau	65	21 14 47.35	38 2 39.6	3.74	68.2	F1IV	202444	104887
Cyg		iot	10	19 29 42.34	51 43 46.1	3.76	122.5	A5Vn	184006	95853	Cyg		omi1	31	20 13 37.9	46 44 28.8	3.8	1353.4	K2II+...	192577	99675
Cyg		kap	1	19 17 6.11	53 22 5.4	3.8	123.2	K0III	181276	94779	Cyg		eta	21	19 56 18.4	35 5 0.6	3.89	139.4	K0IIlvar	188947	98110
Del	Rotanev	bet	6	20 37 32.87	14 35 42.7	3.64	97.4	F5IV	196524	101769	Del	Sualocin	alf	9	20 39 38.25	15 54 43.4	3.77	240.7	B9V	196867	101958
Del	Deneb Dulfim	eps	2	20 33 12.76	11 18 12.0	4.03	358.8	B6III	195810	101421	Del		gam2	12	20 46 39.52	16 7 29.2	4.27	101.5	K1IV	197964	102532

Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
Dor		alf		4 33 59.72	-55 2 42.0	3.3	175.7	A0V:	29305	21281	Dor		bet		5 33 37.52	-62 29 23.5	3.76	1038.7	F6Ia	37350	26069
Dor		gam		4 16 1.49	-51 29 13.5	4.26	66.2	F4III	27290	19893	Dor		del		5 44 46.42	-65 44 7.9	4.34	145.1	A7V	39014	27100
Dra	Etamin	gam	33	17 56 36.38	51 29 20.2	2.24	147.6	K5III	164058	87833	Dra		eta	14	16 23 59.51	61 30 50.7	2.73	87.7	G8III	148387	80331
Dra	Rastaban	bet	23	17 30 25.98	52 18 4.9	2.79	361.6	G2II	159181	85670	Dra	Altais	del	57	19 12 33.15	67 39 40.7	3.07	100.2	G9III	180711	94376
Dra	Aldhibah	zet	22	17 8 47.23	65 42 52.7	3.17	339.8	B6III	155763	83895	Dra	Edasich	iot	12	15 24 55.78	58 57 57.7	3.29	102.2	K2III	137759	75458
Dra		chi	44	18 21 2.34	72 44 1.3	3.55	26.3	F7Vvar	170153	89937	Dra	Thuban	alf	11	14 4 23.43	64 22 32.9	3.67	308.9	A0III SB	123299	68756
Dra	Grumium	ksi	32	17 53 31.63	56 52 20.8	3.73	111.5	K2III	163588	87585	Dra	Giausar	lam	1	11 31 24.29	69 19 52.0	3.82	334.2	M0IIIvar	100029	56211
Dra	Tyl	eps	63	19 48 10.21	70 16 4.2	3.84	145.6	G8III	188119	97433	Dra		kap	5	12 33 29.04	69 47 17.6	3.85	498.0	B6IIp	109387	61281
Equ	Kitalpha	alf	8	21 15 49.4	5 14 53.1	3.92	186.3	G0III+...	202447	104987	Equ		del	7	21 14 28.79	10 0 27.8	4.47	60.3	F5V+...	202275	104858
Equ		gam	5	21 10 20.47	10 7 55.0	4.7	114.9	F0p	201601	104521	Equ		bet	10	21 22 53.58	6 48 40.0	5.16	360.0	A3V	203562	105570
Eri	Achernar	alf		1 37 42.75	-57 14 12.0	0.45	143.8	B3Vp	10144	7588	Eri	Cursa	bet	67	5 7 51.03	-5 5 10.5	2.78	88.8	A3IIIvar	33111	23875
Eri	Acamar	the1		2 58 15.72	-40 18 17.0	2.88	161.3	A4III+...	18622	13847	Eri	Zaurak	gam	34	3 58 1.73	-13 30 29.7	2.97	221.1	M1IIb Ca-1	25025	18543
Eri	Rana	del	23	3 43 14.96	-9 45 54.7	3.52	29.5	K0IV	23249	17378	Eri		ups4	41	4 17 53.62	-33 47 54.0	3.55	178.5	B9V	27376	20042
Eri		phi		2 16 30.5	-51 30 43.6	3.56	154.9	B8IV-V	14228	10602	Eri		chi		1 55 56.83	-51 36 34.5	3.69	57.0	G5IV	11937	9007
Eri		tau4	16	3 19 30.97	-21 45 28.6	3.7	258.2	M3/M4III	20720	15474	Eri		eps	18	3 32 56.42	-9 27 29.9	3.72	10.5	K2V	22049	16537
Eri	Theemim	ups2	52	4 35 33.07	-30 33 44.3	3.81	208.8	G8III	29291	21393	Eri	Sceptrum	l	53	4 38 10.87	-14 18 12.9	3.86	109.3	K1III	29503	21594
Eri	Azha	eta	3	2 56 25.6	-8 53 51.4	3.89	133.2	K1III-IV	18322	13701	Eri		nu.	48	4 36 19.14	-3 21 8.8	3.93	586.6	B2III SB	29248	21444
For		alf		3 12 4.28	-28 59 20.8	3.8	46.0	F8V	20010	14879	For		bet		2 49 5.36	-32 24 22.6	4.45	168.9	G8III	17652	13147
For		nu.		2 4 29.43	-29 17 48.6	4.68	361.2	B9.5p (Si)	12767	9677	For		ome		2 33 50.71	-28 13 56.4	4.96	453.6	B9V	16046	11918
Gem	Pollux	bet	78	7 45 19.36	28 1 34.7	1.16	33.7	K0IIIvar	62509	37826	Gem	Alhena	gam	24	6 37 42.7	16 23 57.9	1.93	104.8	A0IV	47105	31681
Gem	Castor	alf	66	7 34 36.0	31 53 18.0	1.98			60179	36850	Gem	Tejat	mu.	13	6 22 57.59	22 30 49.9	2.87	231.8	M3IIIvar	44478	30343
