Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.

CHART 1

1	52626	And	**Σ 2973**	LN And		6.41	10.14	7.4"	7.4"	39°	41°	2003	1831	B2V	23h02m45.2s	+44°03'31"	1
1	52912	And	**OΣ 244**		AB	6.41	10.15	97.8"	78.9"	295°	305°	2002	1875	K1III	23h19m41.6s	+48°22'52"	1
1	52912	And			AC	6.41	11.4	134.3"	136.4"	105°	104°	1925	1910	K1III	23h19m41.6s	+48°22'52"	1
1	52927	And	**Σ 3004**			6.26	10.13	13.5"	13.1"	177°	178°	2003	1833	A5Vn	23h20m44.1s	+44°06'58"	1
1	53202	And	**OΣ 500**		AB	6.08	7.38	0.5"	0.3"	9°	273°	2005	1843	B8V	23h37m32.1s	+44°25'44"	1
1	53202	And			AB-C	6.08	10.95	117.9"	116.6"	334°	335°	1998	1894		23h37m32.1s	+44°25'44"	1
1	53225	And	**β 722**		AD	6.8	10.9	47.2"	44.6"	248°	247°	1998	1894		23h38m26.5s	+42°30'41"	1
1	53355	And	**ψ And**	β 1532	Aa-D	5.09	9.46	186.6"	184"	153°	152°	2002	1879	K0	23h46m02.1s	+46°25'13"	1
1	53374	And	**β 995**			6.11	8.73	0.8"	0.9"	246°	244°	1999	1879	B3IV	23h47m33.1s	+46°49'57"	1
1	5006	Cam	**γ Cam**	HJ 2200	AC	4.61	9.07	106.1"	106.1"	86°	84°	1999	1892		03h50m21.5s	+71°19'56"	1
1	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	1
1	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	1
1	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	1
1	5861	Cam	**OΣ 136**			6	11	5"	5.5"	82°	80°	1999	1847	A4V	06h28m14.5s	+70°32'07"	1
1	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	1
1	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	1
1	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	1
1	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	1
1	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	1
1	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	1
1	35092	Cas	**HDS 3280**		AB	6.51	10.15	18.7"	21.6"	48°	54°	2003	1843	B9III	23h02m43.9s	+55°14'11"	1
1	35092	Cas		OΣ 485	AC	6.51	10.48	56.2"	45"	80°	82°	1998	1843		23h02m43.9s	+55°14'11"	1
1	35092	Cas		OΣ 485	Aa	6.51	10.52	0.7"		140°		1991		B9III	23h02m43.9s	+55°14'11"	1
1	35186	Cas	**2 Cas**	S 823	AC	5.72	8.16	167.9"	167.2"	163°	163°	2001	1824		23h09m44.1s	+59°19'58"	1
1	35186	Cas		S 823	AD	5.72	11.02	162.6"	162.7"	276°	276°	1998	1899		23h09m44.1s	+59°19'58"	1
1	20572	Cas	**β 278**		AB	6.39	11.6	12.7"		175°		1890		K2III	23h20m34.5s	+62°12'48"	1
1	20572	Cas			AC	6.39	11.3	58.5"		259°		1913			23h20m34.5s	+62°12'48"	1
1	20572	Cas			AD	6.39	11.3	74.4"		185°		1913			23h20m34.5s	+62°12'48"	1
1	20614	Cas	**4 Cas**	H 4 24	AB	4.98	7.8	98.6"		226°		1879		M1III	23h24m50.3s	+62°16'58"	1
1	35478	Cas	**OΣ 496**	AR Cas	AC	4.87	7.23	76"	75.8"	268°	270°	2004	1800		23h30m01.9s	+58°32'56"	1
1	35478	Cas		SHJ 355	AB	4.87	9.3	0.9"	1.5"	335°	337°	1970	1851	B3IV	23h30m01.9s	+58°32'56"	1
1	35478	Cas		HJ 1888	AE	4.87	11.28	42.4"	43.3"	115°		1930	1870	B3IV	23h30m01.9s	+58°32'56"	1
1	35478	Cas		HJ 1888	AF	4.87	10.59	67"	67.3"	339°	338°	1991	1870		23h30m01.9s	+58°32'56"	1
1	35478	Cas		DA 2	CD	7.23	9.06	1.4"	1.5"	214°	222°	2005	1841	A1V	23h30m01.9s	+58°32'56"	1
1	20745	Cas	**HJ 1896**			6.59	11.1	16.6"	16.3"	116°	116°	1912	1902	A5III	23h38m49.1s	+62°08'06"	1
1	20791	Cas	**β 993**			6.6	10.8	2.6"	2.7"	276°	280°	1974	1880	M2III	23h42m21.0s	+64°30'55"	1
1	20866	Cas	**OΣ 507**		AB	6.76	7.76	0.7"	0.4"	315°	218°	2005	1843	A0p	23h48m39.1s	+64°52'35"	1
1	20866	Cas			AC	6.48	8.44	50"	48.8"	350°	354°	2003	1847		23h48m39.1s	+64°52'35"	1
1	20869	Cas	**6 Cas**	OΣ 508	AB	5.66	7.95	1.4"	1.1"	197°	195°	1994	1843	A3Ia	23h48m50.2s	+62°12'52"	1
1	20869	Cas		OΣ 508	AC	5.66	10.19	62.3"	62.2"	309°	309°	1999	1904		23h48m50.2s	+62°12'52"	1
1	20915	Cas	**OΣ 511**		AD	6.89	10.34	68.3"	69.2"	130°	130°	1999	1903		23h53m04.8s	+60°42'16"	1
1	20915	Cas			AB	6.89	10.58	10.3"	10.3"	34°	35°	2003	1848	K5	23h53m04.8s	+60°42'16"	1
1	35869	Cas	**OΣ 251**		AB	6.89	9.14	46.9"	42.4"	207°	197°	2003	1875	K0	23h53m34.3s	+51°31'21"	1
1	35869	Cas			Ac	6.89	11.8	50.1"		129°		2003	1875	K0	23h53m34.3s	+51°31'21"	1
1	20954	Cas	**OΣ 512**		AB	6.85	9.72	2.7"	5.4"	305°	269°	1991	1843	M2.5III	23h57m19.5s	+61°01'34"	1
1	35947	Cas	**σ Cas**	Σ 3049	AB	4.99	7.24	3.2"	2.5"	327°	331°	2004	1780	B1V	23h59m00.5s	+55°45'18"	1
1	35947	Cas		Σ 3049	AC	4.99	10.37	106.7"	109.9"	66°	67°	2001	1879		23h59m00.5s	+55°45'18"	1
1	10937	Cas	**Σ 3053**		AB	5.96	7.17	15.4"	15.2"	70°	70°	2006	1832	G9III A1V	00h02m36.1s	+66°05'56"	1
1	10937	Cas			AC	5.96	10.99	98.5"	97.6"	290°	290°	1999	1893		00h02m36.1s	+66°05'56"	1
1	21062	Cas	**Σ 3057**			6.7	9.3	3.8"	4.8"	299°	301°	2002	1830	B3V	00h04m55.0s	+58°31'56"	1
1	21085	Cas	**Σ 3062**			6.42	7.32	1.5"	1.3"	342°	37°	2006	1823	G3V	00h06m15.9s	+58°26'12"	1
1	21395	Cas	**OΣ 9**		AB	6.87	9.67	2"	1.3"	51°	53°	2002	1845	G3III	00h26m12.0s	+56°46'45"	1
1	21395	Cas			AC	6.87	9.9	22.4"	23"	3°	102°	2003	1897	G3III	00h26m12.0s	+56°46'45"	1
1	4176	Cas	**OΣ 5**			6.86	8.78	117.8"	115.5"	142°	144°	1999	1875	K0	00h39m59.5s	+76°52'16"	1
1	4216	Cas	**21 Cas**	H N 122		5.66	10.57	35.9"	36.6"	160°	160°	1999	1896	A2IV	00h45m39.1s	+74°59'17"	1
1	11712	Cas	**35 Cas**	S 397		6.34	8.63	57"	42.6"	342°	355°	2001	1782	A2Vnn	01h21m05.3s	+64°39'29"	1
1	11751	Cas	**ψ Cas**	H 5 83	AC	4.68	9.18	22.1"	33.4"	123°	100°	1998	1783		01h25m56.0s	+68°07'48"	1
1	11751	Cas		β 1101	AD	4.68	10	22.4"	26.5"	120°	107°	1983	1894		01h25m56.0s	+68°07'48"	1
1	4512	Cas	**Σ 170**			7.49	8.24	3.2"	3.2"	244°	247°	1998	1830	A5	01h55m27.3s	+76°13'28"	1

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
1	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	1
1	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	1
1	32812	Cep	**β 152**			7.21	8.8	1.1"	0.4"	83°	130°	2005	1873	A4IV	20h42m16.8s	+57°23'07"	1
1	32922	Cep	**OΣ 211**			6.85	7.88	95.8"	115.2"	268°	262°	2005	1875	B9	20h49m19.0s	+58°44'55"	1
1	33078	Cep	**Σ 2751**			6.23	6.89	1.6"	2.4"	355°	346°	2006	1828	B8III	21h02m09.0s	+56°40'11"	1
1	33210	Cep	**Σ 2780**		Aa-B	6.5	6.77	1"	1.1"	213°	228°	2006	1830		21h11m48.2s	+59°59'12"	1
1	33210	Cep			Aa-C	6.09	8.9	120.5"	119.9"	211°	212°	2001	1878		21h11m48.2s	+59°59'12"	1
1	19309	Cep	**ES 137**		AB	6.7	10.3	45"	45.3"	74°	75°	2003	1902	B2V	21h19m07.4s	+61°51'30"	1
1	33318	Cep	**Σ 2790**		Aa-B	5.85	9.27	4.6"	3"	45°	35°	2002	1831		21h19m15.7s	+58°37'25"	1
1	33318	Cep			Aa-D	5.85	10.07	75.1"	74.5"	352°	351°	2004	1880		21h19m15.7s	+58°37'25"	1
1	33443	Cep	**OΣ 440**			6.34	10.42	8.9"	12.4"	175°	189°	1996	1848	M3III	21h27m25.3s	+59°45'00"	1
1	10057	Cep	**β Cep**	Σ 2806	Aa-B	3.17	8.63	13.2"	13.4"	248°	255°	1999	1781		21h28m39.6s	+70°33'39"	1
1	19510	Cep	**Σ 57**		AB	7.07	7.18	182.6"	179"	26°	26°	1999	1836	K1III	21h34m25.8s	+66°43'35"	1
1	19510	Cep			Aa	7	11	126"	123.1"	346°	345°	1999	1893		21h34m25.8s	+66°43'35"	1
1	33626	Cep	**Σ 2816**		AC	5.73	7.48	11.8"	11.6"	120°	125°	2006	1783		21h38m57.6s	+57°29'20"	1
1	33626	Cep			AD	5.73	7.53	20.5"	18.6"	338°	344°	2006	1783		21h38m57.6s	+57°29'20"	1
1	19621	Cep	**MLR 16**			6	9.5	17.6"	17"	33°	33°	2003	1969	O9IIe	21h44m53.3s	+62°27'38"	1
1	19665	Cep	**Σ 2836**		AB	6.53	10.36	11.8"	11.9"	154°	153°	2003	1832	F4V	21h49m08.1s	+66°47'31"	1
1	19686	Cep	**Σ 2843**		AB	7.01	7.28	1.3"	2.1"	149°	137°	2005	1828	A1m	21h51m37.2s	+65°45'10"	1
1	19686	Cep			AC	7.01	11.01	55.1"	55.7"	277°	275°	1999	1895		21h51m37.2s	+65°45'10"	1
1	19687	Cep	**Σ 2844**			6.95	9.98	12.4"	11.6"	262°	259°	2006	1895	K0	21h51m48.3s	+64°54'00"	1
1	33819	Cep	**Σ 2840**		AB	5.64	6.42	18.2"	21.2"	196°	192°	2006	1782	B6IV-V	21h52m01.1s	+55°47'48"	1
1	19742	Cep	**OΣ 457**			6.01	8.17	1.1"	1.1"	245°	243°	1994	1847	B2.5Ve	21h55m31.0s	+65°19'15"	1
1	33894	Cep	**OΣ 458**		AB	7.2	8.41	0.9"	0.7"	351°	350°	2005	1846	A0V	21h56m27.3s	+59°47'42"	1
1	19792	Cep	**KUI 110**			6.73	10.02	0.8"	0.6"	225°	220°	1995	1937	B0IV	22h00m39.3s	+62°29'16"	1
1	19827	Cep	**ξ-2 Cep**	Σ 2863	Aa-B	4.45	6.4	7.9"	5"	275°	290°	2005	1779		22h03m47.5s	+64°37'41"	1
1	34016	Cep	**OΣ 461**		AD	6.73	7.84	184.7"	183.4"	73°	73°	2001	1876	B9Vn	22h03m53.9s	+59°48'52"	1
1	34016	Cep			AC	6.73	10.03	88.9"	89.2"	41°	38°	2003	1863	B1V K0II	22h03m53.9s	+59°48'52"	1
1	34016	Cep			AE	6.73	6.96	237"	236.7"	38°	38°	2001	1876	B9III	22h03m53.9s	+59°48'52"	1
1	34016	Cep			CE	6.96	10.03	147.6"	146.5"	36°	37°	2000	1876		22h03m53.9s	+59°48'52"	1
1	34016	Cep			DE	6.96	7.84	136.3"	136.1"	347°	167°	2001	1876	A	22h03m53.9s	+59°48'52"	1
1	34016	Cep			EF	6.96	8.14	193.6"	192.4"	34°	34°	2001	1876		22h03m53.9s	+59°48'52"	1
1	19849	Cep	**19 Cep**	β 697	AC	5.11	10.79	56.4"	60.4"	275°	271°	1999	1913		22h05m08.8s	+62°16'47"	1
1	19849	Cep		β 697	AB	5.11	11.2	19.8"		94°		1878		O9Ib	22h05m08.8s	+62°16'47"	1
1	19922	Cep	**Σ 2883**			5.56	8.56	15.6"	14.8"	253°	255°	2006	1823	F2V	22h10m38.8s	+70°07'57"	1
1	10284	Cep	**Σ 2893**			6.19	7.91	29.5"	29"	346°	349°	2006	1830		22h12m52.8s	+73°18'26"	1
1	34508	Cep	**δ Cep**	Σ 58	AC	4.21	6.11	40.6"	41.7"	191°	195°	2004	1800	B7V	22h29m10.3s	+58°24'55"	1
1	20150	Cep	**Σ 2924**		AB	6.28	7.82	0.1"	0.8"	143°	257°	2003	1831	A9III	22h33m03.0s	+69°54'49"	1
1	20150	Cep			AB-C	6	10.5	123.6"	114.4"	196°	193°	1999	1910		22h33m03.0s	+69°54'49"	1
1	20150	Cep			AB-D	6	10.2	187.3"	178.3"	197°	195°	1999	1910		22h33m03.0s	+69°54'49"	1
1	10418	Cep	**Σ 2923**		AB	6.32	9.24	9.7"	12"	45°	47°	2006	1831	A0V	22h33m16.8s	+70°22'25"	1
1	10418	Cep			AC	6.32	11.3	97"		146°		1911		A0V	22h33m16.8s	+70°22'25"	1
1	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	1
1	20281	Cep	**Σ 2950**		AB	6.03	7.08	1.2"	5.5"	279°	223°	2006	1828		22h51m22.7s	+61°41'49"	1
1	20281	Cep			AC	5.8	11.05	38.8"	38.4"	354°	356°	1997	1905		22h51m22.7s	+61°41'49"	1
1	20295	Cep	**OΣ 238**		AB	7.02	7.58	69.2"	61.9"	280°	278°	1999	1783	F2	22h52m42.3s	+67°59'25"	1
1	20393	Cep	**OΣ 486**			6.72	9.49	36.2"	33.8"	276°	277°	2006	1845	B2V	23h03m23.7s	+60°26'43"	1
1	20424	Cep	**Σ 2977**			6.8	10.33	1.9"	2.2"	354°	335°	1991	1833	F5V	23h06m28.6s	+61°26'24"	1
1	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	1
1	20554	Cep	**o Cep**	Σ 3001	AB	4.97	7.28	3.3"	2.4"	221°	175°	2005	1832	G8III	23h18m37.5s	+68°06'41"	1
1	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	1
1	20756	Cep	**OΣ 502**			6.89	10.64	3.7"	3.5"	227°	223°	1991	1848	A3V	23h39m52.9s	+63°43'32"	1
1	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	1
1	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	1
1	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	1
1	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	1
1	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	1
1	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	1
1	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	1
1	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	1
1	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	1
1	32093	Cyg	**OΣ 194**			6.06	9.11	68.1"	75.3"	356°	0°	2006	1875	A3V	19h53m35.4s	+59°42'32"	1
1	32114	Cyg	**ψ Cyg**	Σ 2605	AB	5.03	7.52	3.1"	4"	174°	181°	2006	1779	A4Vn	19h55m37.8s	+52°26'20"	1

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
1	32114	Cyg		Σ 2605	AD	5.03	10.2	165.4"	163.2"	61°	62°	1908	1880	A4Vn	19h55m37.8s	+52°26'20"	1
1	32809	Cyg	**51 Cyg**	β 675	AC	5.38	10.64	72.1"	71.2"	240°	240°	1999	1899		20h 42.2min	+50° 20'	1
1	49098	Cyg	**26 Cyg**	H 5 47	AB	5.17	8.94	41.5"	41.3"	150°	146°	2005	1875	K1II-III	20h01m36s	+50 07'17"	1
1	32286	Cyg	**ENG 70**			5.86	9.79	168.9"	171.8"	136°	123°	2002	1893	F5V	20h06m13.9s	+53°09'58"	1
1	32354	Cyg	**AC 17**		AB	6.17	10.55	4.3"	3.9"	82°	80°	1991	1859	K2.5III	20h12m31.7s	+51°27'49"	1
1	32354	Cyg			AE	6.17	10.78	130.3"	131.2"	148°	150°	2000	1897		20h12m31.7s	+51°27'49"	1
1	32455	Cyg	**Σ 2671**		AB	6.01	7.51	3.7"	3"	337°	341°	2006	1831	A2Vs	20h18m24.7s	+55°23'49"	1
1	32590	Cyg	**Σ 2687**			6.37	8.31	27"	26.2"	117°	119°	2006	1831	B9V	20h26m23.5s	+56°38'19"	1
1	32627	Cyg	**KUI 97**			5.96	8.84	0.8"	0.5"	132°	150°	1995	1937	B9Vne	20h29m27.1s	+56°04'06"	1
1	32908	Cyg	**Σ 2732**			6.38	8.63	4.3"	4.4"	73°	75°	2003	1825	B8np	20h48m42.7s	+51°54'37"	1
1	50116	Cyg	**ES 94**		AB	6.78	10.45	102.7"	101.2"	16°	13°	2002	1899	M3II-III	20h49m37.7s	+50°07'38"	1
1	32933	Cyg	**β 155**		AB	7.36	8.13	0.7"	0.6"	38°	40°	2005	1873	A9IV	20h51m05.5s	+51°25'02"	1
1	32933	Cyg			AD	6.8	10.9	192.5"	199.8"	48°	48°	1999	1880		20h51m05.5s	+51°25'02"	1
1	33034	Cyg	**Σ 2741**		AB	5.94	6.79	2"	1.2"	26°	44°	2006	1783	B5Vn	20h58m30.0s	+50°27'42"	1
1	33034	Cyg			AC	5.5	10.5	138.1"	139.4"	355°	356°	1999	1879		20h58m30.0s	+50°27'42"	1
1	50359	Cyg	**60 Cyg**	OΣ 426		5.4	9.53	2.9"	2.6"	161°	166°	1991	1848	B1Ve	21h01m10.9s	+46°09'21"	1
1	50368	Cyg	**HO 600**			6.7	10.9	1.9"	2"	96°	80°	1970	1896	Am	21h01m47.5s	+44°11'12"	1
1	50390	Cyg	**β 1138**		AC	6.46	7.82	153.1"	168.7"	330°	313°	2002	1892	B8	21h02m48.6s	+45°50'56"	1
1	50536	Cyg	**OΣ 215**		CD	7.25	7.46	1.5"	0.3"	180°	256°	2006	1843	A9IV	21h10m31.0s	+47°41'32"	1
1	50536	Cyg		OΣ 215	AC	6.55	7.52	135.7"	134.1"	189°	190°	1999	1875		21h10m31.0s	+47°41'32"	1
1	50536	Cyg		β 159	AB	6.55	9.07	1.2"	1.2"	313°	330°	2003	1873	B6IV	21h10m31.0s	+47°41'32"	1
1	33323	Cyg	**S 786**			6.94	9.16	47.1"	48.5"	300°	301°	2003	1824	K2	21h19m40.8s	+53°03'29"	1
1	51167	Cyg	**75 Cyg**	AC 20	AB	5.1	9.8	2.8"	2.9"	326°	323°	1975	1860	M2III	21h40m11.1s	+43°16'26"	1
1	51167	Cyg		OΣ 221	AC	5.28	10.26	62.2"	54.4"	253°	255°	2003	1875		21h40m11.1s	+43°16'26"	1
1	33835	Cyg	**HDS 3115**			6.66	10.48	1.4"	1.4"	75°	75°	1991	1991	A2	21h53m19.8s	+53°59'50"	1
1	16018	Dra	**Σ 25**		AB	6.64	7.08	179"	178.7"	296°	297°	1999	1835		13h13m28.0s	+67°17'17"	1
1	16018	Dra			AC	6.64	8.89	105.9"	122.1"	224°	232°	1999	1859		13h13m28.0s	+67°17'17"	1
1	16018	Dra			BC	7.08	8.89	176.6"	167.8"	150°	337°	1999	1859	K2III	13h13m28.0s	+67°17'17"	1
1	16197	Dra	**OΣ 127**		AB	6.53	8.32	85.8"	71.2"	63°	68°	1999	1844	K2IV	13h50m59.1s	+68°18'55"	1
1	8890	Dra	**ψ Dra**	Σ 2241	AB	4.6	5.59	30.7"	32"	16°	14°	2006	1800	F5IV F8V	17h41m56.4s	+72°08'54"	1
1	8890	Dra		Σ 2241	AC	4.6	11.4	89.7"	101.5"	120°	128°	1923	1857	F5IV F8V	17h41m56.4s	+72°08'54"	1
1	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	1
1	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	1
1	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	1
1	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	1
1	17912	Dra	**KUI 86**			6.64	10.47	23.4"	30.5"	42°	31°	2003	1895	A8m	18h31m14.9s	+65°26'10"	1
1	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	1
1	18082	Dra	**Σ 2440**		AB	6.59	9.61	18"	16.5"	122°	126°	2006	1831	G8III	18h57m17.3s	+62°23'48"	1
1	18082	Dra			AC	6.59	10.92	161"	160"	60°	62°	1999	1880	G8III	18h57m17.3s	+62°23'48"	1
1	31337	Dra	**Σ 2450**		A-BC	6.5	9.51	5.2"	4.9"	299°	305°	2005	1833	G8III	19h02m07.0s	+52°15'40"	1
1	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	1
1	18257	Dra	**Σ 2509**			7.44	8.17	1.8"	0.5"	329°	351°	2005	1831	F6V	19h16m53.1s	+63°12'27"	1
1	18287	Dra	**BUP 188**			6.52	9.8	115.2"	111.8"	180°	181°	2005	1892	B9pHgMn	19h19m46.1s	+64°23'27"	1
1	18395	Dra	**Σ 44**			6.47	8.19	75.5"	76.6"	288°	287°	2005	1834	K4III	19h33m10.1s	+60°09'31"	1
1	9467	Dra	**KU 2**			6.92	8.78	0.6"	1.4"	232°	270°	2000	1889	F5V	19h34m24.9s	+71°36'19"	1
1	18461	Dra	**Σ 2573**			6.51	8.91	18.4"	20"	25°	28°	2006	1831	A5V	19h40m13.2s	+60°30'26"	1
1	9540	Dra	**ε Dra**	Σ 2603		4.01	6.87	3.2"	2.5"	19°	333°	2005	1781	G7IIIb	19h48m10.4s	+70°16'05"	1
1	18575	Dra	**Σ 2604**			6.89	9.02	28.3"	27.8"	183°	185°	2006	1831	G5	19h52m47.7s	+64°10'34"	1
1	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	1
1	18669	Dra	**65 Dra**	OΣ 200	AB	6.36	8.06	98.6"	96.7"	333°	338°	1999	1875	G7III	20h02m20.2s	+64°38'04"	1
1	18669	Dra		OΣ 200	Aa	6.36	11.9	32.2"	26.7"	191°	192°	1960	1905	G7III	20h02m20.2s	+64°38'04"	1
1	18692	Dra	**Σ 2640**		AB	6.29	9.54	5.5"	4.9"	17°	27°	2005	1832	A2II-III	20h04m44.5s	+63°53'25"	1
1	18692	Dra			AC	6.3	11.4	153.7"		81°		1880		A2II-III	20h04m44.5s	+63°53'25"	1
1	18722	Dra	**Σ 2650**			6.97	10.81	21.7"	21.2"	227°	228°	2003	1893	A1V	20h07m00.0s	+66°18'29"	1
1	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	1
1	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	1
1	51698	Lac	**HJ 1735**		AB	6.73	9.69	27.6"	27.1"	110°	110°	2006	1901	B9IV	22h09m15.2s	+44°50'47"	1
1	34519	Lac	**LEO 53**			6.51	11.5	13.9"		312°		1928			22h29m53.5s	+52°25'00"	1
1	52073	Lac	**FRK 11**	V350 Lac		6.55	10.74	66.4"	64.4"	91°	93°	1998	1902	K2III	22h30m06.5s	+49°21'23"	1
1	34818	Lac	**HDS 3235**			6.95	10.48	0.7"	0.7"	173°	173°	1991	1991	A2	22h47m18.9s	+53°22'54"	1
1	52465	Lac	**HJ 1828**		AB-C	5.81	10.7	29.4"	20"	0°	350°	1998	1874		22h53m40.2s	+44°44'57"	1
1	52465	Lac		β 382	AB	5.97	7.79	0.8"	1"	227°	225°	2005	1874	A3m+F6V	22h53m40.2s	+44°44'57"	1

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
1	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	1
1	7741	UMi	**β 799**		AB	6.6	8.45	1.3"	0.6"	265°	239°	2004	1881	A7IV	13h04m49.7s	+73°01'30"	1
1	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	1
1	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	1
1	16342	UMi	**Σ 1840**		AB	6.95	10.05	27.1"	26.2"	221°	223°	2003	1830	B9V	14h19m54.9s	+67°46'57"	1
1	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	1
1	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	1
1	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	1
1	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	1
1	8415	UMi	**OΣ 143**		AB	6.87	8.78	46.9"	46.9"	83°	84°	1999	1875	A0	16h04m49.0s	+70°15'42"	1
1	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	1
1	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	1

CHART 2

2	5006	Cam	**γ Cam**	HJ 2200	AC	4.61	9.07	106.1"	106.1"	86°	84°	1999	1892		03h50m21.5s	+71°19'56"	2
2	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	2
2	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	2
2	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	2
2	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	2
2	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	2
2	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	2
2	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	2
2	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	2
2	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	2
2	4176	Cas	**OΣ 5**			6.86	8.78	117.8"	115.5"	142°	144°	1999	1875	K0	00h39m59.5s	+76°52'16"	2
2	4216	Cas	**21 Cas**	H N 122		5.66	10.57	35.9"	36.6"	160°	160°	1999	1896	A2IV	00h45m39.1s	+74°59'17"	2
2	4512	Cas	**Σ 170**			7.49	8.24	3.2"	3.2"	244°	247°	1998	1830	A5	01h55m27.3s	+76°13'28"	2
2	4554	Cas	**48 Cas**	β 513	AB	4.65	6.74	0.8"	1"	267°	264°	2000	1878	A3V	02h01m57.4s	+70°54'25"	2
2	4550	Cas	**Σ 185**		AB	6.77	8.58	1.1"	1.5"	8°	32°	2003	1831	A0	02h02m09.3s	+75°30'08"	2
2	4550	Cas			AC	6.77	8.94	120.7"	115.9"	170°	175°	1999	1894		02h02m09.3s	+75°30'08"	2
2	4559	Cas	**Σ 191**			6.2	9.1	5.1"	5.6"	195°	191°	2006	1832	A5III	02h03m10.4s	+73°51'02"	2
2	12298	Cas	**ι Cas**	Σ 262	Aa-B	4.63	6.92	2.9"	1.5"	230°	290°	2004	1782	A5pSr	02h29m03.9s	+67°24'09"	2
2	12298	Cas		Σ 262	Aa-C	4.63	9.05	8.9"	7.5"	99°	101°	2006	1779	A5	02h29m03.9s	+67°24'09"	2
2	12298	Cas		Σ 262	Aa-D	4.63	8.48	210.6"	209"	60°	58°	1991	1892		02h29m03.9s	+67°24'09"	2
2	12298	Cas		Σ 262	CD	6.92	8.48	213.5"	205.7"	60°	57°	1991	1880		02h29m03.9s	+67°24'09"	2
2	4858	Cas	**HJ 2173**			6.8	10.7	43.8"	25"	163°	164°	1999	1831	K0	03h15m07.5s	+73°52'05"	2
2	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	2
2	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	2
2	10057	Cep	**β Cep**	Σ 2806	Aa-B	3.17	8.63	13.2"	13.4"	248°	255°	1999	1781		21h28m39.6s	+70°33'39"	2
2	19510	Cep	**Σ 57**		AB	7.07	7.18	182.6"	179"	26°	26°	1999	1836	K1III	21h34m25.8s	+66°43'35"	2
2	19510	Cep			Aa	7	11	126"	123.1"	346°	345°	1999	1893		21h34m25.8s	+66°43'35"	2
2	19665	Cep	**Σ 2836**		AB	6.53	10.36	11.8"	11.9"	154°	153°	2003	1832	F4V	21h49m08.1s	+66°47'31"	2
2	19922	Cep	**Σ 2883**			5.56	8.56	15.6"	14.8"	253°	255°	2006	1823	F2V	22h10m38.8s	+70°07'57"	2
2	10284	Cep	**Σ 2893**			6.19	7.91	29.5"	29"	346°	349°	2006	1830		22h12m52.8s	+73°18'26"	2
2	20150	Cep	**Σ 2924**		AB	6.28	7.82	0.1"	0.8"	143°	257°	2003	1831	A9III	22h33m03.0s	+69°54'49"	2
2	20150	Cep			AB-C	6	10.5	123.6"	114.4"	196°	193°	1999	1910		22h33m03.0s	+69°54'49"	2
2	20150	Cep			AB-D	6	10.2	187.3"	178.3"	197°	195°	1999	1910		22h33m03.0s	+69°54'49"	2
2	10418	Cep	**Σ 2923**		AB	6.32	9.24	9.7"	12"	45°	47°	2006	1831	A0V	22h33m16.8s	+70°22'25"	2
2	10418	Cep			AC	6.32	11.3	97"		146°		1911		A0V	22h33m16.8s	+70°22'25"	2
2	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	2
2	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	2
2	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	2
2	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	2
2	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	2
2	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	2
2	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	2
2	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	2
2	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	2
2	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	2
2	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	2
2	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	2

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
2	48193	Cyg	**Σ 2486**		AB	6.54	6.67	7.5"	9"	206°	223°	2006	1819	G3V G3V	19h12m04.9s	+49°51'25"	**2**
2	48247	Cyg	**Σ 2496**		AB	6.46	10	2.1"	2.4"	80°	78°	1991	1832	G8III	19h15m19.2s	+50°04'16"	**2**
2	48247	Cyg			AC	6.46	10	185.6"		242°		1881		G8III	19h15m19.2s	+50°04'16"	**2**
2	31711	Cyg	**ARG 104**			7	9.3	76"	77.7"	93°	86°	2002	1903	K0	19h30m12.3s	+55°25'23"	**2**
2	48673	Cyg	**HJ 1428**		AB	6.63	10.22	31.7"	24.7"	231°	258°	2006	1905	G6V	19h37m56.7s	+49°17'05"	**2**
2	48673	Cyg			AC	6.57	10.94	61.8"	54.9"	259°	259°	2006	1899		19h37m56.7s	+49°17'05"	**2**
2	31898	Cyg	**16 Cyg**	ΣA 46		5.96	6.2	39.4"	37.3"	133°	136°	1986	1822	G1.5V	19h41m48.9s	+50°31'29"	**2**
2	48796	Cyg	**δ Cyg**	Σ 2579	AB	2.89	6.27	2.6"	2.3"	222°	72°	2005	1783	B9.5IV	19h44m58.5s	+45°07'51"	**2**
2	32093	Cyg	**OΣ 194**			6.06	9.11	68.1"	75.3"	356°	0°	2006	1875	A3V	19h53m35.4s	+59°42'32"	**2**
2	32114	Cyg	**ψ Cyg**	Σ 2605	AB	5.03	7.52	3.1"	4"	174°	181°	2006	1779	A4Vn	19h55m37.8s	+52°26'20"	**2**
2	32114	Cyg		Σ 2605	AD	5.03	10.2	165.4"	163.2"	61°	62°	1908	1880	A4Vn	19h55m37.8s	+52°26'20"	**2**
2	49098	Cyg	**26 Cyg**	H 5 47	AB	5.17	8.94	41.5"	41.3"	150°	146°	2005	1875	K1II-III	20h01m36s	+50 07'17"	**2**
2	32286	Cyg	**ENG 70**			5.86	9.79	168.9"	171.8"	136°	123°	2002	1893	F5V	20h06m13.9s	+53°09'58"	**2**
2	32354	Cyg	**AC 17**		AB	6.17	10.55	4.3"	3.9"	82°	80°	1991	1859	K2.5III	20h12m31.7s	+51°27'49"	**2**
2	32354	Cyg			AE	6.17	10.78	130.3"	131.2"	148°	150°	2000	1897		20h12m31.7s	+51°27'49"	**2**
2	32455	Cyg	**Σ 2671**		AB	6.01	7.51	3.7"	3"	337°	341°	2006	1831	A2Vs	20h18m24.7s	+55°23'49"	**2**
2	32590	Cyg	**Σ 2687**			6.37	8.31	27"	26.2"	117°	119°	2006	1831	B9V	20h26m23.5s	+56°38'19"	**2**
2	32627	Cyg	**KUI 97**			5.96	8.84	0.8"	0.5"	132°	150°	1995	1937	B9Vne	20h29m27.1s	+56°04'06"	**2**
2	16197	Dra	**OΣ 127**		AB	6.53	8.32	85.8"	71.2"	63°	68°	1999	1844	K2IV	13h50m59.1s	+68°18'55"	**2**
2	16606	Dra	**Σ 1918**			6.89	10.8	17.6"	17.8"	19°	21°	2003	1905	F5IV-V	15h07m50.2s	+63°07'02"	**2**
2	29668	Dra	**β 946**			5.91	9.53	2.2"	1.3"	132°	152°	1991	1879	A3m	15h47m37.9s	+55°22'36"	**2**
2	29691	Dra	**Σ 1984**		AB	6.89	8.94	6.3"	6.5"	279°	273°	2006	1828	A1V	15h51m10.1s	+52°54'25"	**2**
2	29823	Dra	**ES 2651**			6.33	10.6	12.3"		140°		1907			16h09m02.9s	+57°56'17"	**2**
2	17073	Dra	**Σ 2054**		Aa-B	6.15	7.09	1.1"	0.9"	353°	7°	2005	1832		16h23m47.1s	+61°41'48"	**2**
2	30013	Dra	**17 Dra**	Σ 30	AC	5.38	5.5	89.8"	90.5"	196°	195°	2003	1832		16h36m13.7s	+52°55'28"	**2**
2	30013	Dra		Σ 30	BC	6.53	5.52	89.8"	89.9"	18°	17°	2003	1832		16h36m13.7s	+52°55'28"	**2**
2	30013	Dra		Σ 2078	AB	5.38	6.42	3.1"	4"	105°	114°	2006	1781	B9.5V	16h36m13.7s	+52°55'28"	**2**
2	30239	Dra	**μ Dra**	Σ 2130	AB	5.66	5.69	2.4"	4.4"	12°	232°	2006	1781	F7V	17h05m20.1s	+54°28'13"	**2**
2	30262	Dra	**ES 77**		Aa-B	6.45	10.96	18.2"	17"	278°	274°	1998	1901		17h08m17.1s	+50°50'32"	**2**
2	30299	Dra	**Σ 2146**		AC	7.1	8.87	89.2"	88.8"	233°	231°	1999	1901		17h13m06.3s	+54°08'22"	**2**
2	30299	Dra			AB	7.1	9	2.7"	3.4"	225°	174°	1998	1828	A9III	17h13m06.3s	+54°08'22"	**2**
2	17410	Dra	**Σ 2155**		AB	6.93	9.97	9.7"	9.6"	113°	116°	2003	1830	F3III	17h16m04.9s	+60°42'50"	**2**
2	30450	Dra	**ν Dra**	Σ 35		4.87	4.9	62.6"	71.4"	312°	314°	2005	1690	A4m A6V	17h32m16.1s	+55°10'23"	**2**
2	17546	Dra	**26 Dra**	β 962	AB	5.28	8.54	1.6"	1.4"	331°	149°	2000	1879	G0V	17h34m59.7s	+61°52'24"	**2**
2	8890	Dra	**ψ Dra**	Σ 2241	AB	4.6	5.59	30.7"	32"	16°	14°	2006	1800	F5IV F8V	17h41m56.4s	+72°08'54"	**2**
2	8890	Dra		Σ 2241	AC	4.6	11.4	89.7"	101.5"	120°	128°	1923	1857	F5IV F8V	17h41m56.4s	+72°08'54"	**2**
2	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	**2**
2	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	**2**
2	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	**2**
2	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	**2**
2	30836	Dra	**β 1274**		A-BC	6.37	9.8	92.8"	96"	239°	239°	2003	1878	F2V	18h14m41.0s	+56°35'18"	**2**
2	30949	Dra	**39 Dra**	Σ 2323	BC	7.3	7.9	85.6"	86"	21°	22°	2000	1836		18h23m54.6s	+58°48'03"	**2**
2	30949	Dra		Σ 2323	AB	5.06	8.07	3.8"	2.5"	349°	13°	2005	1780	A1V	18h23m54.6s	+58°48'03"	**2**
2	30949	Dra		Σ 2323	AC	5.06	7.95	90.4"	89.2"	20°	22°	2001	1824		18h23m54.6s	+58°48'03"	**2**
2	30949	Dra		Σ 2323	AE	4.8	10.8	197.9"	198"	67°	66°	1910	1880		18h23m54.6s	+58°48'03"	**2**
2	17912	Dra	**KUI 86**			6.64	10.47	23.4"	30.5"	42°	31°	2003	1895	A8m	18h31m14.9s	+65°26'10"	**2**
2	31051	Dra	**Σ 2348**		AB-C	5.5	8.65	25.3"	25.7"	271°	273°	2002	1832		18h33m56.7s	+52°21'13"	**2**
2	31051	Dra		SLE 216	AB-D	6.2	11.9	92.8"		338°		1982		G9III	18h33m56.7s	+52°21'13"	**2**
2	17963	Dra	**Σ 2377**			6.97	9.83	16.7"	16.8"	338°	337°	2002	1898	K2III	18h38m24.2s	+63°31'58"	**2**
2	17961	Dra	**HJ 2836**		AB	6.7	9.9	33.4"	35"	317°	328°	1982	1831	F2	18h38m24.3s	+60°42'40"	**2**
2	17995	Dra	**Σ 2403**			6.25	8.35	1"	1.9"	281°	259°	2004	1832	G8III	18h44m18.3s	+61°02'53"	**2**
2	31218	Dra	**o Dra**	Σ 2420	AB	4.77	8.26	36.5"	26.7"	319°	0°	2003	1780	G7III-IV	18h51m12.1s	+59°23'18"	**2**
2	31218	Dra		Σ 2420	AC	4.77	11.5	139.4"	107.8"	326°	327°	1960	1880	G7III-IV	18h51m12.1s	+59°23'18"	**2**
2	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	**2**
2	18082	Dra	**Σ 2440**		AB	6.59	9.61	18"	16.5"	122°	126°	2006	1831	G8III	18h57m17.3s	+62°23'48"	**2**
2	18082	Dra			AC	6.59	10.92	161"	160"	60°	62°	1999	1880	G8III	18h57m17.3s	+62°23'48"	**2**
2	31337	Dra	**Σ 2450**		A-BC	6.5	9.51	5.2"	4.9"	299°	305°	2005	1833	G8III	19h02m07.0s	+52°15'40"	**2**
2	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	**2**
2	18257	Dra	**Σ 2509**			7.44	8.17	1.8"	0.5"	329°	351°	2005	1831	F6V	19h16m53.1s	+63°12'27"	**2**
2	18287	Dra	**BUP 188**			6.52	9.8	115.2"	111.8"	180°	181°	2005	1892	B9pHgMn	19h19m46.1s	+64°23'27"	**2**
2	18395	Dra	**Σ 44**			6.47	8.19	75.5"	76.6"	288°	287°	2005	1834	K4III	19h33m10.1s	+60°09'31"	**2**
2	9467	Dra	**KU 2**			6.92	8.78	0.6"	1.4"	232°	270°	2000	1889	F5V	19h34m24.9s	+71°36'19"	**2**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
2	18461	Dra	**Σ 2573**			6.51	8.91	18.4"	20"	25°	28°	2006	1831	A5V	19h40m13.2s	+60°30'26"	2
2	9540	Dra	**ε Dra**	Σ 2603		4.01	6.87	3.2"	2.5"	19°	333°	2005	1781	G7IIIb	19h48m10.4s	+70°16'05"	2
2	18575	Dra	**Σ 2604**			6.89	9.02	28.3"	27.8"	183°	185°	2006	1831	G5	19h52m47.7s	+64°10'34"	2
2	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	2
2	18669	Dra	**65 Dra**	OΣ 200	AB	6.36	8.06	98.6"	96.7"	333°	338°	1999	1875	G7III	20h02m20.2s	+64°38'04"	2
2	18669	Dra		OΣ 200	Aa	6.36	11.9	32.2"	26.7"	191°	192°	1960	1905	G7III	20h02m20.2s	+64°38'04"	2
2	18692	Dra	**Σ 2640**		AB	6.29	9.54	5.5"	4.9"	17°	27°	2005	1832	A2II-III	20h04m44.5s	+63°53'25"	2
2	18692	Dra			AC	6.3	11.4	153.7"		81°		1880		A2II-III	20h04m44.5s	+63°53'25"	2
2	18722	Dra	**Σ 2650**			6.97	10.81	21.7"	21.2"	227°	228°	2003	1893	A1V	20h07m00.0s	+66°18'29"	2
2	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	2
2	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	2
2	45957	Her	**Σ 2024**			5.86	10.73	23.7"	23.5"	44°	45°	1999	1894	K4III	16h11m47.6s	+42°22'29"	2
2	46147	Her	**Σ 2063**			5.69	8.7	16.3"	16.3"	196°	194°	2003	1830	A2V	16h31m47.2s	+45°35'54"	2
2	46305	Her	**52 Her**	β 627	A-BC	4.84	8.45	2.2"	1.8"	33°	309°	1997	1878	A1V	16h49m14.2s	+45°59'00"	2
2	46561	Her	**Σ 2142**		AB	6.18	9.35	4.7"	5.3"	113°	116°	2000	1830	A5III	17h11m40.3s	+49°44'47"	2
2	47084	Her	**HU 235**			6.88	9.04	1.6"	1.5"	284°	265°	2003	1900	F7IV	17h57m05.1s	+45°51'22"	2
2	47173	Her	**Σ 2277**		AB	6.25	8.93	27.1"	27.6"	128°	118°	2006	1830	A1V	18h03m08.9s	+48°27'51"	2
2	47173	Her			AC	6.25	10.19	97.8"	88.4"	297°	284°	2003	1895		18h03m08.9s	+48°27'51"	2
2	47233	Her	**OΣ 344**			6.47	10.31	2.3"	1.8"	141°	151°	1991	1843	A2V	18h07m06.3s	+49°42'38"	2
2	47928	Lyr	**Σ 3130**		AB-C	6.97	10.52	2.7"	2.7"	259°	263°	1991	1833		18h55m57.2s	+44°13'42"	2
2	47928	Lyr		Σ 3130	AB-D	7	10.2	180.9"	181.1"	310°	311°	1998	1880		18h55m57.2s	+44°13'42"	2
2	47928	Lyr		OΣ 365	AB	7.2	8.3	0.4"	0.5"	288°	169°	1882	1841	A2	18h55m57.2s	+44°13'42"	2
2	48054	Lyr	**DA 9**			7.05	10.22	2"	2.2"	172°	180°	1991	1858	A0V	19h04m15.7s	+43°52'50"	2
2	6504	UMa	**Σ 1193**		AB	6.16	9.69	42.7"	30"	90°	84°	2001	1830	K4III F0	08h20m40.3s	+72°24'26"	2
2	14788	UMa	**σ 2 UMa**	Σ 1306	AB	4.87	8.85	4"	8"	352°	283°	2004	1782	F7V	09h10m23.6s	+67°08'02"	2
2	14788	UMa		Σ 1306	AC	4.87	10.32	199.4"	206.3"	148°	148°	1999	1879		09h10m23.6s	+67°08'02"	2
2	7099	UMa	**Σ 1415**		AB	6.65	7.27	16.5"	16.7"	167°	165°	2003	1823	A7m	10h17m50.5s	+71°03'38"	2
2	7099	UMa			AC	6.65	10.85	152.7"	148.6"	12°	10°	1999	1879		10h17m50.5s	+71°03'38"	2
2	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	2
2	7741	UMi	**β 799**		AB	6.6	8.45	1.3"	0.6"	265°	239°	2004	1881	A7IV	13h04m49.7s	+73°01'30"	2
2	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	2
2	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	2
2	16342	UMi	**Σ 1840**		AB	6.95	10.05	27.1"	26.2"	221°	223°	2003	1830	B9V	14h19m54.9s	+67°46'57"	2
2	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	2
2	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	2
2	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	2
2	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	2
2	8415	UMi	**OΣ 143**		AB	6.87	8.78	46.9"	46.9"	83°	84°	1999	1875	A0	16h04m49.0s	+70°15'42"	2
2	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	2
2	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	2

CHART 3

3	44905	Boo	**13 Boo**	H 16 12		5.45	11.05	75.5"	83.5"	271°	275°	2005	1879	M1.5III	14h08m17.3s	+49°27'30"	3
3	29046	Boo	**κ Boo**	Σ 1821		4.53	6.62	13.5"	12.5"	237°	240°	2004	1779	A7V F1V	14h13m29.0s	+51°47'24"	3
3	29071	Boo	**ι Boo**	Σ 26	AB	4.76	7.39	39.7"	37.6"	34°	37°	2004	1779	A7IV K0V	14h16m09.9s	+51°22'03"	3
3	29224	Boo	**Σ 1863**			6.95	7.9	0.65"		66°					14h38m00.7s	+51°34'42"	3
3	29296	Boo	**Σ 1889**		AB	6.53	9.64	15"	16.1"	92°	88°	2003	1900	F3V	14h49m32.4s	+51°22'28"	3
3	45231	Boo	**39 Boo**	Σ 1890		6.31	6.67	2.7"	4"	46°	52°	2004	1783	F6V+F5V	14h49m41.3s	+48°43'16"	3
3	29372	Boo	**SHJ 191**			6.86	7.57	40.3"	40.4"	342°	342°	2002	1823	F1V F1V	14h59m34.6s	+53°51'37"	3
3	45326	Boo	**OΣ 291**	BX Boo		6.33	9.62	35.6"	35"	156°	160°	2004	1830	B9pSiSrCr	15h00m38.7s	+47°16'39"	3
3	45357	Boo	**44 Boo**	Σ 1909		5.2	6.1	1.9"	1.5"	58°	240°	2006	1781	F7V+K4V	15h03m47.1s	+47°39'15"	3
3	29464	Boo	**OΣ 137**			6.56	8.94	68.1"	75.8"	102°	107°	2004	1876	G5	15h15m50.7s	+50°56'18"	3
3	45500	Boo	**HDS 2157**			6.88	9.21	0.4"	0.7"	279°	273°	1991	1991	K0	15h20m52.9s	+45°39'53"	3
3	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	3
3	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	3
3	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	3
3	5861	Cam	**OΣ 136**			6	11	5"	5.5"	82°	80°	1999	1847	A4V	06h28m14.5s	+70°32'07"	3
3	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	3
3	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	3