Gem	Castor	alf	66	7 34 36.0	31 53 19.0	2.88			60178		Gem	Mebstuta	eps	27	6 43 55.93	25 7 52.2	3.06	903.5	A3mA6-A9	48329	32246
Gem	Propus	eta	7	6 14 52.7	22 30 24.6	3.31	349.2	M3III	42995	29655	Gem	Alzirr	ksi	31	6 45 17.43	12 53 45.8	3.35	57.2	F5IV	48737	32362
Gem	Wasat	del	55	7 20 7.39	21 58 56.4	3.5	58.8	F0IV...	56986	35550	Gem		kap	77	7 44 26.87	24 23 53.3	3.57	143.5	G8III	62345	37740
Gem		lam	54	7 18 5.61	16 32 25.7	3.58	94.3	A3V...	56537	35350	Gem		the	34	6 52 47.34	33 57 40.9	3.6	196.6	A3III	50019	33018
Gem	Propus	iot	60	7 25 43.68	27 47 53.8	3.78	125.9	G9III+...	58207	36046	Gem	Mekbuda	zet	43	7 4 6.54	20 34 13.1	4.01	1169.0	G3Ibv SB	52973	34088
Gru	Alnair	alf		22 8 13.88	-46 57 38.2	1.73	101.4	B7IV	209952	109268	Gru		bet		22 42 39.93	-46 53 4.4	2.07	170.1	M5III	214952	112122
Gru	Aldanab	gam		21 53 55.65	-37 21 53.4	3	203.0	B8III	207971	108085	Gru		eps		22 48 33.2	-51 19 0.1	3.49	129.6	A3V	215789	112623
Gru		iot		23 10 21.43	-45 14 47.9	3.88	185.0	K0III SB	218670	114421	Gru		del1		22 29 16.15	-43 29 44.0	3.97	295.7	G6/G8III	213009	110997
Her	Rasalgethi	alf1	64	17 14 38.86	14 23 24.9	2.78	382.4	M5IIvar	156014	84345	Her	Kornephoros	bet	27	16 30 13.26	21 29 22.7	2.78	147.8	G8III	148856	80816
Her		zet	40	16 41 17.48	31 36 6.8	2.81	35.2	F9IV	150680	81693	Her	Sarin	del	65	17 15 1.92	24 50 22.5	3.12	78.5	A3IVv SB	156164	84379
Her		pi.	67	17 15 2.85	36 48 33.0	3.16	366.9	K3IIvar	156283	84380	Her		mu.	86	17 46 27.72	27 43 21.0	3.42	27.4	G5IV	161797	86974
Her		eta	44	16 42 53.74	38 55 20.9	3.48	112.0	G8III-IV	150997	81833	Her		ksi	92	17 57 45.83	29 14 52.5	3.7	135.2	K0III	163993	87933
Her		gam	20	16 21 55.24	19 9 10.9	3.74	195.4	A9III	147547	80170	Her		iot	85	17 39 27.89	46 0 22.8	3.82	495.7	B3V SB	160762	86414
Her		omi	103	18 7 32.55	28 45 44.9	3.84	347.3	B9.5V	166014	88794	Her			109	18 23 41.77	21 46 13.2	3.85	128.4	K2III	169414	90139
Her		the	91	17 56 15.18	37 15 1.9	3.86	669.7	K1IIvar	163770	87808	Her		tau	22	16 19 44.45	46 18 47.8	3.91	314.5	B5IV	147394	79992
Hor		alf		4 14 0.08	-42 17 37.9	3.85	117.1	K1III	26967	19747	Hor		del		4 10 50.43	-41 59 37.5	4.93	175.3	A9V	26612	19515
Hor		bet		2 58 47.77	-64 4 16.7	4.98	313.6	A5III	18866	13884	Hor		mu.		3 3 36.9	-59 44 15.4	5.12	137.8	F0IV	19319	14240
Hya	Alphard	alf	30	9 27 35.25	-8 39 31.3	1.99	177.3	K3III	81797	46390	Hya		gam	46	13 18 55.25	-23 10 17.1	2.99	132.1	G8III	115659	64962
Hya		zet	16	8 55 23.68	5 56 43.9	3.11	150.7	G8III-IV	76294	43813	Hya		nu.		10 49 37.43	-16 11 38.9	3.11	138.6	K0/K1III	93813	52943
Hya		pi.	49	14 6 22.27	-26 40 55.3	3.25	101.4	K2III	123123	68895	Hya		eps	11	8 46 46.65	6 25 8.1	3.38	135.2	G0III-IV	74874	43109
Hya		ksi		11 33 0.26	-31 51 27.1	3.54	129.3	G8III	100407	56343	Hya		lam	41	10 10 35.4	-12 21 13.8	3.61	114.7	K0III	88284	49841
Hya		mu.	42	10 26 5.51	-16 50 9.9	3.83	248.2	K4III	90432	51069	Hya		the	22	9 14 21.79	2 18 54.1	3.89	128.7	B9.5V	79469	45336
Hya		iot	35	9 39 51.33	-1 8 33.6	3.9	275.7	K3IIIvar	83618	47431	Hya		C		8 25 39.67	-3 54 22.9	3.91	125.0	A0V	71155	41307
Hyi		bet		0 25 39.2	-77 15 18.1	2.82	24.4	G2IV	2151	2021	Hyi		alf		1 58 45.87	-61 34 11.7	2.86	71.3	F0V	12311	9236
Hyi		gam		3 47 14.23	-74 14 21.3	3.26	214.2	M2III	24512	17678	Hyi		del		2 21 45.02	-68 39 33.9	4.08	135.3	A3V	15008	11001
Ind		alf		20 37 33.99	-47 17 30.0	3.11	101.3	K0III	196171	101772	Ind		bet		20 54 48.58	-58 27 14.7	3.67	602.9	K0III	198700	103227
Ind		the		21 19 51.88	-53 26 57.4	4.39	97.1	A5V	202730	105319	Ind		del		21 57 55.03	-54 59 33.2	4.4	184.8	F0IV	208450	108431
LMi	Praecipua		46	10 53 18.64	34 12 56.0	3.79	97.7	K0III-IV	94264	53229	LMi		bet	31	10 27 53.09	36 42 26.9	4.2	146.0	G8III-IV	90537	51233
LMi			21	10 7 25.73	35 14 40.9	4.49	91.2	A7V	87696	49593	LMi			10	9 34 13.38	36 23 51.4	4.54	176.1	G8III	82635	46952
Lac		alf	7	22 31 17.38	50 16 56.8	3.76	102.4	A1V	213558	111169	Lac			1	22 15 58.17	37 44 55.4	4.14	627.2	K3III	211388	109937
Lac			5	22 29 31.82	47 42 24.8	4.34	1164.9	M0II	213310	111022	Lac		bet	3	22 23 33.64	52 13 46.2	4.42	169.8	G9III	212496	110538

Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
Leo	Regulus	alf	32	10 8 22.46	11 58 1.9	1.36	77.5	B7V	87901	49669	Leo	Algieba	gam1	41	10 19 58.16	19 50 30.7	2.01	125.6	K0III	89484	50583
Leo	Denebola	bet	94	11 49 3.88	14 34 20.4	2.14	36.2	A3Vvar	102647	57632	Leo	Zosma	del	68	11 14 6.41	20 31 26.5	2.56	57.7	A4V	97603	54872
Leo	Ras Elased Aus.	eps	17	9 45 51.1	23 46 27.4	2.97	250.7	G0II	84441	47908	Leo	Chertan	the	70	11 14 14.44	15 25 47.1	3.33	177.6	A2V	97633	54879
Leo	Adhafera	zet	36	10 16 41.4	23 25 2.4	3.43	259.7	F0III	89025	50335	Leo	Al'dzhabkhakh	eta	30	10 7 19.95	16 45 45.6	3.48	2131.8	A0Ib	87737	49583
Leo	Subra	omi	14	9 41 9.12	9 53 32.6	3.52	135.2	A5V+...	83808	47508	Leo		omi	14	9 41 13.4	9 54 35.0	3.7			83809	
Leo		gam2	41	10 19 58.6	19 50 26.0	3.8			89485		Leo		rho	47	10 32 48.68	9 18 23.7	3.84	5722.1	B1Ib SB	91316	51624
Leo	Rasalas	mu.	24	9 52 45.96	26 0 25.5	3.88	133.0	K0III	85503	48455	Leo		iot	78	11 23 55.37	10 31 46.9	4	79.0	F2IV SB	99028	55642
Lep	Arneb	alf	11	5 32 43.81	-17 49 20.3	2.58	1284.1	F0Ib	36673	25985	Lep	Nihal	bet	9	5 28 14.73	-20 45 33.2	2.81	159.2	G5II	36079	25606
Lep		eps	2	5 5 27.65	-22 22 15.1	3.19	226.7	K4III	32887	23685	Lep		mu.	5	5 12 55.87	-16 12 19.5	3.29	184.4	B9IV: HgMn	33904	24305
Lep		zet	14	5 46 57.35	-14 49 19.0	3.55	70.2	A2Vann	38678	27288	Lep		gam	13	5 44 27.97	-22 26 51.0	3.59	29.3	F7V	38393	27072
Lep		eta	16	5 56 24.32	-14 10 4.9	3.71	49.1	F1V	40136	28103	Lep		del	15	5 51 19.15	-20 52 39.0	3.76	112.3	G8III/IV	39364	27654
Lib	Zubeneshamali	bet	27	15 17 0.47	-9 22 58.3	2.61	160.0	B8V	135742	74785	Lib	Zubenelgenubi	alf2	9	14 50 52.78	-16 2 29.8	2.75	77.2	A3IV	130841	72622
Lib	Brachium	sig	20	15 4 4.26	-25 16 54.7	3.25	292.0	M3/M4III	133216	73714	Lib		ups	39	15 37 1.46	-28 8 6.3	3.6	194.6	K3III	139063	76470
Lib		tau	40	15 38 39.38	-29 46 39.7	3.66	445.0	B2.5V	139365	76600	Lib	Zubenelakrab	gam	38	15 35 31.54	-14 47 22.4	3.91	152.3	K0III	138905	76333
Lup	Men	alf		14 41 55.77	-47 23 17.3	2.3	548.2	B1.5III	129056	71860	Lup		bet		14 58 31.95	-43 8 1.9	2.68	523.5	B2III	132058	73273
Lup		gam		15 35 8.46	-41 10 0.1	2.8	567.2	B2IV	138690	76297	Lup		del		15 21 22.34	-40 38 50.9	3.22	510.4	B1.5IV	136298	75141
Lup		eps		15 22 40.89	-44 41 22.5	3.37	504.1	B2IV-V	136504	75264	Lup		zet		15 12 17.2	-52 5 56.7	3.41	116.2	G8III	134505	74395
Lup		eta		16 0 7.34	-38 23 47.9	3.42	493.4	B2.5IV	143118	78384	Lup		iot		14 19 24.23	-46 3 29.1	3.55	351.8	B2.5IV	125238	69996
Lup		phi1		15 21 48.44	-36 15 40.2	3.57	326.5	K5III	136422	75177	Lup		kap1		15 11 56.16	-48 44 15.7	3.88	182.3	B9V	134481	74376
Lyn		alf	40	9 21 3.46	34 23 33.1	3.14	222.0	M0IIIvar	80493	45860	Lyn			38	9 18 50.67	36 48 10.4	3.82	121.9	A1V	80081	45688
Lyn	Alsciaukat		31	8 22 50.13	43 11 18.1	4.25	388.7	K5III	70272	41075	Lyn			15	6 57 16.6	58 25 23.0	4.35	170.4	G5III-IV	50522	33449
Lyr	Vega	alf	3	18 36 56.19	38 46 58.8	0.03	25.3	A0Vvar	172167	91262	Lyr	Sulafat	gam	14	18 58 56.62	32 41 22.4	3.25	634.6	B9III	176437	93194