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
3	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	3
3	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	3
3	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	3
3	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	3
3	4176	Cas	**OΣ 5**			6.86	8.78	117.8"	115.5"	142°	144°	1999	1875	K0	00h39m59.5s	+76°52'16"	3
3	4216	Cas	**21 Cas**	H N 122		5.66	10.57	35.9"	36.6"	160°	160°	1999	1896	A2IV	00h45m39.1s	+74°59'17"	3
3	4512	Cas	**Σ 170**			7.49	8.24	3.2"	3.2"	244°	247°	1998	1830	A5	01h55m27.3s	+76°13'28"	3
3	4550	Cas	**Σ 185**		AB	6.77	8.58	1.1"	1.5"	8°	32°	2003	1831	A0	02h02m09.3s	+75°30'08"	3
3	4550	Cas			AC	6.77	8.94	120.7"	115.9"	170°	175°	1999	1894		02h02m09.3s	+75°30'08"	3
3	4858	Cas	**HJ 2173**			6.8	10.7	43.8"	25"	163°	164°	1999	1831	K0	03h15m07.5s	+73°52'05"	3
3	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	3
3	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	3
3	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	3
3	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	3
3	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	3
3	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	3
3	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	3
3	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	3
3	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	3
3	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	3
3	10057	Cep	**β Cep**	Σ 2806	Aa-B	3.17	8.63	13.2"	13.4"	248°	255°	1999	1781		21h28m39.6s	+70°33'39"	3
3	19922	Cep	**Σ 2883**			5.56	8.56	15.6"	14.8"	253°	255°	2006	1823	F2V	22h10m38.8s	+70°07'57"	3
3	10284	Cep	**Σ 2893**			6.19	7.91	29.5"	29"	346°	349°	2006	1830		22h12m52.8s	+73°18'26"	3
3	20150	Cep	**Σ 2924**		AB	6.28	7.82	0.1"	0.8"	143°	257°	2003	1831	A9III	22h33m03.0s	+69°54'49"	3
3	20150	Cep			AB-C	6	10.5	123.6"	114.4"	196°	193°	1999	1910		22h33m03.0s	+69°54'49"	3
3	20150	Cep			AB-D	6	10.2	187.3"	178.3"	197°	195°	1999	1910		22h33m03.0s	+69°54'49"	3
3	10418	Cep	**Σ 2923**		AB	6.32	9.24	9.7"	12"	45°	47°	2006	1831	A0V	22h33m16.8s	+70°22'25"	3
3	10418	Cep			AC	6.32	11.3	97"		146°		1911		A0V	22h33m16.8s	+70°22'25"	3
3	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	3
3	20295	Cep	**OΣ 238**		AB	7.02	7.58	69.2"	61.9"	280°	278°	1999	1783	F2	22h52m42.3s	+67°59'25"	3
3	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	3
3	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	3
3	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	3
3	28407	CVn	**7 CVn**	BUP 143	AC	6.27	8.45	215.3"	231.8"	333°	326°	2002	1908		12h30m02.7s	+51°32'08"	3
3	28407	CVn		BUP 143	AB	6.21	10.4	109.2"	109.2"	172°	173°	1908	1898	F6-8V	12h30m02.7s	+51°32'08"	3
3	15801	Dra	**β 1432**			6.32	10.1	51.2"	52.5"	245°	245°	1908	1894	G8III	12h25m06.4s	+63°48'10"	3
3	16018	Dra	**Σ 25**		AB	6.64	7.08	179"	178.7"	296°	297°	1999	1835		13h13m28.0s	+67°17'17"	3
3	16018	Dra			AC	6.64	8.89	105.9"	122.1"	224°	232°	1999	1859		13h13m28.0s	+67°17'17"	3
3	16018	Dra			BC	7.08	8.89	176.6"	167.8"	150°	337°	1999	1859	K2III	13h13m28.0s	+67°17'17"	3
3	16078	Dra	**OΣ 123**		AB	6.65	7.03	68.9"	69"	147°	147°	2000	1876	F0	13h27m04.6s	+64°44'08"	3
3	16197	Dra	**OΣ 127**		AB	6.53	8.32	85.8"	71.2"	63°	68°	1999	1844	K2IV	13h50m59.1s	+68°18'55"	3
3	16466	Dra	**Σ 1878**	DL Dra		6.33	9.16	4.2"	3.1"	317°	336°	2004	1832	F4V	14h42m03.3s	+61°15'43"	3
3	16478	Dra	**Σ 1882**		AB	6.92	9.23	11.5"	12.5"	0°	358°	2006	1783		14h44m03.6s	+61°05'54"	3
3	16478	Dra			Aa	6.8	10.4	7.2"	7.7"	223°	88°	2003	1902	F3V	14h44m03.6s	+61°05'54"	3
3	16606	Dra	**Σ 1918**			6.89	10.8	17.6"	17.8"	19°	21°	2003	1905	F5IV-V	15h07m50.2s	+63°07'02"	3
3	29514	Dra	**HU 149**			7.48	7.62	0.6"	0.2"	272°	296°	2005	1900	K0	15h24m35.3s	+54°12'46"	3
3	29668	Dra	**β 946**			5.91	9.53	2.2"	1.3"	132°	152°	1991	1879	A3m	15h47m37.9s	+55°22'36"	3
3	29691	Dra	**Σ 1984**		AB	6.89	8.94	6.3"	6.5"	279°	273°	2006	1828	A1V	15h51m10.1s	+52°54'25"	3
3	29823	Dra	**ES 2651**			6.33	10.6	12.3"		140°		1907			16h09m02.9s	+57°56'17"	3
3	17073	Dra	**Σ 2054**		Aa-B	6.15	7.09	1.1"	0.9"	353°	7°	2005	1832		16h23m47.1s	+61°41'48"	3
3	8890	Dra	**ψ Dra**	Σ 2241	AB	4.6	5.59	30.7"	32"	16°	14°	2006	1800	F5IV F8V	17h41m56.4s	+72°08'54"	3
3	8890	Dra		Σ 2241	AC	4.6	11.4	89.7"	101.5"	120°	128°	1923	1857	F5IV F8V	17h41m56.4s	+72°08'54"	3
3	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	3
3	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	3
3	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	3
3	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	3
3	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	3
3	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	3
3	9467	Dra	**KU 2**			6.92	8.78	0.6"	1.4"	232°	270°	2000	1889	F5V	19h34m24.9s	+71°36'19"	3
3	9540	Dra	**ε Dra**	Σ 2603		4.01	6.87	3.2"	2.5"	19°	333°	2005	1781	G7IIIb	19h48m10.4s	+70°16'05"	3

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
3	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	3
3	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	3
3	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	3
3	6504	UMa	**Σ 1193**		AB	6.16	9.69	42.7"	30"	90°	84°	2001	1830	K4III F0	08h20m40.3s	+72°24'26"	3
3	7099	UMa	**Σ 1415**		AB	6.65	7.27	16.5"	16.7"	167°	165°	2003	1823	A7m	10h17m50.5s	+71°03'38"	3
3	7099	UMa			AC	6.65	10.85	152.7"	148.6"	12°	10°	1999	1879		10h17m50.5s	+71°03'38"	3
3	7229	UMa	**ENG 44**		AB	6.03	9.21	208.8"	170.1"	59°	51°	2000	1894		10h53m30.6s	+69°51'13"	3
3	15542	UMa	**OΣ 235**		AB	5.69	7.55	0.7"	0.5"	6°	283°	2005	1843	F8V	11h32m20.7s	+61°04'56"	3
3	15580	UMa	**Σ 1559**			6.81	8.01	2"	2.5"	324°	323°	2005	1830	A5IV	11h38m49.1s	+64°20'49"	3
3	15710	UMa	**HU 1136**			6.27	10.24	1.9"	1.9"	217°	223°	1992	1905	K1III-IV	12h05m39.7s	+62°55'59"	3
3	28572	UMa	**Σ 1695**		AB	6.04	7.75	3.6"	4.1"	281°	285°	2006	1823	A5m	12h56m17.5s	+54°05'58"	3
3	28572	UMa			AC	6.04	10.4	124"		142°		1880		A5m	12h56m17.5s	+54°05'58"	3
3	28601	UMa	**78 UMa**	β 1082		5.02	7.88	1.2"	1.5"	91°	76°	2005	1889	F2V	13h00m43.7s	+56°21'59"	3
3	15999	UMa	**OΣ 121**			6.51	10.56	107.6"	107.8"	9°	9°	1999	1877	A1V	13h09m50.2s	+62°13'45"	3
3	28679	UMa	**OΣ 122**		AB	6.88	8.11	120.5"	115.1"	215°	211°	2000	1876	G1Va G5	13h13m37.1s	+56°42'30"	3
3	28737	UMa	**ζ UMa**	Σ 1744	AB	2.23	3.88	14.3"	13.9"	153°	143°	2005	1755	A1V	13h23m55.6s	+54°55'31"	3
3	28737	UMa		Σ 1744	AC	2.23	4.01	708.5"	720"	71°	72°	1991	1831		13h23m55.6s	+54°55'31"	3
3	16080	UMa	**S 649**		CA	5.46	8.19	181.7"	182.3"	111°	111°	2002	1824	A1Vn	13h28m27.1s	+59°56'45"	3
3	28819	UMa	**Σ 1770**			6.93	8.18	1.7"	1.6"	122°	117°	2004	1830		13h37m42.9s	+50°42'53"	3
3	28836	UMa	**Σ 1774**			6.34	10.51	17.5"	17.9"	135°	134°	2000	1879	F8V	13h40m23.2s	+50°31'10"	3
3	28955	UMa	**Σ 1795**			6.91	9.83	7.9"	7.6"	3°	3°	2003	1832	A3IV-V	13h58m55.4s	+53°06'23"	3
3	29070	UMa	**Σ 1831**		AC	7.16	6.73	109.7"	105"	220°	227°	2003	1872	F8V	14h15m59.9s	+56°41'20"	3
3	29070	UMa			AB	7.16	9.56	5.8"	6"	137°	143°	2000	1830	A7IV	14h15m59.9s	+56°41'20"	3
3	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	3
3	7741	UMi	**β 799**		AB	6.6	8.45	1.3"	0.6"	265°	239°	2004	1881	A7IV	13h04m49.7s	+73°01'30"	3
3	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	3
3	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	3
3	16342	UMi	**Σ 1840**		AB	6.95	10.05	27.1"	26.2"	221°	223°	2003	1830	B9V	14h19m54.9s	+67°46'57"	3
3	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	3
3	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	3
3	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	3
3	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	3
3	8415	UMi	**OΣ 143**		AB	6.87	8.78	46.9"	46.9"	83°	84°	1999	1875	A0	16h04m49.0s	+70°15'42"	3
3	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	3
3	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	3

CHART 4

4	5006	Cam	**γ Cam**	HJ 2200	AC	4.61	9.07	106.1"	106.1"	86°	84°	1999	1892		03h50m21.5s	+71°19'56"	4
4	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	4
4	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	4
4	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	4
4	5861	Cam	**OΣ 136**			6	11	5"	5.5"	82°	80°	1999	1847	A4V	06h28m14.5s	+70°32'07"	4
4	14037	Cam	**HDS 976**			6.71	9.16	0.5"	0.5"	215°	218°	1999	1991	G5	07h00m20.9s	+67°19'50"	4
4	26298	Cam	**47 Cam**	Σ 1055		6.4	10.27	2.1"	2.4"	308°	344°	1991	1830	A8m	07h22m17.2s	+59°54'07"	4
4	14221	Cam	**ES 1895**			7	10.72	9.9"	10.7"	289°	293°	2006	1906	A0	07h31m36.1s	+62°30'06"	4
4	14326	Cam	**Σ 1127**		AB	7.02	8.45	5.4"	5.2"	340°	340°	1999	1830	A2	07h47m00.4s	+64°03'07"	4
4	14326	Cam			AC	7.02	9.72	11.7"	11.3"	177°	175°	1999	1830		07h47m00.4s	+64°03'07"	4
4	14407	Cam	**SHJ 86**		AB	6.15	7.53	51.1"	48.6"	81°	82°	1999	1823	G1III	08h02m30.8s	+63°05'25"	4
4	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	4
4	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	4
4	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	4
4	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	4
4	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	4
4	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	4
4	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	4
4	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	4
4	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	4
4	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	4
4	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	4
4	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	4
4	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	4

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
4	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	4
4	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	4
4	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	4
4	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	4
4	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	4
4	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	4
4	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	4
4	15801	Dra	**β 1432**			6.32	10.1	51.2"	52.5"	245°	245°	1908	1894	G8III	12h25m06.4s	+63°48'10"	4
4	16018	Dra	**Σ 25**		AB	6.64	7.08	179"	178.7"	296°	297°	1999	1835		13h13m28.0s	+67°17'17"	4
4	16018	Dra			AC	6.64	8.89	105.9"	122.1"	224°	232°	1999	1859		13h13m28.0s	+67°17'17"	4
4	16018	Dra			BC	7.08	8.89	176.6"	167.8"	150°	337°	1999	1859	K2III	13h13m28.0s	+67°17'17"	4
4	16078	Dra	**OΣ 123**		AB	6.65	7.03	68.9"	69"	147°	147°	2000	1876	F0	13h27m04.6s	+64°44'08"	4
4	16197	Dra	**OΣ 127**		AB	6.53	8.32	85.8"	71.2"	63°	68°	1999	1844	K2IV	13h50m59.1s	+68°18'55"	4
4	8890	Dra	**ψ Dra**	Σ 2241	AB	4.6	5.59	30.7"	32"	16°	14°	2006	1800	F5IV F8V	17h41m56.4s	+72°08'54"	4
4	8890	Dra		Σ 2241	AC	4.6	11.4	89.7"	101.5"	120°	128°	1923	1857	F5IV F8V	17h41m56.4s	+72°08'54"	4
4	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	4
4	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	4
4	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	4
4	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	4
4	17912	Dra	**KUI 86**			6.64	10.47	23.4"	30.5"	42°	31°	2003	1895	A8m	18h31m14.9s	+65°26'10"	4
4	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	4
4	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	4
4	9467	Dra	**KU 2**			6.92	8.78	0.6"	1.4"	232°	270°	2000	1889	F5V	19h34m24.9s	+71°36'19"	4
4	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	4
4	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	4
4	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	4
4	26474	Lyn	**24 Lyn**	HJ 2405		4.98	11.15	54.7"		320°		1901		A3IVn	07h43m00.4s	+58°42'37"	4
4	26662	Lyn	**HJ 2424**			6.7	10.81	42.2"	30"	150°	150°	1998	1831	A0	08h06m02.5s	+59°14'56"	4
4	42242	Lyn	**OΣ 189**			6.87	10.73	4.3"	3.8"	295°	294°	1999	1843	A2IV	08h14m49.0s	+43°02'06"	4
4	26750	Lyn	**OΣ 565**		AB	6.71	9.7	98.8"	95"	9°	9°	2002	1851	K0	08h16m58.1s	+59°11'22"	4
4	42342	Lyn	**S 565**		AB	6.2	8.56	83.9"	73"	176°	165°	2004	1824	K5III	08h24m42.8s	+42°00'19"	4
4	14479	UMa	**Σ 1192**		AB	6.51	10.06	2.7"	2.9"	256°	256°	1991	1832	A7Vm	08h15m50.5s	+60°22'50"	4
4	14479	UMa			AC	6.51	10.39	49.4"	48.6"	224°	223°	2003	1832		08h15m50.5s	+60°22'50"	4
4	6504	UMa	**Σ 1193**		AB	6.16	9.69	42.7"	30"	90°	84°	2001	1830	K4III F0	08h20m40.3s	+72°24'26"	4
4	14788	UMa	**σ 2 UMa**	Σ 1306	AB	4.87	8.85	4"	8"	352°	283°	2004	1782	F7V	09h10m23.6s	+67°08'02"	4
4	14788	UMa		Σ 1306	AC	4.87	10.32	199.4"	206.3"	148°	148°	1999	1879		09h10m23.6s	+67°08'02"	4
4	27215	UMa	**OΣ 199**		AB	6.2	10	5.6"	5.6"	138°	113°	1998	1847	F5V	09h20m43.7s	+51°15'59"	4
4	27215	UMa			AC	6.19	10.66	130"	147.8"	7°	4°	1998	1886		09h20m43.7s	+51°15'59"	4
4	42825	UMa	**Σ 1340**		AB	7.08	8.99	6.2"	7.2"	319°	318°	2005	1782	B9.5V	09h22m32.2s	+49°32'41"	4
4	27246	UMa	**OΣ 200**			6.53	8.57	1.3"	1.2"	335°	337°	2003	1843	G0IV	09h24m55.7s	+51°34'26"	4
4	42876	UMa	**S 598**		AB	5.5	7.8	70.1"	87"	162°	161°	2005	1800	K0III-IV	09h28m40.0s	+45°36'04"	4
4	42876	UMa			AC	5.6	9.8	84.1"	83.5"	75°	80°	1999	1879		09h28m40.0s	+45°36'04"	4
4	42990	UMa	**HDS 1399**			6.39	10.45	0.5"	0.5"	180°	180°	1991	1991	A1V	09h42m43.1s	+48°25'51"	4
4	43223	UMa	**ENG 42**		AB	6.75	9.03	153.6"	197.5"	141°	202°	2004	1878	K2Ve	10h11m21.5s	+49°27'12"	4
4	7099	UMa	**Σ 1415**		AB	6.65	7.27	16.5"	16.7"	167°	165°	2003	1823	A7m	10h17m50.5s	+71°03'38"	4
4	7099	UMa			AC	6.65	10.85	152.7"	148.6"	12°	10°	1999	1879		10h17m50.5s	+71°03'38"	4
4	43279	UMa	**ENG 43**			6.73	9.37	145.2"	152.2"	97°	105°	2002	1893	dG5	10h18m52.0s	+44°02'52"	4
4	15243	UMa	**OΣ 222**			7	11	3.7"	4.6"	342°	339°	2000	1847	F8	10h38m19.9s	+60°07'27"	4
4	7229	UMa	**ENG 44**		AB	6.03	9.21	208.8"	170.1"	59°	51°	2000	1894		10h53m30.6s	+69°51'13"	4
4	27970	UMa	**Σ 1520**			6.54	7.81	12.3"	13"	344°	345°	2003	1831	F6V F9V	11h16m04.1s	+52°46'24"	4
4	43750	UMa	**Σ 1542**			6.93	9.65	3.4"	2.5"	267°	265°	2003	1831	F2V	11h27m56.0s	+44°33'57"	4
4	15542	UMa	**OΣ 235**		AB	5.69	7.55	0.7"	0.5"	6°	283°	2005	1843	F8V	11h32m20.7s	+61°04'56"	4
4	43841	UMa	**Σ 1561**		AB	6.53	8.23	9.4"	12.5"	248°	270°	2006	1783	G0V	11h38m44.6s	+45°06'30"	4
4	43841	UMa			AC	6.53	9.46	164.9"	32.4"	90°	86°	2006	1783		11h38m44.6s	+45°06'30"	4
4	15580	UMa	**Σ 1559**			6.81	8.01	2"	2.5"	324°	323°	2005	1830	A5IV	11h38m49.1s	+64°20'49"	4
4	43945	UMa	**65 UMa**	Σ 1579	AB-D	6.68	6.97	63.2"	60.1"	114°	112°	2002	1782		11h55m05.8s	+46°28'37"	4
4	43945	UMa		Σ 1579	AB-C	6.68	8.32	3.9"	4"	42°	36°	2006	1782		11h55m05.8s	+46°28'37"	4
4	15710	UMa	**HU 1136**			6.27	10.24	1.9"	1.9"	217°	223°	1992	1905	K1III-IV	12h05m39.7s	+62°55'59"	4
4	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	4
4	7741	UMi	**β 799**		AB	6.6	8.45	1.3"	0.6"	265°	239°	2004	1881	A7IV	13h04m49.7s	+73°01'30"	4

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
4	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	**4**
4	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	**4**
4	16342	UMi	**Σ 1840**		AB	6.95	10.05	27.1"	26.2"	221°	223°	2003	1830	B9V	14h19m54.9s	+67°46'57"	**4**
4	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	**4**
4	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	**4**
4	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	**4**
4	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	**4**
4	8415	UMi	**OΣ 143**		AB	6.87	8.78	46.9"	46.9"	83°	84°	1999	1875	A0	16h04m49.0s	+70°15'42"	**4**
4	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	**4**
4	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	**4**

CHART 5

5	25019	Aur	**9 Aur**	H 6 35	AC	5.01	9.99	89.9"	90.1"	62°	61°	2002	1888		05h06m40.6s	+51°35'51"	**5**
5	40052	Aur	**OΣ 96**			6.6	11.1	21"		104°					05h09m04.4s	+49°07'19"	**5**
5	40251	Aur	**Σ 681**			6.61	9.21	23.3"	23.4"	181°	181°	2004	1831	A2V+GIII	05h20m39.2s	+46°57'50"	**5**
5	25319	Aur	**ENG 22**		AB	6.29	9.84	98.8"	97.5"	70°	71°	2002	1891	K1V M1	05h41m20.3s	+53°28'48"	**5**
5	40769	Aur	**H 6 91**		AC	6.35	10.28	35.6"	30"	345°	315°	2000	1783		06h00m18.9s	+44°35'31"	**5**
5	40769	Aur		β 1055	AB	6.2	11	1.7"	1.6"	324°	333°	1953	1888		06h00m18.9s	+44°35'31"	**5**
5	25548	Aur	**OΣ 128**		A-BC	6.41	9.26	40"	35"	14°	14°	2003	1830	A7III	06h04m29.1s	+51°34'24"	**5**
5	40844	Aur	**ES 1234**		AB	6.79	10.9	10.3"	9.8"	270°	267°	2000	1913	O8Vn	06h05m52.5s	+48°14'57"	**5**
5	40925	Aur	**41 Aur**	Σ 845		6.16	6.86	7.6"	8.5"	357°	350°	2006	1783	A1V A6V	06h11m36.6s	+48°42'39"	**5**
5	41330	Aur	**ψ 5 Aur**	SHJ 75	AB	5.31	8.65	31.1"	53"	38°	17°	1998	1782	G0V	06h46m44.3s	+43°34'40"	**5**
5	24054	Cam	**Σ 385**			4.23	7.8	2.5"	2.4"	159°	161°	1991	1829	B9Ia	03h29m04.1s	+59°56'25"	**5**
5	24062	Cam	**Σ 389**		Aa-B	6.42	7.89	2.6"	2.7"	71°	65°	2006	1828	A2V	03h30m11.0s	+59°21'57"	**5**
5	24093	Cam	**Σ 396**		AB	6.3	7.68	21"	20.4"	244°	242°	2006	1829		03h33m32.2s	+58°45'55"	**5**
5	24093	Cam			AC	6.3	10.8	163.4"	165.3"	102°	102°	1998	1879		03h33m32.2s	+58°45'55"	**5**
5	24111	Cam	**Σ 400**		AB	6.79	7.97	1.5"	1.5"	268°	283°	2006	1829	F3V	03h35m01.0s	+60°02'29"	**5**
5	24111	Cam			AB-C	6.79	10.82	92.4"	92.7"	236°	237°	1999	1879		03h35m01.0s	+60°02'29"	**5**
5	12854	Cam	**OΣ 36**		A-BC	6.92	8.27	45.9"	45.8"	71°	70°	1999	1875	F5V G8V	03h39m58.9s	+63°52'12"	**5**
5	24169	Cam	**WEB 2**		AD	5.93	8.45	55.3"	54.4"	36°	33°	2002	1810		03h42m42.7s	+59°58'10"	**5**
5	24169	Cam			AE	6	10.8	169"	167.2"	162°	160°	1999	1879		03h42m42.7s	+59°58'10"	**5**
5	24244	Cam	**S 436**			6.46	7.17	57.3"	58.3"	76°	75°	2002	1823	A0Vn	03h49m19.8s	+57°07'06"	**5**
5	5006	Cam	**γ Cam**	HJ 2200	AC	4.61	9.07	106.1"	106.1"	86°	84°	1999	1892		03h50m21.5s	+71°19'56"	**5**
5	24307	Cam	**ENG 16**		AB	6.63	10.84	134.7"	153.4"	7°	355°	1999	1893	G0	03h56m11.4s	+59°38'32"	**5**
5	12968	Cam	**OΣ 67**			5.25	8.06	1.7"	1.7"	48°	44°	1991	1843	K3I-II	03h57m08.3s	+61°06'32"	**5**
5	24391	Cam	**HO 221**		AB	6.6	10.1	4.8"	4.6"	96°	96°	2002	1888	F7V	04h04m37.0s	+55°03'59"	**5**
5	24391	Cam			AC	6.6	10.4	136.2"		277°		2002	1888	F7V	04h04m37.0s	+55°03'59"	**5**
5	13031	Cam	**Σ 485**		AE	6.91	6.94	17.7"	18"	305°	303°	2004	1830	B0II B0II	04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 485	AC	6.91	10.39	11.1"	11.3"	0°	359°	2002	1902		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 485	AL	6.91	10.4	89.9"	89.9"	71°	71°	1902	1902	B0	04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 485	AO	6.91	9.4	138.9"	138.8"	78°	77°	1999	1881		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 485	EG	6.94	9.63	49.6"	49"	245°	244°	2001	1830		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 484	AG	6.91	9.63	61.4"	61.7"	258°	260°	1957	1905		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 484	AH	6.91	10.5	58.4"	58.8"	256°	255°	1908	1905		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 484	AI	6.91	9.81	69.6"	71.1"	279°	278°	2001	1905		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 484	EH	6.94	10.5	47"	45.3"	240°	239°	1999	1906		04h07m51.4s	+62°19'48"	**5**
5	13031	Cam		Σ 484	EI	6.94	9.81	54.2"	54.2"	271°	269°	2001	1905		04h07m51.4s	+62°19'48"	**5**
5	24577	Cam	**KUI 16**		AB	6.2	10.9	1.1"	1"	212°	200°	1969	1937	A4V	04h22m58.0s	+59°36'58"	**5**
5	24577	Cam		ARG 100	AB-C	6.19	9.31	32.1"	32.6"	60°	59°	2002	1902		04h22m58.0s	+59°36'58"	**5**
5	24672	Cam	**1 Cam**	Σ 550	AB	5.78	6.82	10.6"	12"	308°	299°	2006	1800	B0III	04h32m01.8s	+53°54'39"	**5**
5	24744	Cam	**2 Cam**	Σ 566	AB-C	5.56	7.49	0.8"	1.5"	183°	312°	2005	1828		04h39m58.1s	+53°28'22"	**5**
5	13291	Cam	**β 1389**			5.64	10.87	119.4"	115.4"	351°	351°	2000	1913	M3IIIab	04h52m05.2s	+63°30'19"	**5**
5	13317	Cam	**OΣ 88**			7.21	8.34	0.7"	0.7"	310°	296°	2002	1843	G0	04h57m15.4s	+61°45'11"	**5**
5	24929	Cam	**7 Cam**	D 5	AB	4.49	7.9	0.5"	1.2"	213°	129°	2000	1865	A1V	04h57m17.2s	+53°45'08"	**5**
5	24929	Cam		Σ 610		4.47	11.3	25.8"		240°				AIV	04h57m17.2s	+53°45'08"	**5**
5	13351	Cam	**β Cam**	S 459	AB	4.12	7.44	83"	80.3"	210°	208°	2003	1825	G0I	05h03m25.1s	+60°26'32"	**5**
5	25001	Cam	**11 Cam**	Σ 13	AB	5.2	6.21	178.7"	181.3"	9°	7°	2002	1836	B2.5Ve	05h06m08.5s	+58°58'20"	**5**
5	25001	Cam		Σ 13	BC	6.21	10.19	177.2"	173.4"	19°	18°	1998	1879	K0III	05h06m08.5s	+58°58'20"	**5**
5	13394	Cam	**Σ 633**			6.77	10.57	11.7"	12.3"	342°	342°	2002	1831	F0	05h10m42.7s	+63°35'49"	**5**
5	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	**5**
5	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	**5**
5	13550	Cam	**19 Cam**	HU 1107		6.18	9.81	1.5"	1.3"	56°	49°	1991	1905	A0V	05h37m15.1s	+64°09'16"	**5**
5	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	**5**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
5	13618	Cam	**Σ 3115**			6.55	7.51	1"	1.7"	342°	36°	2003	1831	A4V	05h49m04.6s	+62°48'29"	5
5	25403	Cam	**29 Cam**	H 4 125	AB	6.54	10.43	26.1"	18"	128°	138°	2001	1831	A4IV-V	05h50m33.9s	+56°55'08"	5
5	13675	Cam	**Σ 812**			6.7	11	27.9"	25.7"	59°	66°	1999	1893	A3	06h01m15.1s	+65°31'31"	5
5	5861	Cam	**OΣ 136**			6	11	5"	5.5"	82°	80°	1999	1847	A4V	06h28m14.5s	+70°32'07"	5
5	14037	Cam	**HDS 976**			6.71	9.16	0.5"	0.5"	215°	218°	1999	1991	G5	07h00m20.9s	+67°19'50"	5
5	26298	Cam	**47 Cam**	Σ 1055		6.4	10.27	2.1"	2.4"	308°	344°	1991	1830	A8m	07h22m17.2s	+59°54'07"	5
5	14221	Cam	**ES 1895**			7	10.72	9.9"	10.7"	289°	293°	2006	1906	A0	07h31m36.1s	+62°30'06"	5
5	14326	Cam	**Σ 1127**		AB	7.02	8.45	5.4"	5.2"	340°	340°	1999	1830	A2	07h47m00.4s	+64°03'07"	5
5	14326	Cam			AC	7.02	9.72	11.7"	11.3"	177°	175°	1999	1830		07h47m00.4s	+64°03'07"	5
5	14407	Cam	**SHJ 86**		AB	6.15	7.53	51.1"	48.6"	81°	82°	1999	1823	G1III	08h02m30.8s	+63°05'25"	5
5	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	5
5	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	5
5	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	5
5	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	5
5	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	5
5	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	5
5	4176	Cas	**OΣ 5**			6.86	8.78	117.8"	115.5"	142°	144°	1999	1875	K0	00h39m59.5s	+76°52'16"	5
5	4216	Cas	**21 Cas**	H N 122		5.66	10.57	35.9"	36.6"	160°	160°	1999	1896	A2IV	00h45m39.1s	+74°59'17"	5
5	4512	Cas	**Σ 170**			7.49	8.24	3.2"	3.2"	244°	247°	1998	1830	A5	01h55m27.3s	+76°13'28"	5
5	4554	Cas	**48 Cas**	β 513	AB	4.65	6.74	0.8"	1"	267°	264°	2000	1878	A3V	02h01m57.4s	+70°54'25"	5
5	4550	Cas	**Σ 185**		AB	6.77	8.58	1.1"	1.5"	8°	32°	2003	1831	A0	02h02m09.3s	+75°30'08"	5
5	4550	Cas			AC	6.77	8.94	120.7"	115.9"	170°	175°	1999	1894		02h02m09.3s	+75°30'08"	5
5	4559	Cas	**Σ 191**			6.2	9.1	5.1"	5.6"	195°	191°	2006	1832	A5III	02h03m10.4s	+73°51'02"	5
5	12298	Cas	**ι Cas**	Σ 262	Aa-B	4.63	6.92	2.9"	1.5"	230°	290°	2004	1782	A5pSr	02h29m03.9s	+67°24'09"	5
5	12298	Cas		Σ 262	Aa-C	4.63	9.05	8.9"	7.5"	99°	101°	2006	1779	A5	02h29m03.9s	+67°24'09"	5
5	12298	Cas		Σ 262	Aa-D	4.63	8.48	210.6"	209"	60°	58°	1991	1892		02h29m03.9s	+67°24'09"	5
5	12298	Cas		Σ 262	CD	6.92	8.48	213.5"	205.7"	60°	57°	1991	1880		02h29m03.9s	+67°24'09"	5
5	12519	Cas	**BLL 9**			6.44	10.61	117.9"	115.6"	130°	129°	1999	1879	K3Ibv	02h56m24.6s	+64°19'57"	5
5	4858	Cas	**HJ 2173**			6.8	10.7	43.8"	25"	163°	164°	1999	1831	K0	03h15m07.5s	+73°52'05"	5
5	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	5
5	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	5
5	10057	Cep	**β Cep**	Σ 2806	Aa-B	3.17	8.63	13.2"	13.4"	248°	255°	1999	1781		21h28m39.6s	+70°33'39"	5
5	19510	Cep	**Σ 57**		AB	7.07	7.18	182.6"	179"	26°	26°	1999	1836	K1III	21h34m25.8s	+66°43'35"	5
5	19510	Cep			Aa	7	11	126"	123.1"	346°	345°	1999	1893		21h34m25.8s	+66°43'35"	5
5	19922	Cep	**Σ 2883**			5.56	8.56	15.6"	14.8"	253°	255°	2006	1823	F2V	22h10m38.8s	+70°07'57"	5
5	10284	Cep	**Σ 2893**			6.19	7.91	29.5"	29"	346°	349°	2006	1830		22h12m52.8s	+73°18'26"	5
5	20150	Cep	**Σ 2924**		AB	6.28	7.82	0.1"	0.8"	143°	257°	2003	1831	A9III	22h33m03.0s	+69°54'49"	5
5	20150	Cep			AB-C	6	10.5	123.6"	114.4"	196°	193°	1999	1910		22h33m03.0s	+69°54'49"	5
5	20150	Cep			AB-D	6	10.2	187.3"	178.3"	197°	195°	1999	1910		22h33m03.0s	+69°54'49"	5
5	10418	Cep	**Σ 2923**		AB	6.32	9.24	9.7"	12"	45°	47°	2006	1831	A0V	22h33m16.8s	+70°22'25"	5
5	10418	Cep			AC	6.32	11.3	97"		146°		1911		A0V	22h33m16.8s	+70°22'25"	5
5	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	5
5	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	5
5	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	5
5	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	5
5	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	5
5	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	5
5	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	5
5	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	5
5	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	5
5	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	5
5	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	5
5	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	5
5	16197	Dra	**OΣ 127**		AB	6.53	8.32	85.8"	71.2"	63°	68°	1999	1844	K2IV	13h50m59.1s	+68°18'55"	5
5	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	5
5	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	5
5	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	5
5	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	5
5	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	5
5	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	5
5	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	5

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
5	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	5
5	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	5
5	25678	Lyn	**4 Lyn**	Σ 881	Aa-B	6.13	7.71	0.7"	0.8"	143°	89°	2003	1830	A3V	06h22m03.6s	+59°22'20"	5
5	25678	Lyn		Σ 881	Aa-D	5.95	11	100.4"		356°		2003	1879	A3V	06h22m03.6s	+59°22'20"	5
5	25733	Lyn	**5 Lyn**	S 514	AC	5.38	7.92	95.8"	88.3"	272°	272°	2002	1782	K4III	06h26m48.9s	+58°25'03"	5
5	25733	Lyn		S 514	AB	5.38	11.9	31.4"	30.3"	139°		1961	1879	K4III	06h26m48.9s	+58°25'03"	5
5	25771	Lyn	**6 Lyn**	OΣ 562		5.96	9.5	170.8"	188.1"	110°	122°	2003	1851	K0III-IV	06h30m47.1s	+58°09'43"	5
5	13897	Lyn	**8 Lyn**	OΣ 563	AB	6.04	8.78	180.8"	143.5"	74°	85°	1999	1850	G8IV-V	06h37m41.3s	+61°28'50"	5
5	25939	Lyn	**12 Lyn**	Σ 948	AB	5.44	6	1.8"	1.5"	70°	181°	2006	1780	A3V	06h46m14.1s	+59°26'30"	5
5	25939	Lyn		Σ 948	AC	5.44	7.05	8.7"	9.4"	309°	303°	2006	1782		06h46m14.1s	+59°26'30"	5
5	25939	Lyn		Σ 948	AD	4.9	10.5	172.2"	170"	259°	256°	1999	1879		06h46m14.1s	+59°26'30"	5
5	25939	Lyn		Σ 948	BC	6	7.05	9.5"	11.5"	302°	312°	2006	1825		06h46m14.1s	+59°26'30"	5
5	25963	Lyn	**Σ 958**		AB	6.28	6.34	4.6"	5.1"	257°	256°	2006	1821	dF5 dF6	06h48m12.3s	+55°42'14"	5
5	25963	Lyn			AC	6.28	10	175"		268°		2006	1990	dF5 dF6	06h48m12.3s	+55°42'14"	5
5	26023	Lyn	**OΣ 158**		AC	7	10.7	53.5"	56.2"	65°	63°	2000	1910		06h53m26.2s	+51°31'05"	5
5	26023	Lyn			AB	7	11.3	16.8"		304°		2000	1910		06h53m26.2s	+51°31'05"	5
5	26051	Lyn	**15 Lyn**	OΣ 159	AB	4.7	5.7	0.6"	0.2"	226°	339°	2005	1843	G8III+F8V	06h57m16.6s	+58°25'21"	5
5	26051	Lyn		OΣ 159	AD	4.7	8.9	187.8"	206.6"	168°	167°	1999	1850		06h57m16.6s	+58°25'21"	5
5	26144	Lyn	**Σ 1009**		AB	6.87	7.01	4.3"	3.5"	148°	167°	2003	1782	A3Vs	07h05m39.8s	+52°45'30"	5
5	26144	Lyn			BC	6.87	11	179"		133°		2003	1879	A3Vs	07h05m39.8s	+52°45'30"	5
5	26312	Lyn	**19 Lyn**	Σ 1062	AB	5.76	6.71	15.1"	14.1"	315°	317°	2006	1782	B8V B9V	07h22m52.0s	+55°16'53"	5
5	26312	Lyn		Σ 1062	AD	5.76	7.57	215.3"	215.2"	6°	358°	2002	1833		07h22m52.0s	+55°16'53"	5
5	26312	Lyn		Σ 1062	BC	6.5	10.9	74.2"	74.2"	288°	287°	1999	1879	A	07h22m52.0s	+55°16'53"	5
5	41797	Lyn	**β 758**		AB-C	5.67	10.2	16.4"	16.9"	93°	94°	1999	1883		07h28m51.5s	+48°11'02"	5
5	41797	Lyn		KUI 30	AB	5.69	9.87	1.1"	1"	94°	90°	1999	1934	B9pHgMn	07h28m51.5s	+48°11'02"	5
5	41808	Lyn	**22 Lyn**	ENG 31	AB	5.41	10.09	179.7"	165.9"	304°	304°	2005	1888	F6V	07h29m56.0s	+49°40'20"	5
5	26407	Lyn	**HDS 1069**			6.65	9.45	0.7"	0.8"	142°	133°	1991	1991	K0	07h33m51.5s	+51°18'51"	5
5	41877	Lyn	**OΣ 174**			6.62	8.26	2.1"	1.6"	89°	83°	2003	1843	F0	07h35m56.0s	+43°01'51"	5
5	26474	Lyn	**24 Lyn**	HJ 2405		4.98	11.15	54.7"		320°		1901		A3IVn	07h43m00.4s	+58°42'37"	5
5	26662	Lyn	**HJ 2424**			6.7	10.81	42.2"	30"	150°	150°	1998	1831	A0	08h06m02.5s	+59°14'56"	5
5	26750	Lyn	**OΣ 565**		AB	6.71	9.7	98.8"	95"	9°	9°	2002	1851	K0	08h16m58.1s	+59°11'22"	5
5	24248	Per	**Σ 446**		AB	6.86	9.9	8.7"	8.5"	254°	253°	2002	1830	B0.5III	03h49m27.6s	+52°39'19"	5
5	24300	Per	**HDS 494**			6.91	9.82	0.7"	0.7"	178°	178°	1999	1991	O9IV-V	03h55m38.4s	+52°38'29"	5
5	39604	Per	**57 Per**	SHJ 44	AB	6.12	6.83	120.5"	96.4"	198°	198°	2003	1783	F0V	04h33m24.9s	+43°03'50"	5
5	14479	UMa	**Σ 1192**		AB	6.51	10.06	2.7"	2.9"	256°	256°	1991	1832	A7Vm	08h15m50.5s	+60°22'50"	5
5	14479	UMa			AC	6.51	10.39	49.4"	48.6"	224°	223°	2003	1832		08h15m50.5s	+60°22'50"	5
5	6504	UMa	**Σ 1193**		AB	6.16	9.69	42.7"	30"	90°	84°	2001	1830	K4III F0	08h20m40.3s	+72°24'26"	5
5	14788	UMa	**σ 2 UMa**	Σ 1306	AB	4.87	8.85	4"	8"	352°	283°	2004	1782	F7V	09h10m23.6s	+67°08'02"	5
5	14788	UMa		Σ 1306	AC	4.87	10.32	199.4"	206.3"	148°	148°	1999	1879		09h10m23.6s	+67°08'02"	5
5	7099	UMa	**Σ 1415**		AB	6.65	7.27	16.5"	16.7"	167°	165°	2003	1823	A7m	10h17m50.5s	+71°03'38"	5
5	7099	UMa			AC	6.65	10.85	152.7"	148.6"	12°	10°	1999	1879		10h17m50.5s	+71°03'38"	5
5	7229	UMa	**ENG 44**		AB	6.03	9.21	208.8"	170.1"	59°	51°	2000	1894		10h53m30.6s	+69°51'13"	5
5	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	5
5	7741	UMi	**β 799**		AB	6.6	8.45	1.3"	0.6"	265°	239°	2004	1881	A7IV	13h04m49.7s	+73°01'30"	5
5	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	5
5	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	5
5	16342	UMi	**Σ 1840**		AB	6.95	10.05	27.1"	26.2"	221°	223°	2003	1830	B9V	14h19m54.9s	+67°46'57"	5
5	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	5
5	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	5
5	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	5
5	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	5
5	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	5
5	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	5

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6	36042	And	**β 997**		AC	6.71	9.5	21.6"		235°		1906			00h05m09.7s	+45°13'44"	6
6	36157	And	**HDS 28**			6.64	9.72	0.8"	0.8"	29°	29°	1991	1991	K0	00h12m34.2s	+44°42'26"	6
6	36221	And	**HJ 1947**		AB	6.16	9.83	8.9"	10"	75°	81°	2003	1831	A2VpSi	00h16m21.5s	+43°35'42"	6
6	36256	And	**26 And**	OΣ 5		6	9.7	6.4"	7.1"	240°	235°	2002	1846	B8V	00h18m42.2s	+43°47'28"	6
6	36280	And	**A 647**			7.17	9.56	0.7"	0.7"	106°	216°	2002	1904	F5	00h20m33.0s	+45°30'32"	6