Lyr	Sheliak	bet	10	18 50 4.79	33 21 45.6	3.52	881.5	A8:V c. SB	174638	92420	Lyr		R	13	18 55 20.09	43 56 45.2	4.08	349.6	M5IIIvar	175865	92862
Men		alf		6 10 14.2	-74 45 9.1	5.08	33.1	G5V	43834	29271	Men		gam		5 31 52.66	-76 20 30.0	5.18	100.6	K4III	37763	25918
Men		bet		5 2 43.0	-71 18 51.6	5.3	642.0	G8III	33285	23467	Men		the		6 56 34.48	-79 25 12.7	5.45	355.7	B9.5V	54239	33384
Mic		gam		21 1 17.46	-32 15 28.0	4.67	223.6	G8III	199951	103738	Mic		eps		21 17 56.25	-32 10 20.9	4.71	165.1	A0V	202627	105140
Mic		the1		21 20 45.58	-40 48 34.2	4.8	186.5	A2p	203006	105382	Mic		alf		20 49 58.08	-33 46 46.8	4.89	380.6	G8III	198232	102831
Mon		bet	11	6 28 49.07	-7 1 59.0	3.76	691.0	B3Ve	45725	30867	Mon		alf	26	7 41 14.88	-9 33 3.9	3.94	144.3	K0II	61935	37447
Mon		gam	5	6 14 51.34	-6 16 29.0	3.99	644.6	K3III	43232	29651	Mon		del	22	7 11 51.86	0 29 34.0	4.15	374.9	A2V	55185	34769
Mus		alf		12 37 11.08	-69 8 7.9	2.69	305.7	B2IV-V	109668	61585	Mus		bet		12 46 16.87	-68 6 29.1	3.04	311.2	B2V	110879	62322
Mus		del		13 2 15.78	-71 32 55.7	3.61	90.8	K2III	112985	63613	Mus		lam		11 45 36.57	-66 43 43.8	3.63	128.3	A7III	102249	57363
Mus		gam		12 32 28.11	-72 7 58.7	3.84	323.9	B5V	109026	61199	Mus		eps		12 17 34.64	-67 57 38.4	4.06	302.0	M5III	106849	59929
Nor		gam2		16 19 50.57	-50 9 19.4	4.01	127.5	G8III	146686	80000	Nor		eps		16 27 11.05	-47 33 17.0	4.46	399.7	B4V	147971	80582
Nor		iot1		16 3 32.22	-57 46 29.5	4.63	140.2	A7IV	143474	78662	Nor		eta		16 3 12.86	-49 13 47.0	4.65	217.9	G8III	143546	78639
Oct		nu.		21 41 28.47	-77 23 22.1	3.73	69.1	K0III	205478	107089	Oct		bet		22 46 3.72	-81 22 53.8	4.13	140.4	A9IV/V	214846	112405
Oct		del		14 26 55.74	-83 40 4.3	4.31	278.8	K2III	124882	70638	Oct		the		0 1 35.85	-77 3 55.1	4.78	220.8	K2III	224889	122
Oph	Rasalhague	alf	55	17 34 56.0	12 33 38.1	2.08	46.7	A5III	159561	86032	Oph	Sabik	eta	35	17 10 22.66	-15 43 30.5	2.43	84.1	A2.5Va	155125	84012
Oph	Khan	zet	13	16 37 9.53	-10 34 1.7	2.54	458.1	O9.5V	149757	81377	Oph	Yed Prior	del	1	16 14 20.77	-3 41 38.3	2.73	170.2	M1III	146051	79593
Oph	Cebalrai	bet	60	17 43 28.38	4 34 0.9	2.76	82.0	K2III	161096	86742	Oph		kap	27	16 57 40.27	9 22 30.2	3.19	85.9	K2IIIvar	153210	83000
Oph	Yed Posterior	eps	2	16 18 19.24	-4 41 33.4	3.23	107.5	G8III	146791	79882	Oph		the	42	17 22 0.58	-24 59 58.2	3.27	563.3	B2IV	157056	84970
Oph	Sinistra	nu.	64	17 59 1.6	-9 46 24.1	3.32	152.8	K0III	163917	88048	Oph			72	18 7 21.02	9 33 49.2	3.71	82.8	A4IVs	165777	88771
Oph		gam	62	17 47 53.57	2 42 26.9	3.75	94.8	A0V	161868	87108	Oph	Marfic	lam	10	16 30 54.84	1 59 2.8	3.82	166.2	A2V	148857	80883
Ori	Rigel	bet	19	5 14 32.27	-8 12 5.9	0.18	772.9	B8Ia	34085	24436	Ori	Betelgeuse	alf	58	5 55 10.29	7 24 25.3	0.45	427.5	M2Ib	39801	27989
Ori	Bellatrix	gam	24	5 25 7.87	6 20 59.0	1.64	243.0	B2III	35468	25336	Ori	Alnilam	eps	46	5 36 12.81	-1 12 6.9	1.69	1342.2	B0Ia	37128	26311
Ori	Alnitak	zet	50	5 40 45.52	-1 56 33.3	1.74	817.4	O9.5Ib SB	37742	26727	Ori	Saiph	kap	53	5 47 45.39	-9 40 10.6	2.07	721.6	B0.5Iavar	38771	27366
Ori	Mintaka	del	34	5 32 0.4	0 17 56.7	2.25	916.2	O9.5II	36486	25930	Ori	Hatysa	iot	44	5 35 25.98	-5 54 35.6	2.75	1325.9	O9III	37043	26241
Ori	Tabit	pi.3	1	4 49 50.14	6 57 40.5	3.19	26.2	F6V	30652	22449	Ori		eta	28	5 24 28.62	-2 23 49.7	3.35	901.0	B1V+B2	35411	25281
Ori	Meissa	lam	39	5 35 8.28	9 56 3.0	3.39	1055.5	O...	36861	26207	Ori		tau	20	5 17 36.4	-6 50 39.8	3.59	554.7	B5III	34503	24674
Ori		pi.4	3	4 51 12.37	5 36 18.4	3.68	1259.3	B2III SB	30836	22549	Ori		pi.5	8	4 54 15.1	2 26 26.4	3.71	1342.2	B2III SB	31237	22797
Ori		sig	48	5 38 44.77	-2 36 0.2	3.77	1148.5	O9.5V...	37468	26549	Ori		omi2	9	4 56 22.32	13 30 52.5	4.06	169.3	K2III	31421	22957
Pav	Peacock	alf		20 25 38.85	-56 44 5.6	1.94	183.2	B2IV	193924	100751	Pav		bet		20 44 57.56	-66 12 11.7	3.42	137.6	A5IV	197051	102395
Pav		del		20 8 41.86	-66 10 45.6	3.55	19.9	G5IV-Vvar	190248	99240	Pav		eta		17 45 44.0	-64 43 25.4	3.61	371.1	K1III	160635	86929

Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	FI	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
Peg	Enif	eps	8	21 44 11.14	9 52 30.0	2.38	672.5	K2Ibvar	206778	107315	Peg	Scheat	bet	53	23 3 46.33	28 4 56.8	2.44	199.2	M2II-IIIvar	217906	113881
Peg	Markab	alf	54	23 4 45.62	15 12 19.3	2.49	139.6	B9.5III	218045	113963	Peg	Algenib	gam	88	0 13 14.15	15 11 1.0	2.83	333.2	B2IV	886	1067
Peg	Matar	eta	44	22 43 0.13	30 13 16.7	2.93	214.9	G2II-III..	215182	112158	Peg	Homan	zet	42	22 41 27.67	10 49 53.0	3.41	208.5	B8.5V	214923	112029
Peg	Sadalbari	mu.	48	22 50 0.1	24 36 6.1	3.51	116.7	M2III	216131	112748	Peg	Biham	the	26	22 10 11.82	6 11 52.0	3.52	96.6	A2V	210418	109427
Peg		iot	24	22 7 0.47	25 20 42.2	3.77	38.3	F5V	210027	109176	Peg		lam	47	22 46 31.84	23 33 56.4	3.97	394.9	G8II-III	215665	112440
Per	Mirphak	alf	33	3 24 19.35	49 51 40.5	1.79	591.9	F5Ib	20902	15863	Per	Algol	bet	26	3 8 10.13	40 57 20.3	2.09	92.8	B8V	19356	14576
Per		zet	44	3 54 7.92	31 53 1.2	2.84	982.4	B1Ib	24398	18246	Per		eps	45	3 57 51.22	40 0 37.0	2.9	538.2	B0.5V	24760	18532
Per		gam	23	3 4 47.79	53 30 23.2	2.91	256.4	G8III+...	18925	14328	Per		gam	23	3 4 44.1	53 31 10.0	3			18926	
Per		del	39	3 42 55.48	47 47 15.6	3.01	527.8	B5III SB	22928	17358	Per	Gorgonea Tertia	rho	25	3 5 10.5	38 50 25.9	3.32	325.2	M3IIIvar	19058	14354
Per	Miram	eta	15	2 50 41.79	55 53 43.9	3.77	1331.3	K3Ib c. SB	17506	13268	Per		nu.	41	3 45 11.64	42 34 42.8	3.77	556.6	F5IIvar	23230	17529
Per	Misam	kap	27	3 9 29.63	44 51 28.4	3.79	112.3	K0III	19476	14668	Per	Atik	omi	38	3 44 19.13	32 17 17.8	3.84	1475.8	B1III	23180	17448
Phe	Ankaa	alf		0 26 16.87	-42 18 18.4	2.4	77.4	K0III...	2261	2081	Phe		bet		1 6 5.11	-46 43 6.6	3.32	198.2	G8IIvar	6595	5165
Phe		gam		1 28 21.94	-43 19 3.8	3.41	234.0	K5II-III	9053	6867	Phe		eps		0 9 24.54	-45 44 49.2	3.88	140.1	K0III	496	765
Pic		alf		6 48 11.54	-61 56 31.1	3.24	99.0	A7IV	50241	32607	Pic		bet		5 47 17.08	-51 4 0.2	3.85	62.9	A3V	39060	27321
Pic		gam		5 49 49.58	-56 9 59.4	4.5	173.7	K1III	39523	27530	Pic		del		6 10 17.91	-54 58 7.2	4.72	1655.6	B0.5IV	42933	29276
PsA	Fomalhaut	alf	24	22 57 38.83	-29 37 18.6	1.17	25.1	A3V	216956	113368	PsA		eps	18	22 40 39.33	-27 2 37.0	4.18	744.7	B8V	214748	111954
PsA		del	23	22 55 56.89	-32 32 22.9	4.2	170.4	G8III	216763	113246	PsA		bet	17	22 31 30.29	-32 20 45.7	4.29	148.3	A1V	213398	111188
Psc	Alfarg	eta	99	1 31 28.99	15 20 45.0	3.62	294.1	G8III	9270	7097	Psc		gam	6	23 17 9.49	3 16 56.1	3.7	130.9	G7III	219615	114971
Psc	Alresha	alf	113	2 2 2.8	2 45 49.5	3.82	139.1	A2	12446	9487	Psc		ome	28	23 59 18.6	6 51 48.9	4.03	106.0	F4IV	224617	118268
Pup	Naos	zet		8 3 35.07	-40 0 11.5	2.21	1399.8	O5IAf	66811	39429	Pup		pi.		7 17 8.56	-37 5 51.0	2.71	1094.5	K3Ib	56855	35264
Pup		rho	15	8 7 32.7	-24 18 16.0	2.83	62.7	F2mF5IIp	67523	39757	Pup		tau		6 49 56.14	-50 36 51.8	2.94	182.7	K0III...	50310	32768
Pup		nu.		6 37 45.67	-43 11 45.3	3.17	423.0	B8III SB	47670	31685	Pup		sig		7 29 13.88	-43 18 6.8	3.25	183.9	K5III SB	59717	36377