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
6	36833	And	**Σ 79**			6.04	6.77	8"	7.2"	194°	195°	2006	1796	B9.5V A2V	01h00m03.6s	+44°42'47"	6
6	36875	And	**OΣ 21**			6.76	8.07	1.2"	1"	176°	225°	2003	1845	A9IV	01h03m01.6s	+47°22'34"	6
6	37087	And	**Σ 102**		AB-C	7.19	8.79	10.3"	12"	224°	226°	2006	1832	Am	01h17m48.0s	+49°00'30"	6
6	37087	And			AB	7.31	9.18	0.5"	0.6"	276°	308°	1999	1833	B9.5V	01h17m48.0s	+49°00'30"	6
6	37087	And			AB-D	6.8	10.6	24.2"	29.9"	58°	67°	2006	1832		01h17m48.0s	+49°00'30"	6
6	37371	And	**HDS 215**			6.94	10.38	0.6"	0.5"	212°	194°	2000	1991	F5	01h37m44.6s	+48°24'46"	6
6	37878	And	**Σ 228**			6.56	7.21	0.9"	1.1"	286°	264°	2004	1829	F2V+F7V	02h14m02.4s	+47°29'03"	6
6	37971	And	**Σ 249**			7.21	8.99	2.4"	2.3"	197°	195°	2001	1831	A2	02h21m35.7s	+44°36'00"	6
6	24054	Cam	**Σ 385**			4.23	7.8	2.5"	2.4"	159°	161°	1991	1829	B9Ia	03h29m04.1s	+59°56'25"	6
6	24064	Cam	**Σ 390**		AB	5.1	10.02	14.6"	13.5"	160°	162°	1999	1831	A1V	03h30m00.2s	+55°27'06"	6
6	24064	Cam			AC	5.1	10.63	110.3"	110.1"	171°	172°	1998	1910		03h30m00.2s	+55°27'06"	6
6	24062	Cam	**Σ 389**		Aa-B	6.42	7.89	2.6"	2.7"	71°	65°	2006	1828	A2V	03h30m11.0s	+59°21'57"	6
6	24093	Cam	**Σ 396**		AB	6.3	7.68	21"	20.4"	244°	242°	2006	1829		03h33m32.2s	+58°45'55"	6
6	24093	Cam			AC	6.3	10.8	163.4"	165.3"	102°	102°	1998	1879		03h33m32.2s	+58°45'55"	6
6	24111	Cam	**Σ 400**		AB	6.79	7.97	1.5"	1.5"	268°	283°	2006	1829	F3V	03h35m01.0s	+60°02'29"	6
6	24111	Cam			AB-C	6.79	10.82	92.4"	92.7"	236°	237°	1999	1879		03h35m01.0s	+60°02'29"	6
6	12854	Cam	**OΣ 36**		A-BC	6.92	8.27	45.9"	45.8"	71°	70°	1999	1875	F5V G8V	03h39m58.9s	+63°52'12"	6
6	24169	Cam	**WEB 2**		AD	5.93	8.45	55.3"	54.4"	36°	33°	2002	1810		03h42m42.7s	+59°58'10"	6
6	24169	Cam			AE	6	10.8	169"	167.2"	162°	160°	1999	1879		03h42m42.7s	+59°58'10"	6
6	24244	Cam	**S 436**			6.46	7.17	57.3"	58.3"	76°	75°	2002	1823	A0Vn	03h49m19.8s	+57°07'06"	6
6	5006	Cam	**γ Cam**	HJ 2200	AC	4.61	9.07	106.1"	106.1"	86°	84°	1999	1892		03h50m21.5s	+71°19'56"	6
6	24307	Cam	**ENG 16**		AB	6.63	10.84	134.7"	153.4"	7°	355°	1999	1893	G0	03h56m11.4s	+59°38'32"	6
6	12968	Cam	**OΣ 67**			5.25	8.06	1.7"	1.7"	48°	44°	1991	1843	K3I-II	03h57m08.3s	+61°06'32"	6
6	24391	Cam	**HO 221**		AB	6.6	10.1	4.8"	4.6"	96°	96°	2002	1888	F7V	04h04m37.0s	+55°03'59"	6
6	24391	Cam			AC	6.6	10.4	136.2"		277°		2002	1888	F7V	04h04m37.0s	+55°03'59"	6
6	13031	Cam	**Σ 485**		AE	6.91	6.94	17.7"	18"	305°	303°	2004	1830	B0II B0II	04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 485	AC	6.91	10.39	11.1"	11.3"	0°	359°	2002	1902		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 485	AL	6.91	10.4	89.9"	89.9"	71°	71°	1902	1902	B0	04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 485	AO	6.91	9.4	138.9"	138.8"	78°	77°	1999	1881		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 485	EG	6.94	9.63	49.6"	49"	245°	244°	2001	1830		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 484	AG	6.91	9.63	61.4"	61.7"	258°	260°	1957	1905		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 484	AH	6.91	10.5	58.4"	58.8"	256°	255°	1908	1905		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 484	AI	6.91	9.81	69.6"	71.1"	279°	278°	2001	1905		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 484	EH	6.94	10.5	47"	45.3"	240°	239°	1999	1906		04h07m51.4s	+62°19'48"	6
6	13031	Cam		Σ 484	EI	6.94	9.81	54.2"	54.2"	271°	269°	2001	1905		04h07m51.4s	+62°19'48"	6
6	24577	Cam	**KUI 16**		AB	6.2	10.9	1.1"	1"	212°	200°	1969	1937	A4V	04h22m58.0s	+59°36'58"	6
6	24577	Cam		ARG 100	AB-C	6.19	9.31	32.1"	32.6"	60°	59°	2002	1902		04h22m58.0s	+59°36'58"	6
6	13291	Cam	**β 1389**			5.64	10.87	119.4"	115.4"	351°	351°	2000	1913	M3IIIab	04h52m05.2s	+63°30'19"	6
6	13317	Cam	**OΣ 88**			7.21	8.34	0.7"	0.7"	310°	296°	2002	1843	G0	04h57m15.4s	+61°45'11"	6
6	13394	Cam	**Σ 633**			6.77	10.57	11.7"	12.3"	342°	342°	2002	1831	F0	05h10m42.7s	+63°35'49"	6
6	5464	Cam	**HU 1097**			6.41	9.49	1.6"	1.5"	118°	113°	1995	1904	A0V	05h14m35.5s	+76°28'22"	6
6	5496	Cam	**Σ 634**		AB	5.05	9.2	25.8"	37"	135°	346°	2001	1825	F6V	05h22m33.5s	+79°13'53"	6
6	5620	Cam	**A 1037**		AB	6.84	10.23	0.9"	0.8"	329°	359°	1991	1904	F0	05h43m00.7s	+73°59'09"	6
6	5861	Cam	**OΣ 136**			6	11	5"	5.5"	82°	80°	1999	1847	A4V	06h28m14.5s	+70°32'07"	6
6	6511	Cam	**OΣ 188**			6.5	10.54	10.5"	10.6"	194°	194°	1999	1847	G8III G0V	08h22m09.6s	+74°49'14"	6
6	6592	Cam	**OΣ 192**			6.35	9.7	1.5"	1.8"	233°	233°	1991	1871	A2m	08h36m48.7s	+74°43'25"	6
6	1991	Cam	**SHJ 136**			6.15	8.25	70.8"	65.1"	74°	76°	2000	1876	gK5	12h11m00.0s	+81°42'35"	6
6	7521	Cam	**HDS 1721**			6.81	10.89	0.6"	0.6"	277°	277°	1991	1991	A0	12h11m48.3s	+77°26'27"	6
6	2102	Cam	**Σ 1694**		AB	5.29	5.74	21.5"	22"	328°	328°	2003	1820	A1III	12h49m13.7s	+83°24'47"	6
6	2164	Cam	**KUI 61**			6.44	9.07	1"	0.8"	183°	175°	1991	1935	K0Ib	13h12m25.4s	+80°28'17"	6
6	20572	Cas	**β 278**		AB	6.39	11.6	12.7"		175°		1890		K2III	23h20m34.5s	+62°12'48"	6
6	20572	Cas			AC	6.39	11.3	58.5"		259°		1913			23h20m34.5s	+62°12'48"	6
6	20572	Cas			AD	6.39	11.3	74.4"		185°		1913			23h20m34.5s	+62°12'48"	6
6	20614	Cas	**4 Cas**	H 4 24	AB	4.98	7.8	98.6"		226°		1879		M1III	23h24m50.3s	+62°16'58"	6
6	35478	Cas	**OΣ 496**	AR Cas	AC	4.87	7.23	76"	75.8"	268°	270°	2004	1800		23h30m01.9s	+58°32'56"	6
6	35478	Cas		SHJ 355	AB	4.87	9.3	0.9"	1.5"	335°	337°	1970	1851	B3IV	23h30m01.9s	+58°32'56"	6
6	35478	Cas		HJ 1888	AE	4.87	11.28	42.4"	43.3"	115°		1930	1870	B3IV	23h30m01.9s	+58°32'56"	6
6	35478	Cas		HJ 1888	AF	4.87	10.59	67"	67.3"	339°	338°	1991	1870		23h30m01.9s	+58°32'56"	6
6	35478	Cas		DA 2	CD	7.23	9.06	1.4"	1.5"	214°	222°	2005	1841	A1V	23h30m01.9s	+58°32'56"	6
6	20745	Cas	**HJ 1896**			6.59	11.1	16.6"	16.3"	116°	116°	1912	1902	A5III	23h38m49.1s	+62°08'06"	6
6	20791	Cas	**β 993**			6.6	10.8	2.6"	2.7"	276°	280°	1974	1880	M2III	23h42m21.0s	+64°30'55"	6
6	20866	Cas	**OΣ 507**		AB	6.76	7.76	0.7"	0.4"	315°	218°	2005	1843	A0p	23h48m39.1s	+64°52'35"	6

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
6	20866	Cas			AC	6.48	8.44	50"	48.8"	350°	354°	2003	1847		23h48m39.1s	+64°52'35"	6
6	20869	Cas	**6 Cas**	OΣ 508	AB	5.66	7.95	1.4"	1.1"	197°	195°	1994	1843	A3Ia	23h48m50.2s	+62°12'52"	6
6	20869	Cas		OΣ 508	AC	5.66	10.19	62.3"	62.2"	309°	309°	1999	1904		23h48m50.2s	+62°12'52"	6
6	20915	Cas	**OΣ 511**		AD	6.89	10.34	68.3"	69.2"	130°	130°	1999	1903		23h53m04.8s	+60°42'16"	6
6	20915	Cas			AB	6.89	10.58	10.3"	10.3"	34°	35°	2003	1848	K5	23h53m04.8s	+60°42'16"	6
6	20954	Cas	**OΣ 512**		AB	6.85	9.72	2.7"	5.4"	305°	269°	1991	1843	M2.5III	23h57m19.5s	+61°01'34"	6
6	35947	Cas	**σ Cas**	Σ 3049	AB	4.99	7.24	3.2"	2.5"	327°	331°	2004	1780	B1V	23h59m00.5s	+55°45'18"	6
6	35947	Cas		Σ 3049	AC	4.99	10.37	106.7"	109.9"	66°	67°	2001	1879		23h59m00.5s	+55°45'18"	6
6	10937	Cas	**Σ 3053**		AB	5.96	7.17	15.4"	15.2"	70°	70°	2006	1832	G9III A1V	00h02m36.1s	+66°05'56"	6
6	10937	Cas			AC	5.96	10.99	98.5"	97.6"	290°	290°	1999	1893		00h02m36.1s	+66°05'56"	6
6	21062	Cas	**Σ 3057**			6.7	9.3	3.8"	4.8"	299°	301°	2002	1830	B3V	00h04m55.0s	+58°31'56"	6
6	21085	Cas	**Σ 3062**			6.42	7.32	1.5"	1.3"	342°	37°	2006	1823	G3V	00h06m15.9s	+58°26'12"	6
6	21395	Cas	**OΣ 9**		AB	6.87	9.67	2"	1.3"	51°	53°	2002	1845	G3III	00h26m12.0s	+56°46'45"	6
6	21395	Cas			AC	6.87	9.9	22.4"	23"	3°	102°	2003	1897	G3III	00h26m12.0s	+56°46'45"	6
6	36374	Cas	**Σ 30**		AB	6.96	8.92	14.1"	21.2"	312°	296°	2006	1831	B9III	00h27m12.5s	+49°59'09"	6
6	36374	Cas		FLE 1	AD	6.7	10	149.2"	148.5"	261°	250°	1998	1956		00h27m12.5s	+49°59'09"	6
6	36542	Cas	**Σ 45**		AB	6.9	9.9	18.3"	8.8"	90°	83°	2003	1829	G9III	00h38m41.5s	+46°57'24"	6
6	36550	Cas	**OΣ 16**			5.7	10.2	12.8"	16.9"	22°	25°	1998	1845	K4III	00h39m09.9s	+49°21'16"	6
6	4176	Cas	**OΣ 5**			6.86	8.78	117.8"	115.5"	142°	144°	1999	1875	K0	00h39m59.5s	+76°52'16"	6
6	21609	Cas	**α Cas**	H 5 18	AD	2.35	8.98	69.5"	56.2"	282°	275°	1998	1781		00h40m55s	+56 34'29"	6
6	21677	Cas	**β 492**		AC	5.5	10.4	88.6"	88.3"	26°	24°	2000	1909		00h45m17.2s	+55°13'17"	6
6	4216	Cas	**21 Cas**	H N 122		5.66	10.57	35.9"	36.6"	160°	160°	1999	1896	A2IV	00h45m39.1s	+74°59'17"	6
6	21732	Cas	**η Cas**	Σ 60	AB	3.52	7.36	12.9"	11.3"	319°	62°	2005	1779	G0V dM0	00h49m06.7s	+57°48'51"	6
6	21732	Cas		Σ 60	AE	3.52	10.15	91.8"	276.2"	127°	118°	2002	1856		00h49m06.7s	+57°48'51"	6
6	11444	Cas	**β 497**		AB	4.82	9.5	145"	121.2"	172°	172°	2003	1878	F7V	00h53m04.2s	+61°07'28"	6
6	21814	Cas	**Σ 70**		AB	6.33	9.49	8.2"	9"	246°	243°	2002	1831	A0	00h53m47.6s	+52°41'21"	6
6	21814	Cas			AC	6.2	9.8	75.3"	80.3"	151°	148°	1985	1903		00h53m47.6s	+52°41'21"	6
6	36853	Cas	**ES 45**			6.9	10.8	7.8"	7.9"	244°	242°	2002	1900	G5	01h01m27.0s	+49°32'39"	6
6	11551	Cas	**β 396**			6.06	8.62	1.5"	1.2"	64°	66°	1995	1877	F0II	01h03m37.0s	+61°04'29"	6
6	22021	Cas	**H 4 66**		AB	6.5	10.1	20.4"	24"	74°	77°	2006	1783	K2III	01h07m09.5s	+53°29'53"	6
6	22060	Cas	**β 235**		AP	6.9	7.93	0.97"		129°		1991			01h10m34.3s	+51°00'48"	6
6	22060	Cas		OΣ 12	AC	6.9	9	59.4"		68°					01h10m34.3s	+51°00'48"	6
6	11637	Cas	**β 258**		AB	6.5	8.8	1.5"	0.8"	263°	260°	1991	1875	B9V	01h13m09.9s	+61°42'22"	6
6	22191	Cas	**φ Cas**	H 3 23	AC	5.07	7.04	135.3"	133.8"	233°	231°	2001	1903	B5	01h20m04.9s	+58°13'54"	6
6	22191	Cas		H 3 23	AD	5.07	10.26	178.7"	179"	288°	287°	2003	1880		01h20m04.9s	+58°13'54"	6
6	22191	Cas		H 3 23	AE	5.07	10.4	169.9"	170"	239°	239°	2003	1911		01h20m04.9s	+58°13'54"	6
6	22191	Cas		H 3 23	CE	7.04	10.38	41.8"	41.5"	265°	265°	2003	1907		01h20m04.9s	+58°13'54"	6
6	11712	Cas	**35 Cas**	S 397		6.34	8.63	57"	42.6"	342°	355°	2001	1782	A2Vnn	01h21m05.3s	+64°39'29"	6
6	22230	Cas	**Σ 115**		AB	7.1	7.3	0.3"	0.7"	166°	158°	2004	1831	F5V	01h23m21.5s	+58°08'34"	6
6	11751	Cas	**ψ Cas**	H 5 83	AC	4.68	9.18	22.1"	33.4"	123°	100°	1998	1783		01h25m56.0s	+68°07'48"	6
6	11751	Cas		β 1101	AD	4.68	10	22.4"	26.5"	120°	107°	1983	1894		01h25m56.0s	+68°07'48"	6
6	11846	Cas	**MLB 280**			6.73	11.3	58.4"		79°		1923			01h35m24.3s	+63°04'55"	6
6	22520	Cas	**HJ 1088**		AB	6.34	9.79	19.8"	19.7"	169°	168°	2006	1900	B7III Am	01h42m17.7s	+58°37'40"	6
6	11941	Cas	**44 Cas**	β 1103	AC	5.77	10.96	68.3"	65.1"	311°	310°	1999	1901	B8IIIn	01h43m19.8s	+60°33'05"	6
6	22566	Cas	**β 870**		AB	6.29	8.68	0.7"	1"	348°	69°	1999	1880	A3V	01h44m18.0s	+57°32'12"	6
6	11983	Cas	**ENG 7**			5.8	8.9	45.9"	102.7"	176°	135°	2003	1892	K0V	01h47m45.1s	+63°51'07"	6
6	12006	Cas	**Σ 163**		AB	6.8	9.13	35"	34.9"	37°	34°	2006	1831	K4+Ib-IIa	01h51m16.9s	+64°51'18"	6
6	12006	Cas			AC	6.8	10.74	114.4"	114.8"	255°	254°	2000	1879	K4+Ib-IIa	01h51m16.9s	+64°51'18"	6
6	4512	Cas	**Σ 170**			7.49	8.24	3.2"	3.2"	244°	247°	1998	1830	A5	01h55m27.3s	+76°13'28"	6
6	12076	Cas	**HJ 1100**			5.26	9.5	42.5"	38.3"	310°	311°	1999	1894	A0Vn	01h59m38.1s	+64°37'18"	6
6	4554	Cas	**48 Cas**	β 513	AB	4.65	6.74	0.8"	1"	267°	264°	2000	1878	A3V	02h01m57.4s	+70°54'25"	6
6	4550	Cas	**Σ 185**		AB	6.77	8.58	1.1"	1.5"	8°	32°	2003	1831	A0	02h02m09.3s	+75°30'08"	6
6	4550	Cas			AC	6.77	8.94	120.7"	115.9"	170°	175°	1999	1894		02h02m09.3s	+75°30'08"	6
6	4559	Cas	**Σ 191**			6.2	9.1	5.1"	5.6"	195°	191°	2006	1832	A5III	02h03m10.4s	+73°51'02"	6
6	23194	Cas	**OΣ 26**			6.95	7.3	63.2"	63.5"	202°	200°	2002	1875	A2V	02h19m44.5s	+60°01'46"	6
6	12298	Cas	**ι Cas**	Σ 262	Aa-B	4.63	6.92	2.9"	1.5"	230°	290°	2004	1782	A5pSr	02h29m03.9s	+67°24'09"	6
6	12298	Cas		Σ 262	Aa-C	4.63	9.05	8.9"	7.5"	99°	101°	2006	1779	A5	02h29m03.9s	+67°24'09"	6
6	12298	Cas		Σ 262	Aa-D	4.63	8.48	210.6"	209"	60°	58°	1991	1892		02h29m03.9s	+67°24'09"	6
6	12298	Cas		Σ 262	CD	6.92	8.48	213.5"	205.7"	60°	57°	1991	1880		02h29m03.9s	+67°24'09"	6
6	12369	Cas	**OΣ 28**			6.65	7.56	67.8"	67.8"	148°	147°	1999	1875	B9	02h38m58.4s	+62°35'29"	6
6	23662	Cas	**BLL 8**		AB	6.46	9.93	195.5"	192.7"	148°	147°	2002	1879	A1m	02h51m45.9s	+58°18'51"	6
6	12519	Cas	**BLL 9**			6.44	10.61	117.9"	115.6"	130°	129°	1999	1879	K3Ibv	02h56m24.6s	+64°19'57"	6
6	4858	Cas	**HJ 2173**			6.8	10.7	43.8"	25"	163°	164°	1999	1831	K0	03h15m07.5s	+73°52'05"	6

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
6	9665	Cep	**κ Cep**	Σ 2675	AB	4.39	8.34	7.2"	5.8"	120°	123°	2003	1782	B9III	20h08m53.3s	+77°42'41"	6
6	9665	Cep		Σ 2675	AC	4.39	10.32	169.3"	169.9"	334°	337°	1999	1895		20h08m53.3s	+77°42'41"	6
6	10057	Cep	**β Cep**	Σ 2806	Aa-B	3.17	8.63	13.2"	13.4"	248°	255°	1999	1781		21h28m39.6s	+70°33'39"	6
6	19922	Cep	**Σ 2883**			5.56	8.56	15.6"	14.8"	253°	255°	2006	1823	F2V	22h10m38.8s	+70°07'57"	6
6	10284	Cep	**Σ 2893**			6.19	7.91	29.5"	29"	346°	349°	2006	1830		22h12m52.8s	+73°18'26"	6
6	20150	Cep	**Σ 2924**		AB	6.28	7.82	0.1"	0.8"	143°	257°	2003	1831	A9III	22h33m03.0s	+69°54'49"	6
6	20150	Cep			AB-C	6	10.5	123.6"	114.4"	196°	193°	1999	1910		22h33m03.0s	+69°54'49"	6
6	20150	Cep			AB-D	6	10.2	187.3"	178.3"	197°	195°	1999	1910		22h33m03.0s	+69°54'49"	6
6	10418	Cep	**Σ 2923**		AB	6.32	9.24	9.7"	12"	45°	47°	2006	1831	A0V	22h33m16.8s	+70°22'25"	6
6	10418	Cep			AC	6.32	11.3	97"		146°		1911		A0V	22h33m16.8s	+70°22'25"	6
6	3794	Cep	**OΣ 482**		AB	5	9.7	3.5"	3.5"	38°	30°	1992	1850	K3III	22h47m29.1s	+83°09'14"	6
6	20295	Cep	**OΣ 238**		AB	7.02	7.58	69.2"	61.9"	280°	278°	1999	1783	F2	22h52m42.3s	+67°59'25"	6
6	10629	Cep	**π Cep**	OΣ 489	AB	4.61	6.8	1.1"	1.8"	350°	330°	2005	1843	G0IV	23h07m53.9s	+75°23'15"	6
6	20554	Cep	**ο Cep**	Σ 3001	AB	4.97	7.28	3.3"	2.4"	221°	175°	2005	1832	G8III	23h18m37.5s	+68°06'41"	6
6	3904	Cep	**HO 200**			6.65	10.61	2.4"	1.7"	152°	138°	1991	1885	F0IV	23h24m20.7s	+86°25'04"	6
6	10879	Cep	**β 996**		AC	6.49	9.14	145.7"	165.7"	141°	131°	2000	1894		23h52m25.4s	+75°32'41"	6
6	4048	Cep	**Σ 2**			6.68	6.89	0.9"	0.8"	18°	343°	2005	1828	A4IV	00h09m20.2s	+79°42'52"	6
6	4071	Cep	**Σ 13**			7.03	7.12	0.9"	0.5"	52°	127°	2005	1828	B8Vnn	00h16m13.9s	+76°57'03"	6
6	168	Cep	**KNT 1**	U Cep		4.46	7.5	0.5"	0.7"	123°	326°	2002	1982		01h02m18.4s	+81°52'32"	6
6	345	Cep	**OΣ 37**			6.99	9.15	1.2"	1.3"	206°	223°	1996	1843	A3	02h10m30.0s	+81°28'55"	6
6	4594	Cep	**S 405**		AB	6.47	7.15	55.1"	55.8"	277°	275°	2002	1823	A5III	02h12m49.9s	+79°41'30"	6
6	4810	Cep	**Σ 320**			5.72	9.15	4.7"	4.4"	231°	227°	2002	1831		03h06m07.8s	+79°25'07"	6
6	500	Cep	**Σ 327**			5.95	10.7	21"	25"	288°	282°	2000	1902	A7III-IV	03h11m42.7s	+81°28'15"	6
6	650	Cep	**Σ 460**			5.62	6.32	0.7"	0.8"	142°	350°	2005	1828	G8III A4V	04h10m02.7s	+80°41'55"	6
6	8890	Dra	**ψ Dra**	Σ 2241	AB	4.6	5.59	30.7"	32"	16°	14°	2006	1800	F5IV F8V	17h41m56.4s	+72°08'54"	6
6	8890	Dra		Σ 2241	AC	4.6	11.4	89.7"	101.5"	120°	128°	1923	1857	F5IV F8V	17h41m56.4s	+72°08'54"	6
6	8996	Dra	**41 Dra**	Σ 2308	AB	5.7	6	19.2"	20.7"	232°	236°	2006	1782	F7V F7V	18h00m09.2s	+80°00'16"	6
6	8996	Dra		Σ 2308	AC	5.7	8.34	223.9"	220.2"	128°	129°	1999	1911		18h00m09.2s	+80°00'16"	6
6	8999	Dra	**Σ 2302**		AC	6.9	9.4	24"	23.2"	278°	282°	2006	1833		18h02m50.9s	+75°47'25"	6
6	8999	Dra			AB	7.03	9.97	5.5"	5.8"	247°	246°	2002	1833	A0V	18h02m50.9s	+75°47'25"	6
6	9286	Dra	**Σ 2452**			6.73	7.35	5.7"	6.5"	218°	218°	2006	1825	A1V	18h53m33.2s	+75°47'15"	6
6	3209	Dra	**Σ 2572**			6.51	10	22.5"	25"	194°	200°	2003	1898	A3V	19h15m08.0s	+83°27'46"	6
6	9467	Dra	**KU 2**			6.92	8.78	0.6"	1.4"	232°	270°	2000	1889	F5V	19h34m24.9s	+71°36'19"	6
6	9540	Dra	**ε Dra**	Σ 2603		4.01	6.87	3.2"	2.5"	19°	333°	2005	1781	G7IIIb	19h48m10.4s	+70°16'05"	6
6	9606	Dra	**69 Dra**	HU 956	AC	6.42	10.03	138.3"	134.4"	132°	130°	1999	1895		19h59m36.6s	+76°28'53"	6
6	3364	Dra	**Σ 2694**			6.85	9.58	4.2"	3.7"	345°	346°	2005	1832	B9.5IV	20h14m26.1s	+80°31'54"	6
6	3408	Dra	**75 Dra**	STH 7	AC	5.48	6.66	196.6"	198.4"	282°	285°	2000	1884		20h28m14.6s	+81°25'22"	6
6	37536	Per	**Σ 162**		Aa-B	5.8	7.22	1.9"	2.2"	200°	227°	2006	1828		01h49m15.5s	+47°53'49"	6
6	37536	Per			Aa-C	5.8	9.4	20.4"	20.6"	179°	177°	2006	1828		01h49m15.5s	+47°53'49"	6
6	37536	Per			Aa-D	5.8	10.01	138.3"	134.7"	95°	95°	2003	1881	A2	01h49m15.5s	+47°53'49"	6
6	37536	Per			BC	7	8.4	18.8"	20.1"	176°	177°	2003	1902		01h49m15.5s	+47°53'49"	6
6	23033	Per	**OΣ 24**		AB	7.08	8.76	88.9"	55.7"	332°	332°	2004	1875	G2/3V	02h12m56.2s	+57°12'15"	6
6	23115	Per	**OΣ 25**			6.52	7.41	101.7"	102.9"	205°	204°	2004	1875	B1Iabe	02h16m51.7s	+57°03'19"	6
6	23149	Per	**7 Per**	S 409	AD	6.11	9.62	123.4"	124.5"	138°	136°	2002	1824	G7III	02h18m04.6s	+57°30'59"	6
6	23149	Per		β 1170	A-BC	5.99	10.7	68.4"	65"	353°	354°	1914	1835	G7III	02h18m04.6s	+57°30'59"	6
6	23149	Per		β 1170	AE	5.99	10.7	207.2"	206.7"	12°	11°	1999	1880	G7III	02h18m04.6s	+57°30'59"	6
6	23369	Per	**Σ 268**			6.72	8.5	3"	2.5"	130°	132°	2006	1828	A2pShell	02h29m25.0s	+55°32'10"	6
6	23425	Per	**OΣ 42**		AB-D	6.68	9.99	128.4"	124.7"	84°	83°	2002	1875		02h33m18.9s	+52°18'32"	6
6	38274	Per	**β 521**		AC	6.6	10.7	72.1"	73.1"	233°	233°	1999	1898		02h43m01.9s	+48°15'55"	6
6	23655	Per	**η Per**	Σ 307	AB	3.76	8.5	28.5"	26"	301°	290°	2002	1779	M3Ib-IIa	02h50m41.8s	+55°53'44"	6
6	23655	Per		Σ 307	AC	3.76	9.9	66.3"	67"	269°	268°	1925	1878	M3Ib-IIa	02h50m41.8s	+55°53'44"	6
6	23674	Per	**Σ 314**		AB-C	6.95	7.26	1.6"	1.3"	314°	291°	2006	1825		02h52m52.0s	+52°59'50"	6
6	38418	Per	**OΣ 48**			6.5	10.6	6.6"	4.5"	319°	322°	1991	1851	G5Iab:	02h53m21.1s	+48°34'12"	6
6	38424	Per	**β 1293**			6.81	10.45	2"	1.7"	349°	352°	1991	1900	B9	02h54m01.0s	+47°09'39"	6
6	23763	Per	**Σ 331**			5.21	6.17	11.9"	13.5"	85°	81°	2002	1800	B7V B9V	03h00m52.2s	+52°21'06"	6
6	23907	Per	**HU 544**			6.72	8.2	1.6"	0.6"	102°	98°	2006	1902	A0	03h15m48.7s	+50°57'21"	6
6	38872	Per	**34 Per**	β 1179		4.72	7.34	0.7"	0.7"	147°	163°	1999	1890	B3V	03h29m22.1s	+49°30'32"	6
6	38874	Per	**OΣ 55**		AB	6.24	10.8	31"	28.1"	296°	289°	1999	1843	B7V	03h29m26.3s	+46°56'16"	6
6	38908	Per	**OΣ 56**		AB	6.76	10.67	32.1"	22.9"	352°	351°	2002	1843	B8V	03h31m33.1s	+47°51'45"	6
6	24231	Per	**OΣ 63**			6.2	11.2	7"		270°		1848		B8Vne	03h48m18.1s	+50°44'12"	6
6	24248	Per	**Σ 446**		AB	6.86	9.9	8.7"	8.5"	254°	253°	2002	1830	B0.5III	03h49m27.6s	+52°39'19"	6
6	24300	Per	**HDS 494**			6.91	9.82	0.7"	0.7"	178°	178°	1999	1991	O9IV-V	03h55m38.4s	+52°38'29"	6

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
6	6504	UMa	**Σ 1193**		AB	6.16	9.69	42.7"	30"	90°	84°	2001	1830	K4III F0	08h20m40.3s	+72°24'26"	**6**
6	7099	UMa	**Σ 1415**		AB	6.65	7.27	16.5"	16.7"	167°	165°	2003	1823	A7m	10h17m50.5s	+71°03'38"	**6**
6	7099	UMa			AC	6.65	10.85	152.7"	148.6"	12°	10°	1999	1879		10h17m50.5s	+71°03'38"	**6**
6	7229	UMa	**ENG 44**		AB	6.03	9.21	208.8"	170.1"	59°	51°	2000	1894		10h53m30.6s	+69°51'13"	**6**
6	7867	UMi	**HJ 2682**		AC	6.7	9	43.8"	50"	318°	317°	2003	1831		13h40m40.8s	+76°50'38"	**6**
6	7867	UMi			AB	6.71	10.26	25.6"	18"	282°	280°	2003	1831	A7V	13h40m40.8s	+76°50'38"	**6**
6	8612	UMi	**KU 1**		AC	6	9.8	106.6"	128.4"	13°	16°	1999	1895		16h43m06.3s	+77°30'52"	**6**
6	8612	UMi			AB	6.06	10.2	2.6"	2.7"	179°	188°	1991	1889	F5IV	16h43m06.3s	+77°30'52"	**6**
6	8111	UMi	**HU 908**		AB	6.79	8.85	1.4"	1.2"	243°	266°	1991	1904	K0IV	14h53m03.7s	+78°10'36"	**6**
6	8111	UMi			AC	6.79	10.87	113"	112.7"	140°	143°	1999	1897		14h53m03.7s	+78°10'36"	**6**
6	2556	UMi	**Σ 1972**		AB	6.64	7.3	31.7"	31.1"	78°	83°	2000	1823		15h29m11.2s	+80°26'56"	**6**
6	2556	UMi			AC	6.64	11.5	153.8"		102°		2000	1823		15h29m11.2s	+80°26'56"	**6**
6	308	UMi	**α UMi**		AB	1.9	8.2	18.3		217°		1990		F7Ib	02h31m48.7s	+89°15'51"	**6**

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7	73664	And	**β 860**			6.61	11.4	6.7"		107°		1881			00h00m01.2s	+38°51'33"	**7**
7	36037	And	**OΣ 514**		Aa-B	6.16	9.65	5.2"	5.2"	170°	171°	2002	1847		00h04m36.6s	+42°05'33"	**7**
7	36042	And	**β 997**		AC	6.71	9.5	21.6"		235°		1906			00h05m09.7s	+45°13'44"	**7**
7	73743	And	**ENG 1**		A-CD	6.3	9.9	142.4"	156.4"	196°	182°	1991	1886		00h06m37.0s	+29°01'16"	**7**
7	73743	And		OΣ 549	AB	6.15	10.34	186.7"	143.1"	259°	244°	2002	1853	K0V	00h06m37.0s	+29°01'16"	**7**
7	53661	And	**Σ 3064**			6.84	10.5	25.7"	22"	7°	341°	2003	1783	K0III	00h07m37.9s	+40°08'53"	**7**
7	36157	And	**HDS 28**			6.64	9.72	0.8"	0.8"	29°	29°	1991	1991	K0	00h12m34.2s	+44°42'26"	**7**
7	73823	And	**OΣ 2**		AB	6.77	7.67	0.4"	0.6"	167°	42°	2005	1843	F8V	00h13m23.9s	+26°59'15"	**7**
7	73823	And			AB-C	6.3	10.37	18"	17.2"	224°	225°	1997	1843		00h13m23.9s	+26°59'15"	**7**
7	36221	And	**HJ 1947**		AB	6.16	9.83	8.9"	10"	75°	81°	2003	1831	A2VpSi	00h16m21.5s	+43°35'42"	**7**
7	53772	And	**Σ 19**			7.12	9.48	2.4"	2"	141°	134°	1999	1830	A2V	00h16m43.0s	+36°37'47"	**7**
7	36256	And	**26 And**	OΣ 5		6	9.7	6.4"	7.1"	240°	235°	2002	1846	B8V	00h18m42.2s	+43°47'28"	**7**
7	36280	And	**A 647**			7.17	9.56	0.7"	0.7"	106°	216°	2002	1904	F5	00h20m33.0s	+45°30'32"	**7**
7	53827	And	**AC 1**			7.27	8.26	1.8"	0.4"	289°	278°	2003	1859	F5V	00h20m54.1s	+32°58'40"	**7**
7	53956	And	**HJ 5451**			6.01	9.34	55.3"	56.3"	85°	85°	2005	1875	K1III	00h31m25.7s	+33°34'54"	**7**
7	74086	And	**β 1310**		AD	7.1	9.2	94"	96.5"	154°	145°	1997	1902		00h32m39.6s	+23°11'37"	**7**
7	74090	And	**OΣ 14**		AB	6.3	11.3	8.6"	8.7"	159°	160°	1961	1847	G8III	00h32m49.1s	+28°16'49"	**7**
7	74090	And			AC	6.3	12	60"		84°		1912			00h32m49.1s	+28°16'49"	**7**
7	53999	And	**Σ 40**		AB	6.72	8.48	12.7"	11.3"	311°	313°	2006	1830	K4III	00h35m09.6s	+36°49'56"	**7**
7	54033	And	**π And**	H 5 17	Aa-B	4.32	7.08	36.4"	35.6"	175°	175°	2006	1821	B5V	00h36m52.9s	+33°43'10"	**7**
7	52626	And	**Σ 2973**	LN And		6.41	10.14	7.4"	7.4"	39°	41°	2003	1831	B2V	23h02m45.2s	+44°03'31"	**7**
7	52912	And	**OΣ 244**		AB	6.41	10.15	97.8"	78.9"	295°	305°	2002	1875	K1III	23h19m41.6s	+48°22'52"	**7**
7	52912	And			AC	6.41	11.4	134.3"	136.4"	105°	104°	1925	1910	K1III	23h19m41.6s	+48°22'52"	**7**
7	52927	And	**Σ 3004**			6.26	10.13	13.5"	13.1"	177°	178°	2003	1833	A5Vn	23h20m44.1s	+44°06'58"	**7**
7	73190	And	**12 And**	ENG 86	AB	5.82	9.67	126.4"	118.8"	259°	256°	2002	1886	F5V	23h20m53.3s	+38°10'56"	**7**
7	53202	And	**OΣ 500**		AB	6.08	7.38	0.5"	0.3"	9°	273°	2005	1843	B8V	23h37m32.1s	+44°25'44"	**7**
7	53202	And			AB-C	6.08	10.95	117.9"	116.6"	334°	335°	1998	1894		23h37m32.1s	+44°25'44"	**7**
7	53225	And	**β 722**		AD	6.8	10.9	47.2"	44.6"	248°	247°	1998	1894		23h38m26.5s	+42°30'41"	**7**
7	73422	And	**OΣ 501**			6.54	10.57	15"	14.2"	163°	164°	1998	1843	F2IV	23h40m02.8s	+37°39'09"	**7**
7	53355	And	**ψ And**	β 1532	Aa-D	5.09	9.46	186.6"	184"	153°	152°	2002	1879	K0	23h46m02.1s	+46°25'13"	**7**
7	53374	And	**β 995**			6.11	8.73	0.8"	0.9"	246°	244°	1999	1879	B3IV	23h47m33.1s	+46°49'57"	**7**
7	73597	And	**HO 205**		AD	6.72	9.41	117.5"	102.3"	216°	211°	2002	1913		23h54m04.1s	+39°16'57"	**7**
7	73640	And	**OΣ 513**			6.82	9.34	3.4"	3.6"	18°	18°	2005	1851	A3	23h58m21.2s	+35°00'47"	**7**
7	73656	And	**Σ 3050**		AB	6.46	6.72	2.2"	4"	334°	180°	2006	1777	F8V	23h59m29.3s	+33°43'25"	**7**
7	127036	Aqr	**β 689**			7.19	10.47	1.8"	1.8"	244°	235°	1991	1877	K2	21h44m48.2s	+02°59'32"	**7**
7	145716	Aqr	**SCA 104**			6.59	11	63.2"	63.3"	116°	116°	1998	1893	A0	21h52m21.3s	-03°10'29"	**7**
7	145735	Aqr	**Σ 2838**			6.29	9.52	16.1"	21.7"	182°	185°	2003	1829	F5IV	21h54m35.9s	-03°18'05"	**7**
7	146067	Aqr	**51 Aqr**	β 172	AB-E	5.77	9.87	130.3"	133"	133°	133°	2002	1893		22h24m06.9s	-04°50'13"	**7**
7	146067	Aqr		β 172	AB-C	5.78	10.1	53.1"	54.4"	343°	342°	2005	1898		22h24m06.9s	-04°50'13"	**7**
7	146067	Aqr		β 172	AB-D	5.78	10	123.3"	113"	191°	190°	2002	1893		22h24m06.9s	-04°50'13"	**7**
7	146160	Aqr	**60 Aqr**	β 1515	AB	5.89	10.3	100.2"	95.6"	298°	298°	1999	1896	G6III	22h34m02.9s	-01°34'28"	**7**
7	146160	Aqr		β 1515	AC	5.9	10.5	126.9"	124"	276°	274°	1999	1896		22h34m02.9s	-01°34'28"	**7**
7	146210	Aqr	**κ Aqr**	HJ 5529		5	8.8	93"	103.1"	243°	246°	1980	1896	K2III	22h37m45.3s	-04°13'42"	**7**
7	146261	Aqr	**SCA 130**			6.98	10.4	74.9"	74"	189°	189°	2000	1895	F0	22h42m49.2s	+00°13'55"	**7**
7	127707	Aqr	**Σ 2936**			7.04	9.6	4.5"	5"	51°	47°	2003	1830	A6III	22h42m58.1s	+01°13'02"	**7**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
7	36374	Cas	**Σ 30**		AB	6.96	8.92	14.1"	21.2"	312°	296°	2006	1831	B9III	00h27m12.5s	+49°59'09"	7
7	36374	Cas		FLE 1	AD	6.7	10	149.2"	148.5"	261°	250°	1998	1956		00h27m12.5s	+49°59'09"	7
7	36542	Cas	**Σ 45**		AB	6.9	9.9	18.3"	8.8"	90°	83°	2003	1829	G9III	00h38m41.5s	+46°57'24"	7
7	36550	Cas	**OΣ 16**			5.7	10.2	12.8"	16.9"	22°	25°	1998	1845	K4III	00h39m09.9s	+49°21'16"	7
7	36853	Cas	**ES 45**			6.9	10.8	7.8"	7.9"	244°	242°	2002	1900	G5	01h01m27.0s	+49°32'39"	7
7	22060	Cas	**β 235**		AP	6.9	7.93	0.97"		129°		1991			01h10m34.3s	+51°00'48"	7
7	22060	Cas		OΣ 12	AC	6.9	9	59.4"		68°					01h10m34.3s	+51°00'48"	7
7	35092	Cas	**HDS 3280**		AB	6.51	10.15	18.7"	21.6"	48°	54°	2003	1843	B9III	23h02m43.9s	+55°14'11"	7
7	35092	Cas		OΣ 485	AC	6.51	10.48	56.2"	45"	80°	82°	1998	1843		23h02m43.9s	+55°14'11"	7
7	35092	Cas		OΣ 485	Aa	6.51	10.52	0.7"		140°		1991		B9III	23h02m43.9s	+55°14'11"	7
7	35869	Cas	**OΣ 251**		AB	6.89	9.14	46.9"	42.4"	207°	197°	2003	1875	K0	23h53m34.3s	+51°31'21"	7
7	35869	Cas			Ac	6.89	11.8	50.1"		129°		2003	1875	K0	23h53m34.3s	+51°31'21"	7
7	35947	Cas	**σ Cas**	Σ 3049	AB	4.99	7.24	3.2"	2.5"	327°	331°	2004	1780	B1V	23h59m00.5s	+55°45'18"	7
7	35947	Cas		Σ 3049	AC	4.99	10.37	106.7"	109.9"	66°	67°	2001	1879		23h59m00.5s	+55°45'18"	7
7	33819	Cep	**Σ 2840**		AB	5.64	6.42	18.2"	21.2"	196°	192°	2006	1782	B6IV-V	21h52m01.1s	+55°47'48"	7
7	33034	Cyg	**Σ 2741**		AB	5.94	6.79	2"	1.2"	26°	44°	2006	1783	B5Vn	20h58m30.0s	+50°27'42"	7
7	33034	Cyg			AC	5.5	10.5	138.1"	139.4"	355°	356°	1999	1879		20h58m30.0s	+50°27'42"	7
7	50536	Cyg	**OΣ 215**		CD	7.25	7.46	1.5"	0.3"	180°	256°	2006	1843	A9IV	21h10m31.0s	+47°41'32"	7
7	50536	Cyg		β 159	AB	6.55	9.07	1.2"	1.2"	313°	330°	2003	1873	B6IV	21h10m31.0s	+47°41'32"	7
7	50536	Cyg		OΣ 215	AC	6.55	7.52	135.7"	134.1"	189°	190°	1999	1875		21h10m31.0s	+47°41'32"	7
7	71195	Cyg	**OΣ 434**		AB	6.67	9.93	24.5"	26.5"	122°	114°	2006	1828	B9V	21h19m00.0s	+39°44'58"	7
7	33323	Cyg	**S 786**			6.94	9.16	47.1"	48.5"	300°	301°	2003	1824	K2	21h19m40.8s	+53°03'29"	7
7	71329	Cyg	**69 Cyg**	S 790	AC	5.89	8.9	53.3"	53.9"	99°	98°	2003	1895		21h25m47.0s	+36°40'03"	7
7	71329	Cyg		S 790	AB	5.93	10.22	33"		30°		2003	1895		21h25m47.0s	+36°40'03"	7
7	89834	Cyg	**β 167**			6.37	9.95	1.8"	1.5"	89°	110°	1997	1873	G8III	21h36m14.0s	+30°03'20"	7
7	51167	Cyg	**75 Cyg**	AC 20	AB	5.1	9.8	2.8"	2.9"	326°	323°	1975	1860	M2III	21h40m11.1s	+43°16'26"	7
7	51167	Cyg		OΣ 221	AC	5.28	10.26	62.2"	54.4"	253°	255°	2003	1875		21h40m11.1s	+43°16'26"	7
7	51167	Cyg		OΣ 221	AC	5.28	10.26	62.2"	54.4"	253°	255°	2003	1875		21h40m11.1s	+43°16'26"	7
7	51189	Cyg	**76 Cyg**	S 796	AB	6.08	9.47	58.3"	64.3"	233°	230°	2002	1879	A2V	21h41m34.2s	+40°48'18"	7
7	71643	Cyg	**79 Cyg**	S 799	AB	5.69	7	150.3"	153.2"	61°	59°	2001	1824	A0V	21h43m25.7s	+38°17'01"	7
7	89940	Cyg		Σ 2822	BD	6.18	6.94	198.7"	213.9"	46°	60°	1991	1823	A5	21h44m08.7s	+28°44'32"	7
7	89940	Cyg	**μ Cyg**	Σ 2822	AB	4.75	6.18	1.8"	11"	311°	108°	2005	1777	F6V G2V	21h44m08.7s	+28°44'32"	7
7	89940	Cyg		Σ 2822	AD	4.75	6.94	197.5"	216.5"	45°	62°	2001	1800	F7V F2V	21h44m08.7s	+28°44'32"	7
7	33835	Cyg	**HDS 3115**			6.66	10.48	1.4"	1.4"	75°	75°	1991	1991	A2	21h53m19.8s	+53°59'50"	7
7	51595	Cyg	**β 694**		AB	5.71	7.76	1"	0.5"	6°	352°	2003	1878	A0IV	22h02m56.7s	+44°38'59"	7
7	51595	Cyg			AC	5.5	10.5	66.5"	66.8"	310°	309°	1984	1918		22h02m56.7s	+44°38'59"	7
7	51698	Lac	**HJ 1735**		AB	6.73	9.69	27.6"	27.1"	110°	110°	2006	1901	B9IV	22h09m15.2s	+44°50'47"	7
7	72155	Lac	**HJ 1746**			4.6	10.6	28.4"	27.2"	184°	179°	1904	1879	K3III	22h13m52.7s	+39°42'54"	7
7	72228	Lac	**Σ 2894**		AB	6.21	8.85	16.1"	13.7"	196°	194°	2006	1779	A8III	22h18m56.2s	+37°46'10"	7
7	51919	Lac	**HJ 1756**		Aa-B	4.65	10.6	30.4"	27.2"	188°	179°	1999	1879		22h21m52.8s	+40°39'59"	7
7	72344	Lac	**Σ 2906**			6.46	9.64	3.7"	4.5"	1°	4°	2000	1832	B2V	22h26m45.6s	+37°26'37"	7
7	34519	Lac	**LEO 53**			6.51	11.5	13.9"		312°		1928			22h29m53.5s	+52°25'00"	7
7	52073	Lac	**FRK 11**	V350 Lac		6.55	10.74	66.4"	64.4"	91°	93°	1998	1902	K2III	22h30m06.5s	+49°21'23"	7
7	72446	Lac	**ROE 47**		AB	5.8	9.8	42.3"	43.5"	156°	158°	2003	1895	A6V	22h32m26.4s	+39°46'47"	7
7	72446	Lac			AC	5.8	10.1	34"	32.4"	342°	344°	2000	1910		22h32m26.4s	+39°46'47"	7
7	72446	Lac			AD	5.8	9.4	103.3"	105.7"	218°	216°	2000	1910		22h32m26.4s	+39°46'47"	7
7	72509	Lac	**8 Lac**	Σ 2922	Aa-B	5.66	6.29	22.7"	17.2"	185°	186°	2006	1782	B2Ve B5	22h35m52.3s	+39°38'04"	7
7	72509	Lac		Σ 2922	BC	6.45	10.3	28.7"	28.2"	154°	155°	2006	1830		22h35m52.3s	+39°38'04"	7
7	72509	Lac		A 1469	Aa-C	5.73	10.5	48.3"	49.4"	168°	169°	2005	1866		22h35m52.3s	+39°38'04"	7
7	72509	Lac		A 1469	Aa-D	5.66	9.08	81"	82.5"	145°	145°	2006	1823	A0	22h35m52.3s	+39°38'04"	7
7	72509	Lac		A 1469	Aa-E	5.66	7.25	333.8"	337.2"	239°	239°	2006	1895	F0	22h35m52.3s	+39°38'04"	7
7	72509	Lac		A 1469	BD	6.45	8.5	65.3"	67.1"	131°	133°	2003	1823		22h35m52.3s	+39°38'04"	7
7	72509	Lac		A 1469	BE	6.29	7.25	320.1"	325.1"	241°	243°	1991	1880		22h35m52.3s	+39°38'04"	7
7	72569	Lac	**OΣ 475**		AB	6.84	10.8	15.8"	15.5"	72°	73°	2006	1847	B2V	22h39m04.6s	+37°22'31"	7
7	72575	Lac	**10 Lac**	S 813		4.84	10.3	62.2"	52.6"	49°	51°	2002	1782	O9V	22h39m15.7s	+39°03'01"	7
7	72627	Lac	**12 Lac**	S 815		5.21	10.8	69.1"	72"	15°	16°	2002	1825	B2III	22h41m28.7s	+40°13'32"	7
7	72675	Lac	**Σ 2942**		AB	6.18	8.94	2.9"	2.7"	277°	282°	2003	1831		22h44m05.2s	+39°27'55"	7
7	72675	Lac			AC	6.1	11.6	10.6"		235°		1878			22h44m05.2s	+39°27'55"	7
7	34818	Lac	**HDS 3235**			6.95	10.48	0.7"	0.7"	173°	173°	1991	1991	A2	22h47m18.9s	+53°22'54"	7
7	52465	Lac	**HJ 1828**		AB-C	5.81	10.7	29.4"	20"	0°	350°	1998	1874		22h53m40.2s	+44°44'57"	7
7	52465	Lac		β 382	AB	5.97	7.79	0.8"	1"	227°	225°	2005	1874	A3m+F6V	22h53m40.2s	+44°44'57"	7

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
7	72851	Lac	**HJ 795**			5.74	9.5	51"	49.6"	243°		1925	1875	B7III	22h55m44.5s	+36°21'05"	7
7	52512	Lac	**16 Lac**	Σ 2960	AC	5.56	9.35	62.2"	56.6"	48°	46°	2004	1782		22h56m23.6s	+41°36'14"	7
7	52512	Lac		Σ 2960	AB	5.56	11.32	27.5"		344°		1831		B2IV	22h56m23.6s	+41°36'14"	7
7	52529	Lac	**β 452**		AB	6.9	11	6.7"	6.3"	255°	255°	1933	1877	K5	22h57m25.7s	+43°00'46"	7
7	91669	Peg	**85 Peg**	β 733	AB	5.8	8.9	0.8"	0.7"	243°	274°	2005	1878	G7V+K5V	00h02m10.5s	+27°04'49"	7
7	91669	Peg		β 733	AC	5.83	9.88	161.7"	32.8"	325°	114°	2000	1852	K7	00h02m10.5s	+27°04'49"	7
7	73731	Peg	**FOX 103**			6.25	10.72	14.2"	23.4"	143°	121°	1998	1895	K4IIIb	00h04m56.1s	+26°38'55"	7
7	127029	Peg	**ε Peg**	S 798	AC	2.53	8.74	144.2"	138.5"	321°	323°	2006	1825		21h44m12.0s	+09°52'00"	7
7	107445	Peg	**HJ 947**		AB	5.78	11.39	18"	20.3"	100°	93°	1985	1879	B8III	21h51m34.3s	+19°49'36"	7
7	107445	Peg			BC	5.78	11.39	40.8"		298°		1985		B8III	21h51m34.3s	+19°49'36"	7
7	107450	Peg	**Σ 2834**		AB	6.93	9.89	4.4"	4.1"	298°	289°	2003	1830	F5IV	21h51m40.1s	+19°18'25"	7
7	107489	Peg	**Σ 2841**		A-BC	6.45	7.99	22.9"	22.1"	109°	110°	2006	1823	K0III+F7V	21h54m17.4s	+19°43'05"	7
7	107599	Peg	**HDS 3126**			6.38	9.86	0.5"	0.5"	263°	263°	1991	1991	B5IIIn	22h02m01.4s	+10°58'26"	7
7	71998	Peg	**HJ 953**			6.4	11.3	21.4"		105°		1903		G3II	22h04m34.5s	+32°56'30"	7
7	72064	Peg	**π-1 Peg**	β 1511	AC	5.58	10.1	66"	74"	266°	259°	1998	1835		22h09m13.6s	+33°10'20"	7
7	72064	Peg		β 1511	AD	5.6	10.6	195"	185"	87°	90°	1998	1835		22h09m13.6s	+33°10'20"	7
7	107756	Peg	**Σ 2877**		AB	6.65	9.23	23.3"	5"	21°	310°	2006	1827	K4IV	22h14m18.4s	+17°11'21"	7
7	107756	Peg			AC	6.65	10.6	95.9"	84.2"	44°	43°	2002	1900		22h14m18.4s	+17°11'21"	7
7	127402	Peg	**Σ 2878**		AB	6.94	8.11	1.4"	1.4"	117°	134°	2006	1825	B9IV	22h14m29.2s	+07°58'34"	7
7	127402	Peg			AC	6.7	9.7	67.2"	62.6"	120°	126°	2004	1843		22h14m29.2s	+07°58'34"	7
7	127402	Peg			AD	6.94	10.78	124.4"	124"	274°	274°	2002	1843		22h14m29.2s	+07°58'34"	7
7	90349	Peg	**OΣ 467**			6.7	10.7	24.6"	23"	274°	273°	2006	1843	G8III	22h14m48.6s	+22°31'24"	7
7	90440	Peg	**32 Peg**	HO 615	AB	4.79	10.73	71.3"	72.8"	129°	127°	1997	1893	B9III	22h21m19.3s	+28°19'50"	7
7	90462	Peg	**33 Peg**	Σ 2900	AC	6.28	8.54	89.9"	45.1"	308°	1°	2003	1782		22h23m39.7s	+20°50'54"	7
7	90462	Peg		Σ 2900	AB	6.39	9.29	0.4"	3.1"	1°	182°	1995	1831	F7IV	22h23m39.7s	+20°50'54"	7
7	127551	Peg	**37 Peg**	Σ 2912		5.7	7.59	0.4"	1.2"	299°	115°	2001	1825	F2V	22h29m57.9s	+04°25'53"	7
7	72692	Peg	**CHE 418**			6.4	10.9	25.4"	10.6"	8°	323°	1991	1906	G9V	22h45m34.3s	+30°26'31"	7
7	90833	Peg	**HO 482**		AB	7.34	8.29	0.5"	0.3"	21°	292°	2005	1893	A9V	22h51m26.7s	+26°23'28"	7
7	90833	Peg			AB-C	7.34	10.97	50.1"	50.5"	198°	200°	1997	1891		22h51m26.7s	+26°23'28"	7
7	108275	Peg	**Σ 2958**			6.63	9.09	4"	3.9"	16°	7°	2006	1831	A3Vs	22h56m51.5s	+11°50'54"	7
7	73205	Peg	**64 Peg**	β 718	AB	5.44	7.76	0.4"	0.5"	168°	87°	2003	1878	B6III	23h 21.9min	+31° 49'	7
7	72924	Peg	**Σ 2968**			6.69	9.48	3.4"	2"	93°	91°	2006	1828	B9pMn	23h00m42.4s	+31°04'59"	7
7	91021	Peg	**OΣ 488**			6.7	10.4	14.6"	14"	335°	335°	2003	1845	K0III	23h07m25.5s	+20°34'54"	7
7	73010	Peg	**Σ 2978**			6.35	7.46	8.5"	8.7"	145°	148°	2006	1823	A3V	23h07m27.7s	+32°49'31"	7
7	128001	Peg	**57 Peg**	Σ 2982		5.12	9.7	32.6"	40"	198°	196°	2006	1830		23h09m31.5s	+08°40'38"	7
7	108463	Peg	**Σ 2991**			5.96	10.16	33.1"	34.7"	358°	0°	2001	1883	G8III	23h13m26.5s	+11°03'54"	7
7	91111	Peg	**HJ 1859**			6.41	9.9	33.8"	34.8"	122°	121°	2003	1895	F6IVw	23h14m21.7s	+29°46'19"	7
7	91222	Peg	**Σ 3007**		AB	6.74	9.78	5.8"	5.7"	91°	79°	2002	1829	G2V dK6	23h22m48.8s	+20°33'32"	7
7	91222	Peg			AC	6.74	10.86	98.7"	74.3"	307°	323°	1997	1887		23h22m48.8s	+20°33'32"	7
7	73341	Peg	**72 Peg**	β 720		5.67	6.11	0.5"	0.4"	98°	309°	2005	1878	K4IIIb	23h33m57.2s	+31°19'31"	7
7	108729	Peg	**74 Peg**	ENG 87	AB	6.26	10.7	91.2"	100.1"	28°	36°	2002	1887	A1V	23h37m39.8s	+16°49'32"	7
7	91457	Peg	**78 Peg**	AGC 14		5.07	8.1	0.8"	1.5"	268°	192°	1999	1876	G8III	23h43m59.5s	+29°21'41"	7
7	91467	Peg	**OΣ 505**			6.75	9.61	2.5"	2.2"	59°	55°	2003	1849	G8III	23h45m29.3s	+20°24'56"	7
7	91574	Peg	**OΣ 252**			6.77	8.37	111.1"	111.8"	145°	143°	1999	1875	K2 K0	23h54m56.4s	+29°28'32"	7
7	108931	Peg	**HJ 321**			6.62	10.5	25.3"	20.9"	135°	133°	2003	1900	B9V	23h57m46.2s	+11°28'28"	7
7	109087	Psc	**35 Psc**	Σ 12	A-BC	4.36	9.88	49.4"	49.8"	313°	311°	2002	1824	K1III	00h14m58.9s	+08°49'15"	7
7	109111	Psc	**Σ 22**		AB-C	7.13	7.66	4"	4"	235°	245°	2004	1782		00h17m24.6s	+08°52'36"	7
7	91858	Psc	**β 1093**			6.73	8.55	0.7"	0.4"	117°	54°	2003	1889	A0V	00h20m54.6s	+10°58'37"	7
7	91866	Psc	**42 Psc**	Σ 27		6.4	10.3	30.6"	31.7"	315°	344°	2006	1829	K3III G5	00h22m25.5s	+13°28'57"	7
7	146402	Psc	**Σ 2959**		AB	6.65	10.18	10.5"	15.7"	124°	97°	2006	1832	A0	22h57m06.9s	-03°14'43"	7
7	128019	Psc	**HJ 980**		AB	6.9	10.6	76.6"	73.5"	185°	184°	1996	1902	M3	23h11m14.1s	+05°00'16"	7
7	128156	Psc	**HJ 3189**			6.31	10.5	39.2"	50"	148°	130°	2003	1831	K2	23h23m32.0s	+00°17'29"	7
7	128160	Psc	**Σ 3009**		AB	6.87	8.76	7"	6.9"	232°	230°	2005	1829	K2III	23h24m16.5s	+03°42'56"	7
7	146915	Psc	**20 Psc**	S 835	AB	5.59	9.83	175.8"	172.7"	283°	285°	2002	1824	G8III	23h47m56.6s	-02°45'42"	7

CHART 8

8	125069	Aql	**ENG 67**		AB	6.84	10.69	96.7"	102"	110°	123°	1999	1893	G0IV	19h47m33.3s	+01°05'18"	8
8	105282	Aql	**π Aql**	Σ 2583	AB	6.34	6.75	1.3"	1.4"	106°	124°	2006	1783	A3V+F9III	19h48m42.1s	+11°48'57"	8
8	125141	Aql	**Σ 2587**			6.71	9.42	4.3"	4.1"	101°	99°	2003	1828	A5V+K2III	19h51m26.8s	+04°05'19"	8
8	105355	Aql	**Σ 2590**		AB	6.5	10.31	13.4"	12"	308°	307°	2003	1781	B7V	19h52m15.6s	+10°21'06"	8
8	105589	Aql	**Σ 2616**			6.85	9.64	3.5"	3.3"	266°	266°	2003	1829	K0	20h02m46.0s	+14°34'58"	8
8	125429	Aql	**HJ 2927**			6.93	11.4	24.3"		125°		1901			20h05m20.3s	+00°27'16"	8

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
8	105663	Aql	**β 57**			6.6	11	2.7"	2"	120°	140°	1971	1872	M2.5III	20h05m26.6s	+15°30'02"	8
8	125478	Aql	**Σ 2628**			6.6	8.66	3.1"	6"	339°	350°	2006	1828	F3V	20h07m50.4s	+09°24'00"	8
8	125517	Aql	**Σ 2635**		AB	6.66	10.19	7.3"	7.3"	80°	79°	2002	1825	F7V	20h10m07.8s	+08°26'35"	8
8	125567	Aql	**Σ 2644**			6.92	7.06	2.7"	3"	206°	214°	2006	1783	B9p	20h12m35.1s	+00°52'01"	8
8	144173	Aql	**Σ 2643**			7.09	9.4	3"	3.2"	80°	71°	1998	1830	A0V	20h12m47.3s	-02°59'45"	8
8	144212	Aql	**Σ 2654**			6.96	8.14	14.8"	14.1"	233°	233°	2006	1822	F2V F4V	20h15m10.6s	-03°30'13"	8
8	144237	Aql	**RST 4659**			7.16	9.19	1.7"	1.2"	7°	356°	1991	1939	F5	20h16m50.3s	-03°29'31"	8
8	125769	Aql	**Σ 2677**		AB	6.15	10.6	31.4"	33.2"	30°	29°	2000	1828		20h24m37.5s	+01°04'06"	8
8	144450	Aql	**S 749**		AB	6.76	7.51	59.7"	61.5"	189°	193°	2002	1800	F7V	20h27m27.5s	-02°06'12"	8
8	144450	Aql			AC	6.6	10.7	44.6"	44.9"	327°	314°	2002	1891		20h27m27.5s	-02°06'12"	8
8	144450	Aql			AD	6.6	10.8	90.9"	100.4"	269°	266°	2002	1891		20h27m27.5s	-02°06'12"	8
8	144649	Aql	**71 Aql**	β 672		4.32	11	35.5"	30.5"	284°	281°	1998	1878	G8III	20h35m45.3s	-01°16'52"	8
8	126396	Aqr	**HWE 55**			6.05	11.7	26.2"		72°		1879		K2III	20h57m10.6s	+00°27'49"	8
8	126491	Aqr	**Σ 2744**		AB	6.76	7.33	1.2"	1.5"	115°	192°	2006	1825	F7IV	21h03m03.0s	+01°31'55"	8
8	145121	Aqr	**Σ 2755**			6.88	9.86	25.5"	23.9"	79°	85°	2006	1827	M3III	21h07m32.9s	-00°09'50"	8
8	145533	Aqr	**Σ 2809**			6.22	9.36	31.9"	31.1"	163°	164°	2006	1828	A2V	21h37m33.7s	-00°23'26"	8
8	145566	Aqr	**β 1212**		AB	6.94	8.44	0.5"	0.5"	276°	255°	2001	1890	F6V	21h39m31.6s	-00°03'04"	8
8	145566	Aqr			AB-C	6.63	10.9	36.2"	44.5"	173°	141°	1998	1891		21h39m31.6s	-00°03'04"	8
8	127036	Aqr	**β 689**			7.19	10.47	1.8"	1.8"	244°	235°	1991	1877	K2	21h44m48.2s	+02°59'32"	8
8	145716	Aqr	**SCA 104**			6.59	11	63.2"	63.3"	116°	116°	1998	1893	A0	21h52m21.3s	-03°10'29"	8
8	145735	Aqr	**Σ 2838**			6.29	9.52	16.1"	21.7"	182°	185°	2003	1829	F5IV	21h54m35.9s	-03°18'05"	8
8	33078	Cep	**Σ 2751**			6.23	6.89	1.6"	2.4"	355°	346°	2006	1828	B8III	21h02m09.0s	+56°40'11"	8
8	33819	Cep	**Σ 2840**		AB	5.64	6.42	18.2"	21.2"	196°	192°	2006	1782	B6IV-V	21h52m01.1s	+55°47'48"	8
8	48193	Cyg	**Σ 2486**		AB	6.54	6.67	7.5"	9"	206°	223°	2006	1819	G3V G3V	19h12m04.9s	+49°51'25"	8
8	48247	Cyg	**Σ 2496**		AB	6.46	10	2.1"	2.4"	80°	78°	1991	1832	G8III	19h15m19.2s	+50°04'16"	8
8	48247	Cyg			AC	6.46	10	185.6"		242°		1881		G8III	19h15m19.2s	+50°04'16"	8
8	31711	Cyg	**ARG 104**			7	9.3	76"	77.7"	93°	86°	2002	1903	K0	19h30m12.3s	+55°25'23"	8
8	87301	Cyg	**β Cyg**	Σ 43	Aa-B	3.19	4.68	35.3"	34.2"	54°	58°	2006	1755		19h30m43.3s	+27°57'35"	8
8	87462	Cyg	**HJ 1423**		AB	6.3	11	20.3"	21"	127°	129°	2002	1900		19h37m09.6s	+29°20'01"	8
8	87462	Cyg		WRH 23	AE	6.4	9.6	33.4"	25.1"	293°	289°	2002	1949		19h37m09.6s	+29°20'01"	8
8	87462	Cyg		WRH 23	AF	6.4	8.9	71.5"	71.5"	18°	18°	1949	1949		19h37m09.6s	+29°20'01"	8
8	87462	Cyg		WRH 23	AG	6.4	8.6	76"	76"	88°	88°	1949	1949		19h37m09.6s	+29°20'01"	8
8	48673	Cyg	**HJ 1428**		AB	6.63	10.22	31.7"	24.7"	231°	258°	2006	1905	G6V	19h37m56.7s	+49°17'05"	8
8	48673	Cyg			AC	6.57	10.94	61.8"	54.9"	259°	259°	2006	1899		19h37m56.7s	+49°17'05"	8
8	68654	Cyg	**HO 111**		AB	6.1	9.61	1.2"	0.8"	15°	1°	1991	1885	B0.5Iae	19h39m44.9s	+33°58'44"	8
8	68654	Cyg			AC	6.1	11.7	24.6"	24.3"	168°	170°	1958	1905	B0.5Iae	19h39m44.9s	+33°58'44"	8
8	31898	Cyg	**16 Cyg**	ΣA 46		5.96	6.2	39.4"	37.3"	133°	136°	1986	1822	G1.5V	19h41m48.9s	+50°31'29"	8
8	68751	Cyg	**SEI 666**			6.7	9.7	21.6"	25.5"	319°	327°	2003	1896	K0	19h43m10.8s	+38°40'18"	8
8	48796	Cyg	**δ Cyg**	Σ 2579	AB	2.89	6.27	2.6"	2.3"	222°	72°	2005	1783	B9.5IV	19h44m58.5s	+45°07'51"	8
8	68805	Cyg	**Σ 2578**		AB	6.37	7.04	15.2"	14.2"	124°	126°	2006	1823	B9.5V	19h45m39.7s	+36°05'28"	8
8	68805	Cyg			AC	6.37	11.4	45.9"		358°		1894		B9.5V	19h45m39.7s	+36°05'28"	8
8	68805	Cyg			AF	6.37	9.22	145.2"	143.3"	250°	251°	2005	1880		19h45m39.7s	+36°05'28"	8
8	68810	Cyg	**H 5 137**		AB	6.22	8.18	38.6"	35"	25°	33°	2006	1783		19h45m51.4s	+35°00'46"	8
8	68810	Cyg		BOT 3	AC	6.1	8.5	44.6"	44.6"	77°	77°	1958	1958	G9III	19h45m51.4s	+35°00'46"	8
8	68827	Cyg	**17 Cyg**	Σ 2580	AB	5.06	9.25	26.3"	25.5"	67°	73°	2001	1822	F5V	19h46m25.6s	+33°43'36"	8
8	68827	Cyg		Σ 2580	AC	5.06	9.44	112.6"	161.6"	126°	146°	1999	1852		19h46m25.6s	+33°43'36"	8
8	68835	Cyg	**S 726**		AD	6.2	9.2	29.2"	33.4"	192°	206°	2003	1825		19h46m35.0s	+32°53'19"	8
8	68909	Cyg	**ES 84**		AB	6.1	11.1	11.5"		161°		1902		G3III	19h49m27.5s	+38°42'36"	8
8	68909	Cyg			AC	6.2	11.2	22.5"	23.1"	95°	98°	1985	1902		19h49m27.5s	+38°42'36"	8
8	69079	Cyg	**OΣ 390**		AB	6.63	9.5	9.4"	9.6"	22°	23°	2006	1849	B6V+A5V	19h55m06.5s	+30°11'42"	8
8	69079	Cyg			AC	6.6	10.5	16.4"		175°		2006	1849	B6V+A5V	19h55m06.5s	+30°11'42"	8
8	32114	Cyg	**ψ Cyg**	Σ 2605	AB	5.03	7.52	3.1"	4"	174°	181°	2006	1779	A4Vn	19h55m37.8s	+52°26'20"	8
8	32114	Cyg		Σ 2605	AD	5.03	10.2	165.4"	163.2"	61°	62°	1908	1880	A4Vn	19h55m37.8s	+52°26'20"	8
8	49011	Cyg	**β 1474**			5.44	9.31	65.2"	65.3"	316°	318°	2002	1893	B5V	19h57m13.9s	+40°22'04"	8
8	49031	Cyg	**Σ 2607**		AB-C	6.56	9.09	3"	4.3"	289°	287°	2003	1828		19h57m56.1s	+42°15'39"	8
8	49031	Cyg			AB	6.6	8.4	0.1"	0.5"	201°	320°	1989	1843	A3V	19h57m56.1s	+42°15'39"	8
8	69193	Cyg	**Σ 2609**			6.69	7.64	2"	2.9"	23°	26°	2006	1828	B5IV	19h58m34.4s	+38°06'21"	8
8	69222	Cyg	**β 1133**			6.67	9.91	1.1"	0.9"	342°	339°	1991	1889	A0	19h59m39.1s	+31°49'35"	8
8	69252	Cyg	**WEB 9**		AB	6.69	8.97	71.1"	70.5"	203°	203°	2004	1896	B6IV	20h00m44.8s	+36°35'23"	8
8	69252	Cyg			AC	6.68	9.6	82.1"	81.2"	220°	221°	2004	1896		20h00m44.8s	+36°35'23"	8
8	49098	Cyg	**26 Cyg**	H 5 47	AB	5.17	8.94	41.5"	41.3"	150°	146°	2005	1875	K1II-III	20h01m36s	+50 07'17"	8

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
8	69324	Cyg	**Σ 2624**		Aa,B	7.09	7.73	1.9"	2.5"	175°	177°	2002	1823		20h03m29.4s	+36°01'30"	8
8	69324	Cyg			Aa,C	7.09	9.26	42.7"	41.3"	327°	330°	2002	1823	B1IIIs	20h03m29.4s	+36°01'30"	8
8	69402	Cyg	**SHJ 314**		AF	6.78	7.3	36.6"	29.5"	28°	33°	2006	1783		20h05m57.3s	+35°47'18"	8
8	69402	Cyg		β 429	AC	6.78	11	12.1"	7.8"	28°	26°	2003	1876		20h05m57.3s	+35°47'18"	8
8	69402	Cyg		β 429	AE	6.77	11.5	28.1"		107°		1876			20h05m57.3s	+35°47'18"	8
8	69402	Cyg		SHJ 314	AD	6.78	9.49	11.9"	11.3"	299°	296°	2006	1783	B1V	20h05m57.3s	+35°47'18"	8
8	32286	Cyg	**ENG 70**			5.86	9.79	168.9"	171.8"	136°	123°	2002	1893	F5V	20h06m13.9s	+53°09'58"	8
8	49217	Cyg	**A 382**			7.21	9.49	1.7"	1.3"	96°	85°	1998	1902	K0	20h08m01.2s	+42°23'06"	8
8	32354	Cyg	**AC 17**		AB	6.17	10.55	4.3"	3.9"	82°	80°	1991	1859	K2.5III	20h12m31.7s	+51°27'49"	8
8	32354	Cyg			AE	6.17	10.78	130.3"	131.2"	148°	150°	2000	1897		20h12m31.7s	+51°27'49"	8
8	49337	Cyg	**31 Cyg**	Σ 50	Aa-D	3.93	4.83	330.7"	338"	324°	325°	1998	1800		20h13m37.9s	+46°44'29"	8
8	49337	Cyg		Σ 50	Aa-C	3.93	6.97	107.1"	100"	173°	183°	2000	1779		20h13m37.9s	+46°44'29"	8
8	49345	Cyg	**Σ 2657**		AC	7.28	9.8	11.8"	10"	32°	31°	2000	1831		20h14m21.5s	+42°06'16"	8
8	49345	Cyg		OΣ 403	AB	7.31	7.64	0.9"	0.6"	171°	168°	2005	1843	B9IV-V	20h14m21.5s	+42°06'16"	8
8	69743	Cyg	**HO 588**		AB	6.91	8.89	50.3"	50.7"	297°	298°	2003	1893	A0III	20h16m55.0s	+31°30'19"	8
8	49438	Cyg	**Σ 2666**		Aa,B	5.96	8.24	2.6"	2.7"	245°	242°	2006	1831		20h18m07.0s	+40°43'55"	8
8	49438	Cyg			Aa,C	5.96	11.1	34.8"	33.7"	207°	208°	1959	1887	O9V	20h18m07.0s	+40°43'55"	8
8	32455	Cyg	**Σ 2671**		AB	6.01	7.51	3.7"	3"	337°	341°	2006	1831	A2Vs	20h18m24.7s	+55°23'49"	8
8	69820	Cyg	**HO 125**			6.4	10.6	3.1"	2.8"	194°	195°	1941	1885	K4II	20h18m57.5s	+39°00'15"	8
8	69856	Cyg	**Σ 2668**		AB-C	6.34	8.49	3.3"	3.3"	280°	294°	2006	1831		20h20m15.2s	+39°24'11"	8
8	49550	Cyg	**OΣ 207**		AC	6.41	8.01	86.9"	96.4"	64°	63°	2003	1876		20h22m55.6s	+42°59'01"	8
8	69929	Cyg	**OΣ 206**		AB	6.72	8.63	42.8"	42.7"	255°	257°	2003	1876	B6III	20h22m57.7s	+39°12'40"	8
8	69929	Cyg			Aa	6.75	11	24.4"	24"	260°	263°	1998	1895		20h22m57.7s	+39°12'40"	8
8	32627	Cyg	**KUI 97**			5.96	8.84	0.8"	0.5"	132°	150°	1995	1937	B9Vne	20h29m27.1s	+56°04'06"	8
8	49712	Cyg	**ω 1 Cyg**	β 669	AC	4.95	9.4	55.9"	56.3"	88°	86°	2000	1878		20h30m03.5s	+48°57'06"	8
8	49731	Cyg	**S 755**		AB	6.64	9.72	59.3"	30"	278°	277°	2002	1780	A2	20h30m52.7s	+49°12'47"	8
8	70135	Cyg	**44 Cyg**	AC 18	AB	6.32	10.12	2.2"	2.5"	158°	155°	1991	1859	F5Iab	20h30m59.2s	+36°56'09"	8
8	49741	Cyg	**ω 2 Cyg**	S 756		5.62	10.24	60.2"	55.8"	327°	319°	2006	1825	M2IIIab	20h31m18.8s	+49°13'13"	8
8	49804	Cyg	**β 1489**		AB	5.75	9.35	117.5"	118.1"	17°	17°	2002	1893	B9pSi	20h33m54.8s	+46°41'38"	8
8	70206	Cyg	**OΣ 408**			6.75	9.37	1.7"	1.6"	192°	193°	2003	1846	B7V	20h34m02.0s	+34°40'44"	8
8	70220	Cyg	**Σ 2700**			6.99	8.75	25.2"	24"	285°	286°	2006	1831	K2III	20h34m44.6s	+32°30'21"	8
8	70287	Cyg	**48 Cyg**	Σ 53	AB	6.29	6.54	182.7"	178"	177°	175°	2003	1835	B8IIIn	20h37m31.8s	+31°34'21"	8
8	49886	Cyg	**ES 89**			6.61	11.5	16.3"		200°		1906			20h38m17.0s	+48°04'13"	8
8	70321	Cyg	**Σ 2708**		AB	6.83	8.67	53.3"	9.6"	323°	1°	2004	1823	G2V	20h38m40.3s	+38°38'05"	8
8	70321	Cyg			AD	6.75	10.8	114.7"	115.1"	229°	214°	1998	1880		20h38m40.3s	+38°38'05"	8
8	49899	Cyg	**OΣ 410**		AB	6.73	6.83	0.9"	0.5"	5°	23°	2003	1843	B8IIIpMn	20h39m33.3s	+40°34'47"	8
8	49899	Cyg			AB-C	6.76	8.72	68.1"	69"	69°	70°	2004	1851		20h39m33.3s	+40°34'47"	8
8	49899	Cyg			AB-D	6.76	10.02	106.7"	102.9"	326°	326°	2004	1892		20h39m33.3s	+40°34'47"	8
8	88997	Cyg	**HO 137**			6.13	9.26	0.8"	1.2"	342°	279°	2000	1885	A2V	20h40m36.3s	+29°48'20"	8
8	32809	Cyg	**51 Cyg**	β 675	AC	5.38	10.64	72.1"	71.2"	240°	240°	1999	1899		20h40m40.1s	+50°09'35"	8
8	70367	Cyg	**HJ 612**		Aa-B	6.48	10.6	49.1"	48.7"	10°	9°	1998	1896		20h41m00.4s	+39°04'56"	8
8	70362	Cyg	**49 Cyg**	Σ 2716	Aa-B	5.75	8.1	3"	4"	46°	58°	2003	1783	G2II	20h41m02.5s	+32°18'26"	8
8	70362	Cyg		Σ 2716	Aa-C	5.75	11.8	68.3"		91°		1912		G2II	20h41m02.5s	+32°18'26"	8
8	70499	Cyg	**β 677**	T Cyg	AC	5.2	11.5	14"	12.4"	201°	194°	1934	1890		20h45m10.9s	+34°11'22"	8
8	70499	Cyg		T Cyg	AB	4.94	10.03	10"	10"	115°	121°	1941	1877	K3III	20h45m10.9s	+34°11'22"	8
8	70467	Cyg	**52 Cyg**	Σ 2726		4.2	8.7	6.4"	6"	69°	59°	1997	1780	G9III	20h45m59s	+30 44'37"	8
8	70505	Cyg	**λ Cyg**	OΣ 413	Aa-B	4.73	6.26	1"	0.7"	9°	117°	2005	1842		20h47m24.5s	+36°29'27"	8
8	70505	Cyg		S 765	Aa-C	4.76	9.65	83.4"	84.9"	106°	104°	2000	1834		20h47m24.5s	+36°29'27"	8
8	32908	Cyg	**Σ 2732**			6.38	8.63	4.3"	4.4"	73°	75°	2003	1825	B8np	20h48m42.7s	+51°54'37"	8
8	50116	Cyg	**ES 94**		AB	6.78	10.45	102.7"	101.2"	16°	13°	2002	1899	M3II-III	20h49m37.7s	+50°07'38"	8
8	70564	Cyg	**β 67**			6.85	9.87	1.6"	1.3"	306°	290°	1999	1871	A8III	20h50m36.1s	+30°54'46"	8
8	32933	Cyg	**β 155**		AB	7.36	8.13	0.7"	0.6"	38°	40°	2005	1873	A9IV	20h51m05.5s	+51°25'02"	8
8	32933	Cyg			AD	6.8	10.9	192.5"	199.8"	48°	48°	1999	1880		20h51m05.5s	+51°25'02"	8
8	70645	Cyg	**BLL 52**			5.64	10.4	186.6"	187.5"	59°	58°	2002	1880	K5III	20h53m53.9s	+33°26'17"	8
8	50209	Cyg	**OΣ 420**			6.7	10.7	5.8"	5.8"	1°	5°	2002	1848	B8Vnne	20h54m22.3s	+40°42'11"	8
8	33034	Cyg	**Σ 2741**		AB	5.94	6.79	2"	1.2"	26°	44°	2006	1783	B5Vn	20h58m30.0s	+50°27'42"	8
8	33034	Cyg			AC	5.5	10.5	138.1"	139.4"	355°	356°	1999	1879		20h58m30.0s	+50°27'42"	8
8	50359	Cyg	**60 Cyg**	OΣ 426		5.4	9.53	2.9"	2.6"	161°	166°	1991	1848	B1Ve	21h01m10.9s	+46°09'21"	8
8	50368	Cyg	**HO 600**			6.7	10.9	1.9"	2"	96°	80°	1970	1896	Am	21h01m47.5s	+44°11'12"	8
8	70818	Cyg	**H 4 113**		AB	6.62	9.49	19.7"	18.7"	298°	300°	2006	1783	K3II-III	21h02m21.0s	+39°30'33"	8
8	50390	Cyg	**β 1138**		AC	6.46	7.82	153.1"	168.7"	330°	313°	2002	1892	B8	21h02m48.6s	+45°50'56"	8
8	89415	Cyg	**β 445**		AE	7	9.8	103.8"	106.3"	218°	218°	1998	1894		21h03m29.5s	+29°05'33"	8
8	50409	Cyg	**OΣ 214**		AB	6.37	8.64	57.3"	57.4"	185°	185°	2005	1875	F3IV	21h03m52.1s	+41°37'41"	8
8	70919	Cyg	**61 Cyg**	Σ 2758	AB	5.35	6.1	31.8"	19.6"	151°	35°	2006	1753	K5V K7V	21h06m55.9s	+38°45'22"	8

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
8	70919	Cyg		Σ 2758	AG	5.35	10.84	48"	48"	256°	256°	1975	1975		21h06m55.9s	+38°45'22"	8
8	70919	Cyg		Σ 2758	AH	5.35	10.89	75.2"	70.7"	297°	308°	2005	2003		21h06m55.9s	+38°45'22"	8
8	70968	Cyg	**Σ 2762**		AB	5.7	8.1	3.4"	4"	304°	315°	2006	1783	B9V	21h08m38.9s	+30°12'20"	8
8	70968	Cyg			AC	5.7	10.22	59.3"	57.7"	229°	225°	2006	1865		21h08m38.9s	+30°12'20"	8
8	70968	Cyg			AD	5.6	10	72.7"	74.2"	66°	69°	1999	1894		21h08m38.9s	+30°12'20"	8
8	50536	Cyg	**OΣ 215**		CD	7.25	7.46	1.5"	0.3"	180°	256°	2006	1843	A9IV	21h10m31.0s	+47°41'32"	8
8	50536	Cyg		β 159	AB	6.55	9.07	1.2"	1.2"	313°	330°	2003	1873	B6IV	21h10m31.0s	+47°41'32"	8
8	50536	Cyg		OΣ 215	AC	6.55	7.52	135.7"	134.1"	189°	190°	1999	1875		21h10m31.0s	+47°41'32"	8
8	71121	Cyg	**τ Cyg**	AGC 13	AB	3.83	6.57	0.7"	1.1"	274°	163°	2004	1874	F3V+F7V	21h14m47.6s	+38°02'46"	8
8	71121	Cyg		AGC 13	AB-D	3.83	9.94	205.4"	136.9"	208°	213°	2004	1852		21h14m47.6s	+38°02'46"	8
8	71195	Cyg	**OΣ 434**		AB	6.67	9.93	24.5"	26.5"	122°	114°	2006	1828	B9V	21h19m00.0s	+39°44'58"	8
8	33323	Cyg	**S 786**			6.94	9.16	47.1"	48.5"	300°	301°	2003	1824	K2	21h19m40.8s	+53°03'29"	8
8	71230	Cyg	**OΣ 437**		AB	6.2	6.7	2.3"	1.2"	22°	66°	2003	1843	G4V	21h20m50.1s	+32°27'08"	8
8	71230	Cyg			AC	6.2	11.2	80.8"	86.1"	141°		1989	1913	G4V	21h20m50.1s	+32°27'08"	8
8	71329	Cyg	**69 Cyg**	S 790	AC	5.89	8.9	53.3"	53.9"	99°	98°	2003	1895		21h25m47.0s	+36°40'03"	8
8	71329	Cyg		S 790	AB	5.93	10.22	33"		30°		2003	1895		21h25m47.0s	+36°40'03"	8
8	89834	Cyg	**β 167**			6.37	9.95	1.8"	1.5"	89°	110°	1997	1873	G8III	21h36m14.0s	+30°03'20"	8
8	51167	Cyg	**75 Cyg**	AC 20	AB	5.1	9.8	2.8"	2.9"	326°	323°	1975	1860	M2III	21h40m11.1s	+43°16'26"	8
8	51167	Cyg		OΣ 221	AC	5.28	10.26	62.2"	54.4"	253°	255°	2003	1875		21h40m11.1s	+43°16'26"	8
8	51189	Cyg	**76 Cyg**	S 796	AB	6.08	9.47	58.3"	64.3"	233°	230°	2002	1879	A2V	21h41m34.2s	+40°48'18"	8
8	71643	Cyg	**79 Cyg**	S 799	AB	5.69	7	150.3"	153.2"	61°	59°	2001	1824	A0V	21h43m25.7s	+38°17'01"	8
8	71643	Cyg		KUI 109	Aa	5.6	11	1.5"	1.4"	155°	151°	1948	1937		21h43m25.7s	+38°17'01"	8
8	89940	Cyg		Σ 2822	BD	6.18	6.94	198.7"	213.9"	46°	60°	1991	1823	A5	21h44m08.7s	+28°44'32"	8
8	89940	Cyg	**μ Cyg**	Σ 2822	AB	4.75	6.18	1.8"	11"	311°	108°	2005	1777	F6V G2V	21h44m08.7s	+28°44'32"	8
8	89940	Cyg		Σ 2822	AD	4.75	6.94	197.5"	216.5"	45°	62°	2001	1800	F7V F2V	21h44m08.7s	+28°44'32"	8
8	33835	Cyg	**HDS 3115**			6.66	10.48	1.4"	1.4"	75°	75°	1991	1991	A2	21h53m19.8s	+53°59'50"	8
8	105957	Del	**Σ 2665**		A-BC	6.88	9.55	3.4"	3.1"	13°	17°	2003	1829	A0+G	20h19m21.2s	+14°22'15"	8
8	105980	Del	**HDS 2906**			6.81	10.73	0.5"	0.5"	317°	317°	1991	1991	K2	20h20m09.9s	+11°28'10"	8
8	106138	Del	**HO 131**		AD	7	9.5	84.5"	88.1"	97°	97°	1998	1988		20h28m18.8s	+18°46'10"	8
8	106138	Del			AB	7	10.6	3.5"	4.5"	330°	323°	1988	1881	G1V	20h28m18.8s	+18°46'10"	8
8	106177	Del	**S 752**		AC	6.8	7.3	106.7"	105.9"	288°	288°	2001	1824		20h30m14.4s	+19°25'16"	8
8	106177	Del			AB	6.8	10.9	2.4"		128°		2001	1880		20h30m14.4s	+19°25'16"	8
8	106172	Del	**1 Del**	β 63	AB	6.2	8.02	0.9"	0.7"	349°	340°	2003	1872	A1eShell	20h30m18.0s	+10°53'45"	8
8	88783	Del	**β 363**		AB	6.18	10	11.8"	20"	70°	60°	1962	1874	A1m	20h30m58.2s	+20°36'23"	8
8	125969	Del	**β 1208**			7	11	3.1"	2.9"	336°	336°	1994	1890	B3IV	20h34m31.8s	+06°52'41"	8
8	106316	Del	**β Del**	β 151	AB	4.11	5.02	0.6"	0.7"	2°	355°	2005	1873	F5IV+F2V	20h37m33.0s	+14°35'42"	8
8	106316	Del		Σ 2704	AB-D	3.25	11	46"	25.9"	319°	348°	1999	1781		20h37m33.0s	+14°35'42"	8
8	106347	Del	**β 288**		AC	5.9	10.8	43.9"	43.9"	279°	279°	1913	1913		20h39m05.0s	+15°50'17"	8
8	106360	Del	**ENG 75**			6.45	10.6	182.9"	194.6"	6°	9°	2000	1886	F8IV:	20h39m51.9s	+11°14'59"	8
8	126088	Del	**OΣ 409**		AC	7.06	9.93	63.2"	65.2"	331°	335°	2002	1894	K5	20h40m17.7s	+03°26'29"	8
8	126088	Del			AB	7.06	10.2	16.8"	16.3"	84°	84°	2000	1843	K0	20h40m17.7s	+03°26'29"	8
8	106443	Del	**Σ 2723**		AB	7.01	8.3	1"	1.5"	135°	86°	2005	1831	A3IV	20h44m54.6s	+12°18'46"	8
8	106476	Del	**γ Del**	Σ 2727		4.36	5.03	9.5"	12"	266°	280°	2006	1755	K1IV F7V	20h46m39.5s	+16°07'26"	8
8	126222	Del	**13 Del**	β 65		5.64	8.24	1.5"	1.3"	199°	195°	1991	1871	A0V	20h47m48.3s	+06°00'29"	8
8	126267	Del	**OΣ 210**			6.3	9.13	78.3"	81.9"	127°	122°	2000	1875	K0	20h49m59.1s	+05°32'40"	8
8	126373	Del	**Σ 2735**			6.45	7.54	2"	2.1"	282°	289°	2006	1828	G6III-IV	20h55m40.7s	+04°31'58"	8
8	106712	Del	**18 Del**	ENG 78	AB	5.61	9.88	197.5"	197.5"	162°	163°	2003	1886	G6III:	20h58m25.9s	+10°50'21"	8
8	106738	Del	**OΣ 213**			6.66	9.22	70.6"	70.9"	37°	37°	2003	1875	F4III	20h59m50.9s	+16°49'28"	8
8	106747	Del	**β 1497**			5.89	10	50"	44.7"	336°	333°	2000	1880	M3IIIab	21h00m27.7s	+19°19'46"	8
8	126428	Equ	**ε Equ**	Σ 2737	AB-C	5.3	7.05	10.7"	13"	67°	77°	2006	1777		20h59m04.4s	+04°17'35"	8
8	126428	Equ		Σ 2737	AB	5.96	6.31	0.6"	0.4"	284°	294°	2005	1835	F6IV	20h59m04.4s	+04°17'35"	8
8	126428	Equ		Σ 2737	BC	6.31	7.05	10.8"	11.3"	67°	74°	2006	1874		20h59m04.4s	+04°17'35"	8
8	126482	Equ	**Σ 2742**			7.41	7.64	2.8"	2.4"	216°	224°	2005	1825	F8	21h02m12.5s	+07°10'47"	8
8	126593	Equ	**γ Equ**	Σ 54	AD	4.7	6.06	337.7"	366"	152°	153°	2001	1835		21h10m20.5s	+10°07'53"	8
8	126593	Equ		KNT 5	AB	4.7	8.69	1.5"	2.1"	264°	277°	1994	1867	A9V	21h10m20.5s	+10°07'53"	8
8	68065	Lyr	**θ Lyr**	SHJ 292	AB	4.48	10.14	98.8"	90"	70°	72°	2002	1823	K0II	19h16m22.1s	+38°08'01"	8
8	68065	Lyr		SHJ 292	AC	4.36	11	101.4"	99.9"	128°	127°	1998	1880		19h16m22.1s	+38°08'01"	8
8	107073	Peg	**1 Peg**	Σ 11	AB	4.2	7.56	12.1"	37.1"	311°	308°	2006	1780	K0.5III	21h22m05.3s	+19°48'17"	8
8	126940	Peg	**3 Peg**	Σ 56	AB	6.18	7.5	39.9"	34.7"	348°	353°	2006	1782	A2V	21h37m43.7s	+06°37'06"	8
8	107165	Peg	**Σ 2799**		AB	7.37	7.44	1.8"	1.2"	262°	338°	2006	1825	F4V	21h28m52.9s	+11°05'06"	8

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
8	107165	Peg			AC	7.37	10.2	136.3"	137.1"	332°	338°	2002	1906		21h28m52.9s	+11°05'06"	8
8	89737	Peg	**HJ 1647**		AB	6.08	10.22	41.5"	41"	178°	177°	2006	1892	M4-5III	21h28m59.8s	+22°10'46"	8
8	89737	Peg			AC	6.2	10.7	40.3"	41.2"	129°	126°	1966	1892		21h28m59.8s	+22°10'46"	8
8	127029	Peg	**ε Peg**	S 798	AC	2.53	8.74	144.2"	138.5"	321°	323°	2006	1825		21h44m12.0s	+09°52'00"	8
8	107445	Peg	**HJ 947**		AB	5.78	11.39	18"	20.3"	100°	93°	1985	1879	B8III	21h51m34.3s	+19°49'36"	8
8	107445	Peg			BC	5.78	11.39	40.8"		298°		1985		B8III	21h51m34.3s	+19°49'36"	8
8	107450	Peg	**Σ 2834**		AB	6.93	9.89	4.4"	4.1"	298°	289°	2003	1830	F5IV	21h51m40.1s	+19°18'25"	8
8	107489	Peg	**Σ 2841**		A-BC	6.45	7.99	22.9"	22.1"	109°	110°	2006	1823	K0III+F7V	21h54m17.4s	+19°43'05"	8
8	107599	Peg	**HDS 3126**			6.38	9.86	0.5"	0.5"	263°	263°	1991	1991	B5IIIn	22h02m01.4s	+10°58'26"	8
8	71998	Peg	**HJ 953**			6.4	11.3	21.4"		105°		1903		G3II	22h04m34.5s	+32°56'30"	8
8	72064	Peg	**π-1 Peg**	β 1511	AC	5.58	10.1	66"	74"	266°	259°	1998	1835		22h09m13.6s	+33°10'20"	8
8	72064	Peg		β 1511	AD	5.6	10.6	195"	185"	87°	90°	1998	1835		22h09m13.6s	+33°10'20"	8
8	107756	Peg	**Σ 2877**		AB	6.65	9.23	23.3"	5"	21°	310°	2006	1827	K4IV	22h14m18.4s	+17°11'21"	8
8	107756	Peg			AC	6.65	10.6	95.9"	84.2"	44°	43°	2002	1900		22h14m18.4s	+17°11'21"	8
8	127402	Peg	**Σ 2878**		AB	6.94	8.11	1.4"	1.4"	117°	134°	2006	1825	B9IV	22h14m29.2s	+07°58'34"	8
8	127402	Peg			AC	6.7	9.7	67.2"	62.6"	120°	126°	2004	1843		22h14m29.2s	+07°58'34"	8
8	127402	Peg			AD	6.94	10.78	124.4"	124"	274°	274°	2002	1843		22h14m29.2s	+07°58'34"	8
8	90349	Peg	**OΣ 467**			6.7	10.7	24.6"	23"	274°	273°	2006	1843	G8III	22h14m48.6s	+22°31'24"	8
8	90440	Peg	**32 Peg**	HO 615	AB	4.79	10.73	71.3"	72.8"	129°	127°	1997	1893	B9III	22h21m19.3s	+28°19'50"	8
8	90462	Peg	**33 Peg**	Σ 2900	AC	6.28	8.54	89.9"	45.1"	308°	1°	2003	1782		22h23m39.7s	+20°50'54"	8
8	90462	Peg		Σ 2900	AB	6.39	9.29	0.4"	3.1"	1°	182°	1995	1831	F7IV	22h23m39.7s	+20°50'54"	8
8	105298	Sge	**ζ Sge**	Σ 2585	AB-C	5.04	9.01	8.4"	8.8"	311°	304°	2005	1781		19h48m58.7s	+19°08'32"	8
8	105298	Sge		Σ 2585	AB-D	5.04	11	76.9"	73.7"	246°	249°	2000	1895		19h48m58.7s	+19°08'32"	8
8	105485	Sge	**β 149**		AB	6.85	10.33	126.4"	125"	278°	280°	2004	1873	B8	19h58m14.3s	+16°29'37"	8
8	105522	Sge	**13 Sge**	β 1477		5.4	11.8	28.5"	29"	206°		1966	1878	M4III	20h00m03.3s	+17°30'59"	8
8	105522	Sge		β 1477	AC	5.4	11.5	47.1"				1924		M4IIIa	20h00m03.3s	+17°30'59"	8
8	105608	Sge	**OΣ 396**			6.13	10.38	46.4"	40"	207°	206°	2002	1843	K3II-III	20h03m16.4s	+18°30'03"	8
8	105635	Sge	**15 Sge**	OΣ 592	AC	5.86	6.92	213.9"	203.7"	333°	309°	2001	1853		20h04m06.0s	+17°04'10"	8
8	88276	Sge	**θ Sge**	Σ 2637	AC	6.56	7.52	89.8"	64.5"	222°	226°	2004	1800	K2III	20h09m56.7s	+20°54'55"	8
8	88276	Sge		Σ 2637	AB	6.56	8.85	12"	6"	329°	329°	2006	1800	F3V	20h09m56.7s	+20°54'55"	8
8	88276	Sge		Σ 2637	BC	7.3	8.9	94.3"	66.2"	215°	221°	2004	1800		20h09m56.7s	+20°54'55"	8
8	87551	Vul	**Σ 2560**		AB	6.64	8.8	15.3"		295°		2002	1879		19h40m39.6s	+23°43'05"	8
8	87551	Vul			AC	6.64	8.25	118.5"	119.5"	66°	67°	2002	1879		19h40m39.6s	+23°43'05"	8
8	87883	Vul	**13 Vul**	DJU 4		4.63	7.37	1.3"	0.8"	245°	242°	2003	1953	B9.5III	19h53m27.7s	+24°04'47"	8
8	88098	Vul	**16 Vul**	OΣ 395		5.83	6.19	0.8"	0.5"	124°	89°	2003	1843	F2III	20h02m01.5s	+24°56'17"	8
8	88377	Vul	**Σ 2653**			6.72	9.18	2.9"	2.5"	274°	255°	2003	1831	A1m	20h13m40.6s	+24°14'21"	8
8	88410	Vul	**β 983**		AB	4.8	7.55	0.5"	0.8"	179°	154°	1996	1879	B3V	20h15m15.9s	+25°35'31"	8
8	88410	Vul			AC	4.8	9.7	115.8"	115.8"	83°	83°	1912	1912		20h15m15.9s	+25°35'31"	8
8	88473	Vul	**β 441**		Aa-B	6.4	10.9	5.8"	5.9"	67°	65°	1958	1876		20h17m31.5s	+29°08'51"	8
8	88490	Vul	**HJ 1499**		AC	6.96	10.87	21.2"	21.4"	355°	356°	2003	1880		20h18m17.1s	+25°38'54"	8
8	89505	Vul	**Σ 2769**			6.65	7.42	18.7"	17.7"	299°	301°	2006	1825	A1V	21h10m32.1s	+22°27'17"	8
8	89678	Vul	**HJ 1641**			5.71	10.5	53.9"	50.3"	309°	314°	1923	1894	F1IV	21h23m58.9s	+24°16'27"	8
8	89680	Vul	**β 447**		AF	6.2	10.7	83.5"	79.5"	218°	217°	1997	1891		21h24m07.5s	+25°18'45"	8
8	89680	Vul			AE	6.2	10.96	65.8"	68"	116°	114°	1997	1891		21h24m07.5s	+25°18'45"	8