Pup	Azmidiske	ksi	7	7 49 17.66	-24 51 35.2	3.34	1347.8	G6Ia	63700	38170	Pup		c		7 45 15.3	-37 58 7.0	3.62	1387.9	K4III	63032	37819
Pup		a		7 52 13.05	-40 34 32.9	3.71	344.8	G5III...	64440	38414	Pup	Markeb	kap1		7 38 49.88	-26 48 14.0	3.8	454.3	B5IV	61555	37229
Pyx		alf		8 43 35.55	-33 11 11.1	3.68	845.0	B1.5III	74575	42828	Pyx		bet		8 40 6.14	-35 18 29.9	3.97	388.3	G5II/III	74006	42515
Pyx		gam		8 50 32.01	-27 42 36.2	4.02	208.7	K3III	75691	43409	Pyx		kap		9 8 2.86	-25 51 30.7	4.62	487.5	K4/K5III	78541	44824
Ret		alf		4 14 25.43	-62 28 26.3	3.33	163.2	G7III	27256	19780	Ret		bet		3 44 11.55	-64 48 25.5	3.84	99.7	K0IV SB	23817	17440
Ret		eps		4 16 29.08	-59 18 6.3	4.44	59.5	K2IV	27442	19921	Ret		gam		4 0 53.81	-62 9 33.7	4.48	490.5	M4III	25705	18744
ScI		alf		0 58 36.35	-29 21 26.9	4.3	672.5	B7IIIp	5737	4577	ScI		bet		23 32 58.19	-37 49 6.1	4.38	178.4	B9.5IVp	221507	116231
ScI		gam		23 18 49.43	-32 31 54.6	4.41	178.8	K1III	219784	115102	ScI		del		23 48 55.48	-28 7 48.1	4.59	143.5	A0V	223352	117452
ScO	Antares	alf	21	16 29 24.47	-26 25 55.0	1.06	604.0	M1Ib+B2.5V	148478	80763	ScO	Shaula	lam	35	17 33 36.53	-37 6 13.5	1.62	702.9	B1.5IV+...	158926	85927
ScO	Girtab (Sargas)	the		17 37 19.13	-42 59 52.2	1.86	272.0	F1II	159532	86228	ScO		eps	26	16 50 10.24	-34 17 33.4	2.29	65.4	K2IIIb	151680	82396
ScO	Dschubba	del	7	16 0 20.01	-22 37 17.8	2.29	401.7	B0.2IV	143275	78401	ScO		kap		17 42 29.28	-39 1 47.7	2.39	464.0	B1.5III	160578	86670
ScO	Acraab	bet1	8	16 5 26.23	-19 48 19.4	2.56	530.3	B0.5V	144217	78820	ScO	Lesath	ups	34	17 30 45.84	-37 17 44.7	2.7	518.5	B2IV	158408	85696
ScO		tau	23	16 35 52.96	-28 12 57.5	2.82	429.7	B0V	149438	81266	ScO		pi.	6	15 58 51.12	-26 6 50.6	2.89	459.4	B1V+B2V	143018	78265
ScO	Al Niyat	sig	20	16 21 11.32	-25 35 33.9	2.9	734.6	B1III	147165	80112	ScO		iot1		17 47 35.08	-40 7 37.1	2.99	1792.1	F3Ia	161471	87073
ScO		mu.1		16 51 52.24	-38 2 50.4	3	821.6	B1.5IV+B	151890	82514	ScO		G		17 49 51.45	-37 2 36.1	3.19	126.9	K0/K1III	161892	87261
ScO		eta		17 12 9.18	-43 14 18.6	3.32	71.6	F3p	155203	84143	ScO		mu.2		16 52 20.15	-38 1 2.9	3.56	516.9	B2IV	151985	82545
ScO	Grafiar	zet2		16 54 35.11	-42 21 38.7	3.62	150.5	K4III	152334	82729	ScO		rho	5	15 56 53.09	-29 12 50.4	3.87	409.2	B2IV/V	142669	78104
Sct		alf		18 35 12.44	-8 14 35.9	3.85	174.2	K2III	171443	91117	Sct		bet		18 47 10.48	-4 44 52.2	4.22	689.6	G5II...	173764	92175
Sct		zet		18 23 39.55	-8 56 4.2	4.66	191.0	K0III	169156	90135	Sct		gam		18 29 11.85	-14 33 56.9	4.67	291.5	A1IV/V	170296	90595
Ser	Unukalhai	alf	24	15 44 16.0	6 25 31.9	2.63	73.2	K2III	140573	77070	Ser		eta	58	18 21 18.92	-2 53 49.6	3.23	61.8	K0III-IV	168723	89962
Ser		ksi	55	17 37 35.23	-15 23 54.3	3.54	105.5	F0IIIp	159876	86263	Ser		mu.	32	15 49 37.27	-3 25 48.5	3.54	155.8	A0V	141513	77516
Ser		bet	28	15 46 11.21	15 25 18.9	3.65	153.1	A3V	141003	77233	Ser		eps	37	15 50 48.89	4 28 39.3	3.71	70.3	A2m	141795	77622
Ser		del	13	15 34 48.19	10 32 19.9	3.8	209.9	F0IV	138917	76276	Ser		del	13	15 34 48.1	10 32 21.0	3.8			138918	
Ser		gam	41	15 56 26.99	15 39 53.0	3.85	36.3	F6V	142860	78072	Ser		kap	35	15 48 44.41	18 8 30.4	4.09	348.5	M1III	141477	77450
Sex		alf	15	10 7 56.3	0 22 17.9	4.48	287.4	A0III	87887	49641	Sex			2	9 38 27.39	4 38 57.9	4.68	274.1	K3III	83425	47310
Sex		gam	8	9 52 30.47	-8 6 17.7	5.07	261.6	A2V	85558	48437	Sex		bet	30	10 30 17.5	0 38 13.1	5.08	344.8	B6V	90994	51437
Sge		gam	12	19 58 45.39	19 29 31.5	3.51	274.1	K5III	189319	98337	Sge		del	7	19 47 23.27	18 32 3.3	3.68	448.0	M2II+B6	187076	97365