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9	142606	Aql	**5 Aql**	Σ 2379	Aa-B	5.88	7.02	12.8"	11.2"	121°	122°	2006	1796		18h46m28.6s	-00°57'42"	9
9	142606	Aql		Σ 2379	Aa-C	5.91	11.31	24.8"	27.5"	146°		1988	1880	A2V	18h46m28.6s	-00°57'42"	9
9	104170	Aql	**Σ 2404**			6.92	7.77	3.5"	3.2"	179°	187°	2006	1822		18h50m45.6s	+10°58'35"	9
9	104308	Aql	**11 Aql**	Σ 2424	AB	5.32	9.3	21.5"	20.1"	300°	236°	2006	1820	F6IV	18h59m05.8s	+13°37'19"	9
9	104379	Aql	**Σ 2432**		AB	6.82	10.44	15"	14.6"	87°	87°	2006	1904	B8IV	19h01m48.6s	+12°32'27"	9
9	142996	Aql	**15 Aql**	SHJ 286		5.52	6.98	40.2"	33.3"	210°	206°	2006	1800	K0IV	19h04m57.7s	-04°01'53"	9
9	124257	Aql	**Σ 2446**		AB	6.97	8.88	9.6"	9.7"	153°	156°	2006	1825	F5	19h05m47.7s	+06°32'48"	9
9	124257	Aql			AC	6.97	10.2	34.5"		341°		2006	1825	F5	19h05m47.7s	+06°32'48"	9
9	143029	Aql	**Σ 2447**		AB	6.83	9.62	14.7"	13.8"	341°	345°	2006	1829	B5V	19h06m35.1s	-01°20'46"	9
9	124376	Aql	**Σ 2476**		AB-G	7	10.2	30.6"	26.5"	213°	209°	2006	1828		19h12m03.3s	+02°37'21"	9
9	104655	Aql	**OΣ 178**			5.69	7.64	89.9"	89.7"	268°	268°	2001	1875	G8II-III	19h15m20.1s	+15°05'01"	9
9	104668	Aql	**Σ 2489**		Aa-B	5.67	9.3	8.2"	8.2"	347°	349°	2002	1828		19h16m26.8s	+14°32'41"	9
9	124487	Aql	**23 Aql**	Σ 2492	AB	5.28	8.29	3"	3.5"	4°	18°	1997	1781	G9III	19h18m32.5s	+01°05'07"	9
9	104722	Aql	**28 Aql**	S 717	AB	5.55	9.02	59.7"	60"	176°	177°	2002	1822	F0III	19h19m39.4s	+12°22'29"	9
9	104807	Aql		OΣ 588	AC	5.24	10.34	135.5"	117.1"	285°	332°	1991	1887		19h22m35.1s	+11°50'58"	9
9	104807	Aql	**31 Aql**	OΣ 588	AB	5.24	8.65	100.5"	142.5"	289°	4°	2003	1852	G8IV	19h24m58.6s	+11°56'45"	9

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
9	124698	Aql	**Σ 2532**		AB	6.09	10.6	32.7"	34.9"	3°	5°	1983	1829	M1III	19h30m10.5s	+02°54'15"	9
9	124698	Aql			AC	6.27	10.91	119.9"	119.5"	197°	197°	1999	1909		19h30m10.5s	+02°54'15"	9
9	124718	Aql	**BLL 39**		AB	6.8	10.6	111.1"	113.1"	287°	286°	1999	1879	K0	19h31m05.2s	+02°00'42"	9
9	124835	Aql	**Σ 2543**			6.76	10.45	11.4"	16.3"	151°	161°	2003	1830	G8III	19h36m12.6s	+06°00'27"	9
9	124969	Aql	**Σ 2562**		AB	6.95	8.69	27.1"	28"	251°	252°	2002	1822	F8V G0V	19h42m45.9s	+08°22'58"	9
9	124969	Aql			AD	6.95	9.89	116.7"	109.1"	222°	225°	2002	1890		19h42m45.9s	+08°22'58"	9
9	125069	Aql	**ENG 67**		AB	6.84	10.69	96.7"	102"	110°	123°	1999	1893	G0IV	19h47m33.3s	+01°05'18"	9
9	105282	Aql	**π Aql**	Σ 2583	AB	6.34	6.75	1.3"	1.4"	106°	124°	2006	1783	A3V+F9III	19h48m42.1s	+11°48'57"	9
9	125141	Aql	**Σ 2587**			6.71	9.42	4.3"	4.1"	101°	99°	2003	1828	A5V+K2III	19h51m26.8s	+04°05'19"	9
9	105355	Aql	**Σ 2590**		AB	6.5	10.31	13.4"	12"	308°	307°	2003	1781	B7V	19h52m15.6s	+10°21'06"	9
9	105589	Aql	**Σ 2616**			6.85	9.64	3.5"	3.3"	266°	266°	2003	1829	K0	20h02m46.0s	+14°34'58"	9
9	125429	Aql	**HJ 2927**			6.93	11.4	24.3"		125°		1901			20h05m20.3s	+00°27'16"	9
9	105663	Aql	**β 57**			6.6	11	2.7"	2"	120°	140°	1971	1872	M2.5III	20h05m26.6s	+15°30'02"	9
9	125478	Aql	**Σ 2628**			6.6	8.66	3.1"	6"	339°	350°	2006	1828	F3V	20h07m50.4s	+09°24'00"	9
9	125517	Aql	**Σ 2635**		AB	6.66	10.19	7.3"	7.3"	80°	79°	2002	1825	F7V	20h10m07.8s	+08°26'35"	9
9	125567	Aql	**Σ 2644**			6.92	7.06	2.7"	3"	206°	214°	2006	1783	B9p	20h12m35.1s	+00°52'01"	9
9	144173	Aql	**Σ 2643**			7.09	9.4	3"	3.2"	80°	71°	1998	1830	A0V	20h12m47.3s	-02°59'45"	9
9	144212	Aql	**Σ 2654**			6.96	8.14	14.8"	14.1"	233°	233°	2006	1822	F2V F4V	20h15m10.6s	-03°30'13"	9
9	144237	Aql	**RST 4659**			7.16	9.19	1.7"	1.2"	7°	356°	1991	1939	F5	20h16m50.3s	-03°29'31"	9
9	48193	Cyg	**Σ 2486**		AB	6.54	6.67	7.5"	9"	206°	223°	2006	1819	G3V G3V	19h12m04.9s	+49°51'25"	9
9	48247	Cyg	**Σ 2496**		AB	6.46	10	2.1"	2.4"	80°	78°	1991	1832	G8III	19h15m19.2s	+50°04'16"	9
9	48247	Cyg			AC	6.46	10	185.6"		242°		1881		G8III	19h15m19.2s	+50°04'16"	9
9	31711	Cyg	**ARG 104**			7	9.3	76"	77.7"	93°	86°	2002	1903	K0	19h30m12.3s	+55°25'23"	9
9	87301	Cyg	**β Cyg**	Σ 43	Aa-B	3.19	4.68	35.3"	34.2"	54°	58°	2006	1755		19h30m43.3s	+27°57'35"	9
9	87462	Cyg	**HJ 1423**		AB	6.3	11	20.3"	21"	127°	129°	2002	1900		19h37m09.6s	+29°20'01"	9
9	87462	Cyg		WRH 23	AE	6.4	9.6	33.4"	25.1"	293°	289°	2002	1949		19h37m09.6s	+29°20'01"	9
9	87462	Cyg		WRH 23	AF	6.4	8.9	71.5"	71.5"	18°	18°	1949	1949		19h37m09.6s	+29°20'01"	9
9	87462	Cyg		WRH 23	AG	6.4	8.6	76"	76"	88°	88°	1949	1949		19h37m09.6s	+29°20'01"	9
9	48673	Cyg	**HJ 1428**		AB	6.63	10.22	31.7"	24.7"	231°	258°	2006	1905	G6V	19h37m56.7s	+49°17'05"	9
9	48673	Cyg			AC	6.57	10.94	61.8"	54.9"	259°	259°	2006	1899		19h37m56.7s	+49°17'05"	9
9	68654	Cyg	**HO 111**		AB	6.1	9.61	1.2"	0.8"	15°	1°	1991	1885	B0.5Iae	19h39m44.9s	+33°58'44"	9
9	68654	Cyg			AC	6.1	11.7	24.6"	24.3"	168°	170°	1958	1905	B0.5Iae	19h39m44.9s	+33°58'44"	9
9	31898	Cyg	**16 Cyg**	ΣA 46		5.96	6.2	39.4"	37.3"	133°	136°	1986	1822	G1.5V	19h41m48.9s	+50°31'29"	9
9	68751	Cyg	**SEI 666**			6.7	9.7	21.6"	25.5"	319°	327°	2003	1896	K0	19h43m10.8s	+38°40'18"	9
9	48796	Cyg	**δ Cyg**	Σ 2579	AB	2.89	6.27	2.6"	2.3"	222°	72°	2005	1783	B9.5IV	19h44m58.5s	+45°07'51"	9
9	68805	Cyg	**Σ 2578**		AB	6.37	7.04	15.2"	14.2"	124°	126°	2006	1823	B9.5V	19h45m39.7s	+36°05'28"	9
9	68805	Cyg			AC	6.37	11.4	45.9"		358°		1894		B9.5V	19h45m39.7s	+36°05'28"	9
9	68805	Cyg			AF	6.37	9.22	145.2"	143.3"	250°	251°	2005	1880		19h45m39.7s	+36°05'28"	9
9	68810	Cyg	**H 5 137**		AB	6.22	8.18	38.6"	35"	25°	33°	2006	1783		19h45m51.4s	+35°00'46"	9
9	68810	Cyg		BOT 3	AC	6.1	8.5	44.6"	44.6"	77°	77°	1958	1958	G9III	19h45m51.4s	+35°00'46"	9
9	68827	Cyg	**17 Cyg**	Σ 2580	AB	5.06	9.25	26.3"	25.5"	67°	73°	2001	1822	F5V	19h46m25.6s	+33°43'36"	9
9	68827	Cyg		Σ 2580	AC	5.06	9.44	112.6"	161.6"	126°	146°	1999	1852		19h46m25.6s	+33°43'36"	9
9	68835	Cyg	**S 726**		AD	6.2	9.2	29.2"	33.4"	192°	206°	2003	1825		19h46m35.0s	+32°53'19"	9
9	68909	Cyg	**ES 84**		AB	6.1	11.1	11.5"		161°		1902		G3III	19h49m27.5s	+38°42'36"	9
9	68909	Cyg			AC	6.2	11.2	22.5"	23.1"	95°	98°	1985	1902		19h49m27.5s	+38°42'36"	9
9	69079	Cyg	**OΣ 390**		AB	6.63	9.5	9.4"	9.6"	22°	23°	2006	1849	B6V+A5V	19h55m06.5s	+30°11'42"	9
9	69079	Cyg			AC	6.6	10.5	16.4"		175°		2006	1849	B6V+A5V	19h55m06.5s	+30°11'42"	9
9	32114	Cyg	**ψ Cyg**	Σ 2605	AB	5.03	7.52	3.1"	4"	174°	181°	2006	1779	A4Vn	19h55m37.8s	+52°26'20"	9
9	32114	Cyg		Σ 2605	AD	5.03	10.2	165.4"	163.2"	61°	62°	1908	1880	A4Vn	19h55m37.8s	+52°26'20"	9
9	49011	Cyg	**β 1474**			5.44	9.31	65.2"	65.3"	316°	318°	2002	1893	B5V	19h57m13.9s	+40°22'04"	9
9	49031	Cyg	**Σ 2607**		AB-C	6.56	9.09	3"	4.3"	289°	287°	2003	1828		19h57m56.1s	+42°15'39"	9
9	49031	Cyg			AB	6.6	8.4	0.1"	0.5"	201°	320°	1989	1843	A3V	19h57m56.1s	+42°15'39"	9
9	69193	Cyg	**Σ 2609**			6.69	7.64	2"	2.9"	23°	26°	2006	1828	B5IV	19h58m34.4s	+38°06'21"	9
9	69222	Cyg	**β 1133**			6.67	9.91	1.1"	0.9"	342°	339°	1991	1889	A0	19h59m39.1s	+31°49'35"	9
9	32809	Cyg	**51 Cyg**	β 675	AC	5.38	10.64	72.1"	71.2"	240°	240°	1999	1899		20h 42.2min	+50° 20'	9
9	69252	Cyg	**WEB 9**		AB	6.69	8.97	71.1"	70.5"	203°	203°	2004	1896	B6IV	20h00m44.8s	+36°35'23"	9
9	69252	Cyg			AC	6.68	9.6	82.1"	81.2"	220°	221°	2004	1896		20h00m44.8s	+36°35'23"	9
9	49098	Cyg	**26 Cyg**	H 5 47	AB	5.17	8.94	41.5"	41.3"	150°	146°	2005	1875	K1II-III	20h01m36s	+50 07'17"	9
9	69324	Cyg	**Σ 2624**		Aa,B	7.09	7.73	1.9"	2.5"	175°	177°	2002	1823		20h03m29.4s	+36°01'30"	9
9	69324	Cyg			Aa,C	7.09	9.26	42.7"	41.3"	327°	330°	2002	1823	B1IIIs	20h03m29.4s	+36°01'30"	9
9	69402	Cyg	**SHJ 314**		AF	6.78	7.3	36.6"	29.5"	28°	33°	2006	1783		20h05m57.3s	+35°47'18"	9
9	69402	Cyg		β 429	AC	6.78	11	12.1"	7.8"	28°	26°	2003	1876		20h05m57.3s	+35°47'18"	9
9	69402	Cyg		β 429	AE	6.77	11.5	28.1"		107°		1876			20h05m57.3s	+35°47'18"	9

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
9	69402	Cyg		SHJ 314	AD	6.78	9.49	11.9"	11.3"	299°	296°	2006	1783	B1V	20h05m57.3s	+35°47'18"	9
9	32286	Cyg	**ENG 70**			5.86	9.79	168.9"	171.8"	136°	123°	2002	1893	F5V	20h06m13.9s	+53°09'58"	9
9	49217	Cyg	**A 382**			7.21	9.49	1.7"	1.3"	96°	85°	1998	1902	K0	20h08m01.2s	+42°23'06"	9
9	32354	Cyg	**AC 17**		AB	6.17	10.55	4.3"	3.9"	82°	80°	1991	1859	K2.5III	20h12m31.7s	+51°27'49"	9
9	32354	Cyg			AE	6.17	10.78	130.3"	131.2"	148°	150°	2000	1897		20h12m31.7s	+51°27'49"	9
9	49337	Cyg	**31 Cyg**	Σ 50	Aa-D	3.93	4.83	330.7"	338"	324°	325°	1998	1800		20h13m37.9s	+46°44'29"	9
9	49337	Cyg		Σ 50	Aa-C	3.93	6.97	107.1"	100"	173°	183°	2000	1779		20h13m37.9s	+46°44'29"	9
9	49345	Cyg	**Σ 2657**		AC	7.28	9.8	11.8"	10"	32°	31°	2000	1831		20h14m21.5s	+42°06'16"	9
9	49345	Cyg		OΣ 403	AB	7.31	7.64	0.9"	0.6"	171°	168°	2005	1843	B9IV-V	20h14m21.5s	+42°06'16"	9
9	69743	Cyg	**HO 588**		AB	6.91	8.89	50.3"	50.7"	297°	298°	2003	1893	A0III	20h16m55.0s	+31°30'19"	9
9	49438	Cyg	**Σ 2666**		Aa,B	5.96	8.24	2.6"	2.7"	245°	242°	2006	1831		20h18m07.0s	+40°43'55"	9
9	49438	Cyg			Aa,C	5.96	11.1	34.8"	33.7"	207°	208°	1959	1887	O9V	20h18m07.0s	+40°43'55"	9
9	32455	Cyg	**Σ 2671**		AB	6.01	7.51	3.7"	3"	337°	341°	2006	1831	A2Vs	20h18m24.7s	+55°23'49"	9
9	69820	Cyg	**HO 125**			6.4	10.6	3.1"	2.8"	194°	195°	1941	1885	K4II	20h18m57.5s	+39°00'15"	9
9	69856	Cyg	**Σ 2668**		AB-C	6.34	8.49	3.3"	3.3"	280°	294°	2006	1831		20h20m15.2s	+39°24'11"	9
9	49550	Cyg	**OΣ 207**		AC	6.41	8.01	86.9"	96.4"	64°	63°	2003	1876		20h22m55.6s	+42°59'01"	9
9	69929	Cyg	**OΣ 206**		AB	6.72	8.63	42.8"	42.7"	255°	257°	2003	1876	B6III	20h22m57.7s	+39°12'40"	9
9	69929	Cyg			Aa	6.75	11	24.4"	24"	260°	263°	1998	1895		20h22m57.7s	+39°12'40"	9
9	49712	Cyg	**ω 1 Cyg**	β 669	AC	4.95	9.4	55.9"	56.3"	88°	86°	2000	1878		20h30m03.5s	+48°57'06"	9
9	49731	Cyg	**S 755**		AB	6.64	9.72	59.3"	30"	278°	277°	2002	1780	A2	20h30m52.7s	+49°12'47"	9
9	70135	Cyg	**44 Cyg**	AC 18	AB	6.32	10.12	2.2"	2.5"	158°	155°	1991	1859	F5Iab	20h30m59.2s	+36°56'09"	9
9	49741	Cyg	**ω 2 Cyg**	S 756		5.62	10.24	60.2"	55.8"	327°	319°	2006	1825	M2IIIab	20h31m18.8s	+49°13'13"	9
9	49804	Cyg	**β 1489**		AB	5.75	9.35	117.5"	118.1"	17°	17°	2002	1893	B9pSi	20h33m54.8s	+46°41'38"	9
9	70206	Cyg	**OΣ 408**			6.75	9.37	1.7"	1.6"	192°	193°	2003	1846	B7V	20h34m02.0s	+34°40'44"	9
9	70220	Cyg	**Σ 2700**			6.99	8.75	25.2"	24"	285°	286°	2006	1831	K2III	20h34m44.6s	+32°30'21"	9
9	49886	Cyg	**ES 89**			6.61	11.5	16.3"		200°		1906			20h38m17.0s	+48°04'13"	9
9	70321	Cyg	**Σ 2708**		AB	6.83	8.67	53.3"	9.6"	323°	1°	2004	1823	G2V	20h38m40.3s	+38°38'05"	9
9	70321	Cyg			AD	6.75	10.8	114.7"	115.1"	229°	214°	1998	1880		20h38m40.3s	+38°38'05"	9
9	49899	Cyg	**OΣ 410**		AB	6.73	6.83	0.9"	0.5"	5°	23°	2003	1843	B8IIIpMn	20h39m33.3s	+40°34'47"	9
9	49899	Cyg			AB-C	6.76	8.72	68.1"	69"	69°	70°	2004	1851		20h39m33.3s	+40°34'47"	9
9	49899	Cyg			AB-D	6.76	10.02	106.7"	102.9"	326°	326°	2004	1892		20h39m33.3s	+40°34'47"	9
9	70367	Cyg	**HJ 612**		Aa-B	6.48	10.6	49.1"	48.7"	10°	9°	1998	1896		20h41m00.4s	+39°04'56"	9
9	32908	Cyg	**Σ 2732**			6.38	8.63	4.3"	4.4"	73°	75°	2003	1825	B8np	20h48m42.7s	+51°54'37"	9
9	50116	Cyg	**ES 94**		AB	6.78	10.45	102.7"	101.2"	16°	13°	2002	1899	M3II-III	20h49m37.7s	+50°07'38"	9
9	32933	Cyg	**β 155**		AB	7.36	8.13	0.7"	0.6"	38°	40°	2005	1873	A9IV	20h51m05.5s	+51°25'02"	9
9	32933	Cyg			AD	6.8	10.9	192.5"	199.8"	48°	48°	1999	1880		20h51m05.5s	+51°25'02"	9
9	33034	Cyg	**Σ 2741**		AB	5.94	6.79	2"	1.2"	26°	44°	2006	1783	B5Vn	20h58m30.0s	+50°27'42"	9
9	33034	Cyg			AC	5.5	10.5	138.1"	139.4"	355°	356°	1999	1879		20h58m30.0s	+50°27'42"	9
9	105957	Del	**Σ 2665**		A-BC	6.88	9.55	3.4"	3.1"	13°	17°	2003	1829	A0+G	20h19m21.2s	+14°22'15"	9
9	105980	Del	**HDS 2906**			6.81	10.73	0.5"	0.5"	317°	317°	1991	1991	K2	20h20m09.9s	+11°28'10"	9
9	30262	Dra	**ES 77**		Aa-B	6.45	10.96	18.2"	17"	278°	274°	1998	1901		17h08m17.1s	+50°50'32"	9
9	30299	Dra	**Σ 2146**		AC	7.1	8.87	89.2"	88.8"	233°	231°	1999	1901		17h13m06.3s	+54°08'22"	9
9	30299	Dra			AB	7.1	9	2.7"	3.4"	225°	174°	1998	1828	A9III	17h13m06.3s	+54°08'22"	9
9	30836	Dra	**β 1274**		A-BC	6.37	9.8	92.8"	96"	239°	239°	2003	1878	F2V	18h14m41.0s	+56°35'18"	9
9	31051	Dra	**Σ 2348**		AB-C	5.5	8.65	25.3"	25.7"	271°	273°	2002	1832		18h33m56.7s	+52°21'13"	9
9	31051	Dra		SLE 216	AB-D	6.2	11.9	92.8"		338°		1982		G9III	18h33m56.7s	+52°21'13"	9
9	47815	Dra	**HEI 72**			6.84	8.99	0.6"	0.4"	229°	213°	2003	1979	A1V	18h47m40.1s	+49°04'30"	9
9	31337	Dra	**Σ 2450**		A-BC	6.5	9.51	5.2"	4.9"	299°	305°	2005	1833	G8III	19h02m07.0s	+52°15'40"	9
9	46561	Her	**Σ 2142**		AB	6.18	9.35	4.7"	5.3"	113°	116°	2000	1830	A5III	17h11m40.3s	+49°44'47"	9
9	65921	Her	**69 Her**	HDS 2446		4.62	8.53	0.9"	0.8"	142°	141°	2000	1991	A2V	17h17m40.2s	+37°17'30"	9
9	66001	Her	**ρ Her**	Σ 2161	Aa-B	4.5	5.4	4.1"	3"	319°	300°	2006	1781		17h23m40.9s	+37°08'45"	9
9	66014	Her	**OΣ 329**		AB	6.35	9.88	33.2"	33.2"	12°	13°	2003	1843	G5III+F0V	17h24m27.1s	+36°57'07"	9
9	85232	Her	**Σ 2190**		AB	6.13	9.48	10.3"	10.2"	21°	33°	2006	1829	A7IV	17h35m59.6s	+20°59'46"	9
9	66243	Her	**OΣ 157**		AB	6.43	7.92	116.5"	112.9"	105°	111°	2003	1874	K0III	17h40m41.2s	+31°17'14"	9
9	85310	Her	**Σ 2194**		AB	6.51	9.28	16.6"	14.3"	5°	354°	2006	1783		17h41m05.5s	+24°30'48"	9
9	85310	Her			AC	6.51	9.29	168.9"	162.9"	163°	161°	2002	1880		17h41m05.5s	+24°30'48"	9
9	46884	Her	**Σ 2203**			7	7.9	0.74"		298°					17h41m13.8s	+41°39'18"	9
9	85344	Her	**83 Her**	ENG 62		5.72	9.68	145.2"	159.8"	261°	259°	2002	1886	K4III	17h42m28.3s	+24°33'50"	9
9	103069	Her	**HJ 1303**			6.21	12.04	39.7"	37.9"	151°	150°	1959	1904	A3m	17h44m17.2s	+14°24'36"	9
9	66317	Her	**Σ2224**	S2224	AB	6.69	9.99	7.6"	7.5"	349°	352°	1998	1831		17h45m58.5s	+39°19'21"	9
9	103106	Her	**Σ 2215**			6.02	6.89	0.5"	0.8"	255°	311°	2005	1831	A1V	17h47m08.1s	+17°41'49"	9

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
9	66336	Her	**Oξ 336**		AD	6.58	10.64	41.5"	44.7"	163°	164°	1998	1843		17h47m52.1s	+34°16'40"	9
9	85459	Her	**Σ 2232**			6.71	8.85	6.3"	6.5"	138°	143°	2006	1830	A1V	17h50m15.0s	+25°17'28"	9
9	103161	Her	**Oξ 338**		AB	7.21	7.38	0.8"	0.6"	169°	223°	2005	1843	G8III	17h51m58.5s	+15°19'35"	9
9	103161	Her			AD	6.5	9.9	96.3"	95.2"	247°	251°	2000	1906		17h51m58.5s	+15°19'35"	9
9	47037	Her	**90 Her**	β 130		5.28	8.76	1.5"	1.8"	116°	123°	1999	1875	K3III	17h53m18.0s	+40°00'29"	9
9	47084	Her	**HU 235**			6.88	9.04	1.6"	1.5"	284°	265°	2003	1900	F7IV	17h57m05.1s	+45°51'22"	9
9	66530	Her	**COU 1002**			7.19	9.76	0.7"	0.6"	168°	167°	1991	1973	K0	17h58m40.5s	+35°37'55"	9
9	85648	Her	**95 Her**	Σ 2264		4.85	5.2	6.5"	9"	257°	264°	2006	1777	A5IIIn	18h01m30.4s	+21°35'45"	9
9	47173	Her	**Σ 2277**		AB	6.25	8.93	27.1"	27.6"	128°	118°	2006	1830	A1V	18h03m08.9s	+48°27'51"	9
9	47173	Her			AC	6.25	10.19	97.8"	88.4"	297°	284°	2003	1895		18h03m08.9s	+48°27'51"	9
9	66648	Her	**99 Her**	AC 15	AB	5.13	8.96	0.4"	1.7"	250°	347°	1999	1859	F7V	18h07m01.5s	+30°33'45"	9
9	66648	Her		AC 15	AC	5.1	10.7	96.2"	93.6"	59°	52°	1998	1900		18h07m01.5s	+30°33'45"	9
9	66648	Her		AC 15	AE	5.1	10.8	168.8"	163.2"	78°	75°	1998	1900		18h07m01.5s	+30°33'45"	9
9	66648	Her		AC 15	AF	5.1	10.7	162.5"	159.7"	165°	165°	1998	1982		18h07m01.5s	+30°33'45"	9
9	47233	Her	**Oξ 344**			6.47	10.31	2.3"	1.8"	141°	151°	1991	1843	A2V	18h07m06.3s	+49°42'38"	9
9	85753	Her	**100 Her**	Σ 2280	Aa-B	5.81	5.84	14.5"	17"	183°	0°	2006	1777	A3V	18h07m49.6s	+26°06'05"	9
9	85753	Her		Σ 2280	Aa-C	5.1	11	79.9"	76"	127°	125°	2000	1897		18h07m49.6s	+26°06'05"	9
9	103443	Her	**Σ 2289**			6.65	7.21	1.2"	1.2"	220°	243°	2006	1829	A0V+G0III	18h10m08.7s	+16°28'36"	9
9	66733	Her	**HO 82**		AB-C	6.08	8.99	0.7"	0.6"	218°	207°	1999	1885		18h11m45.1s	+33°26'49"	9
9	85906	Her	**BUP 181**		AC	6.68	10.04	154.1"	156.3"	126°	126°	2002	1878		18h18m07.7s	+23°17'49"	9
9	85950	Her	**Σ 2310**			6.83	9.98	5.1"	5"	238°	237°	2005	1830	B8III	18h20m38.7s	+22°47'51"	9
9	85969	Her	**β 641**			7.03	8.66	0.9"	1"	340°	351°	1999	1878	B9.5II	18h21m48.4s	+21°30'28"	9
9	86007	Her	**HO 652**			6.75	11.6	39"		350°		1903			18h24m05.6s	+20°27'09"	9
9	86019	Her	**Σ 2315**		AB	6.57	7.77	0.6"	0.6"	121°	282°	2006	1828	A0V+A4V	18h24m58.5s	+27°23'41"	9
9	86060	Her	**β 1326**		AC	6.48	9.62	61.5"	61.9"	61°	61°	2002	1897		18h26m40.9s	+26°26'57"	9
9	86083	Her	**Σ 2320**			7.14	8.9	1.2"	1.8"	1°	11°	2004	1831	B9V	18h27m45.9s	+24°41'51"	9
9	86224	Her	**Oξ 359**			6.35	6.62	0.7"	0.9"	6°	0°	2006	1843	G9III-IV	18h35m30.4s	+23°36'20"	9
9	103886	Her	**Oξ358**		AB	6.94	7.08	1.7"	0.8"	152°	224°	2006	1843	F8V	18h35m53.2s	+16°58'32"	9
9	103886	Her			AB-C	6.94	8.5	199.3"	202.3"	235°	234°	1999	1896		18h35m53.2s	+16°58'32"	9
9	86239	Her	**HJ 2834**			6.76	11.7	20.2"		250°		1879			18h36m37.0s	+22°06'27"	9
9	103942	Her	**HJ 1331**			6.78	11.4	39.2"		208°		1893			18h38m34.4s	+15°05'01"	9
9	104203	Her	**Σ 2411**		AB	6.63	9.61	13.3"	13.5"	95°	96°	2006	1829	G9III	18h52m18.6s	+14°32'08"	9
9	86563	Her	**Σ 2415**			7.07	8.73	2"	2"	290°	299°	1998	1831	A0IV	18h54m32.9s	+20°36'55"	9
9	67097	Lyr	**Oξ 171**		AB	7.02	8.12	150.1"	139.3"	328°	316°	2002	1829	F8 G5	18h32m51.5s	+38°49'59"	9
9	67097	Lyr			Aa	6.9	11	81.8"	85.9"	134°	139°	1998	1911		18h32m51.5s	+38°49'59"	9
9	67250	Lyr	**Σ 2367**		AB-C	7.05	8.75	14"	14.1"	192°	194°	2002	1832		18h41m16.4s	+30°17'40"	9
9	67250	Lyr			AB-D	6.8	11.9	22.9"		95°		1998	1880		18h41m16.4s	+30°17'40"	9
9	67250	Lyr			AB-E	6.9	10.9	151"	149.4"	341°	341°	1998	1880		18h41m16.4s	+30°17'40"	9
9	67265	Lyr	**Σ 2372**		Aa-B	6.45	7.73	25.5"	22.9"	82°	85°	2006	1783		18h42m08.1s	+34°44'47"	9
9	67265	Lyr		BLL 34	BC	6.1	11.4	90.9"		65°		1879		B5V	18h42m08.1s	+34°44'47"	9
9	67287	Lyr	**BLL 35**			6.64	10.35	60.3"	60.2"	192°	191°	2004	1877	K5	18h43m16.6s	+39°18'00"	9
9	67310	Lyr	**ε 1 Lyr**	Σ 2382	AB	5.01	6.1	2.4"	4"	348°	45°	2006	1777	A4V F1V	18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	AB-CD	5.01	5.25	210.5"	207.3"	174°	173°	1998	1830		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	AD	5.01	5.38	208.7"	209"	172°	172°	1991	1903		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	AI	5.01	10.43	150.2"	145.4"	137°	135°	2000	1863		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	BC	6.1	5.25	211"	210.6"	172°	173°	1991	1903		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	BD	6.1	5.38	211.2"	212.2"	172°	173°	1991	1903		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	BI	6.1	10.43	147.1"	145.5"	137°	136°	1956	1872		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	Cc-I	5.1	10.43	121.6"	129.1"	37°	37°	2000	1863		18h44m20.4s	+39°40'13"	9
9	67310	Lyr		Σ 37	DI	5.4	10.43	122.1"	126.4"	35°	36°	1956	1909		18h44m20.4s	+39°40'13"	9
9	67315	Lyr	**ε 2 Lyr**	Σ 2383	Cc-D	5.25	5.38	2.4"	2"	80°	180°	2006	1777	A8Vn F0Vn	18h44m20.4s	+39°40'13"	9
9	67324	Lyr	**ζ Lyr**	Σ 38	AD	4.34	5.62	43.6"	42"	150°	152°	2005	1779	F0IVv	18h44m46.4s	+37°36'19"	9
9	67441	Lyr	**v-1 Lyr**	H 45 40	AC	5.93	10.3	57.7"	56.8"	121°	119°	1998	1781	B3IV	18h49m45.9s	+32°48'46"	9
9	67441	Lyr		H 45 40	AB	5.93	10.89	34.1"	35"	76°	78°	1998	1836	B3IV	18h49m45.9s	+32°48'46"	9
9	67451	Lyr	**β Lyr**	Σ 39	AB	3.63	6.69	47.4"	48"	151°	143°	2005	1777	B7Ve+A8p	18h50m06.0s	+33°22'00"	9
9	67451	Lyr		Σ 39	AB-C	7.1	8.65	19.3"	18.6"	44°	50°	2004	1783		18h50m06.0s	+33°22'00"	9
9	67451	Lyr		β 293	AE	3.63	10.14	67.2"	60"	317°	320°	2002	1834		18h50m06.0s	+33°22'00"	9
9	67451	Lyr		β 293	AF	3.63	10.62	86.9"	71"	19°	25°	2002	1834		18h50m06.0s	+33°22'00"	9
9	67451	Lyr		β 293	BE	6.69	10.14	111.5"	111.5"	323°	323°	2005	2005		18h50m06.0s	+33°22'00"	9
9	67451	Lyr		β 293	BF	6.69	10.62	119.6"	119.6"	2°	2°	2005	2005		18h50m06.0s	+33°22'00"	9
9	67537	Lyr	**δ 1 Lyr**	H 6 3		5.55	9.93	175.8"	174.6"	20°	20°	2002	1905	B2.5V	18h53m43.6s	+36°58'18"	9
9	67566	Lyr	**SHJ 282**		AC	6.14	7.6	45.1"	45.5"	349°	351°	2004	1846		18h54m52.5s	+33°58'07"	9
9	67566	Lyr		Oξ 525	AB	6.14	9.12	1.8"	1.6"	128°	124°	2003	1849	A8+G5III	18h54m52.5s	+33°58'07"	9

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
9	47928	Lyr	**Σ 3130**		AB-C	6.97	10.52	2.7"	2.7"	259°	263°	1991	1833		18h55m57.2s	+44°13'42"	9
9	47928	Lyr		Σ 3130	AB-D	7	10.2	180.9"	181.1"	310°	311°	1998	1880		18h55m57.2s	+44°13'42"	9
9	47928	Lyr		OΣ 365	AB	7.2	8.3	0.4"	0.5"	288°	169°	1882	1841	A2	18h55m57.2s	+44°13'42"	9
9	67612	Lyr	**β 648**		AB	5.34	7.96	0.8"	0.6"	273°	313°	2005	1878	G0V	18h57m01.7s	+32°54'04"	9
9	67612	Lyr			AB-C	5.22	11	64.7"	54.1"	289°	285°	1960	1912		18h57m01.7s	+32°54'04"	9
9	47965	Lyr	**Σ 2431**			6.17	9.61	19.8"	18.8"	237°	236°	2006	1829	B3V	18h58m46.6s	+40°40'45"	9
9	48054	Lyr	**DA 9**			7.05	10.22	2"	2.2"	172°	180°	1991	1858	A0V	19h04m15.7s	+43°52'50"	9
9	67835	Lyr	**17 Lyr**	Σ 2461	AB	5.26	9.1	3.7"	3.7"	290°	331°	2001	1830	F0V	19h07m25.6s	+32°30'06"	9
9	67835	Lyr		Σ 2461	AD	5.26	8.99	135.3"	123.7"	292°	297°	2002	1880		19h07m25.6s	+32°30'06"	9
9	67835	Lyr		Σ 2461	AE	5.26	10.9	141.7"	152.7"	119°	116°	1998	1887		19h07m25.6s	+32°30'06"	9
9	67835	Lyr		Σ 2461	AF	5.26	10.59	166.9"	168.2"	354°	358°	2002	1887		19h07m25.6s	+32°30'06"	9
9	67879	Lyr	**Σ 2474**		Aa-B	6.78	7.88	16.6"	17.1"	263°	260°	2006	1823		19h09m04.4s	+34°36'03"	9
9	68010	Lyr	**η Lyr**	Σ 2487	AB	4.38	8.58	28.6"	26"	81°	90°	2005	1777	B2.5IV	19h13m45.5s	+39°08'45"	9
9	68010	Lyr		Σ 2487	AC	4.38	11.1	161.3"		151°		1880		B2.5IV	19h13m45.5s	+39°08'45"	9
9	87005	Lyr	**OΣ 371**		AB	7.03	7.55	0.9"	0.7"	160°	149°	2005	1843	B8V	19h15m57.0s	+27°27'21"	9
9	87005	Lyr			AB-C	6.5	9.77	47.5"	47.8"	270°	268°	1997	1851		19h15m57.0s	+27°27'21"	9
9	68065	Lyr	**θ Lyr**	SHJ 292	AB	4.48	10.14	98.8"	90"	70°	72°	2002	1823	K0II	19h16m22.1s	+38°08'01"	9
9	68065	Lyr		SHJ 292	AC	4.36	11	101.4"	99.9"	128°	127°	1998	1880		19h16m22.1s	+38°08'01"	9
9	122690	Oph	**61 Oph**	Σ 2202	AB	6.13	6.47	21.3"	19"	93°	102°	2006	1777	A1IV-V	17h44m34.1s	+02°34'46"	9
9	122847	Oph	**S 694**			6.67	7.26	79"	81.8"	237°	237°	2003	1825	dK0 A0	17h52m05.2s	+01°06'40"	9
9	122950	Oph	**Σ2244**			6.6	6.8	0.4"	1"	94°	273°	1993	1830	A3V	17h57m04.3s	+00°03'59"	9
9	123013	Oph	**67 Oph**	H 6 2	AC	3.96	8.06	54.3"	55.2"	142°	143°	2003	1823		18h00m38.7s	+02°55'54"	9
9	123013	Oph		β 634	AE	3.96	10.9	45.7"	45.9"	179°	180°	2002	1878		18h00m38.7s	+02°55'54"	9
9	123035	Oph	**68 Oph**	β 1125	AB	4.52	7.48	0.6"	1.1"	118°	12°	1997	1889	A2Vn	18h01m45.2s	+01°18'18"	9
9	123107	Oph	**70 Oph**	Σ 2272	AB	4.22	6.17	5.3"	7"	136°	82°	2006	1777	K0V K4V	18h05m27.3s	+02°29'53"	9
9	123107	Oph		Σ 2272	AV	4.22	10.83	138.6"	165.9"	246°	224°	1946	1886		18h05m27.3s	+02°29'53"	9
9	103373	Oph	**Σ 2276**		AB	7.09	7.44	6.9"	7.6"	257°	260°	2005	1783	A7p	18h05m43.3s	+12°00'14"	9
9	103373	Oph			AC	7.09	11.03	62.9"	63.1"	305°	306°	2004	1905	A0	18h05m43.3s	+12°00'14"	9
9	103406	Oph	**H 5 74**			6.6	10.39	41.7"	40.9"	139°	129°	2003	1783	A2Vn	18h07m48.4s	+13°04'16"	9
9	123156	Oph	**β 636**		AD	6.61	11.5	41.5"		348°		1923			18h08m07.3s	+02°13'07"	9
9	123187	Oph	**73 Oph**	Σ 2281	AB	5.97	7.52	0.6"	0.9"	293°	267°	2004	1783	F2V	18h09m33.9s	+03°59'36"	9
9	123198	Oph	**β 637**		AC	5.7	10	97.8"	104.6"	246°	237°	1999	1910		18h09m54.0s	+03°07'10"	9
9	123585	Oph	**OΣ 170**		AB	6.97	8.75	99.7"	101.7"	6°	6°	2004	1875	A2	18h30m41.2s	+04°30'39"	9
9	123634	Oph	**OΣ 355**			6.41	10.31	37.5"	39"	248°	249°	2003	1866	B8IIIp	18h33m23.3s	+08°16'06"	9
9	142294	Ser	**AC 11**			6.71	7.21	0.9"	0.4"	355°	178°	2003	1854	F0	18h24m57.2s	-01°34'46"	9
9	123497	Ser	**59 Ser**	Σ 2316	Aa-B	5.38	7.62	3.9"	3.5"	320°	315°	2003	1781		18h27m12.5s	+00°11'46"	9
9	123673	Ser	**Σ 2342**	FR Ser	AC	6.46	9.63	34.1"	25"	359°	11°	2006	1830		18h35m36.5s	+04°56'09"	9
9	123688	Ser	**HJ 864**			6.76	11	19.2"	18"	326°	317°	1999	1876	K2III	18h36m29.0s	+04°57'18"	9
9	123756	Ser	**OΣ 360**			6.86	9.14	1.7"	1"	282°	297°	1991	1843	K2III	18h38m39.8s	+04°51'17"	9
9	123886	Ser	**Σ 2375**		Aa-Bb	6.34	6.73	2.6"	2.2"	119°	108°	2006	1825		18h45m28.4s	+05°30'00"	9
9	124068	Ser	**θ Ser**	Σ 2417	AB	4.59	4.93	23"	22.1"	104°	106°	2006	1755	A5V A5Vn	18h56m13.2s	+04°12'13"	9
9	124068	Ser		Σ 2417	BC	4.93	6.78	407"	414.8"	57°	56°	2004	1908	A5Vn	18h56m13.2s	+04°12'13"	9
9	104384	Sge	**HJ 2851**		AC	6.94	9.2	44.2"		298°		1926			19h01m57.7s	+19°07'30"	9
9	104384	Sge			AB	6.94	11.1	15.3"		131°		1926			19h01m57.7s	+19°07'30"	9
9	104511	Sge	**ENG 66**		Aa-B	6.15	10.78	131"	119.6"	287°	273°	1997	1893		19h07m57.4s	+16°51'10"	9
9	104602	Sge	**β 139**		AB	7.11	7.95	0.6"	0.5"	136°	130°	2005	1873	B9IV	19h12m34.5s	+16°50'47"	9
9	104602	Sge		OΣ 177	AC	7.11	8.02	99.7"	120.8"	278°	288°	2002	1874		19h12m34.5s	+16°50'47"	9
9	104753	Sge	**Σ 2504**		AB	7	9.03	9.3"	8.9"	282°	288°	2006	1830	F5V	19h20m59.9s	+19°08'44"	9
9	105061	Sge	**ε Sge**	H 6 26	AB	5.77	8.35	87.4"	91.9"	82°	82°	2002	1781	G9III	19h37m17.4s	+16°27'46"	9
9	105061	Sge		H 6 26	AD	5.7	9.5	160.8"	160.8"	343°	343°	1899	1899		19h37m17.4s	+16°27'46"	9
9	105081	Sge	**J 138**					"							19h38m09.7s	+17°14'36"	9
9	105104	Sge	**H N 84**			6.38	9.46	28.2"	28.2"	302°	302°	2003	1796	K4Ib	19h39m25.3s	+16°34'16"	9
9	105298	Sge	**ζ Sge**	Σ 2585	AB-C	5.04	9.01	8.4"	8.8"	311°	304°	2005	1781		19h48m58.7s	+19°08'32"	9
9	105298	Sge		Σ 2585	AB-D	5.04	11	76.9"	73.7"	246°	249°	2000	1895		19h48m58.7s	+19°08'32"	9
9	105485	Sge	**β 149**		AB	6.85	10.33	126.4"	125"	278°	280°	2004	1873	B8	19h58m14.3s	+16°29'37"	9
9	105522	Sge	**13 Sge**	β 1477		5.4	11.8	28.5"	29"	206°		1966	1878	M4III	20h00m03.3s	+17°30'59"	9
9	105522	Sge		β 1477	AC	5.4	11.5	47.1"				1924		M4IIIa	20h00m03.3s	+17°30'59"	9
9	105608	Sge	**OΣ 396**			6.13	10.38	46.4"	40"	207°	206°	2002	1843	K3II-III	20h03m16.4s	+18°30'03"	9
9	87190	Sge	**15 Sge**	OΣ 592	AB	5.86	9.5	166.9"	214.6"	289°	269°	2002	1853	G1V	20h04m06.0s	+17°04'10"	9
9	105635	Sge		OΣ 592	AC	5.86	6.92	213.9"	203.7"	333°	309°	2001	1853		20h04m06.0s	+17°04'10"	9
9	88276	Sge	**θ Sge**	Σ 2637	AC	6.56	7.52	89.8"	64.5"	222°	226°	2004	1800	K2III	20h09m56.7s	+20°54'55"	9

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
9	88276	Sge		Σ 2637	AB	6.56	8.85	12"	6"	329°	329°	2006	1800	F3V	20h09m56.7s	+20°54'55"	**9**
9	88276	Sge		Σ 2637	BC	7.3	8.9	94.3"	66.2"	215°	221°	2004	1800		20h09m56.7s	+20°54'55"	**9**
9	87036	Vul	**2 Vul**	β 248	AB	5.43	8.75	1.6"	1.9"	131°	125°	2001	1876	B0.5IV	19h17m43.6s	+23°01'32"	**9**
9	87036	Vul		HO 654	AC	6	11	51.1"	50.4"	119°	120°	1997	1881		19h17m43.6s	+23°01'32"	**9**
9	87190	Vul	**OΣ 589**		AB	6.2	10.4	40.5"	27.9"	57°	123°	1924	1866	F7V	19h25m25.7s	+24°54'41"	**9**
9	104818	Vul	**4 Vul**	HJ 2871	AB	5.16	10	16.2"	27.5"	93°	111°	1984	1831	G9III	19h25m28.7s	+19°47'54"	**9**
9	104839	Vul	**Σ 2521**		AB	5.82	10.5	27.9"	22.7"	33°	44°	1997	1829	K5III	19h26m28.7s	+19°53'29"	**9**
9	104839	Vul			AC	6.02	10.54	74.1"	69.7"	325°	321°	2002	1879		19h26m28.7s	+19°53'29"	**9**
9	104839	Vul			AD	6.02	10.57	152.1"	149.4"	63°	64°	2002	1878		19h26m28.7s	+19°53'29"	**9**
9	87551	Vul	**Σ 2560**		AB	6.64	8.8	15.3"		295°		2002	1879		19h40m39.6s	+23°43'05"	**9**
9	87551	Vul			AC	6.64	8.25	118.5"	119.5"	66°	67°	2002	1879		19h40m39.6s	+23°43'05"	**9**
9	87883	Vul	**13 Vul**	DJU 4		4.63	7.37	1.3"	0.8"	245°	242°	2003	1953	B9.5III	19h53m27.7s	+24°04'47"	**9**
9	88098	Vul	**16 Vul**	OΣ 395		5.83	6.19	0.8"	0.5"	124°	89°	2003	1843	F2III	20h02m01.5s	+24°56'17"	**9**
9	88377	Vul	**Σ 2653**			6.72	9.18	2.9"	2.5"	274°	255°	2003	1831	A1m	20h13m40.6s	+24°14'21"	**9**
9	88410	Vul	**β 983**		AB	4.8	7.55	0.5"	0.8"	179°	154°	1996	1879	B3V	20h15m15.9s	+25°35'31"	**9**
9	88410	Vul			AC	4.8	9.7	115.8"	115.8"	83°	83°	1912	1912		20h15m15.9s	+25°35'31"	**9**
9	88473	Vul	**β 441**		Aa-B	6.4	10.9	5.8"	5.9"	67°	65°	1958	1876		20h17m31.5s	+29°08'51"	**9**
9	88490	Vul	**HJ 1499**		AC	6.96	10.87	21.2"	21.4"	355°	356°	2003	1880		20h18m17.1s	+25°38'54"	**9**

CHART 10

10	29296	Boo	**Σ 1889**		AB	6.53	9.64	15"	16.1"	92°	88°	2003	1900	F3V	14h49m32.4s	+51°22'28"	**10**
10	45326	Boo	**OΣ 291**	BX Boo		6.33	9.62	35.6"	35"	156°	160°	2004	1830	B9pSiSrCr	15h00m38.7s	+47°16'39"	**10**
10	45357	Boo	**44 Boo**	Σ 1909		5.2	6.1	1.9"	1.5"	58°	240°	2006	1781	F7V+K4V	15h03m47.1s	+47°39'15"	**10**
10	29464	Boo	**OΣ 137**			6.56	8.94	68.1"	75.8"	102°	107°	2004	1876	G5	15h15m50.7s	+50°56'18"	**10**
10	45500	Boo	**HDS 2157**			6.88	9.21	0.4"	0.7"	279°	273°	1991	1991	K0	15h20m52.9s	+45°39'53"	**10**
10	64686	Boo	**μ Boo**	Σ 28	Aa-BC	4.33	7.09	107.1"	128"	170°	170°	2002	1781	F2IVa G0V	15h24m29.4s	+37°22'38"	**10**
10	64686	Boo		Σ 1938	BC	7.09	7.63	2.3"	1.5"	7°	357°	2006	1782	G0V	15h24m29.4s	+37°22'38"	**10**
10	64800	Boo	**OΣ 298**		AB-C	6.9	7.75	121.5"	122.3"	328°	328°	2002	1867	K3V	15h36m02.0s	+39°48'09"	**10**
10	64800	Boo			AB	7.16	8.44	0.9"	1.1"	174°	179°	2006	1843	K2V	15h36m02.0s	+39°48'09"	**10**
10	64769	CrB	**θ CrB**	COU 610		4.27	6.29	0.8"	0.5"	199°	203°	2003	1971	B6Vnne	15h32m55.8s	+31°21'33"	**10**
10	64834	CrB	**ζ CrB**	Σ 1965		4.96	5.91	6.3"	5.5"	306°	296°	2006	1779	B7V B9V	15h39m22.7s	+36°38'09"	**10**
10	83958	CrB	**γ CrB**	Σ 1967		4.04	5.6	0.7"	0.7"	114°	111°	2004	1826	B9V+A3V	15h42m44.5s	+26°17'45"	**10**
10	64974	CrB	**λ CrB**	H 6 94		5.45	10	94.3"	98.3"	66°	64°	1959	1879	F0IV	15h55m47.6s	+37°56'50"	**10**
10	65025	CrB	**OΣ 304**		AB	6.77	10.64	10.4"	8.5"	173°	176°	2003	1843	A0	16h00m55.0s	+39°10'39"	**10**
10	65024	CrB	**ρ CrB**	S 676		5.41	8.7	89.6"	74.2"	71°	109°	1923	1825	G2V	16h01m02.6s	+33°18'07"	**10**
10	65129	CrB	**OΣ 305**		AB	6.44	10.17	5.6"	4.7"	263°	261°	1991	1843	K2III	16h11m39.6s	+33°20'34"	**10**
10	84247	CrB	**Σ 2022**			6.54	10.03	2.3"	2.8"	151°	130°	1998	1830	F2V	16h12m45.5s	+26°40'14"	**10**
10	65165	CrB	**σ CrB**	Σ 2032	AB	5.62	6.49	7.2"	1.8"	237°	348°	2006	1781	G0V G1V	16h14m40.7s	+33°51'30"	**10**
10	65165	CrB		Σ 2032	AD	5.62	10.78	88.4"	42.2"	82°	91°	1996	1825		16h14m40.7s	+33°51'30"	**10**
10	65165	CrB		Σ 2032	BD	6.7	10.8	94.4"	43.3"	80°	89°	1996	1828		16h14m40.7s	+33°51'30"	**10**
10	65262	CrB	**H 5 38**			6.41	9.79	31.6"	36.4"	17°	21°	2005	1783	A4Vn	16h22m56.5s	+32°19'59"	**10**
10	29668	Dra	**β 946**			5.91	9.53	2.2"	1.3"	132°	152°	1991	1879	A3m	15h47m37.9s	+55°22'36"	**10**
10	29691	Dra	**Σ 1984**		AB	6.89	8.94	6.3"	6.5"	279°	273°	2006	1828	A1V	15h51m10.1s	+52°54'25"	**10**
10	30013	Dra	**17 Dra**	Σ 30	AC	5.38	5.5	89.8"	90.5"	196°	195°	2003	1832		16h36m13.7s	+52°55'28"	**10**
10	30013	Dra		Σ 30	BC	6.53	5.52	89.8"	89.9"	18°	17°	2003	1832		16h36m13.7s	+52°55'28"	**10**
10	30013	Dra		Σ 2078	AB	5.38	6.42	3.1"	4"	105°	114°	2006	1781	B9.5V	16h36m13.7s	+52°55'28"	**10**
10	30239	Dra	**μ Dra**	Σ 2130	AB	5.66	5.69	2.4"	4.4"	12°	232°	2006	1781	F7V	17h05m20.1s	+54°28'13"	**10**
10	30262	Dra	**ES 77**		Aa-B	6.45	10.96	18.2"	17"	278°	274°	1998	1901		17h08m17.1s	+50°50'32"	**10**
10	30299	Dra	**Σ 2146**		AC	7.1	8.87	89.2"	88.8"	233°	231°	1999	1901		17h13m06.3s	+54°08'22"	**10**
10	30299	Dra			AB	7.1	9	2.7"	3.4"	225°	174°	1998	1828	A9III	17h13m06.3s	+54°08'22"	**10**
10	30450	Dra	**ν Dra**	Σ 35		4.87	4.9	62.6"	71.4"	312°	314°	2005	1690	A4m A6V	17h32m16.1s	+55°10'23"	**10**
10	31051	Dra	**Σ 2348**		AB-C	5.5	8.65	25.3"	25.7"	271°	273°	2002	1832		18h33m56.7s	+52°21'13"	**10**
10	31051	Dra		SLE 216	AB-D	6.2	11.9	92.8"		338°		1982		G9III	18h33m56.7s	+52°21'13"	**10**
10	47815	Dra	**HEI 72**			6.84	8.99	0.6"	0.4"	229°	213°	2003	1979	A1V	18h47m40.1s	+49°04'30"	**10**
10	31337	Dra	**Σ 2450**		A-BC	6.5	9.51	5.2"	4.9"	299°	305°	2005	1833	G8III	19h02m07.0s	+52°15'40"	**10**
10	101951	Her	**κ Her**	Σ 2010	AB	5.1	6.21	27.7"	40"	13°	10°	2006	1779	G7III	16h08m04.5s	+17°02'49"	**10**
10	45957	Her	**Σ 2024**			5.86	10.73	23.7"	23.5"	44°	45°	1999	1894	K4III	16h11m47.6s	+42°22'29"	**10**
10	102018	Her	**Σ 2021**		Aa-B	7.43	7.48	4.4"	2.5"	356°	292°	2005	1783		16h13m18.5s	+13°31'34"	**10**
10	84393	Her	**Σ 2049**			7.33	8.1	1.1"	1.1"	195°	215°	2005	1829	A2.5V	16h27m54.6s	+25°59'04"	**10**
10	102200	Her	**Σ 2052**		AB	6.98	8	2.1"		122°					16h28m52.5s	+18°24'53"	**10**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
10	102200	Her			AC	6.98	11.1	143.3"		29°					16h28m52.5s	+18°24'53"	**10**
10	46147	Her	**Σ 2063**			5.69	8.7	16.3"	16.3"	196°	194°	2003	1830	A2V	16h31m47.2s	+45°35'54"	**10**
10	102259	Her	**WEB 6**			6.41	7.26	157"	156.4"	359°	0°	2001	1899	A2V	16h35m26.3s	+17°03'26"	**10**
10	65444	Her	**HDS 2355**			6.96	10.11	0.5"	0.5"	320°	320°	1991	1991	K0	16h38m04.0s	+39°34'38"	**10**
10	121776	Her	**37 Her**	Σ 31	Aa-B	5.76	6.92	69.1"	69"	229°	228°	2004	1777		16h40m38.7s	+04°13'11"	**10**
10	65485	Her	**ζ Her**	Σ 2084		2.95	5.4	1"	1"	209°	69°	2006	1782	G1IV	16h41m16.9s	+31°36'12"	**10**
10	84572	Her	**Σ 2094**		AB	7.48	7.87	1.2"	1.6"	73°	83°	2005	1831	F5III	16h44m10.6s	+23°31'03"	**10**
10	84572	Her			AC	6.8	11	25.4"	25.3"	310°	311°	1999	1830		16h44m10.6s	+23°31'03"	**10**
10	121831	Her	**OΣ 585**		AB	6.66	10.4	162.9"	163.5"	191°	191°	2002	1854	K0V K3V	16h44m59.9s	+06°05'15"	**10**
10	121831	Her			AC	6.66	10.77	131.6"	175.8"	252°	244°	2002	1854		16h44m59.9s	+06°05'15"	**10**
10	121843	Her	**43 Her**	SHJ 239	AB	5.33	9.29	83.9"	74.6"	229°	231°	2002	1783	K5III	16h45m49.9s	+08°34'58"	**10**
10	46305	Her	**52 Her**	β 627	A-BC	4.84	8.45	2.2"	1.8"	33°	309°	1997	1878	A1V	16h49m14.2s	+45°59'00"	**10**
10	102410	Her	**Σ 2103**		AB	5.7	10	5.3"	5.7"	45°	37°	2000	1830	A1V	16h49m34.6s	+13°15'40"	**10**
10	84655	Her	**Σ 2107**		AB	6.9	8.5	1.5"	1.1"	100°	149°	2006	1828	F5IV	16h51m50.1s	+28°39'59"	**10**
10	84692	Her	**56 Her**	Σ 2110		6.1	10.8	18"	15"	91°	96°	2000	1838	G8III	16h55m02.2s	+25°43'50"	**10**
10	102488	Her	**OΣ 318**			7	9.61	2.9"	2.6"	241°	254°	2003	1843	G9III	16h56m39.7s	+14°08'25"	**10**
10	102536	Her	**H 4 122**			6.28	10.27	18.7"	19"	237°	239°	2003	1783	B9pCrEu	17h01m33.1s	+14°56'59"	**10**
10	102564	Her	**Σ 33**		AB	5.91	6.17	305.1"	292.4"	118°	115°	2002	1835	A1V K1III	17h03m39.3s	+13°36'19"	**10**
10	102564	Her			Ab	5.91	10.43	178"	180.1"	138°	140°	1999	1896		17h03m39.3s	+13°36'19"	**10**
10	102564	Her			Bb	6.08	10	154.1"	151.5"	272°	267°	2003	1887		17h03m39.3s	+13°36'19"	**10**
10	102571	Her	**β 822**		AB	6.58	9.89	1.4"	1.5"	224°	228°	1995	1881	K4III	17h03m52.6s	+19°41'26"	**10**
10	102571	Her			AC	6.58	10.99	114.7"	113.8"	197°	198°	1997	1895		17h03m52.6s	+19°41'26"	**10**
10	102579	Her	**PRY 2**		AB	6.19	9.29	1.8"	1.8"	229°	233°	1999	1881	A0IV	17h04m41.4s	+19°35'57"	**10**
10	65810	Her	**OΣ 324**			6.4	11.1	3.8"		220°					17h08m00.7s	+31°12'22"	**10**
10	46561	Her	**Σ 2142**		AB	6.18	9.35	4.7"	5.3"	113°	116°	2000	1830	A5III	17h11m40.3s	+49°44'47"	**10**
10	102680	Her	**α Her**	Σ 2140	Aa-B	3.48	5.4	4.7"	9"	105°	117°	1960	1879	M5Ib-II	17h14m38.9s	+14°23'25"	**10**
10	102680	Her		Σ 2140	Aa-D	3.48	11.1	81.2"	85.4"	39°		2006	1777		17h14m38.9s	+14°23'25"	**10**
10	84951	Her	**δ Her**	Σ 3127	Aa-B	3.14	8.3	11.8"	33.8"	283°	163°	2005	1779		17h15m22s	+24 49'43"	**10**
10	84951	Her		Σ 3127	Aa-C	3.12	10.45	171.8"	358.9"	353°	352°	1999	1921		17h15m22s	+24 49'43"	**10**
10	84951	Her		Σ 3127	Aa-D	3.12	10.59	191.9"	190.7"	91°	96°	1999	1897		17h15m22s	+24 49'43"	**10**
10	65921	Her	**69 Her**	HDS 2446		4.62	8.53	0.9"	0.8"	142°	141°	2000	1991	A2V	17h17m40.2s	+37°17'30"	**10**
10	85028	Her	**KUI 80**		Aa-B	6.58	9.57	0.7"	0.7"	167°	158°	1998	1934		17h21m31.2s	+28°45'29"	**10**
10	66001	Her	**ρ Her**	Σ 2161	Aa-B	4.5	5.4	4.1"	3"	319°	300°	2006	1781		17h23m40.9s	+37°08'45"	**10**
10	66014	Her	**OΣ 329**		AB	6.35	9.88	33.2"	33.2"	12°	13°	2003	1843	G5III+F0V	17h24m27.1s	+36°57'07"	**10**
10	102806	Her	**Σ 2160**			6.4	9.28	3.7"	4.1"	65°	62°	2003	1830	B9V	17h24m33.8s	+15°36'22"	**10**
10	85232	Her	**Σ 2190**		AB	6.13	9.48	10.3"	10.2"	21°	33°	2006	1829	A7IV	17h35m59.6s	+20°59'46"	**10**
10	66243	Her	**OΣ 157**		AB	6.43	7.92	116.5"	112.9"	105°	111°	2003	1874	K0III	17h40m41.2s	+31°17'14"	**10**
10	85310	Her	**Σ 2194**		AB	6.51	9.28	16.6"	14.3"	5°	354°	2006	1783		17h41m05.5s	+24°30'48"	**10**
10	85310	Her			AC	6.51	9.29	168.9"	162.9"	163°	161°	2002	1880		17h41m05.5s	+24°30'48"	**10**
10	46884	Her	**Σ 2203**			7	7.9	0.74"		298°					17h41m13.8s	+41°39'18"	**10**
10	85344	Her	**83 Her**	ENG 62		5.72	9.68	145.2"	159.8"	261°	259°	2002	1886	K4III	17h42m28.3s	+24°33'50"	**10**
10	103069	Her	**HJ 1303**			6.21	12.04	39.7"	37.9"	151°	150°	1959	1904	A3m	17h44m17.2s	+14°24'36"	**10**
10	66317	Her	**Σ2224**	S2224	AB	6.69	9.99	7.6"	7.5"	349°	352°	1998	1831		17h45m58.5s	+39°19'21"	**10**
10	103106	Her	**Σ 2215**			6.02	6.89	0.5"	0.8"	255°	311°	2005	1831	A1V	17h47m08.1s	+17°41'49"	**10**
10	66336	Her	**OΣ 336**		AD	6.58	10.64	41.5"	44.7"	163°	164°	1998	1843		17h47m52.1s	+34°16'40"	**10**
10	85459	Her	**Σ 2232**			6.71	8.85	6.3"	6.5"	138°	143°	2006	1830	A1V	17h50m15.0s	+25°17'28"	**10**
10	103161	Her	**OΣ 338**		AB	7.21	7.38	0.8"	0.6"	169°	223°	2005	1843	G8III	17h51m58.5s	+15°19'35"	**10**
10	103161	Her			AD	6.5	9.9	96.3"	95.2"	247°	251°	2000	1906		17h51m58.5s	+15°19'35"	**10**
10	47037	Her	**90 Her**	β 130		5.28	8.76	1.5"	1.8"	116°	123°	1999	1875	K3III	17h53m18.0s	+40°00'29"	**10**
10	47084	Her	**HU 235**			6.88	9.04	1.6"	1.5"	284°	265°	2003	1900	F7IV	17h57m05.1s	+45°51'22"	**10**
10	66530	Her	**COU 1002**			7.19	9.76	0.7"	0.6"	168°	167°	1991	1973	K0	17h58m40.5s	+35°37'55"	**10**
10	85648	Her	**95 Her**	Σ 2264		4.85	5.2	6.5"	9"	257°	264°	2006	1777	A5IIIn	18h01m30.4s	+21°35'45"	**10**
10	47173	Her	**Σ 2277**		AB	6.25	8.93	27.1"	27.6"	128°	118°	2006	1830	A1V	18h03m08.9s	+48°27'51"	**10**
10	47173	Her			AC	6.25	10.19	97.8"	88.4"	297°	284°	2003	1895		18h03m08.9s	+48°27'51"	**10**
10	66648	Her	**99 Her**	AC 15	AB	5.13	8.96	0.4"	1.7"	250°	347°	1999	1859	F7V	18h07m01.5s	+30°33'45"	**10**
10	66648	Her		AC 15	AC	5.1	10.7	96.2"	93.6"	59°	52°	1998	1900		18h07m01.5s	+30°33'45"	**10**
10	66648	Her		AC 15	AE	5.1	10.8	168.8"	163.2"	78°	75°	1998	1900		18h07m01.5s	+30°33'45"	**10**
10	66648	Her		AC 15	AF	5.1	10.7	162.5"	159.7"	165°	165°	1998	1982		18h07m01.5s	+30°33'45"	**10**
10	47233	Her	**OΣ 344**			6.47	10.31	2.3"	1.8"	141°	151°	1991	1843	A2V	18h07m06.3s	+49°42'38"	**10**
10	85753	Her	**100 Her**	Σ 2280	Aa-B	5.81	5.84	14.5"	17"	183°	0°	2006	1777	A3V	18h07m49.6s	+26°06'05"	**10**
10	85753	Her		Σ 2280	Aa-C	5.1	11	79.9"	76"	127°	125°	2000	1897		18h07m49.6s	+26°06'05"	**10**
10	103443	Her	**Σ 2289**			6.65	7.21	1.2"	1.2"	220°	243°	2006	1829	A0V+G0III	18h10m08.7s	+16°28'36"	**10**
10	66733	Her	**HO 82**		AB-C	6.08	8.99	0.7"	0.6"	218°	207°	1999	1885		18h11m45.1s	+33°26'49"	**10**
10	85906	Her	**BUP 181**		AC	6.68	10.04	154.1"	156.3"	126°	126°	2002	1878		18h18m07.7s	+23°17'49"	**10**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
10	85950	Her	**Σ 2310**			6.83	9.98	5.1"	5"	238°	237°	2005	1830	B8III	18h20m38.7s	+22°47'51"	**10**
10	85969	Her	**β 641**			7.03	8.66	0.9"	1"	340°	351°	1999	1878	B9.5II	18h21m48.4s	+21°30'28"	**10**
10	86007	Her	**HO 652**			6.75	11.6	39"		350°		1903			18h24m05.6s	+20°27'09"	**10**
10	86019	Her	**Σ 2315**		AB	6.57	7.77	0.6"	0.6"	121°	282°	2006	1828	A0V+A4V	18h24m58.5s	+27°23'41"	**10**
10	86060	Her	**β 1326**		AC	6.48	9.62	61.5"	61.9"	61°	61°	2002	1897		18h26m40.9s	+26°26'57"	**10**
10	86083	Her	**Σ 2320**			7.14	8.9	1.2"	1.8"	1°	11°	2004	1831	B9V	18h27m45.9s	+24°41'51"	**10**
10	67097	Lyr	**OΣ 171**		AB	7.02	8.12	150.1"	139.3"	328°	316°	2002	1829	F8 G5	18h32m51.5s	+38°49'59"	**10**
10	67097	Lyr			Aa	6.9	11	81.8"	85.9"	134°	139°	1998	1911		18h32m51.5s	+38°49'59"	**10**
10	121658	Oph	**λ Oph**	Σ 2055	AB	4.15	5.15	1.4"	0.5"	34°	76°	2006	1783	A0V+A0V	16h30m54.8s	+01°59'02"	**10**
10	121658	Oph		Σ 2055	AB-C	3.82	11	119"	119.7"	170°	170°	2000	1909		16h30m54.8s	+01°59'02"	**10**
10	141310	Oph	**HDS 2367**			6.38	9.62	0.8"	0.8"	87°	87°	1991	1991	A7III	16h41m11.6s	-01°00'01"	**10**
10	121857	Oph	**ENG 58**		AB	6.75	8.83	149.1"	150.5"	218°	220°	2002	1887	F0	16h46m53.0s	+02°14'33"	**10**
10	121859	Oph	**19 Oph**	Σ 2096	AB	6.09	9.68	23.8"	20.5"	88°	93°	2006	1783	A3V	16h47m09.7s	+02°03'52"	**10**
10	121908	Oph	**Σ 2106**			7.07	8.2	0.7"	1.1"	175°	339°	2006	1825	F7IV	16h51m07.4s	+09°24'15"	**10**
10	141483	Oph	**30 Oph**	ENG 59	AB	4.99	9.71	102.4"	91.8"	68°	70°	2005	1887	K4III	17h01m03.6s	-04°13'22"	**10**
10	122023	Oph	**Σ 2114**			6.72	7.61	1.3"	1.5"	192°	138°	2003	1825	A4V	17h01m59.0s	+08°27'02"	**10**
10	141522	Oph	**Σ 2122**			6.38	9.73	21.4"	20.1"	279°	281°	2006	1831	A9V	17h06m53.0s	-01°39'22"	**10**
10	141586	Oph	**41 Oph**	A 2984		4.92	7.51	1"	0.5"	8°	298°	2004	1915	K1IV	17h16m36.7s	-00°26'44"	**10**
10	122316	Oph	**β 959**			6.67	11.6	3.4"		257°		1879			17h22m04.1s	+05°00'02"	**10**
10	141701	Oph	**RST 5085**			6.72	11.5	10.8"		333°		1943			17h30m20.0s	-04°22'10"	**10**
10	141702	Oph	**Σ 2173**			6.06	6.17	0.3"	0.6"	174°	147°	2005	1829	G5V	17h30m23.7s	-01°03'48"	**10**
10	122526	Oph	**53 Oph**	Σ 34	AB	5.8	7.5	41.5"	32.4"	190°	193°	2004	1782	A2V	17h34m36.7s	+09°35'12"	**10**
10	122607	Oph	**SHJ 251**		AB	6.37	7.78	111.7"	111.2"	328°	328°	2002	1823		17h39m08.5s	+02°01'41"	**10**
10	122607	Oph			AC	6.37	10.73	134.1"	132.4"	15°	18°	2002	1823		17h39m08.5s	+02°01'41"	**10**
10	122615	Oph	**β 961**			6.63	11.4	8"		141°		1880			17h39m31.2s	+03°23'33"	**10**
10	122690	Oph	**61 Oph**	Σ 2202	AB	6.13	6.47	21.3"	19"	93°	102°	2006	1777	A1IV-V	17h44m34.1s	+02°34'46"	**10**
10	122847	Oph	**S 694**			6.67	7.26	79"	81.8"	237°	237°	2003	1825	dK0 A0	17h52m05.2s	+01°06'40"	**10**
10	122950	Oph	**Σ2244**			6.6	6.8	0.4"	1"	94°	273°	1993	1830	A3V	17h57m04.3s	+00°03'59"	**10**
10	123013	Oph	**67 Oph**	H 6 2	AC	3.96	8.06	54.3"	55.2"	142°	143°	2003	1823		18h00m38.7s	+02°55'54"	**10**
10	123013	Oph		β 634	AE	3.96	10.9	45.7"	45.9"	179°	180°	2002	1878		18h00m38.7s	+02°55'54"	**10**
10	123035	Oph	**68 Oph**	β 1125	AB	4.52	7.48	0.6"	1.1"	118°	12°	1997	1889	A2Vn	18h01m45.2s	+01°18'18"	**10**
10	123107	Oph	**70 Oph**	Σ 2272	AB	4.22	6.17	5.3"	7"	136°	82°	2006	1777	K0V K4V	18h05m27.3s	+02°29'53"	**10**
10	123107	Oph		Σ 2272	AV	4.22	10.83	138.6"	165.9"	246°	224°	1946	1886		18h05m27.3s	+02°29'53"	**10**
10	103373	Oph	**Σ 2276**		AB	7.09	7.44	6.9"	7.6"	257°	260°	2005	1783	A7p	18h05m43.3s	+12°00'14"	**10**
10	103373	Oph			AC	7.09	11.03	62.9"	63.1"	305°	306°	2004	1905	A0	18h05m43.3s	+12°00'14"	**10**
10	103406	Oph	**H 5 74**			6.6	10.39	41.7"	40.9"	139°	129°	2003	1783	A2Vn	18h07m48.4s	+13°04'16"	**10**
10	123156	Oph	**β 636**		AD	6.61	11.5	41.5"		348°		1923			18h08m07.3s	+02°13'07"	**10**
10	123187	Oph	**73 Oph**	Σ 2281	AB	5.97	7.52	0.6"	0.9"	293°	267°	2004	1783	F2V	18h09m33.9s	+03°59'36"	**10**
10	123198	Oph	**β 637**		AC	5.7	10	97.8"	104.6"	246°	237°	1999	1910		18h09m54.0s	+03°07'10"	**10**
10	101673	Ser	**OΣ 300**			6.32	10.07	15"	14.3"	260°	262°	2003	1843	G7.5IIIa	15h40m10.3s	+12°03'11"	**10**
10	101699	Ser	**β 619**			6.95	7.94	0.5"	0.4"	4°	357°	2005	1878	G4IV	15h43m10.5s	+13°40'03"	**10**
10	121152	Ser	**ψ Ser**	A 2230	AC	5.95	9.23	195.5"	208"	208°	208°	2002	1908		15h44m01.8s	+02°30'54"	**10**
10	121152	Ser		A 2230	AD	5.95	10.95	172.8"	172.1"	285°	280°	2002	1887		15h44m01.8s	+02°30'54"	**10**
10	101922	Ser	**Σ 2007**		AB	6.89	7.98	37.8"	31.9"	322°	329°	2003	1823	G8III	16h06m02.8s	+13°19'15"	**10**
10	101922	Ser			AC	6.89	10.81	163.3"	168.5"	137°	138°	1998	1897		16h06m02.8s	+13°19'15"	**10**

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11	82942	Boo	**1 Boo**	Σ 1772	AD	5.76	7.38	208.6"	207.2"	1°	2°	2000	1865		13h40m40.4s	+19°57'21"	**11**
11	82942	Boo		Σ 1772	AB	5.76	9.6	4.5"	4.7"	133°	150°	2000	1828	A1V	13h40m40.4s	+19°57'21"	**11**
11	83022	Boo	**S 656**			6.93	7.37	85.9"	88.5"	208°	211°	2003	1800	G0	13h50m23.5s	+21°16'36"	**11**
11	83152	Boo	**BGH 50**			7	8.9	96.9"	96.5"	32°	32°	1998	1896	F5+K0	14h04m45.9s	+25°49'03"	**11**
11	44905	Boo	**13 Boo**	H 16 12		5.45	11.05	75.5"	83.5"	271°	275°	2005	1879	M1.5III	14h08m17.3s	+49°27'30"	**11**
11	29046	Boo	**κ Boo**	Σ 1821		4.53	6.62	13.5"	12.5"	237°	240°	2004	1779	A7V F1V	14h13m29.0s	+51°47'24"	**11**
11	100922	Boo	**OΣ 279**			6.84	9.13	2.3"	1.9"	256°	250°	2006	1843	K2III	14h13m49.5s	+11°59'52"	**11**
11	83235	Boo	**Σ 1816**			7.43	7.75	0.5"	1.6"	93°	72°	2005	1828	F0+A2	14h13m54.6s	+29°06'20"	**11**
11	100934	Boo	**15 Boo**	KUI 66		5.44	8.43	1"	0.8"	110°	121°	2004	1936	K1III	14h14m50.8s	+10°06'01"	**11**
11	29071	Boo	**ι Boo**	Σ 26	AB	4.76	7.39	39.7"	37.6"	34°	37°	2004	1779	A7IV K0V	14h16m09.9s	+51°22'03"	**11**
11	83259	Boo	**Σ 1825**			6.47	8.42	4.4"	4"	156°	187°	2003	1830	F6V	14h16m32.8s	+20°07'18"	**11**
11	100975	Boo	**18 Boo**	ENG 51		5.44	10.84	162.9"	154.4"	219°	217°	1999	1887	F5IV	14h19m16.3s	+13°00'15"	**11**
11	120426	Boo	**Σ 1835**		A-BC	5.03	6.78	6.2"	5.2"	194°	187°	2006	1781	A0V F2V	14h23m22.7s	+08°26'48"	**11**
11	101009	Boo	**Σ 1838**			7.47	7.73	9.1"	8.4"	333°	338°	2000	1822	F8V G1V	14h24m05.8s	+11°14'49"	**11**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
11	64178	Boo	**Σ 1854**		AB	6.05	10.62	25.8"	26.3"	255°	257°	2000	1879	A0Vs	14h29m49.7s	+31°47'28"	11
11	45113	Boo	**COU 1586**			6.82	10.27	1.7"	1.4"	142°	145°	1998	1977	A2	14h33m44.6s	+43°00'28"	11
11	64221	Boo	**KUI 68**			6.33	11.6	26"	24.7"	322°	328°	1986	1958	F5V	14h34m11.8s	+32°32'04"	11
11	29224	Boo	**Σ 1863**			6.95	7.9	0.65"		66°					14h38m00.7s	+51°34'42"	11
11	101138	Boo	**π Boo**	Σ 1864	AB	4.88	5.79	5.5"	7"	111°	105°	2006	1777	B9pMnHg	14h40m43.6s	+16°25'06"	11
11	101138	Boo		Σ 1864	AC	4.88	10.63	126.3"	126.8"	164°	160°	1998	1881		14h40m43.6s	+16°25'06"	11
11	101145	Boo	**ζ Boo**	Σ 1865	AB	4.46	4.55	0.7"	1"	298°	312°	2006	1796	A0V+A0V	14h41m09.0s	+13°43'42"	11
11	101145	Boo		H 4 104	AB-C	4.52	10.98	103.4"	98.6"	260°	258°	2000	1901		14h41m09.0s	+13°43'42"	11
11	83500	Boo	**ε Boo**	Σ 1877	AB	2.58	4.81	2.9"	4"	343°	300°	2005	1780	K0II-III	14h44m59.2s	+27°04'27"	11
11	83535	Boo	**Σ 1884**			6.58	7.48	2.1"	1.2"	55°	52°	2004	1829	F8IV-V	14h48m23.3s	+24°22'01"	11
11	29296	Boo	**Σ 1889**		AB	6.53	9.64	15"	16.1"	92°	88°	2003	1900	F3V	14h49m32.4s	+51°22'28"	11
11	45231	Boo	**39 Boo**	Σ 1890		6.31	6.67	2.7"	4"	46°	52°	2004	1783	F6V+F5V	14h49m41.3s	+48°43'16"	11
11	83551	Boo	**HJ 5489**			5.8	10.6	111.2"	112.6"	22°	23°	1959	1878	A4V	14h49m58.4s	+28°36'57"	11
11	101250	Boo	**ξ Boo**	Σ 1888	AB	4.76	6.95	6.4"	3.4"	311°	24°	2006	1780	G8V K5V	14h51m23.5s	+19°06'01"	11
11	101250	Boo		Σ 1888	AD	4.76	9.6	156.7"	75.3"	286°	283°	2000	1900		14h51m23.5s	+19°06'01"	11
11	83560	Boo	**HO 389**			6.96	10.49	1.6"	1.1"	87°	101°	1997	1892	A0	14h52m07.4s	+20°17'26"	11
11	101273	Boo	**OΣ 288**			6.89	7.55	1.1"	0.3"	164°	224°	2006	1843	F9V	14h53m23.3s	+15°42'19"	11
11	64408	Boo	**OΣ 289**			6.2	10.2	4.8"	4.6"	112°	119°	2000	1846	A2V	14h55m58.6s	+32°18'00"	11
11	29372	Boo	**SHJ 191**			6.86	7.57	40.3"	40.4"	342°	342°	2002	1823	F1V F1V	14h59m34.6s	+53°51'37"	11
11	45326	Boo	**OΣ 291**	BX Boo		6.33	9.62	35.6"	35"	156°	160°	2004	1830	B9pSiSrCr	15h00m38.7s	+47°16'39"	11
11	45357	Boo	**44 Boo**	Σ 1909		5.2	6.1	1.9"	1.5"	58°	240°	2006	1781	F7V+K4V	15h03m47.1s	+47°39'15"	11
11	83685	Boo	**HJ 2766**			5.81	10	57.4"	40"	331°	331°	1999	1830	K1III	15h08m35.6s	+25°06'31"	11
11	64574	Boo	**OΣ 292**			6.16	9.36	119"	125.9"	158°	156°	2002	1894	K5	15h14m06.1s	+31°47'16"	11
11	64589	Boo	**δ Boo**	Σ 27		3.56	7.89	102.4"	135"	79°	84°	2004	1780	G8IIICN-1	15h15m30s	+33°19'00"	11
11	29464	Boo	**OΣ 137**			6.56	8.94	68.1"	75.8"	102°	107°	2004	1876	G5	15h15m50.7s	+50°56'18"	11
11	45500	Boo	**HDS 2157**			6.88	9.21	0.4"	0.7"	279°	273°	1991	1991	K0	15h20m52.9s	+45°39'53"	11
11	64686	Boo	**μ Boo**	Σ 28	Aa-BC	4.33	7.09	107.1"	128"	170°	170°	2002	1781	F2IVa G0V	15h24m29.4s	+37°22'38"	11
11	64686	Boo		Σ 1938	BC	7.09	7.63	2.3"	1.5"	7°	357°	2006	1782	G0V	15h24m29.4s	+37°22'38"	11
11	64800	Boo	**OΣ 298**		AB-C	6.9	7.75	121.5"	122.3"	328°	328°	2002	1867	K3V	15h36m02.0s	+39°48'09"	11
11	64800	Boo			AB	7.16	8.44	0.9"	1.1"	174°	179°	2006	1843	K2V	15h36m02.0s	+39°48'09"	11
11	83768	CrB	**o CrB**	ENG 53		5.62	10.46	145.2"	147.7"	344°	337°	2002	1887	K0III	15h20m08.5s	+29°36'58"	11
11	64673	CrB	**η CrB**	Σ 1937	AB	5.64	5.95	0.5"	1"	125°	31°	2006	1781	F8V+G0V	15h23m12.4s	+30°17'15"	11
11	64769	CrB	**θ CrB**	COU 610		4.27	6.29	0.8"	0.5"	199°	203°	2003	1971	B6Vnne	15h32m55.8s	+31°21'33"	11
11	64834	CrB	**ζ CrB**	Σ 1965		4.96	5.91	6.3"	5.5"	306°	296°	2006	1779	B7V B9V	15h39m22.7s	+36°38'09"	11
11	83958	CrB	**γ CrB**	Σ 1967		4.04	5.6	0.7"	0.7"	114°	111°	2004	1826	B9V+A3V	15h42m44.5s	+26°17'45"	11
11	64974	CrB	**λ CrB**	H 6 94		5.45	10	94.3"	98.3"	66°	64°	1959	1879	F0IV	15h55m47.6s	+37°56'50"	11
11	65025	CrB	**OΣ 304**		AB	6.77	10.64	10.4"	8.5"	173°	176°	2003	1843	A0	16h00m55.0s	+39°10'39"	11
11	65024	CrB	**ρ CrB**	S 676		5.41	8.7	89.6"	74.2"	71°	109°	1923	1825	G2V	16h01m02.6s	+33°18'07"	11
11	65129	CrB	**OΣ 305**		AB	6.44	10.17	5.6"	4.7"	263°	261°	1991	1843	K2III	16h11m39.6s	+33°20'34"	11
11	84247	CrB	**Σ 2022**			6.54	10.03	2.3"	2.8"	151°	130°	1998	1830	F2V	16h12m45.5s	+26°40'14"	11
11	65165	CrB	**σ CrB**	Σ 2032	AB	5.62	6.49	7.2"	1.8"	237°	348°	2006	1781	G0V G1V	16h14m40.7s	+33°51'30"	11
11	65165	CrB		Σ 2032	AD	5.62	10.78	88.4"	42.2"	82°	91°	1996	1825		16h14m40.7s	+33°51'30"	11
11	65165	CrB		Σ 2032	BD	6.7	10.8	94.4"	43.3"	80°	89°	1996	1828		16h14m40.7s	+33°51'30"	11
11	65262	CrB	**H 5 38**			6.41	9.79	31.6"	36.4"	17°	21°	2005	1783	A4Vn	16h22m56.5s	+32°19'59"	11
11	63599	CVn	**OΣ 269**		AB-C	6.81	9.18	122.5"	116.3"	332°	333°	2002	1879		13h32m51.0s	+34°54'26"	11
11	63616	CVn	**HJ 1234**			6.4	10.51	29.1"	33.4"	8°	23°	1998	1896	F0IV	13h34m21.9s	+38°47'22"	11
11	63648	CVn	**25 CVn**	Σ 1768	AB	4.98	6.95	1.8"	1.1"	98°	82°	2006	1827	A7IV	13h37m27.6s	+36°17'42"	11
11	82944	CVn	**BUP 151**			6.23	9.8	89.5"	68"	224°	215°	2000	1831	K3III	13h40m39.0s	+28°03'55"	11
11	63739	CVn	**S 654**			5.62	8.91	70.1"	71.3"	236°	238°	2004	1825	K0III+F8V	13h46m59.7s	+38°32'34"	11
11	44787	CVn	**HJ 1244**			6.87	10.81	6.9"	7.1"	131°	134°	2000	1876	A2IV	13h53m20.8s	+42°11'05"	11
11	29514	Dra	**HU 149**			7.48	7.62	0.6"	0.2"	272°	296°	2005	1900	K0	15h24m35.3s	+54°12'46"	11
11	29668	Dra	**β 946**			5.91	9.53	2.2"	1.3"	132°	152°	1991	1879	A3m	15h47m37.9s	+55°22'36"	11
11	29691	Dra	**Σ 1984**		AB	6.89	8.94	6.3"	6.5"	279°	273°	2006	1828	A1V	15h51m10.1s	+52°54'25"	11
11	30013	Dra	**17 Dra**	Σ 30	AC	5.38	5.5	89.8"	90.5"	196°	195°	2003	1832		16h36m13.7s	+52°55'28"	11
11	30013	Dra		Σ 30	BC	6.53	5.52	89.8"	89.9"	18°	17°	2003	1832		16h36m13.7s	+52°55'28"	11
11	30013	Dra		Σ 2078	AB	5.38	6.42	3.1"	4"	105°	114°	2006	1781	B9.5V	16h36m13.7s	+52°55'28"	11
11	30262	Dra	**ES 77**		Aa-B	6.45	10.96	18.2"	17"	278°	274°	1998	1901		17h08m17.1s	+50°50'32"	11
11	101951	Her	**κ Her**	Σ 2010	AB	5.1	6.21	27.7"	40"	13°	10°	2006	1779	G7III	16h08m04.5s	+17°02'49"	11
11	45957	Her	**Σ 2024**			5.86	10.73	23.7"	23.5"	44°	45°	1999	1894	K4III	16h11m47.6s	+42°22'29"	11
11	102018	Her	**Σ 2021**		Aa-B	7.43	7.48	4.4"	2.5"	356°	292°	2005	1783		16h13m18.5s	+13°31'34"	11

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
11	84393	Her	**Σ 2049**			7.33	8.1	1.1"	1.1"	195°	215°	2005	1829	A2.5V	16h27m54.6s	+25°59'04"	**11**
11	46147	Her	**Σ 2063**			5.69	8.7	16.3"	16.3"	196°	194°	2003	1830	A2V	16h31m47.2s	+45°35'54"	**11**
11	65444	Her	**HDS 2355**			6.96	10.11	0.5"	0.5"	320°	320°	1991	1991	K0	16h38m04.0s	+39°34'38"	**11**
11	46305	Her	**52 Her**	β 627	A-BC	4.84	8.45	2.2"	1.8"	33°	309°	1997	1878	A1V	16h49m14.2s	+45°59'00"	**11**
11	140278	Lib	**Σ 1899**			6.69	10.15	28.6"	28.5"	67°	67°	2002	1825	K2IV K0V	15h01m35.4s	-03°09'52"	**11**
11	101437	Ser	**Σ 1919**			6.71	7.38	23.7"	25"	11°	12°	2005	1796	G1V G5V	15h12m43.2s	+19°17'12"	**11**
11	120938	Ser	**β 943**			6.66	10.88	3"	2.3"	92°	93°	1991	1879	K1III	15h18m22.7s	+00°56'22"	**11**
11	120946	Ser	**5 Ser**	Σ 1930	AC	5.2	9.2	127.2"	124.6"	40°	51°	1924	1887		15h19m19.0s	+01°45'52"	**11**
11	120946	Ser		Σ 1930	AB	5.06	10.11	11.4"	10.7"	35°	39°	2000	1825	F8V	15h19m19.0s	+01°45'52"	**11**
11	120955	Ser	**6 Ser**	β 32		5.53	8.78	3"	3"	25°	30°	2000	1872	K2III	15h21m02.0s	+00°42'54"	**11**
11	101624	Ser	**δ Ser**	Σ 1954	AB	4.17	5.16	4.1"	2.5"	173°	227°	2006	1782	F0IV	15h34m48.1s	+10°32'20"	**11**
11	101673	Ser	**OΣ 300**			6.32	10.07	15"	14.3"	260°	262°	2003	1843	G7.5IIIa	15h40m10.3s	+12°03'11"	**11**
11	101699	Ser	**β 619**			6.95	7.94	0.5"	0.4"	4°	357°	2005	1878	G4IV	15h43m10.5s	+13°40'03"	**11**
11	121152	Ser	**ψ Ser**	A 2230	AC	5.95	9.23	195.5"	208"	208°	208°	2002	1908		15h44m01.8s	+02°30'54"	**11**
11	121152	Ser		A 2230	AD	5.95	10.95	172.8"	172.1"	285°	280°	2002	1887		15h44m01.8s	+02°30'54"	**11**
11	101922	Ser	**Σ 2007**		AB	6.89	7.98	37.8"	31.9"	322°	329°	2003	1823	G8III	16h06m02.8s	+13°19'15"	**11**
11	101922	Ser			AC	6.89	10.81	163.3"	168.5"	137°	138°	1998	1897		16h06m02.8s	+13°19'15"	**11**
11	28819	UMa	**Σ 1770**			6.93	8.18	1.7"	1.6"	122°	117°	2004	1830		13h37m42.9s	+50°42'53"	**11**
11	28836	UMa	**Σ 1774**			6.34	10.51	17.5"	17.9"	135°	134°	2000	1879	F8V	13h40m23.2s	+50°31'10"	**11**
11	28955	UMa	**Σ 1795**			6.91	9.83	7.9"	7.6"	3°	3°	2003	1832	A3IV-V	13h58m55.4s	+53°06'23"	**11**
11	29070	UMa	**Σ 1831**		AC	7.16	6.73	109.7"	105"	220°	227°	2003	1872	F8V	14h15m59.9s	+56°41'20"	**11**
11	29070	UMa			AB	7.16	9.56	5.8"	6"	137°	143°	2000	1830	A7IV	14h15m59.9s	+56°41'20"	**11**
11	120082	Vir	**84 Vir**	Σ 1777		5.55	8.31	2.8"	4"	228°	241°	2006	1782	K1III	13h43m03.6s	+03°32'16"	**11**
11	120238	Vir	**τ Vir**	SHJ 171	AB	4.26	9.48	81"	79.3"	290°	290°	2002	1823	A3V	14h01m38.8s	+01°32'40"	**11**
11	139951	Vir	**π Vir**	Σ 1846	AB	4.92	10.02	5.3"	3.7"	112°	109°	1998	1829	G2III	14h28m12.1s	-02°13'41"	**11**
11	120504	Vir	**β 1443**			6.17	10.62	55.4"	55.4"	195°	196°	2000	1903	gK4	14h30m45.4s	+04°46'20"	**11**
11	120569	Vir	**A 2227**		Aa-B	6.6	10.6	1.6"	2.1"	135°	138°	1964	1910		14h37m28.5s	+02°16'38"	**11**
11	120657	Vir	**Σ 1881**			6.74	8.81	3.5"	3.6"	359°	358°	2006	1830	B9.5V	14h47m05.3s	+00°58'15"	**11**
11	120739	Vir	**HJ 1259**			6.9	10.8	32.8"	30"	80°	88°	2003	1830	K5	14h55m22.9s	+06°47'05"	**11**
11	120758	Vir	**H 5 51**			5.53	8.7	85.9"		224°		1899		K1III	14h57m33.3s	-00°10'04"	**11**