Sge		del	7	19 47 23.1	18 32 1.0	3.8			187077		Sge	Sham	alf	5	19 40 5.78	18 0 50.2	4.39	473.4	G0II	185758	96757

Con	Name	Bay	Fl	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP	Con	Name	Bay	Fl	RAhms	DEdms	Mn	Dist ly	Spectrum	HD	HIP
Sgr	Kaus Australis	eps	20	18 24 10.35	-34 23 3.5	1.79	144.6	B9.5III	169022	90185	Sgr	Nunki	sig	34	18 55 15.92	-26 17 47.7	2.05	224.3	B2.5V	175191	92855
Sgr	Ascella	zet	38	19 2 36.72	-29 52 48.4	2.6	89.1	A3IV	176687	93506	Sgr	Kaus Media	del	19	18 20 59.62	-29 49 40.9	2.72	305.7	K3III	168454	89931
Sgr	Kaus Borealis	lam	22	18 27 58.27	-25 25 16.5	2.82	77.3	K1IIIb	169916	90496	Sgr	Albaldah	pi.	41	19 9 45.83	-21 1 24.7	2.88	440.2	F2II/III	178524	94141
Sgr	Alnasl	gam	10	18 5 48.52	-30 25 25.1	2.98	96.1	K0III	165135	88635	Sgr		eta		18 17 37.73	-36 45 40.6	3.1	149.1	M2III	167618	89642
Sgr		phi	27	18 45 39.35	-26 59 26.8	3.17	230.7	B8.5III	173300	92041	Sgr		tau	40	19 6 56.44	-27 40 11.3	3.32	120.4	K1/K2III	177716	93864
Sgr		ksi2	37	18 57 43.78	-21 6 23.8	3.52	372.3	G8/K0II/III	175775	93085	Sgr	Manubrij	omi	39	19 4 40.93	-21 44 28.9	3.76	138.9	K0III	177241	93683
Sgr	Polis	mu.	13	18 13 45.81	-21 3 31.8	3.84	3600.0	B2III:	166937	89341	Sgr		rho1	44	19 21 40.38	-17 50 50.1	3.92	121.7	F0III/IV	181577	95168
Tau	Aldebaran	alf	87	4 35 55.2	16 30 35.1	0.87	65.1	K5III	29139	21421	Tau	Alnath	bet	112	5 26 17.5	28 36 28.3	1.65	131.0	B7III	35497	25428
Tau	Alcyone	eta	25	3 47 29.06	24 6 18.9	2.85	367.7	B7III	23630	17702	Tau		zet	123	5 37 38.68	21 8 33.3	2.97	417.1	B4IIIp	37202	26451
Tau		the2	78	4 28 39.67	15 52 15.4	3.4	149.0	A7III	28319	20894	Tau		lam	35	4 0 40.82	12 29 25.4	3.41	370.2	B3V+A	25204	18724
Tau	Ain	eps	74	4 28 36.93	19 10 49.9	3.53	155.0	K0III	28305	20889	Tau		omi	1	3 24 48.84	9 1 44.6	3.61	211.5	G8III	21120	15900
Tau	Atlas		27	3 49 9.73	24 3 12.7	3.62	380.6	B8III	23850	17847	Tau	Hyadum I	gam	54	4 19 47.53	15 37 39.7	3.65	154.1	G8III	27371	20205
Tau	Electra		17	3 44 52.52	24 6 48.4	3.72	370.6	B6III	23302	17499	Tau		ksi	2	3 27 10.12	9 43 58.0	3.73	222.2	B9Vn	21364	16083
Tau	Hyadum II	del	61	4 22 56.03	17 32 33.3	3.77	153.2	G8III	27697	20455	Tau		the1	77	4 28 34.43	15 57 44.0	3.84	157.9	G7III	28307	20885
Tau	Maia		20	3 45 49.59	24 22 4.3	3.87	360.0	B8III	23408	17573	Tau		nu.	38	4 3 9.38	5 59 21.5	3.91	129.2	A1V	25490	18907
Tel		alf		18 26 58.43	-45 58 6.0	3.49	249.4	B3IV	169467	90422	Tel		zet		18 28 49.74	-49 4 12.1	4.1	127.4	G8/K0III	169767	90568
Tel		eps		18 11 13.78	-45 57 15.6	4.52	408.7	G5III	166063	89112	Tel		lam		18 58 27.76	-52 56 19.0	4.85	531.2	A0V	175510	93148
TrA	Atria	alf		16 48 39.87	-69 1 39.5	1.91	415.5	K2Ib-IIIa	150798	82273	TrA		bet		15 55 8.81	-63 25 47.1	2.83	40.1	F2III	141891	77952
TrA		gam		15 18 54.69	-68 40 46.1	2.87	182.7	A1V	135382	74946	TrA		del		16 15 26.27	-63 41 8.3	3.86	621.3	G5II	145544	79664
Tri		bet	4	2 9 32.52	34 59 14.6	3	124.3	A5III	13161	10064	Tri	Mothallah	alf	2	1 53 4.9	29 34 45.8	3.42	64.1	F6IV	11443	8796
Tri		gam	9	2 17 18.84	33 50 50.4	4.03	117.6	A1Vnn	14055	10670	Tri		del	8	2 17 2 4.2	34 13 29.4	4.84	35.4	G0V	13974	10644
Tuc		alf		22 18 30.18	-60 15 34.2	2.87	198.6	K3III	211416	110130	Tuc		gam		23 17 25.81	-58 14 9.3	3.99	71.8	F1III	219571	114996
Tuc		zet		0 20 1.91	-64 52 39.4	4.23	28.0	F9V	1581	1599	Tuc		kap		1 15 45.5	-68 52 34.5	4.25	66.6	F6IV	7788	5896
UMa	Alioth	eps	77	12 54 1.63	55 57 35.4	1.76	80.9	A0p	112185	62956	UMa	Dubhe	alf	50	11 3 43.84	61 45 4.0	1.81	123.6	F7V c.	95689	54061
UMa	Alkaid	eta	85	13 47 32.55	49 18 47.9	1.85	100.7	B3V SB	120315	67301	UMa	Mizar	zet	79	13 23 55.42	54 55 31.5	2.23	78.2	A2V	116656	65378