CHART 12

12	82942	Boo	**1 Boo**	Σ 1772	AD	5.76	7.38	208.6"	207.2"	1°	2°	2000	1865		13h40m40.4s	+19°57'21"	**12**
12	82942	Boo		Σ 1772	AB	5.76	9.6	4.5"	4.7"	133°	150°	2000	1828	A1V	13h40m40.4s	+19°57'21"	**12**
12	83022	Boo	**S 656**			6.93	7.37	85.9"	88.5"	208°	211°	2003	1800	G0	13h50m23.5s	+21°16'36"	**12**
12	83152	Boo	**BGH 50**			7	8.9	96.9"	96.5"	32°	32°	1998	1896	F5+K0	14h04m45.9s	+25°49'03"	**12**
12	44905	Boo	**13 Boo**	H 16 12		5.45	11.05	75.5"	83.5"	271°	275°	2005	1879	M1.5III	14h08m17.3s	+49°27'30"	**12**
12	29046	Boo	**κ Boo**	Σ 1821		4.53	6.62	13.5"	12.5"	237°	240°	2004	1779	A7V F1V	14h13m29.0s	+51°47'24"	**12**
12	100922	Boo	**OΣ 279**			6.84	9.13	2.3"	1.9"	256°	250°	2006	1843	K2III	14h13m49.5s	+11°59'52"	**12**
12	83235	Boo	**Σ 1816**			7.43	7.75	0.5"	1.6"	93°	72°	2005	1828	F0+A2	14h13m54.6s	+29°06'20"	**12**
12	100934	Boo	**15 Boo**	KUI 66		5.44	8.43	1"	0.8"	110°	121°	2004	1936	K1III	14h14m50.8s	+10°06'01"	**12**
12	29071	Boo	**ι Boo**	Σ 26	AB	4.76	7.39	39.7"	37.6"	34°	37°	2004	1779	A7IV K0V	14h16m09.9s	+51°22'03"	**12**
12	83259	Boo	**Σ 1825**			6.47	8.42	4.4"	4"	156°	187°	2003	1830	F6V	14h16m32.8s	+20°07'18"	**12**
12	100975	Boo	**18 Boo**	ENG 51		5.44	10.84	162.9"	154.4"	219°	217°	1999	1887	F5IV	14h19m16.3s	+13°00'15"	**12**
12	120426	Boo	**Σ 1835**		A-BC	5.03	6.78	6.2"	5.2"	194°	187°	2006	1781	A0V F2V	14h23m22.7s	+08°26'48"	**12**
12	64178	Boo	**Σ 1854**		AB	6.05	10.62	25.8"	26.3"	255°	257°	2000	1879	A0Vs	14h29m49.7s	+31°47'28"	**12**
12	45113	Boo	**COU 1586**			6.82	10.27	1.7"	1.4"	142°	145°	1998	1977	A2	14h33m44.6s	+43°00'28"	**12**
12	64221	Boo	**KUI 68**			6.33	11.6	26"	24.7"	322°	328°	1986	1958	F5V	14h34m11.8s	+32°32'04"	**12**
12	29224	Boo	**Σ 1863**			6.95	7.9	0.65"		66°					14h38m00.7s	+51°34'42"	**12**
12	29296	Boo	**Σ 1889**		AB	6.53	9.64	15"	16.1"	92°	88°	2003	1900	F3V	14h49m32.4s	+51°22'28"	**12**
12	45231	Boo	**39 Boo**	Σ 1890		6.31	6.67	2.7"	4"	46°	52°	2004	1783	F6V+F5V	14h49m41.3s	+48°43'16"	**12**
12	45326	Boo	**OΣ 291**	BX Boo		6.33	9.62	35.6"	35"	156°	160°	2004	1830	B9pSiSrCr	15h00m38.7s	+47°16'39"	**12**
12	82123	Com	**2 Com**	Σ 1596		6.18	7.48	3.7"	4"	236°	242°	2006	1782	F0IV-V	12h04m16.6s	+21°27'33"	**12**
12	62904	Com	**Σ 1615**		AB	6.99	8.61	26.8"	24.3"	88°	90°	2004	1830	K1III F8V	12h14m06.5s	+32°47'03"	**12**
12	82219	Com	**OΣ 245**			5.7	10.2	8.3"	7.4"	281°	278°	1999	1843	A3IV	12h17m30.6s	+28°56'14"	**12**
12	100048	Com	**β 27**			7.11	10.53	3.6"	4"	108°	110°	2000	1872	G9III	12h20m04.8s	+13°51'18"	**12**
12	82254	Com	**Σ 1633**			7.04	7.13	8.9"	8"	245°	242°	2004	1820	F3V+F3V	12h20m41.4s	+27°03'15"	**12**
12	82273	Com	**12 Com**	SHJ 143	AC	4.86	8.9	65.2"	58.9"	168°	163°	2002	1783		12h22m30.3s	+25°50'46"	**12**
12	82293	Com	**Σ 1639**		AB	6.74	7.83	1.7"	1.3"	324°	291°	2006	1827	A7V+F4V	12h24m26.8s	+25°34'57"	**12**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
12	82330	Com	**17 Com**	Σ 21	AB	5.23	6.64	146.2"	145.3"	251°	251°	2002	1836	A0p	12h28m54.7s	+25°54'46"	12
12	100160	Com	**24 Com**	Σ 1657		5.11	6.33	20.2"	20.6"	271°	274°	2006	1781	K2III	12h35m07.8s	+18°22'38"	12
12	82490	Com	**ENG 48**			6.88	10.51	181.7"	156"	15°	12°	2004	1894	F8V	12h46m32.6s	+24°08'41"	12
12	100309	Com	**32 Com**	Σ 23	AB	6.5	6.99	195.6"	194.7"	51°	49°	2000	1836	M0III	12h52m12.3s	+17°04'26"	12
12	82550	Com	**35 Com**	Σ 1687	AB	5.15	7.08	1.2"	1.4"	186°	25°	2004	1829	G7III	12h53m17.7s	+21°14'42"	12
12	82550	Com		Σ 1687	AC	5	9.76	27.9"	31.3"	127°	127°	2004	1783		12h53m17.7s	+21°14'42"	12
12	100366	Com	**β 112**		A-BC	6.25	10.14	141.2"	155"	0°	345°	2002	1873	F5V	13h00m38.6s	+18°22'23"	12
12	82650	Com	**39 Com**	COU 11	Aa-B	6.1	8.75	1.6"	1"	318°	321°	2003	1959		13h06m21.2s	+21°09'12"	12
12	100443	Com	**α Com**	Σ 1728	AB	4.85	5.53	0.5"	0.6"	12°	190°	2006	1827	F5V+F6V	13h09m59.1s	+17°31'47"	12
12	100443	Com		Σ 1728	AB-C	5.2	10.2	88.7"	135.6"	345°	322°	1998	1851		13h09m59.1s	+17°31'47"	12
12	82692	Com	**COU 96**		AB	6.82	10.8	10.6"	10.9"	310°	316°	2003	1893	F2II	13h10m52.4s	+21°14'01"	12
12	82699	Com	**COU 54**			6.82	10.9	10.2"	10.4"	289°	289°	2000	1893	G5III	13h11m32.3s	+21°55'07"	12
12	82751	Com	**BGH 46**		Aa-B	6.46	7.59	203.2"	202.9"	58°	58°	2000	1893	A3+A2	13h16m32.2s	+19°47'07"	12
12	82751	Com		HDS 1862	Aa	6.56	9.69	0.6"	0.6"	294°	298°	1991	1988	F0V	13h16m32.2s	+19°47'07"	12
12	100491	Com	**β 800**		AB	6.66	9.5	7.5"	1.3"	107°	122°	2004	1881	K1V M1V	13h16m51.4s	+17°01'00"	12
12	100491	Com			AC	6.6	10.5	120.6"	87.7"	339°	15°	1999	1896		13h16m51.4s	+17°01'00"	12
12	100491	Com			AD	6.6	10.6	50.8"	50.8"	88°	88°	1990	1990		13h16m51.4s	+17°01'00"	12
12	82875	Com	**A 567**			6.21	9.71	1.5"	1.4"	257°	260°	1991	1903	G8III	13h32m48.2s	+24°20'47"	12
12	44097	CVn	**2 CVn**	Σ 1622		5.86	8.71	11.5"	12.2"	260°	259°	2005	1783	M1III+F7V	12h16m07.6s	+40°39'36"	12
12	62953	CVn	**Σ 1632**			6.83	9.98	9.8"	10.1"	193°	190°	2006	1787	K0III F9V	12h20m13.5s	+37°54'08"	12
12	28407	CVn	**7 CVn**	BUP 143	AC	6.27	8.45	215.3"	231.8"	333°	326°	2002	1908		12h30m02.7s	+51°32'08"	12
12	28407	CVn		BUP 143	AB	6.21	10.4	109.2"	109.2"	172°	173°	1908	1898	F6-8V	12h30m02.7s	+51°32'08"	12
12	63257	CVn	**α CVn**	Σ 1692		2.85	5.52	19.3"	22"	229°	234°	2004	1777	A0pSiEuHg	12h56m01.6s	+38°19'07"	12
12	63380	CVn	**17 CVn**	Σ 24	AB	5.95	6.26	277.5"	289.9"	296°	297°	2004	1835	A9IV	13h10m03.2s	+38°29'57"	12
12	63396	CVn	**OΣ 261**			7.4	7.64	2.6"	0.5"	340°	0°	2004	1843	F6V	13h12m02.1s	+32°05'07"	12
12	63599	CVn	**OΣ 269**		AB-C	6.81	9.18	122.5"	116.3"	332°	333°	2002	1879		13h32m51.0s	+34°54'26"	12
12	63616	CVn	**HJ 1234**			6.4	10.51	29.1"	33.4"	8°	23°	1998	1896	F0IV	13h34m21.9s	+38°47'22"	12
12	63648	CVn	**25 CVn**	Σ 1768	AB	4.98	6.95	1.8"	1.1"	98°	82°	2006	1827	A7IV	13h37m27.6s	+36°17'42"	12
12	82944	CVn	**BUP 151**			6.23	9.8	89.5"	68"	224°	215°	2000	1831	K3III	13h40m39.0s	+28°03'55"	12
12	63739	CVn	**S 654**			5.62	8.91	70.1"	71.3"	236°	238°	2004	1825	K0III+F8V	13h46m59.7s	+38°32'34"	12
12	44787	CVn	**HJ 1244**			6.87	10.81	6.9"	7.1"	131°	134°	2000	1876	A2IV	13h53m20.8s	+42°11'05"	12
12	81893	Leo	**Σ 1555**		AB	6.41	6.78	0.7"	1.3"	150°	339°	2004	1829	F0V	11h36m18.0s	+27°46'53"	12
12	81893	Leo		HJ 503	AB-C	5.83	11.2	21.9"	21.1"	154°	140°	1984	1844	F0V	11h36m18.0s	+27°46'53"	12
12	81960	Leo	**OΣ 239**			6.18	10.44	37"	38.1"	30°	20°	1999	1867	K4III	11h44m13.2s	+25°13'06"	12
12	99800	Leo	**β 603**			5.97	8.53	1"	1.5"	338°	338°	2005	1878	A8III	11h48m38.7s	+14°17'03"	12
12	99827	Leo	**HJ 1201**			6.42	11.65	14.9"		190°		1877		A5m	11h50m55.3s	+12°16'45"	12
12	99840	Leo	**SHJ 132**		AB	6.86	10.17	39"	37.2"	14°	19°	2003	1782	A2	11h52m46.2s	+15°26'10"	12
12	43649	UMa	**HO 50**			6.47	8.36	3"	3.1"	35°	31°	2003	1882	K2III	11h13m40.1s	+41°05'20"	12
12	27970	UMa	**Σ 1520**			6.54	7.81	12.3"	13"	344°	345°	2003	1831	F6V F9V	11h16m04.1s	+52°46'24"	12
12	43750	UMa	**Σ 1542**			6.93	9.65	3.4"	2.5"	267°	265°	2003	1831	F2V	11h27m56.0s	+44°33'57"	12
12	62572	UMa	**57 UMa**	Σ 1543	AB	5.35	10.67	5.5"	5.9"	354°	10°	2003	1825	A2V	11h29m04.1s	+39°20'13"	12
12	62572	UMa		Σ 1543	AE	5.35	10.3	100.3"		184°		1984			11h29m04.1s	+39°20'13"	12
12	62572	UMa		Σ 1543	AF	5.35	10.3	131"		168°		1984			11h29m04.1s	+39°20'13"	12
12	43841	UMa	**Σ 1561**		AB	6.53	8.23	9.4"	12.5"	248°	270°	2006	1783	G0V	11h38m44.6s	+45°06'30"	12
12	43841	UMa			AC	6.53	9.46	164.9"	32.4"	90°	86°	2006	1783		11h38m44.6s	+45°06'30"	12
12	62731	UMa	**ARG 101**			6.27	9.28	46.4"	45.9"	273°	274°	2004	1894	Am	11h51m09.5s	+33°22'30"	12
12	43945	UMa	**65 UMa**	Σ 1579	AB-D	6.68	6.97	63.2"	60.1"	114°	112°	2002	1782		11h55m05.8s	+46°28'37"	12
12	43945	UMa		Σ 1579	AB-C	6.68	8.32	3.9"	4"	42°	36°	2006	1782		11h55m05.8s	+46°28'37"	12
12	62763	UMa	**OΣ 241**			6.82	8.74	1.8"	1"	144°	119°	2006	1843	F3V	11h56m17.1s	+35°26'53"	12
12	62774	UMa	**β 918**		AC	6.42	10.5	131.6"	121.9"	66°	66°	1999	1899	A9V	11h58m07.1s	+32°16'26"	12
12	28572	UMa	**Σ 1695**		AB	6.04	7.75	3.6"	4.1"	281°	285°	2006	1823	A5m	12h56m17.5s	+54°05'58"	12
12	28572	UMa			AC	6.04	10.4	124"		142°		1880		A5m	12h56m17.5s	+54°05'58"	12
12	28601	UMa	**78 UMa**	β 1082		5.02	7.88	1.2"	1.5"	91°	76°	2005	1889	F2V	13h00m43.7s	+56°21'59"	12
12	28679	UMa	**OΣ 122**		AB	6.88	8.11	120.5"	115.1"	215°	211°	2000	1876	G1Va G5	13h13m37.1s	+56°42'30"	12
12	28737	UMa	**ζ UMa**	Σ 1744	AB	2.23	3.88	14.3"	13.9"	153°	143°	2005	1755	A1V	13h23m55.6s	+54°55'31"	12
12	28737	UMa		Σ 1744	AC	2.23	4.01	708.5"	720"	71°	72°	1991	1831		13h23m55.6s	+54°55'31"	12
12	28819	UMa	**Σ 1770**			6.93	8.18	1.7"	1.6"	122°	117°	2004	1830		13h37m42.9s	+50°42'53"	12
12	28836	UMa	**Σ 1774**			6.34	10.51	17.5"	17.9"	135°	134°	2000	1879	F8V	13h40m23.2s	+50°31'10"	12
12	28955	UMa	**Σ 1795**			6.91	9.83	7.9"	7.6"	3°	3°	2003	1832	A3IV-V	13h58m55.4s	+53°06'23"	12
12	138704	Vir	**Σ 1627**			6.55	6.9	19.8"	20.4"	196°	195°	2003	1822	F2V F3V	12h18m09.6s	-03°56'55"	12

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
12	119360	Vir	**17 Vir**	Σ 1636		6.58	10.48	20.8"	20.2"	337°	328°	2004	1783	F8V	12h22m32.0s	+05°18'19"	**12**
12	138885	Vir	**S 639**		AB	6.82	9.99	56"	50.6"	110°	105°	2002	1825	M0III	12h38m43.3s	-04°22'25"	**12**
12	100207	Vir	**27 Vir**	H 6 81		6.19	10.1	79.1"	85.5"	279°	281°	2000	1899	A7Vn	12h41m34.3s	+10°25'35"	**12**
12	138917	Vir	**γ Vir**	Σ 1670	AB	3.48	3.53	0.5"	7.5"	82°	319°	2006	1720	F0V F0V	12h41m39.3s	-01°26'57"	**12**
12	119580	Vir	**33 Vir**	OΣ 577		5.77	8.74	145.2"	192.5"	209°	183°	2002	1852	K1III-IV	12h46m22.7s	+09°32'19"	**12**
12	100260	Vir	**34 Vir**	BUP 145		6.11	9.99	139.2"	137.8"	2°	4°	2002	1908	A3V	12h47m13.7s	+11°57'29"	**12**
12	100337	Vir	**Σ 1689**			7.11	9.13	29.6"	28.1"	222°	199°	2006	1823	M4III	12h55m30.3s	+11°29'45"	**12**
12	139053	Vir	**OΣ 256**			7.33	7.61	1"	0.6"	101°	40°	2005	1843	F7V	12h56m26.6s	-00°57'17"	**12**
12	139096	Vir	**46 Vir**	AGC 5	AB	6.18	8.78	0.8"	1.3"	179°	159°	1996	1876	K1IV	13h00m35.9s	-03°22'06"	**12**
12	139131	Vir	**48 Vir**	β 929		7.12	7.65	0.6"	0.5"	195°	229°	2005	1879	F0V	13h03m54.4s	-03°39'48"	**12**
12	119867	Vir	**HDS 1865**			6.62	9.55	1.1"	1.1"	111°	111°	1991	1991	A1IV	13h18m51.1s	+03°41'15"	**12**
12	119889	Vir	**Σ 1734**			6.77	7.29	1.1"	0.7"	177°	198°	2004	1830	A3V	13h20m41.5s	+02°56'32"	**12**
12	119971	Vir	**Σ 1751**			7.05	10.27	5.8"	5.7"	57°	59°	1991	1831	K2III	13h30m39.1s	+09°19'00"	**12**
12	100630	Vir	**HJ 228**			6.6	8.99	70.1"	70.2"	15°	16°	2002	1828	K0	13h35m33.5s	+10°12'17"	**12**
12	120042	Vir	**Σ 1764**		AB	6.79	8.56	16.1"	16"	32°	32°	2003	1832	K2III	13h37m44.0s	+02°22'56"	**12**
12	120042	Vir			AC	6.79	10.45	171.7"	172.2"	139°	139°	2000	1909		13h37m44.0s	+02°22'56"	**12**
12	120082	Vir	**84 Vir**	Σ 1777		5.55	8.31	2.8"	4"	228°	241°	2006	1782	K1III	13h43m03.6s	+03°32'16"	**12**
12	120238	Vir	**τ Vir**	SHJ 171	AB	4.26	9.48	81"	79.3"	290°	290°	2002	1823	A3V	14h01m38.8s	+01°32'40"	**12**

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13	82123	Com	**2 Com**	Σ 1596		6.18	7.48	3.7"	4"	236°	242°	2006	1782	F0IV-V	12h04m16.6s	+21°27'33"	**13**
13	62904	Com	**Σ 1615**		AB	6.99	8.61	26.8"	24.3"	88°	90°	2004	1830	K1III F8V	12h14m06.5s	+32°47'03"	**13**
13	82219	Com	**OΣ 245**			5.7	10.2	8.3"	7.4"	281°	278°	1999	1843	A3IV	12h17m30.6s	+28°56'14"	**13**
13	100048	Com	**β 27**			7.11	10.53	3.6"	4"	108°	110°	2000	1872	G9III	12h20m04.8s	+13°51'18"	**13**
13	82254	Com	**Σ 1633**			7.04	7.13	8.9"	8"	245°	242°	2004	1820	F3V+F3V	12h20m41.4s	+27°03'15"	**13**
13	82273	Com	**12 Com**	SHJ 143	AC	4.86	8.9	65.2"	58.9"	168°	163°	2002	1783		12h22m30.3s	+25°50'46"	**13**
13	82293	Com	**Σ 1639**		AB	6.74	7.83	1.7"	1.3"	324°	291°	2006	1827	A7V+F4V	12h24m26.8s	+25°34'57"	**13**
13	82330	Com	**17 Com**	Σ 21	AB	5.23	6.64	146.2"	145.3"	251°	251°	2002	1836	A0p	12h28m54.7s	+25°54'46"	**13**
13	44097	CVn	**2 CVn**	Σ 1622		5.86	8.71	11.5"	12.2"	260°	259°	2005	1783	M1III+F7V	12h16m07.6s	+40°39'36"	**13**
13	62953	CVn	**Σ 1632**			6.83	9.98	9.8"	10.1"	193°	190°	2006	1787	K0III F9V	12h20m13.5s	+37°54'08"	**13**
13	28407	CVn	**7 CVn**	BUP 143	AC	6.27	8.45	215.3"	231.8"	333°	326°	2002	1908		12h30m02.7s	+51°32'08"	**13**
13	28407	CVn		BUP 143	AB	6.21	10.4	109.2"	109.2"	172°	173°	1908	1898	F6-8V	12h30m02.7s	+51°32'08"	**13**
13	80900	Leo	**H N 29**			6.53	12.1	30.5"	35"	260°	257°	1958	1840	A3V	09h33m18.3s	+28°22'04"	**13**
13	98967	Leo	**α Leo**	Σ 6	AB	1.4	8.24	176"	178"	308°	307°	2000	1800	B7V	10h08m22.3s	+11°58'02"	**13**
13	99032	Leo	**OΣA215**			7.2	7.4	1.4"	0.5"	181°	256°	1990	1843	A9IV	10h16m16.1s	+17°44'25"	**13**
13	81298	Leo	**γ Leo**	Σ 1424	AB	2.37	3.64	4.7"	3"	127°	84°	2006	1782	K0III	10h19m58.5s	+19°50'28"	**13**
13	99136	Leo	**45 Leo**	HJ 832		6.04	10.9	37.1"	38.6"	135°	132°	2000	1904	A0pSiCr:	10h27m39.0s	+09°45'45"	**13**
13	118380	Leo	**49 Leo**	Σ 1450		5.8	7.9	2.2"	2.4"	154°	161°	2006	1825	A2V	10h35m02.1s	+08°39'01"	**13**
13	137863	Leo	**S 617**			6.22	8.71	35.3"	35.2"	178°	178°	2003	1824	G9IV	10h53m24.9s	-02°15'19"	**13**
13	81583	Leo	**54 Leo**	Σ 1487		4.48	6.3	6.6"	6"	113°	105°	2005	1777	A1V A2Vn	10h55m36.8s	+24°44'59"	**13**
13	118574	Leo	**55 Leo**	β 1076		5.98	9.02	1.2"	1"	57°	50°	1999	1889	F4V	10h55m42.4s	+00°44'13"	**13**
13	99428	Leo	**HJ 174**			6.87	10.5	61.2"		5°		1905			11h04m33.3s	+12°40'01"	**13**
13	118668	Leo	**65 Leo**	β 599		5.65	9.72	2.7"	1.8"	104°	82°	1991	1878	G9IIICN	11h06m54.0s	+01°57'19"	**13**
13	81725	Leo	**Σ 1517**			6.93	7.83	0.5"		143°					11h13m40.8s	+20°07'43"	**13**
13	138102	Leo	**φ Leo**	SHJ 121		4.48	9.75	88.9"	98.6"	291°	281°	2002	1782	A7IVn	11h16m39.6s	-03°39'06"	**13**
13	99551	Leo	**Σ 1527**			7.01	7.99	0.3"	3.7"	119°	10°	2005	1822	F9V	11h18m59.9s	+14°16'06"	**13**
13	138130	Leo	**Σ 1529**			7.1	7.91	9.5"	10.2"	254°	251°	2003	1821	F6IV dG3	11h19m22.5s	-01°39'19"	**13**
13	99587	Leo	**ι Leo**	Σ 1536	AB	4.06	6.71	1.9"	2.1"	103°	95°	2006	1828	F4IV	11h23m55.5s	+10°31'46"	**13**
13	99601	Leo	**81 Leo**	HJ 4433		5.62	10.84	55.1"	58.5"	2°	339°	1998	1840	F2V	11h25m36.3s	+16°27'24"	**13**
13	118864	Leo	**83 Leo**	Σ 1540	AB	6.55	7.5	28.6"	29.5"	150°	145°	2004	1780	G7V	11h26m45.0s	+03°00'49"	**13**
13	118864	Leo		Σ 1540	AC	6.5	9.9	90.5"	91.6"	187°	191°	1937	1936		11h26m45.0s	+03°00'49"	**13**
13	118875	Leo	**τ Leo**	Σ 19	AB	5.05	7.47	88.9"	94.7"	181°	170°	2004	1834	G8II-III	11h27m56.2s	+02°51'22"	**13**
13	99648	Leo	**88 Leo**	Σ 1547	AB	6.33	9.14	15.4"	14.6"	331°	318°	2004	1782	G0IV	11h31m44.8s	+14°21'51"	**13**
13	99668	Leo	**HDS 1642**			6.62	9.43	0.9"	0.9"	246°	244°	1991	1991	A2m	11h34m10.0s	+11°01'26"	**13**
13	99673	Leo	**90 Leo**	Σ 1552	AB	6.26	7.31	3.5"	3"	209°	209°	2006	1782	B4V	11h34m42.5s	+16°47'49"	**13**
13	99673	Leo		Σ 1552	AC	6.26	9.77	62.3"	53.7"	236°	235°	2004	1783	F5	11h34m42.5s	+16°47'49"	**13**
13	99673	Leo		Σ 1552	BC	7.4	8.8	59.2"	56.7"	237°	235°	2004	1822		11h34m42.5s	+16°47'49"	**13**
13	81893	Leo	**Σ 1555**		AB	6.41	6.78	0.7"	1.3"	150°	339°	2004	1829	F0V	11h36m18.0s	+27°46'53"	**13**
13	81893	Leo		HJ 503	AB-C	5.83	11.2	21.9"	21.1"	154°	140°	1984	1844	F0V	11h36m18.0s	+27°46'53"	**13**
13	81960	Leo	**OΣ 239**			6.18	10.44	37"	38.1"	30°	20°	1999	1867	K4III	11h44m13.2s	+25°13'06"	**13**
13	99800	Leo	**β 603**			5.97	8.53	1"	1.5"	338°	338°	2005	1878	A8III	11h48m38.7s	+14°17'03"	**13**
13	99827	Leo	**HJ 1201**			6.42	11.65	14.9"		190°		1877		A5m	11h50m55.3s	+12°16'45"	**13**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
13	99840	Leo	**SHJ 132**		AB	6.86	10.17	39"	37.2"	14°	19°	2003	1782	A2	11h52m46.2s	+15°26'10"	**13**
13	61529	LMi	**7 LMi**	HJ 1166	AB	5.97	9.66	63.2"	55"	128°	133°	2004	1833	G8III:	09h30m43.2s	+33°39'20"	**13**
13	61529	LMi		HJ 1166	AC	6	9.8	96.2"	97.8"	216°	213°	1998	1912		09h30m43.2s	+33°39'20"	**13**
13	61629	LMi	**Σ 1374**		AB	7.28	8.65	3"	3.3"	309°	275°	2003	1828	G3IV	09h41m22.0s	+38°57'00"	**13**
13	61837	LMi	**HJ 2517**			6.75	11.6	44.3"		153°		1902			10h03m53.4s	+38°01'13"	**13**
13	81381	LMi	**OΣ 105**			7.01	8.24	133.6"	130.4"	226°	225°	1998	1875	K2III	10h29m53.7s	+28°34'52"	**13**
13	62206	LMi	**BLL 28**	RX LMi		6.22	10.77	110.3"	119.1"	176°	173°	1998	1879	M2III	10h42m11.3s	+31°41'49"	**13**
13	62236	LMi	**42 LMi**	S 612	AB	5.34	7.78	196.5"	200.3"	174°	173°	2002	1825	A1Vn	10h45m51.9s	+30°40'56"	**13**
13	61391	Lyn	**38 Lyn**	Σ 1334	A-Bb	3.92	6.09	2.6"	2"	226°	244°	2004	1780	A3V	09h18m50.6s	+36°48'08"	**13**
13	61391	Lyn		Σ 1334	Bb-C	6.6	10.8	80.8"	87.7"	216°	213°	1998	1909		09h18m50.6s	+36°48'08"	**13**
13	61391	Lyn		Σ 1334	Bb-D	6.6	10.7	174.7"	177.9"	261°	256°	1998	1879		09h18m50.6s	+36°48'08"	**13**
13	61411	Lyn	**Σ 1338**		AB	6.72	7.08	1.1"	1.8"	296°	121°	2006	1829	F2V+F4V	09h20m59.4s	+38°11'18"	**13**
13	61411	Lyn			AB-C	6.72	11.4	143.4"		167°		2006	1879	F2V+F4V	09h20m59.4s	+38°11'18"	**13**
13	42931	Lyn	**Σ 1369**		Aa-B	6.98	7.98	24.5"	24.7"	150°	147°	2003	1831		09h35m22.5s	+39°57'48"	**13**
13	42931	Lyn			Aa-C	6.98	8.42	114.6"	118.6"	323°	325°	2003	1824		09h35m22.5s	+39°57'48"	**13**
13	117980	Sex	**S 605**			6.89	8.4	52.5"	49.7"	287°	296°	2004	1800	gM0 K0	09h54m06.7s	+04°56'44"	**13**
13	137256	Sex	**A 1767**			6.57	10.27	1.9"	1.6"	23°	13°	1991	1908	G8IV	09h57m43.9s	-01°56'30"	**13**
13	118271	Sex	**SHJ 115**			6.54	9.1	63.2"	60.4"	11°	330°	2003	1823	F6V	10h23m14.5s	+05°41'39"	**13**
13	118299	Sex	**β 1280**	RX Sex	AB	6.68	9.43	116.5"	116.3"	192°	192°	2002	1899	A3V	10h26m09.2s	+03°55'57"	**13**
13	118449	Sex	**35 Sex**	Σ 1466	AB	6.23	7.13	6.7"	6.9"	241°	239°	2005	1822		10h43m20.9s	+04°44'51"	**13**
13	137808	Sex	**40 Sex**	Σ 1476		7.08	7.82	2.4"	2.3"	15°	352°	2005	1831	A2IV	10h49m17.2s	-04°01'26"	**13**
13	27215	UMa	**OΣ 199**		AB	6.2	10	5.6"	5.6"	138°	113°	1998	1847	F5V	09h20m43.7s	+51°15'59"	**13**
13	27215	UMa			AC	6.19	10.66	130"	147.8"	7°	4°	1998	1886		09h20m43.7s	+51°15'59"	**13**
13	42825	UMa	**Σ 1340**		AB	7.08	8.99	6.2"	7.2"	319°	318°	2005	1782	B9.5V	09h22m32.2s	+49°32'41"	**13**
13	27246	UMa	**OΣ 200**			6.53	8.57	1.3"	1.2"	335°	337°	2003	1843	G0IV	09h24m55.7s	+51°34'26"	**13**
13	42876	UMa	**S 598**		AB	5.5	7.8	70.1"	87"	162°	161°	2005	1800	K0III-IV	09h28m40.0s	+45°36'04"	**13**
13	42876	UMa			AC	5.6	9.8	84.1"	83.5"	75°	80°	1999	1879		09h28m40.0s	+45°36'04"	**13**
13	42990	UMa	**HDS 1399**			6.39	10.45	0.5"	0.5"	180°	180°	1991	1991	A1V	09h42m43.1s	+48°25'51"	**13**
13	43223	UMa	**ENG 42**		AB	6.75	9.03	153.6"	197.5"	141°	202°	2004	1878	K2Ve	10h11m21.5s	+49°27'12"	**13**
13	43279	UMa	**ENG 43**			6.73	9.37	145.2"	152.2"	97°	105°	2002	1893	dG5	10h18m52.0s	+44°02'52"	**13**
13	43475	UMa	**OΣ 229**			7	8	0.75"		275°					10h48m02.5s	+41°06'36"	**13**
13	43565	UMa	**ES 2637**			6.69	10.7	13.3"	12.8"	203°	195°	1934	1894	K0III	11h00m42.0s	+42°43'53"	**13**
13	62387	UMa	**51 UMa**	HO 377		6	11.7	8.2"		250°		1891		A3III	11h04m31.2s	+38°14'29"	**13**
13	62451	UMa	**OΣ 108**		AB	6.48	7.32	156.5"	110.8"	67°	77°	2004	1800	G0V	11h12m32.2s	+35°48'50"	**13**
13	62451	UMa			BD	7.21	7.5	152.9"	83.6"	68°	88°	1984	1825	K0	11h12m32.2s	+35°48'50"	**13**
13	43649	UMa	**HO 50**			6.47	8.36	3"	3.1"	35°	31°	2003	1882	K2III	11h13m40.1s	+41°05'20"	**13**
13	27970	UMa	**Σ 1520**			6.54	7.81	12.3"	13"	344°	345°	2003	1831	F6V F9V	11h16m04.1s	+52°46'24"	**13**
13	62484	UMa	**Σ 1523**		AB	4.33	4.8	1.7"	3.5"	238°	144°	2006	1780	F9V G9V	11h18m10.7s	+31°31'41"	**13**
13	43750	UMa	**Σ 1542**			6.93	9.65	3.4"	2.5"	267°	265°	2003	1831	F2V	11h27m56.0s	+44°33'57"	**13**
13	62572	UMa	**57 UMa**	Σ 1543	AB	5.35	10.67	5.5"	5.9"	354°	10°	2003	1825	A2V	11h29m04.1s	+39°20'13"	**13**
13	62572	UMa		Σ 1543	AE	5.35	10.3	100.3"		184°		1984			11h29m04.1s	+39°20'13"	**13**
13	62572	UMa		Σ 1543	AF	5.35	10.3	131"		168°		1984			11h29m04.1s	+39°20'13"	**13**
13	62579	UMa	**OΣ 111**	AW UMa		6.95	9.49	67.2"	66.4"	33°	33°	2006	1875	A9n	11h30m04.3s	+29°57'51"	**13**
13	43841	UMa	**Σ 1561**		AB	6.53	8.23	9.4"	12.5"	248°	270°	2006	1783	G0V	11h38m44.6s	+45°06'30"	**13**
13	43841	UMa			AC	6.53	9.46	164.9"	32.4"	90°	86°	2006	1783		11h38m44.6s	+45°06'30"	**13**
13	62731	UMa	**ARG 101**			6.27	9.28	46.4"	45.9"	273°	274°	2004	1894	Am	11h51m09.5s	+33°22'30"	**13**
13	43945	UMa	**65 UMa**	Σ 1579	AB-D	6.68	6.97	63.2"	60.1"	114°	112°	2002	1782		11h55m05.8s	+46°28'37"	**13**
13	43945	UMa		Σ 1579	AB-C	6.68	8.32	3.9"	4"	42°	36°	2006	1782		11h55m05.8s	+46°28'37"	**13**
13	62763	UMa	**OΣ 241**			6.82	8.74	1.8"	1"	144°	119°	2006	1843	F3V	11h56m17.1s	+35°26'53"	**13**
13	62774	UMa	**β 918**		AC	6.42	10.5	131.6"	121.9"	66°	66°	1999	1899	A9V	11h58m07.1s	+32°16'26"	**13**
13	138314	Vir	**Σ 1560**			6.42	9.43	4.9"	5.1"	280°	281°	2005	1831	G9III	11h38m24.0s	-02°26'09"	**13**
13	118981	Vir	**A 2578**			7	10.04	0.8"	0.9"	131°	140°	1991	1913	A7IV	11h40m24.1s	+00°57'08"	**13**
13	138704	Vir	**Σ 1627**			6.55	6.9	19.8"	20.4"	196°	195°	2003	1822	F2V F3V	12h18m09.6s	-03°56'55"	**13**

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14	115839	CMi	**A 2534**		AB-C	6.44	8.47	0.8"	0.6"	233°	208°	1997	1913		07h43m05.4s	+00°11'22"	**14**
14	115947	CMi	**Σ 1143**			6.6	11	9.3"	9.3"	152°	152°	1825	1825	K0	07h48m03.4s	+05°24'35"	**14**
14	116182	CMi	**14 CMi**	SHJ 87	AB	5.41	9.36	98.8"	65.5"	84°	64°	2004	1782	K0III	07h58m20.6s	+02°13'30"	**14**
14	116182	CMi		SHJ 87	AC	5.41	9.89	133.3"	112.2"	148°	153°	2004	1822		07h58m20.6s	+02°13'30"	**14**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
14	116192	CMi	**Σ 1168**			6.8	10.6	6"	5.9"	218°	215°	1999	1831	B9	07h58m45.2s	+05°37'24"	**14**
14	79864	Cnc	**Σ 1171**			6.48	9.95	2.1"	2.8"	326°	339°	1991	1828	K1III-IV	08h01m00.8s	+23°34'59"	**14**
14	79869	Cnc	**4 Cnc**	H 6 75	AC	6.31	10	106.4"	109.6"	296°	295°	1999	1898		08h01m43.7s	+25°05'22"	**14**
14	79869	Cnc		H 6 75	AB	6.31	11	45.1"	45.6"	26°	23°	1999	1904	A1V	08h01m43.7s	+25°05'22"	**14**
14	97514	Cnc	**HO 350**			6.7	10.8	4.9"	4.2"	198°	189°	1929	1891	F9V	08h03m28.7s	+12°10'52"	**14**
14	79928	Cnc	**Σ 1177**			6.69	7.41	3.3"	3.5"	350°	355°	2005	1828	B9V	08h05m37.1s	+27°31'47"	**14**
14	79974	Cnc	**Σ 1186**			7.06	10.08	3.2"	3.2"	216°	219°	1991	1828	G8III-IV	08h08m49.6s	+27°28'49"	**14**
14	60604	Cnc	**Σ 1187**		Aa-B	7.19	7.98	3"	1.6"	23°	71°	2004	1829		08h09m30.4s	+32°13'16"	**14**
14	79991	Cnc	**BUP 111**		AB	6.58	9.32	82"	89.1"	49°	51°	2002	1893	K0	08h10m13.1s	+25°50'40"	**14**
14	79995	Cnc	**ψ Cnc**	BUP 112	AC	5.73	10.7	112"	117"	213°	212°	1925	1910	G7V	08h10m27.1s	+25°30'24"	**14**
14	60631	Cnc	**OΣ 564**		AB	6.81	11	55"	58"	327°	280°	1915	1857	G4V	08h11m38.4s	+32°27'21"	**14**
14	97645	Cnc	**ζ Cnc**	Σ 1196	AB-C	5.05	6.2	5.9"	6.5"	71°	159°	2006	1800	G0V	08h12m12.7s	+17°38'51"	**14**
14	97645	Cnc		Σ 1196	AB	5.3	6.25	1"	1.1"	58°	58°	2005	1825	F8V	08h12m12.7s	+17°38'51"	**14**
14	97645	Cnc		Σ 1196	AC	5.31	5.85	6.4"	3.3"	71°	205°	2006	1756		08h12m12.7s	+17°38'51"	**14**
14	97645	Cnc		Σ 1196	BC	6.25	5.85	5.7"	5.6"	74°	155°	2005	1840		08h12m12.7s	+17°38'51"	**14**
14	97669	Cnc	**H 6 78**		AC	6.4	9.2	63.2"	64.4"	301°	301°	2002	1894		08h14m11.1s	+17°40'34"	**14**
14	97788	Cnc	**21 Cnc**	A 2961		6.34	9.42	1.2"	1"	259°	259°	1991	1915	M2III	08h23m55.2s	+10°37'55"	**14**
14	116752	Cnc	**H 6 109**			5.22	10.23	30"	35.4"	343°	325°	2000	1782	G5II-III	08h25m54.8s	+07°33'52"	**14**
14	80181	Cnc	**φ 1 Cnc**	S 566		5.74	10.72	139.2"	120.9"	21°	22°	2004	1825	K5III	08h26m27.7s	+27°53'36"	**14**
14	80188	Cnc	**φ 2 Cnc**	Σ 1223		6.16	6.21	5"	5.5"	219°	213°	2005	1782	A3V A6V	08h26m47.1s	+26°56'08"	**14**
14	97881	Cnc	**θ Cnc**	HJ 2452		5.35	10	70.4"	60"	62°	61°	1988	1831	K5III	08h31m35.7s	+18°05'39"	**14**
14	116929	Cnc	**Σ 1245**		AB	5.98	7.16	10.3"	12.5"	25°	27°	2006	1782	F8V G5V	08h35m50.9s	+06°37'12"	**14**
14	116929	Cnc			AC	5.98	10.7	97.5"	92.2"	112°	121°	1991	1893		08h35m50.9s	+06°37'12"	**14**
14	116929	Cnc			AE	5.98	9.6	115.2"	131.9"	207°	211°	2002	1893		08h35m50.9s	+06°37'12"	**14**
14	80333	Cnc	**39 Cnc**	ENG 37	A-Bb	6.47	6.58	150.1"	150"	153°	151°	2002	1831	K0III	08h40m06.4s	+20°00'28"	**14**
14	80333	Cnc		ENG 37	AC	6.47	9.03	134.3"	134.2"	309°	309°	2002	1887		08h40m06.4s	+20°00'28"	**14**
14	80333	Cnc		ENG 37	AD	6.47	8.79	135.3"	135"	111°	111°	2002	1887		08h40m06.4s	+20°00'28"	**14**
14	80333	Cnc		BUP 120	Bb-R	6.61	10.4	140.7"	139.8"	147°	148°	1921	1894		08h40m06.4s	+20°00'28"	**14**
14	98021	Cnc	**Σ 1254**		AC	6.52	7.61	63.3"	63.4"	343°	342°	2002	1863		08h40m22.1s	+19°40'12"	**14**
14	98021	Cnc			AB	6.44	10.37	20.3"	20.7"	54°	53°	2003	1825	K0III	08h40m22.1s	+19°40'12"	**14**
14	98021	Cnc			AD	6.52	9.2	82.6"	82.5"	44°	44°	2002	1863		08h40m22.1s	+19°40'12"	**14**
14	98024	Cnc	**ε Cnc**	S 574		6.28	7.48	134.1"	132.8"	250°	249°	2002	1825	A5m	08h40m27.0s	+19°32'41"	**14**
14	80378	Cnc	**δ Cnc**	ENG 38	AB	4.65	10.2	114.3"	103"	67°	66°	1999	1887	A1IV	08h43m17.1s	+21°28'06"	**14**
14	80416	Cnc	**ι Cnc**	Σ 1268		4.13	5.99	30.7"	31"	308°	302°	2003	1777	G7.5IIIa	08h46m41.8s	+28°45'35"	**14**
14	80476	Cnc	**53 Cnc**	HJ 460	AC	6.47	6.04	273.5"	315.7"	21°	27°	2005	1895		08h52m28.6s	+28°15'33"	**14**
14	80476	Cnc		HJ 460	AB	6.23	9.9	43.7"	42.6"	335°	332°	2003	1895	M3III	08h52m28.6s	+28°15'33"	**14**
14	61102	Cnc	**σ 1 Cnc**	S 583	AC	5.66	10.2	77"	82.1"	24°	23°	2003	1825	A8sm	08h52m34.6s	+32°28'27"	**14**
14	61125	Cnc	**57 Cnc**	Σ 1291	AB	6.09	6.37	1.5"	0.9"	311°	338°	2004	1782	G7III	08h54m14.8s	+30°34'45"	**14**
14	61125	Cnc		Σ 1291	AB-C	5.47	9.2	54.5"	55.8"	203°	198°	1988	1921		08h54m14.8s	+30°34'45"	**14**
14	61177	Cnc	**σ 3 Cnc**	SHJ 100		5.32	8.97	88.9"	89.5"	296°	296°	2002	1823	G8III	08h59m32.6s	+32°25'07"	**14**
14	61202	Cnc	**66 Cnc**	Σ 1298	AB	5.95	8.56	4.5"	3.3"	134°	134°	2003	1821	A2V	09h01m24.1s	+32°15'08"	**14**
14	61202	Cnc		Σ 1298	AC	5.8	10.8	187.5"	187.4"	319°	319°	1998	1879		09h01m24.1s	+32°15'08"	**14**
14	80585	Cnc	**67 Cnc**	SHJ 101		6.08	9.22	103.7"	100.3"	330°	322°	2005	1823	A8V	09h01m48.8s	+27°54'09"	**14**
14	80643	Cnc	**Σ 1311**		AB	6.92	7.13	7.7"	8.8"	199°	205°	2005	1783	F4V F5V	09h07m26.8s	+22°58'51"	**14**
14	80659	Cnc	**75 Cnc**	OΣ 567	AB	6.03	10	142.2"	92.5"	38°	43°	2002	1851	G5IV-V	09h08m47.3s	+26°37'42"	**14**
14	98425	Cnc	**OΣ 568**		AB	6.87	9.47	129.6"	134.6"	253°	252°	2002	1882	A0	09h11m56.9s	+18°02'39"	**14**
14	60198	Gem	**α Gem**	Σ 1110	AB	1.93	2.97	4.4"	5.5"	60°	270°	2006	1819	A1V A2Vm	07h34m35.8s	+31°53'17"	**14**
14	60198	Gem		Σ 1110	AC	1.93	9.83	71"	72.9"	164°	162°	2001	1822		07h34m35.8s	+31°53'17"	**14**
14	60198	Gem		Σ 1110	AD	1.93	10.07	185.2"	206.6"	222°	223°	1998	1902		07h34m35.8s	+31°53'17"	**14**
14	60198	Gem		Σ 1110	BC	2.9	8.7	70.1"	73.6"	167°	158°	2005	1830		07h34m35.8s	+31°53'17"	**14**
14	60204	Gem	**OΣ 175**		AB-C	5.46	10.39	82"	81.1"	194°	196°	2002	1893		07h35m08.8s	+30°57'39"	**14**
14	60204	Gem			AB	5.8	6.4	0.2"	0.5"	327°	334°	1993	1842	KOIII	07h35m08.8s	+30°57'39"	**14**
14	79653	Gem	**κ Gem**	OΣ 179		3.7	8.2	7.2"	6.3"	241°	225°	2002	1832	G8IIIa	07h44m26.8s	+24°23'52"	**14**
14	79703	Gem	**S 560**			6.97	9.79	88.9"	89.7"	359°	359°	2002	1825	K0III	07h48m28.8s	+28°45'51"	**14**
14	60380	Gem	**OΣ 89**			6.83	7.69	77"	76.7"	83°	83°	2004	1875	A6III-IV	07h51m00.2s	+31°36'48"	**14**
14	60379	Gem	**BLL 25**			6.03	10.2	78"	77.8"	147°	146°	1998	1879	A2m	07h51m02.3s	+33°14'01"	**14**
14	135916	Hya	**2 Hya**	H 6 118		5.59	9.2	78.8"	72.9"	6°	2°	1998	1893	A5III-IV	08h26m27.2s	-03°59'15"	**14**
14	136243	Hya	**Σ 1270**			6.89	7.54	4.6"	5"	265°	258°	2005	1824	F2IV	08h45m20.8s	-02°36'04"	**14**
14	117112	Hya	**ε Hya**	Σ 1273	AB-C	3.49	6.66	2.8"	3.3"	303°	192°	2005	1825		08h46m46.4s	+06°25'07"	**14**
14	136325	Hya	**HJ 107**			7	10.6	32.5"	27.4"	27°	58°	2003	1894	K0	08h50m24.8s	-04°11'52"	**14**
14	117214	Hya	**A 2900**			6.44	9.46	0.7"	0.8"	310°	295°	1991	1914	A5V	08h52m24.2s	+05°20'25"	**14**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
14	117483	Hya	**β 104**			6.99	10.64	3.3"	2.5"	105°	120°	1991	1873	K2III	09h11m29.3s	+00°17'28"	14
14	117553	Hya	**β 588**			6.5	11	2.1"	2.4"	153°	123°	1996	1878	F1V	09h16m39.9s	+00°43'44"	14
14	117569	Hya	**Σ 1336**			7	10.2	40"	40"	181°	180°	2003	1892	A0	09h17m32.9s	+00°33'17"	14
14	117661	Hya	**Σ 1348**		AB	7.5	7.57	1.9"	1.1"	317°	334°	2004	1831	F7V	09h24m28.5s	+06°21'00"	14
14	117704	Hya	**Σ 1355**			6.9	7.83	2.04"		349°					09h27m16.6s	+06°13'57"	14
14	136894	Hya	**A 1763**			6.31	10.47	1.4"	1.6"	124°	106°	1993	1908	F0Vn	09h29m02.3s	-01°15'25"	14
14	136895	Hya	**τ 1 Hya**	HJ 1167		4.64	7.28	66.2"	61.7"	5°	359°	2002	1782	F6V	09h29m08.9s	-02°46'08"	14
14	117747	Hya	**Σ 1365**			7.38	7.98	3.3"	3.2"	156°	162°	2005	1822	F9III	09h31m31.3s	+01°27'55"	14
14	117816	Hya	**A 2557**					"							09h37m40.5s	+01°41'46"	14
14	80807	Leo	**κ Leo**	β 105	AB	4.5	9.7	2.4"	3"	211°	204°	1975	1876	K3III	09h24m39.3s	+26°10'56"	14
14	80807	Leo		β 105	AC	4.5	10.6	50.6"	52.6"		211°	1962	1912		09h24m39.3s	+26°10'56"	14
14	117717	Leo	**ω Leo**	Σ 1356		5.69	7.28	0.6"	0.4"	98°	111°	2005	1783	F9IV	09h28m27.4s	+09°03'24"	14
14	117718	Leo	**3 Leo**	H 4 47		5.76	11.12	25.2"	25.7"	80°	82°	1958	1852	G9III	09h28m29.2s	+08°11'18"	14
14	117751	Leo	**6 Leo**	SHJ 107		5.22	9.3	37.5"	36.2"	75°	77°	2006	1781	K3III	09h31m57.6s	+09°42'57"	14
14	80900	Leo	**H N 29**			6.53	12.1	30.5"	35"	260°	257°	1958	1840	A3V	09h33m18.3s	+28°22'04"	14
14	98662	Leo	**7 Leo**	H 5 58		6.31	9.39	41"	42.4"	80°	81°	2003	1782	A1V	09h35m52.9s	+14°22'47"	14
14	98690	Leo	**OΣ 204**			6.7	11.6	8.4"		102°					09h38m45.7s	+10°46'39"	14
14	98967	Leo	**α Leo**	Σ 6	AB	1.4	8.24	176"	178"	308°	307°	2000	1800	B7V	10h08m22.3s	+11°58'02"	14
14	99032	Leo	**OΣA215**			7.2	7.4	1.4"	0.5"	181°	256°	1990	1843	A9IV	10h16m16.1s	+17°44'25"	14
14	81298	Leo	**γ Leo**	Σ 1424	AB	2.37	3.64	4.7"	3"	127°	84°	2006	1782	K0III	10h19m58.5s	+19°50'28"	14
14	61529	LMi	**7 LMi**	HJ 1166	AB	5.97	9.66	63.2"	55"	128°	133°	2004	1833	G8III:	09h30m43.2s	+33°39'20"	14
14	61529	LMi		HJ 1166	AC	6	9.8	96.2"	97.8"	216°	213°	1998	1912		09h30m43.2s	+33°39'20"	14
14	61629	LMi	**Σ 1374**		AB	7.28	8.65	3"	3.3"	309°	275°	2003	1828	G3IV	09h41m22.0s	+38°57'00"	14
14	61837	LMi	**HJ 2517**			6.75	11.6	44.3"		153°		1902			10h03m53.4s	+38°01'13"	14
14	81381	LMi	**OΣ 105**			7.01	8.24	133.6"	130.4"	226°	225°	1998	1875	K2III	10h29m53.7s	+28°34'52"	14
14	26023	Lyn	**OΣ 158**		AC	7	10.7	53.5"	56.2"	65°	63°	2000	1910		06h53m26.2s	+51°31'05"	14
14	26023	Lyn			AB	7	11.3	16.8"		304°		2000	1910		06h53m26.2s	+51°31'05"	14
14	26144	Lyn	**Σ 1009**		AB	6.87	7.01	4.3"	3.5"	148°	167°	2003	1782	A3Vs	07h05m39.8s	+52°45'30"	14
14	41797	Lyn	**β 758**		AB-C	5.67	10.2	16.4"	16.9"	93°	94°	1999	1883		07h28m51.5s	+48°11'02"	14
14	41797	Lyn		KUI 30	AB	5.69	9.87	1.1"	1"	94°	90°	1999	1934	B9pHgMn	07h28m51.5s	+48°11'02"	14
14	41808	Lyn	**22 Lyn**	ENG 31	AB	5.41	10.09	179.7"	165.9"	304°	304°	2005	1888	F6V	07h29m56.0s	+49°40'20"	14
14	26407	Lyn	**HDS 1069**			6.65	9.45	0.7"	0.8"	142°	133°	1991	1991	K0	07h33m51.5s	+51°18'51"	14
14	41877	Lyn	**OΣ 174**			6.62	8.26	2.1"	1.6"	89°	83°	2003	1843	F0	07h35m56.0s	+43°01'51"	14
14	60611	Lyn	**HJ 3308**		AB	6.61	10.4	54.9"	40"	275°	235°	1943	1832	F8	08h10m11.6s	+35°27'16"	14
14	42242	Lyn	**OΣ 189**			6.87	10.73	4.3"	3.8"	295°	294°	1999	1843	A2IV	08h14m49.0s	+43°02'06"	14
14	42342	Lyn	**S 565**		AB	6.2	8.56	83.9"	73"	176°	165°	2004	1824	K5III	08h24m42.8s	+42°00'19"	14
14	61077	Lyn	**Σ 1282**			6.86	7.76	3.57"		279°					08h50m44.2s	+35°04'16"	14
14	42642	Lyn	**KUI 37**		AB	4.18	6.48	0.7"	0.6"	353°	37°	2005	1935	F3V+K0V	09h00m38.1s	+41°46'57"	14
14	42642	Lyn		BUP 122	AB-D	3.96	10.8	146"	140"	117°	122°	1923	1893		09h00m38.1s	+41°46'57"	14
14	61203	Lyn	**HDS 1311**			6.52	9.74	0.5"	0.5"	23°	9°	1998	1991	A9Vn	09h01m40.7s	+39°42'48"	14
14	61361	Lyn	**BUP 126**			5.97	9.5	144.5"	152.6"	259°	262°	1998	1912	G6III	09h15m14.2s	+34°38'01"	14
14	61387	Lyn	**Σ 1333**			6.63	6.69	1.9"	1.4"	50°	39°	2004	1828	A8V	09h18m25.9s	+35°21'51"	14
14	61391	Lyn	**38 Lyn**	Σ 1334	A-Bb	3.92	6.09	2.6"	2"	226°	244°	2004	1780	A3V	09h18m50.6s	+36°48'08"	14
14	61391	Lyn		Σ 1334	Bb-C	6.6	10.8	80.8"	87.7"	216°	213°	1998	1909		09h18m50.6s	+36°48'08"	14
14	61391	Lyn		Σ 1334	Bb-D	6.6	10.7	174.7"	177.9"	261°	256°	1998	1879		09h18m50.6s	+36°48'08"	14
14	61411	Lyn	**Σ 1338**		AB	6.72	7.08	1.1"	1.8"	296°	121°	2006	1829	F2V+F4V	09h20m59.4s	+38°11'18"	14
14	61411	Lyn			AB-C	6.72	11.4	143.4"		167°		2006	1879	F2V+F4V	09h20m59.4s	+38°11'18"	14
14	42931	Lyn	**Σ 1369**		Aa-B	6.98	7.98	24.5"	24.7"	150°	147°	2003	1831		09h35m22.5s	+39°57'48"	14
14	42931	Lyn			Aa-C	6.98	8.42	114.6"	118.6"	323°	325°	2003	1824		09h35m22.5s	+39°57'48"	14
14	135551	Mon	**ζ Mon**	Σ 1190	AC	4.46	9.68	64.7"	66.5"	247°	243°	2002	1821		08h08m35.6s	-02°59'02"	14
14	117980	Sex	**S 605**			6.89	8.4	52.5"	49.7"	287°	296°	2004	1800	gM0 K0	09h54m06.7s	+04°56'44"	14
14	137256	Sex	**A 1767**			6.57	10.27	1.9"	1.6"	23°	13°	1991	1908	G8IV	09h57m43.9s	-01°56'30"	14
14	27215	UMa	**OΣ 199**		AB	6.2	10	5.6"	5.6"	138°	113°	1998	1847	F5V	09h20m43.7s	+51°15'59"	14
14	27215	UMa			AC	6.19	10.66	130"	147.8"	7°	4°	1998	1886		09h20m43.7s	+51°15'59"	14
14	42825	UMa	**Σ 1340**		AB	7.08	8.99	6.2"	7.2"	319°	318°	2005	1782	B9.5V	09h22m32.2s	+49°32'41"	14
14	27246	UMa	**OΣ 200**			6.53	8.57	1.3"	1.2"	335°	337°	2003	1843	G0IV	09h24m55.7s	+51°34'26"	14
14	42876	UMa	**S 598**		AB	5.5	7.8	70.1"	87"	162°	161°	2005	1800	K0III-IV	09h28m40.0s	+45°36'04"	14
14	42876	UMa			AC	5.6	9.8	84.1"	83.5"	75°	80°	1999	1879		09h28m40.0s	+45°36'04"	14