UMa	Merak	bet	48	11 1 50.39	56 22 56.4	2.34	79.4	A1V	95418	53910	UMa	Phecda	gam	64	11 53 49.74	53 41 41.0	2.41	83.7	A0V SB	103287	58001
UMa		psi	52	11 9 39.86	44 29 54.8	3	146.9	K1III	96833	54539	UMa	Tania Australis	mu.	34	10 22 19.8	41 29 58.0	3.06	248.8	M0III SB	89758	50801
UMa	Talitha	iot	9	8 59 12.84	48 2 32.5	3.12	47.7	A7IV	76644	44127	UMa		the	25	9 32 52.33	51 40 43.0	3.17	44.0	F6IV	82328	46853
UMa	Megrez	del	69	12 15 25.45	57 1 57.4	3.32	81.4	A3Vvar	106591	59774	UMa	Muscida	omi	1	8 30 16.03	60 43 6.4	3.35	183.6	G4II-III	71369	41704
UMa	Tania Borealis	lam	33	10 17 5.93	42 54 52.1	3.45	134.4	A2IV	89021	50372	UMa	Alula Borealis	nu.	54	11 18 28.76	33 5 39.3	3.49	421.4	K3III SB	98262	55219
UMa		kap	12	9 3 37.56	47 9 24.0	3.57	423.0	A1Vn	77327	44471	UMa		h	23	9 31 31.57	63 3 42.5	3.65	75.5	F0IV	81937	46733
UMa	Alkaphrah	chi	63	11 46 3.13	47 46 45.6	3.69	196.0	K0III	102224	57399	UMa		ups	29	9 50 59.69	59 2 20.8	3.78	115.0	F0IV	84999	48319
UMa	Alula Australis	ksi	53	11 18 11.24	31 31 50.8	3.79	7.0	G0V	98230	55203	UMa	Mitsar	zet	79	13 23 56.4	54 55 18.0	3.95			116657	
UMi	Polaris	alf	1	2 31 47.08	89 15 50.9	1.97	431.4	F7:Ib-IIv SB	8890	11767	UMi	Kochab	bet	7	14 50 42.4	74 9 19.7	2.07	126.5	K4IIIvar	131873	72607
UMi	Pherkad	gam	13	15 20 43.75	71 50 2.3	3	480.4	A3II-III	137422	75097	UMi		eps	22	16 45 58.16	82 2 14.1	4.21	346.6	G5IIIvar	153751	82080
Vel	Regor	gam2		8 9 31.96	-47 20 11.8	1.75	840.6	WC8+O9I	68273	39953	Vel		del		8 44 42.2	-54 42 30.8	1.93	79.7	A1V	74956	42913
Vel	Suhail	lam		9 7 59.78	-43 25 57.4	2.23	573.2	K4Ib-II	78647	44816	Vel		kap		9 22 6.83	-55 0 38.5	2.47	539.1	B2IV	81188	45941
Vel		mu.		10 46 46.12	-49 25 12.5	2.69	115.7	G5III SB	93497	52727	Vel		N		9 31 13.35	-57 2 3.8	1.16	237.7	K5III	82668	46701
Vel		phi		9 56 51.75	-54 34 4.1	3.52	1929.9	B5Ib	86440	48774	Vel		psi		9 30 42.11	-40 28 0.8	3.6	60.5	F2IV	82434	46651
Vel		omi		8 40 17.61	-52 55 19.1	3.6	494.9	B3IV	74195	42536	Vel		c		9 4 9.32	-47 5 51.8	3.75	309.2	K2III	78004	44511
Vel		b		8 40 37.58	-46 38 55.5	3.77	3106.3	F3Ia	74180	42570	Vel		p		10 37 18.26	-48 13 32.2	3.84	86.5	A3m+...	92139	51986
Vel		q		10 14 44.27	-42 7 19.4	3.85	102.8	A2V	88955	50191	Vel		a		8 46 1.65	-46 2 29.5	3.87	1553.1	A1III	75063	43023
Vir	Spica	alf	67	13 25 11.6	-11 9 40.5	0.98	262.2	B1V	116658	65474	Vir	Porrima	gam	29	12 41 40.0	-1 26 58.3	2.74	38.6	F0V+...	110379	61941
Vir	Vindemiatrix	eps	47	13 2 10.76	10 57 32.8	2.85	102.2	G8IIIvar	113226	63608	Vir	Kheze	zet	79	13 34 41.75	0 35 45.4	3.38	73.2	A3V	118098	66249
Vir	Minelauva	del	43	12 55 36.48	3 23 51.4	3.39	202.5	M3III	112300	63090	Vir	Zavijava	bet	5	11 50 41.29	1 45 55.4	3.59	35.6	F8V	102870	57757
Vir	Porrima	gam	29	12 41 39.6	-1 26 58.0	3.68			110380		Vir			109	14 46 14.99	1 53 34.6	3.73	128.7	A0V	130109	72220
Vir	Rijl al Awwa	mu.	107	14 43 3.56	-5 39 26.7	3.87	60.9	F2III	129502	71957	Vir	Zaniah	eta	15	12 19 54.39	0 40 0.3	3.89	249.7	A2IV	107259	60129
Vol		bet		8 25 44.25	-66 8 11.5	3.77	108.0	K2IIIvar	71878	41312	Vol		gam2		7 8 44.82	-70 29 57.1	3.78	141.7	G8IIIvar	55865	34481
Vol		zet		7 41 49.2	-72 36 22.1	3.93	133.9	K0III	63295	37504	Vol		del		7 16 49.83	-67 57 25.8	3.97	660.2	F6II	57623	35228
Vul	Anser	alf	6	19 28 42.41	24 39 54.6	4.44	296.5	M0 comp	183439	95771	Vul			23	20 15 46.16	27 48 51.2	4.5	328.1	K3III	192806	99874
Vul			31	20 52 7.73	27 5 49.7	4.56	216.6	G8III	198809	103004	Vul			13	19 53 27.68	24 4 46.3	4.57	359.2	B9.5III	188260	97886