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
14	42990	UMa	**HDS 1399**			6.39	10.45	0.5"	0.5"	180°	180°	1991	1991	A1V	09h42m43.1s	+48°25'51"	**14**
14	43223	UMa	**ENG 42**		AB	6.75	9.03	153.6"	197.5"	141°	202°	2004	1878	K2Ve	10h11m21.5s	+49°27'12"	**14**
14	43279	UMa	**ENG 43**			6.73	9.37	145.2"	152.2"	97°	105°	2002	1893	dG5	10h18m52.0s	+44°02'52"	**14**
14	43475	UMa	**OΣ 229**			7	8	0.75"		275°					10h48m02.5s	+41°06'36"	**14**

CHART 15

15	25019	Aur	**9 Aur**	H 6 35	AC	5.01	9.99	89.9"	90.1"	62°	61°	2002	1888		05h06m40.6s	+51°35'51"	**15**
15	40052	Aur	**OΣ 96**			6.6	11.1	21"		104°					05h09m04.4s	+49°07'19"	**15**
15	40233	Aur	**λ Aur**	Σ 3	AD	4.76	9.7	203.4"	102.1"	349°	35°	2003	1825		05h19m08.7s	+40°05'52"	**15**
15	40233	Aur		DOB 4	AE	4.76	10.1	174.8"	193.9"	34°	82°	2003	1825		05h19m08.7s	+40°05'52"	**15**
15	40251	Aur	**Σ 681**			6.61	9.21	23.3"	23.4"	181°	181°	2004	1831	A2V+GIII	05h20m39.2s	+46°57'50"	**15**
15	57999	Aur	**Σ 698**		AB	6.65	8.33	31.2"	31.1"	347°	346°	2004	1831	K2III	05h25m12.9s	+34°51'18"	**15**
15	58065	Aur	**S 483**		AB	6.47	9.16	106.7"	87.6"	43°	59°	2003	1825	F5	05h28m00.9s	+33°45'48"	**15**
15	58065	Aur			AD	6.6	10.1	113.6"	106.6"	321°	317°	1940	1891		05h28m00.9s	+33°45'48"	**15**
15	58105	Aur	**HU 217**	LY Aur		7.17	8.35	0.6"	0.6"	253°	257°	2004	1900	O9.5III	05h29m42.7s	+35°22'30"	**15**
15	58129	Aur	**OΣ 63**			6.49	7.69	75.9"	75.1"	277°	274°	1998	1874	G9III	05h30m45.1s	+39°49'33"	**15**
15	58280	Aur	**26 Aur**	Σ 753	AB-C	5.46	8.41	12.3"	13.4"	269°	273°	2005	1783	A2	05h38m38.1s	+30°29'33"	**15**
15	25319	Aur	**ENG 22**		AB	6.29	9.84	98.8"	97.5"	70°	71°	2002	1891	K1V M1	05h41m20.3s	+53°28'48"	**15**
15	77393	Aur	**Σ 764**			6.38	7.08	26.1"	25.9"	15°	14°	2004	1831	B8IV	05h41m21.0s	+29°29'15"	**15**
15	58359	Aur	**HO 509**			6.91	11.8	11.5"		204°		1897			05h42m58.3s	+33°18'52"	**15**
15	58520	Aur	**Σ 799**			7.3	8.26	0.7"	1.1"	163°	193°	2006	1829	B8	05h52m13.9s	+38°33'36"	**15**
15	58535	Aur	**β 1053**			6.91	8.83	1.8"	0.4"	358°	283°	2002	1889	F5	05h53m28.6s	+37°20'21"	**15**
15	58636	Aur	**θ Aur**	OΣ 545	AB	2.7	7.2	3.8"	2.1"	308°	7°	2004	1871	A0pSi	05h59m43.3s	+37°12'45"	**15**
15	58636	Aur		OΣ 545	AC	2.7	10.7	54"	35"	300°	286°	1998	1782		05h59m43.3s	+37°12'45"	**15**
15	58636	Aur		OΣ 545	AD	2.6	10.1	135.3"	123.3"	351°	351°	2002	1840		05h59m43.3s	+37°12'45"	**15**
15	40769	Aur	**H 6 91**		AC	6.35	10.28	35.6"	30"	345°	315°	2000	1783		06h00m18.9s	+44°35'31"	**15**
15	40769	Aur		β 1055	AB	6.2	11	1.7"	1.6"	324°	333°	1953	1888		06h00m18.9s	+44°35'31"	**15**
15	25548	Aur	**OΣ 128**		A-BC	6.41	9.26	40"	35"	14°	14°	2003	1830	A7III	06h04m29.1s	+51°34'24"	**15**
15	40844	Aur	**ES 1234**		AB	6.79	10.9	10.3"	9.8"	270°	267°	2000	1913	O8Vn	06h05m52.5s	+48°14'57"	**15**
15	58739	Aur	**ENG 25**			6.19	10.1	148.5"	116"	18°	15°	1999	1892	G0V	06h06m08.5s	+35°23'14"	**15**
15	77958	Aur	**OΣ 129**			6.24	10.49	9.5"	9.6"	211°	208°	1998	1848	M3III	06h06m22.5s	+29°30'45"	**15**
15	58762	Aur	**OΣ 131**			7.04	9.45	1.5"	1.4"	282°	283°	1991	1843	B9II	06h07m25.8s	+36°16'29"	**15**
15	40925	Aur	**41 Aur**	Σ 845		6.16	6.86	7.6"	8.5"	357°	350°	2006	1783	A1V A6V	06h11m36.6s	+48°42'39"	**15**
15	58905	Aur	**Σ 872**		AB	6.89	7.38	11.4"	11.7"	216°	216°	2005	1825	F4IV	06h15m39.0s	+36°08'55"	**15**
15	59230	Aur	**OΣ 147**		AB	6.77	8.69	43.5"	43.8"	75°	73°	2003	1843	K0	06h34m19.4s	+38°04'34"	**15**
15	59230	Aur			A-CD	6.77	9.85	46.4"	46.1"	119°	116°	2004	1849		06h34m19.4s	+38°04'34"	**15**
15	41232	Aur	**Σ 941**		AB	7.25	8.17	1.8"	2"	83°	76°	2004	1783	B9	06h38m40.8s	+41°34'53"	**15**
15	41232	Aur			AC	7.25	10.48	83.9"	82.1"	135°	133°	2004	1822		06h38m40.8s	+41°34'53"	**15**
15	78593	Aur	**54 Aur**	OΣ 152		6.21	7.85	0.9"	0.7"	35°	29°	1995	1843	B7III	06h39m33.1s	+28°15'47"	**15**
15	41305	Aur	**OΣ 154**			7.06	9.68	26"	30.7"	88°	138°	2004	1843	M4III	06h44m17.4s	+40°37'21"	**15**
15	41330	Aur	**ψ 5 Aur**	SHJ 75	AB	5.31	8.65	31.1"	53"	38°	17°	1998	1782	G0V	06h46m44.3s	+43°34'40"	**15**
15	59571	Aur	**59 Aur**	Σ 974	AB	6.14	10.2	22.2"	23.5"	224°	217°	1998	1782	F2Ve	06h53m01.4s	+38°52'09"	**15**
15	59609	Aur	**Σ 978**		AB	6.85	10	18.9"	14.8"	87°	99°	1991	1831	K0	06h55m31.9s	+37°54'55"	**15**
15	59824	Aur	**Σ 1022**			6.8	10	5.2"	5.8"	141°	129°	2005	1831	B9IV	07h09m25.7s	+36°33'48"	**15**
15	115294	CMi	**Σ 1074**		AB	7.44	7.8	0.7"	0.5"	173°	115°	1997	1831	B9.5V	07h20m31.1s	+00°24'13"	**15**
15	115773	CMi	**Σ 1126**		AB	6.55	6.96	0.9"	1.3"	171°	130°	2003	1820	A0III	07h40m07.0s	+05°13'52"	**15**
15	115773	CMi			AC	5.8	10.6	43.2"	43.3"	249°	247°	2000	1899		07h40m07.0s	+05°13'52"	**15**
15	115839	CMi	**A 2534**		AB-C	6.44	8.47	0.8"	0.6"	233°	208°	1997	1913		07h43m05.4s	+00°11'22"	**15**
15	115947	CMi	**Σ 1143**			6.6	11	9.3"	9.3"	152°	152°	1825	1825	K0	07h48m03.4s	+05°24'35"	**15**
15	116182	CMi	**14 CMi**	SHJ 87	AB	5.41	9.36	98.8"	65.5"	84°	64°	2004	1782	K0III	07h58m20.6s	+02°13'30"	**15**
15	116182	CMi		SHJ 87	AC	5.41	9.89	133.3"	112.2"	148°	153°	2004	1822		07h58m20.6s	+02°13'30"	**15**
15	116192	CMi	**Σ 1168**			6.8	10.6	6"	5.9"	218°	215°	1999	1831	B9	07h58m45.2s	+05°37'24"	**15**
15	79864	Cnc	**Σ 1171**			6.48	9.95	2.1"	2.8"	326°	339°	1991	1828	K1III-IV	08h01m00.8s	+23°34'59"	**15**
15	79869	Cnc	**4 Cnc**	H 6 75	AC	6.31	10	106.4"	109.6"	296°	295°	1999	1898		08h01m43.7s	+25°05'22"	**15**
15	79869	Cnc		H 6 75	AB	6.31	11	45.1"	45.6"	26°	23°	1999	1904	A1V	08h01m43.7s	+25°05'22"	**15**
15	97514	Cnc	**HO 350**			6.7	10.8	4.9"	4.2"	198°	189°	1929	1891	F9V	08h03m28.7s	+12°10'52"	**15**
15	79928	Cnc	**Σ 1177**			6.69	7.41	3.3"	3.5"	350°	355°	2005	1828	B9V	08h05m37.1s	+27°31'47"	**15**
15	79974	Cnc	**Σ 1186**			7.06	10.08	3.2"	3.2"	216°	219°	1991	1828	G8III-IV	08h08m49.6s	+27°28'49"	**15**
15	60604	Cnc	**Σ 1187**		Aa-B	7.19	7.98	3"	1.6"	23°	71°	2004	1829		08h09m30.4s	+32°13'16"	**15**
15	79991	Cnc	**BUP 111**		AB	6.58	9.32	82"	89.1"	49°	51°	2002	1893	K0	08h10m13.1s	+25°50'40"	**15**
15	79995	Cnc	**ψ Cnc**	BUP 112	AC	5.73	10.7	112"	117"	213°	212°	1925	1910	G7V	08h10m27.1s	+25°30'24"	**15**
15	60631	Cnc	**OΣ 564**		AB	6.81	11	55"	58"	327°	280°	1915	1857	G4V	08h11m38.4s	+32°27'21"	**15**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
15	97645	Cnc	**ζ Cnc**	Σ 1196	AB-C	5.05	6.2	5.9"	6.5"	71°	159°	2006	1800	G0V	08h12m12.7s	+17°38'51"	**15**
15	97645	Cnc		Σ 1196	AB	5.3	6.25	1"	1.1"	58°	58°	2005	1825	F8V	08h12m12.7s	+17°38'51"	**15**
15	97645	Cnc		Σ 1196	AC	5.31	5.85	6.4"	3.3"	71°	205°	2006	1756		08h12m12.7s	+17°38'51"	**15**
15	97645	Cnc		Σ 1196	BC	6.25	5.85	5.7"	5.6"	74°	155°	2005	1840		08h12m12.7s	+17°38'51"	**15**
15	97669	Cnc	**H 6 78**		AC	6.4	9.2	63.2"	64.4"	301°	301°	2002	1894		08h14m11.1s	+17°40'34"	**15**
15	80181	Cnc	**φ 1 Cnc**	S 566		5.74	10.72	139.2"	120.9"	21°	22°	2004	1825	K5III	08h26m27.7s	+27°53'36"	**15**
15	80188	Cnc	**φ 2 Cnc**	Σ 1223		6.16	6.21	5"	5.5"	219°	213°	2005	1782	A3V A6V	08h26m47.1s	+26°56'08"	**15**
15	78050	Gem	**3 Gem**	β 1241	AB	5.9	8.48	0.6"	0.5"	346°	345°	2003	1891	B2.5Ibe	06h09m44.0s	+23°06'48"	**15**
15	78135	Gem	**η Gem**	β 1008		3.52	6.15	1.8"	1.1"	259°	300°	2004	1881	M3.5I-II	06h15m	+22 30'	**15**
15	78225	Gem	**H 5 55**		AB	6.95	8.7	58.3"	59.6"	88°	87°	2002	1899	B1III	06h19m22.5s	+23°16'28"	**15**
15	78225	Gem			AC	6.95	9.6	62.2"	62.8"	59°	59°	2000	1903		06h19m22.5s	+23°16'28"	**15**
15	95602	Gem	**Σ 899**			7.41	8.01	2.2"	2.4"	18°	20°	2001	1831	A0V	06h22m49.6s	+17°34'27"	**15**
15	95684	Gem	**OΣ 140**		AB	6.92	10.08	3.1"	2.4"	119°	125°	2000	1843	B9.5IV	06h26m37.7s	+15°31'25"	**15**
15	78395	Gem	**SHJ 70**		AB	6.65	8.18	25.2"	32.7"	203°	210°	2004	1782	K2III	06h27m46.5s	+20°47'22"	**15**
15	78423	Gem	**ν Gem**	OΣ 77	Aa-BC	4.1	8.01	111.6"	112.5"	331°	329°	2002	1876	B6IIIe	06h28m57.8s	+20°12'44"	**15**
15	78557	Gem	**HDS 910**			6.55	10.38	0.5"	0.5"	225°	225°	1991	1991	A3V	06h37m27.3s	+24°35'27"	**15**
15	78572	Gem	**HO 625**		AC	6.8	9.3	50.1"	46.2"	353°	351°	1983	1901		06h38m18.9s	+24°27'01"	**15**
15	78572	Gem			AB	6.8	11.9	13.4"		194°		1983	1901		06h38m18.9s	+24°27'01"	**15**
15	78636	Gem	**25 Gem**	HJ 397	AC	6.42	10.4	55.9"	55.7"	59°	57°	1999	1878		06h41m20.9s	+28°11'48"	**15**
15	78682	Gem	**ε Gem**	S 533		3.14	9.64	110.6"	111.6"	95°	93°	2002	1825	G8I	06h44m23s	+24 07'32"	**15**
15	96111	Gem	**OΣ 156**			6.8	7.1	0.4"		224°	342°	1992	1843	A2V	06h47m23.5s	+18°11'36"	**15**
15	78852	Gem	**OΣ 160**			6.66	9.92	1.3"	1"	188°	155°	1991	1843	K1III	06h54m21.3s	+21°09'40"	**15**
15	96265	Gem	**38 Gem**	Σ 982	AB	4.7	7.68	7.3"	5.7"	147°	179°	1990	1822	F0Vp	06h54m38.7s	+13°10'40"	**15**
15	96265	Gem		Σ 982	AC	4.7	10.3	118.4"	108.1"	328°	329°	1999	1907		06h54m38.7s	+13°10'40"	**15**
15	79031	Gem	**ζ Gem**	SHJ 77	AC	4.05	7.66	100.1"	91.9"	347°	351°	2005	1779		07h04m06.5s	+20°34'13"	**15**
15	79031	Gem		SHJ 77	AB	3.8	10.5	87.3"	65"	85°	85°	1997	1831	F7-G3Ib	07h04m06.5s	+20°34'13"	**15**
15	79294	Gem	**δ Gem**	Σ 1066		3.55	8.18	5.7"	6.5"	227°	184°	2005	1781	A9III K3V	07h20m07.4s	+21°58'56"	**15**
15	79375	Gem	**Σ 1083**			7.32	8.13	6.5"	6.3"	48°	46°	2005	1781	A5	07h25m35.3s	+20°29'42"	**15**
15	96888	Gem	**HO 346**			6.93	11.7	12.8"		58°		1891			07h25m54.1s	+18°08'51"	**15**
15	79401	Gem	**S 548**		AC	6.98	8.89	36.6"	35.6"	277°	276°	2006	1825		07h27m40.5s	+22°08'29"	**15**
15	79403	Gem	**63 Gem**	SHJ 368	Aa-C	5.28	10.7	134.6"	148.4"	221°	218°	1997	1894		07h27m44.3s	+21°26'42"	**15**
15	79403	Gem		SHJ 368	Aa-B	5.26	10.92	43"	50"	324°	325°	1997	1831		07h27m44.3s	+21°26'42"	**15**
15	79489	Gem	**Σ 1108**			6.62	8.21	11.7"	11.5"	180°	179°	2006	1827		07h32m50.6s	+22°53'15"	**15**
15	60198	Gem	**α Gem**	Σ 1110	AB	1.93	2.97	4.4"	5.5"	60°	270°	2006	1819	A1V A2Vm	07h34m35.8s	+31°53'17"	**15**
15	60198	Gem		Σ 1110	AC	1.93	9.83	71"	72.9"	164°	162°	2001	1822		07h34m35.8s	+31°53'17"	**15**
15	60198	Gem		Σ 1110	AD	1.93	10.07	185.2"	206.6"	222°	223°	1998	1902		07h34m35.8s	+31°53'17"	**15**
15	60198	Gem		Σ 1110	BC	2.9	8.7	70.1"	73.6"	167°	158°	2005	1830		07h34m35.8s	+31°53'17"	**15**
15	60204	Gem	**OΣ 175**		AB-C	5.46	10.39	82"	81.1"	194°	196°	2002	1893		07h35m08.8s	+30°57'39"	**15**
15	60204	Gem			AB	5.8	6.4	0.2"	0.5"	327°	334°	1993	1842	KOIII	07h35m08.8s	+30°57'39"	**15**
15	79653	Gem	**κ Gem**	OΣ 179		3.7	8.2	7.2"	6.3"	241°	225°	2002	1832	G8IIIa	07h44m26.8s	+24°23'52"	**15**
15	79703	Gem	**S 560**			6.97	9.79	88.9"	89.7"	359°	359°	2002	1825	K0III	07h48m28.8s	+28°45'51"	**15**
15	60380	Gem	**OΣ 89**			6.83	7.69	77"	76.7"	83°	83°	2004	1875	A6III-IV	07h51m00.2s	+31°36'48"	**15**
15	60379	Gem	**BLL 25**			6.03	10.2	78"	77.8"	147°	146°	1998	1879	A2m	07h51m02.3s	+33°14'01"	**15**
15	25963	Lyn	**Σ 958**		AB	6.28	6.34	4.6"	5.1"	257°	256°	2006	1821	dF5 dF6	06h48m12.3s	+55°42'14"	**15**
15	25963	Lyn			AC	6.28	10	175"		268°		2006	1990	dF5 dF6	06h48m12.3s	+55°42'14"	**15**
15	26023	Lyn	**OΣ 158**		AC	7	10.7	53.5"	56.2"	65°	63°	2000	1910		06h53m26.2s	+51°31'05"	**15**
15	26023	Lyn			AB	7	11.3	16.8"		304°		2000	1910		06h53m26.2s	+51°31'05"	**15**
15	26144	Lyn	**Σ 1009**		AB	6.87	7.01	4.3"	3.5"	148°	167°	2003	1782	A3Vs	07h05m39.8s	+52°45'30"	**15**
15	26144	Lyn			BC	6.87	11	179"		133°		2003	1879	A3Vs	07h05m39.8s	+52°45'30"	**15**
15	26312	Lyn	**19 Lyn**	Σ 1062	AB	5.76	6.71	15.1"	14.1"	315°	317°	2006	1782	B8V B9V	07h22m52.0s	+55°16'53"	**15**
15	26312	Lyn		Σ 1062	AD	5.76	7.57	215.3"	215.2"	6°	358°	2002	1833		07h22m52.0s	+55°16'53"	**15**
15	26312	Lyn		Σ 1062	BC	6.5	10.9	74.2"	74.2"	288°	287°	1999	1879	A	07h22m52.0s	+55°16'53"	**15**
15	41797	Lyn	**β 758**		AB-C	5.67	10.2	16.4"	16.9"	93°	94°	1999	1883		07h28m51.5s	+48°11'02"	**15**
15	41797	Lyn		KUI 30	AB	5.69	9.87	1.1"	1"	94°	90°	1999	1934	B9pHgMn	07h28m51.5s	+48°11'02"	**15**
15	41808	Lyn	**22 Lyn**	ENG 31	AB	5.41	10.09	179.7"	165.9"	304°	304°	2005	1888	F6V	07h29m56.0s	+49°40'20"	**15**
15	26407	Lyn	**HDS 1069**			6.65	9.45	0.7"	0.8"	142°	133°	1991	1991	K0	07h33m51.5s	+51°18'51"	**15**
15	41877	Lyn	**OΣ 174**			6.62	8.26	2.1"	1.6"	89°	83°	2003	1843	F0	07h35m56.0s	+43°01'51"	**15**
15	60611	Lyn	**HJ 3308**		AB	6.61	10.4	54.9"	40"	275°	235°	1943	1832	F8	08h10m11.6s	+35°27'16"	**15**
15	42242	Lyn	**OΣ 189**			6.87	10.73	4.3"	3.8"	295°	294°	1999	1843	A2IV	08h14m49.0s	+43°02'06"	**15**
15	42342	Lyn	**S 565**		AB	6.2	8.56	83.9"	73"	176°	165°	2004	1824	K5III	08h24m42.8s	+42°00'19"	**15**
15	113810	Mon	**ε Mon**	Σ 900	AB	4.42	6.64	12.1"	12.5"	29°	29°	2004	1781	A5IV F5V	06h23m46.1s	+04°35'34"	**15**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
15	133215	Mon	**β 97**			6.77	9.14	0.8"	1"	272°	260°	1995	1873	B8V	06h24m33.9s	-01°25'06"	**15**
15	113940	Mon	**BAL 1695**			6.16	10.4	19.1"	19.7"	300°	295°	1999	1910	M1	06h29m14.8s	+02°38'46"	**15**
15	95766	Mon	**Σ 921**			6.12	9.09	16"	16.9"	3°	5°	2003	1825	B2V:nne	06h31m09.6s	+11°15'05"	**15**
15	114010	Mon	**GAN 3**		AE	6.9	9.6	13.1"	13.3"	198°	198°	2002	1876		06h31m55.5s	+04°56'34"	**15**
15	95803	Mon	**OΣ 146**			6.17	9.89	30.6"	33.3"	139°	143°	2002	1867	K0III	06h32m23.3s	+11°40'24"	**15**
15	114085	Mon	**14 Mon**	Σ 938		6.45	10.6	10.8"	10.3"	209°	207°	1999	1831	A0Vs	06h34m46.3s	+07°34'21"	**15**
15	114258	Mon	**15 Mon**	Σ 950	Aa,B	4.64	7.79	2.9"	2.7"	214°	205°	2002	1825		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,C	4.64	9.9	16.6"	16.6"	14°	13°	2002	1831		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,D	4.64	9.7	40.8"	40"	310°	308°	2002	1841		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,E	4.64	8.86	74.1"	75.7"	140°	139°	2002	1863		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,F	4.64	9	156"	155.8"	222°	221°	2002	1874		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,G	4.64	10.01	188.2"	188.2"	230°	230°	1983	1983		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,H	4.64	9.81	88.9"	89.7"	168°	166°	2002	1897		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,K	4.64	8.2	105.7"	106.2"	56°	56°	2002	1897		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,M	4.64	9.75	178.7"	178.2"	104°	103°	2002	1874		06h40m58.7s	+09°53'45"	**15**
15	114258	Mon		Σ 950	Aa,O	4.64	9.7	136.6"	135.3"	261°	260°	1999	1897		06h40m58.7s	+09°53'45"	**15**
15	96294	Mon	**HDS 960**			5.93	9.2	0.7"	0.7"	207°	206°	2003	1991	B8Vn	06h56m25.8s	+09°57'24"	**15**
15	134073	Mon	**KUI 28**			6.34	10.11	24.3"	24"	252°	245°	2003	1929	K0	07h01m52.9s	-01°20'45"	**15**
15	114867	Mon	**OΣ 82**			6.54	7.62	89.9"	90.4"	320°	318°	2004	1876	A0V	07h04m20.2s	+01°29'19"	**15**
15	134282	Mon	**20 Mon**	ENG 29	AC	4.92	9.9	167.9"	190.6"	337°	340°	2003	1886		07h10m13.7s	-04°14'12"	**15**
15	134391	Mon	**A 524**			6.14	10.17	2.7"	2.9"	152°	148°	1991	1903	M1III	07h14m10.8s	-03°54'06"	**15**
15	135190	Mon	**Σ 1154**			7.13	9.26	2.8"	2.3"	354°	358°	2000	1827	A5	07h52m08.4s	-03°03'15"	**15**
15	135551	Mon	**ζ Mon**	Σ 1190	AC	4.46	9.68	64.7"	66.5"	247°	243°	2002	1821		08h08m35.6s	-02°59'02"	**15**
15	135551	Mon		Σ 1190	AB	4.34	10.1	33"	29.9"	105°	105°	1998	1782	G2Ib	08h08m35.6s	-02°59'02"	**15**
15	94746	Ori	**Σ 766**			7	8.36	10.1"	9.9"	275°	276°	2004	1825	F0	05h40m18.9s	+15°21'00"	**15**
15	132444	Ori	**ζ Ori**	Σ 774	Aa,B	1.88	3.7	2.6"	2.3"	166°	152°	2002	1822	O9.5Ibe	05h40m45.5s	-01°56'33"	**15**
15	132444	Ori		Σ 774	Aa,C	1.88	9.55	57.3"	60"	10°	7°	2003	1781		05h40m45.5s	-01°56'33"	**15**
15	132444	Ori		Σ 774	BC	4.2	8.5	59.8"	59.8"	8°	8°	2002	1909	B0	05h40m45.5s	-01°56'33"	**15**
15	113099	Ori	**Σ 789**		AB	6.13	10.17	14.3"	18"	149°	155°	1999	1831	gF0n	05h45m01.8s	+04°00'29"	**15**
15	132515	Ori	**Σ 790**			6.43	8.98	7.1"	7.7"	89°	87°	2003	1825		05h46m02.9s	-04°16'07"	**15**
15	113150	Ori	**52 Ori**	Σ 795		5.99	6.03	1.1"	1.7"	216°	201°	2003	1824	A5V	05h48m00.2s	+06°27'15"	**15**
15	94868	Ori	**β 561**		AC	6.68	9.2	77.5"	76.5"	35°	34°	1997	1909		05h48m02.1s	+12°25'06"	**15**
15	113179	Ori	**HEI 670**			5.97	8.36	1.1"	1"	272°	272°	2006	1990	G8III	05h50m02.7s	+09°52'16"	**15**
15	94990	Ori	**HO 20**		AC	6.75	11	49"	50.2"	293°	287°	1998	1886		05h54m55.2s	+14°13'11"	**15**
15	113267	Ori	**Σ 816**			6.9	9.27	4.3"	4.3"	289°	289°	2002	1830	B9	05h54m55.5s	+05°51'39"	**15**
15	95004	Ori	**S 503**		AB	6.67	8.41	76"	39.9"	322°	134°	2002	1825	G5IV	05h56m03.6s	+13°55'26"	**15**
15	95004	Ori			AC	6.6	11	55.3"	28.1"	310°	157°	2001	1878		05h56m03.6s	+13°55'26"	**15**
15	113296	Ori	**β 1190**		AB	6.95	9.81	1.4"	1.4"	331°	340°	1991	1890	A0V	05h57m25.3s	+00°01'39"	**15**
15	113315	Ori	**59 Ori**	H 5 100	AB	5.91	10.44	36.5"	37.3"	206°	205°	1999	1782	A5m	05h58m24.4s	+01°50'14"	**15**
15	113507	Ori	**Σ 855**		AB	5.68	6.68	29.1"	29.2"	114°	113°	2005	1824	A3Vn A0V	06h08m57.9s	+02°29'59"	**15**
15	113507	Ori			AC	5.68	9.68	118.5"	119"	107°	106°	2002	1910		06h08m57.9s	+02°29'59"	**15**
15	113507	Ori			BC	6.68	9.68	89.7"	89.8"	105°	104°	2002	1910		06h08m57.9s	+02°29'59"	**15**
15	95359	Ori	**68 Ori**	H 6 72	Aa-B	5.74	9.36	89.9"	85.3"	205°	216°	2002	1895		06h12m01.3s	+19°47'26"	**15**
15	113675	Ori	**75 Ori**	β 96	Aa-B	5.4	10.1	62.8"	62.9"	262°	256°	1999	1892	A2	06h17m06.6s	+09°56'32"	**15**
15	113675	Ori		β 96	Aa-C	5.4	10.08	114.6"	120"	349°	160°	2002	1873	A2	06h17m06.6s	+09°56'32"	**15**
15	113675	Ori		J 408	AD	5.4	10.9	116.8"	116.8"	162°	162°	1985	1985		06h17m06.6s	+09°56'32"	**15**
15	113683	Ori	**ENG 26**		AB	5.77	9.99	179.7"	191.9"	241°	248°	2002	1891	F9V	06h17m16.0s	+05°06'02"	**15**
15	95534	Ori	**OΣ 73**		AB	6.94	7.74	72.1"	73.3"	44°	44°	2004	1875	F6V K1V	06h19m25.4s	+13°26'02"	**15**
15	77322	Tau	**Σ 749**		AB	6.54	6.55	1.2"	0.7"	322°	204°	2006	1829	B9IV-V	05h37m08.9s	+26°55'28"	**15**
15	77322	Tau			AC	5.7	10.5	178.1"	177.4"	300°	303°	1959	1900		05h37m08.9s	+26°55'28"	**15**
15	77578	Tau	**OΣ 67**		AB-C	6.01	8.29	75.1"	80"	162°	163°	2002	1843		05h48m22.4s	+20°52'10"	**15**
15	77578	Tau		OΣ 118		6.1	7.6	0.2"	0.6"	315°	318°	1990	1843	B9Vn	05h48m22.4s	+20°52'10"	**15**
15	94914	Tau	**KU 23**			6.97	8.59	0.8"	1"	107°	104°	1991	1902	B9	05h50m48.7s	+14°26'36"	**15**

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16	57548	Aur	**ω Aur**	Σ 616		5	8.21	4.7"	6.3"	3°	356°	2004	1822	A1V	04h59m15.4s	+37°53'24"	**16**
16	57559	Aur	**5 Aur**	OΣ 92	AB	6.02	9.5	4.1"	2.7"	281°	227°	2002	1843		05h00m18.3s	+39°23'41"	**16**
16	25019	Aur	**9 Aur**	H 6 35	AC	5.01	9.99	89.9"	90.1"	62°	61°	2002	1888		05h06m40.6s	+51°35'51"	**16**
16	40052	Aur	**OΣ 96**			6.6	11.1	21"		104°					05h09m04.4s	+49°07'19"	**16**
16	76989	Aur	**OΣ 61**			6.72	8.49	68.4"	69.1"	245°	244°	1998	1874	F8V	05h09m43.7s	+29°47'55"	**16**
16	57704	Aur	**Σ 644**		AB	6.96	6.78	1.6"	1.6"	222°	219°	2006	1828	B2II+K3	05h10m18.8s	+37°18'07"	**16**
16	57704	Aur		VBS 10	AC	6.96	10.48	72.1"	70.4"	192°	195°	2005	1895		05h10m18.8s	+37°18'07"	**16**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
16	57754	Aur	**SEI 105**			6.48	11	16.8"	16.8"	354°	354°	1895	1895	F6V	05h13m17.4s	+37°20'13"	**16**
16	57799	Aur	**14 Aur**	Σ 653	AC	5.03	7.33	15"	16.1"	227°	232°	2006	1780	F3V	05h15m24.4s	+32°41'15"	**16**
16	57799	Aur		Σ 653	AB	5.03	9	9.8"	12.6"	9°	342°	2004	1830	A9IV	05h15m24.4s	+32°41'15"	**16**
16	57799	Aur		Σ 653	AD	5.03	10.75	181.4"	184.5"	322°	320°	1998	1880		05h15m24.4s	+32°41'15"	**16**
16	40233	Aur	**λ Aur**	Σ 3	AD	4.76	9.7	203.4"	102.1"	349°	35°	2003	1825		05h19m08.7s	+40°05'52"	**16**
16	40233	Aur		DOB 4	AE	4.76	10.1	174.8"	193.9"	34°	82°	2003	1825		05h19m08.7s	+40°05'52"	**16**
16	40251	Aur	**Σ 681**			6.61	9.21	23.3"	23.4"	181°	181°	2004	1831	A2V+GIII	05h20m39.2s	+46°57'50"	**16**
16	57999	Aur	**Σ 698**		AB	6.65	8.33	31.2"	31.1"	347°	346°	2004	1831	K2III	05h25m12.9s	+34°51'18"	**16**
16	58065	Aur	**S 483**		AB	6.47	9.16	106.7"	87.6"	43°	59°	2003	1825	F5	05h28m00.9s	+33°45'48"	**16**
16	58065	Aur			AD	6.6	10.1	113.6"	106.6"	321°	317°	1940	1891		05h28m00.9s	+33°45'48"	**16**
16	58105	Aur	**HU 217**	LY Aur		7.17	8.35	0.6"	0.6"	253°	257°	2004	1900	O9.5III	05h29m42.7s	+35°22'30"	**16**
16	58129	Aur	**OΣ 63**			6.49	7.69	75.9"	75.1"	277°	274°	1998	1874	G9III	05h30m45.1s	+39°49'33"	**16**
16	58280	Aur	**26 Aur**	Σ 753	AB-C	5.46	8.41	12.3"	13.4"	269°	273°	2005	1783	A2	05h38m38.1s	+30°29'33"	**16**
16	25319	Aur	**ENG 22**		AB	6.29	9.84	98.8"	97.5"	70°	71°	2002	1891	K1V M1	05h41m20.3s	+53°28'48"	**16**
16	77393	Aur	**Σ 764**			6.38	7.08	26.1"	25.9"	15°	14°	2004	1831	B8IV	05h41m21.0s	+29°29'15"	**16**
16	58359	Aur	**HO 509**			6.91	11.8	11.5"		204°		1897			05h42m58.3s	+33°18'52"	**16**
16	58520	Aur	**Σ 799**			7.3	8.26	0.7"	1.1"	163°	193°	2006	1829	B8	05h52m13.9s	+38°33'36"	**16**
16	58535	Aur	**β 1053**			6.91	8.83	1.8"	0.4"	358°	283°	2002	1889	F5	05h53m28.6s	+37°20'21"	**16**
16	58636	Aur	**θ Aur**	OΣ 545	AB	2.7	7.2	3.8"	2.1"	308°	7°	2004	1871	A0pSi	05h59m43.3s	+37°12'45"	**16**
16	58636	Aur		OΣ 545	AC	2.7	10.7	54"	35"	300°	286°	1998	1782		05h59m43.3s	+37°12'45"	**16**
16	58636	Aur		OΣ 545	AD	2.6	10.1	135.3"	123.3"	351°	351°	2002	1840		05h59m43.3s	+37°12'45"	**16**
16	40769	Aur	**H 6 91**		AC	6.35	10.28	35.6"	30"	345°	315°	2000	1783		06h00m18.9s	+44°35'31"	**16**
16	40769	Aur		β 1055	AB	6.2	11	1.7"	1.6"	324°	333°	1953	1888		06h00m18.9s	+44°35'31"	**16**
16	25548	Aur	**OΣ 128**		A-BC	6.41	9.26	40"	35"	14°	14°	2003	1830	A7III	06h04m29.1s	+51°34'24"	**16**
16	40844	Aur	**ES 1234**		AB	6.79	10.9	10.3"	9.8"	270°	267°	2000	1913	O8Vn	06h05m52.5s	+48°14'57"	**16**
16	58739	Aur	**ENG 25**			6.19	10.1	148.5"	116"	18°	15°	1999	1892	G0V	06h06m08.5s	+35°23'14"	**16**
16	77958	Aur	**OΣ 129**			6.24	10.49	9.5"	9.6"	211°	208°	1998	1848	M3III	06h06m22.5s	+29°30'45"	**16**
16	58762	Aur	**OΣ 131**			7.04	9.45	1.5"	1.4"	282°	283°	1991	1843	B9II	06h07m25.8s	+36°16'29"	**16**
16	40925	Aur	**41 Aur**	Σ 845		6.16	6.86	7.6"	8.5"	357°	350°	2006	1783	A1V A6V	06h11m36.6s	+48°42'39"	**16**
16	58905	Aur	**Σ 872**		AB	6.89	7.38	11.4"	11.7"	216°	216°	2005	1825	F4IV	06h15m39.0s	+36°08'55"	**16**
16	59230	Aur	**OΣ 147**		AB	6.77	8.69	43.5"	43.8"	75°	73°	2003	1843	K0	06h34m19.4s	+38°04'34"	**16**
16	59230	Aur			A-CD	6.77	9.85	46.4"	46.1"	119°	116°	2004	1849		06h34m19.4s	+38°04'34"	**16**
16	41232	Aur	**Σ 941**		AB	7.25	8.17	1.8"	2"	83°	76°	2004	1783	B9	06h38m40.8s	+41°34'53"	**16**
16	41232	Aur			AC	7.25	10.48	83.9"	82.1"	135°	133°	2004	1822		06h38m40.8s	+41°34'53"	**16**
16	41305	Aur	**OΣ 154**			7.06	9.68	26"	30.7"	88°	138°	2004	1843	M4III	06h44m17.4s	+40°37'21"	**16**
16	41330	Aur	**ψ 5 Aur**	SHJ 75	AB	5.31	8.65	31.1"	53"	38°	17°	1998	1782	G0V	06h46m44.3s	+43°34'40"	**16**
16	24391	Cam	**HO 221**		AB	6.6	10.1	4.8"	4.6"	96°	96°	2002	1888	F7V	04h04m37.0s	+55°03'59"	**16**
16	24391	Cam			AC	6.6	10.4	136.2"		277°		2002	1888	F7V	04h04m37.0s	+55°03'59"	**16**
16	24672	Cam	**1 Cam**	Σ 550	AB	5.78	6.82	10.6"	12"	308°	299°	2006	1800	B0III	04h32m01.8s	+53°54'39"	**16**
16	24744	Cam	**2 Cam**	Σ 566	AB-C	5.56	7.49	0.8"	1.5"	183°	312°	2005	1828		04h39m58.1s	+53°28'22"	**16**
16	24929	Cam	**7 Cam**	D 5	AB	4.49	7.9	0.5"	1.2"	213°	129°	2000	1865	A1V	04h57m17.2s	+53°45'08"	**16**
16	24929	Cam		Σ 610		4.47	11.3	25.8"		240°				AIV	04h57m17.2s	+53°45'08"	**16**
16	130746	Eri	**RST 4760**			6.74	9.32	0.9"	0.6"	288°	282°	1991	1943	G5	03h49m19.2s	-01°27'12"	**16**
16	130762	Eri	**β 401**		AB	6.54	10.51	4.2"	4.7"	254°	255°	2000	1877	F2	03h50m16.2s	-01°31'21"	**16**
16	130762	Eri			AC	6.47	11.2	40.6"		289°		1913			03h50m16.2s	-01°31'21"	**16**
16	130780	Eri	**ENG 15**			6.76	10.24	97.8"	95.2"	155°	154°	2002	1886	B9	03h52m08.7s	-01°08'56"	**16**
16	131063	Eri	**32 Eri**	Σ 518	A-BC	4.43	9.7	83"	89.2"	104°	108°	2002	1783	G9V	03h54m17.5s	-02°57'17"	**16**
16	131063	Eri		Σ 518	B-C	9.52	11.17	8.9"	3.9"	338°	157°	1994	1851	DA	03h54m17.5s	-02°57'17"	**16**
16	131279	Eri	**H 6 64**	DZ Eri		5.73	10.44	122.5"	125.8"	117°	117°	2003	1894	B9III	04h32m37.6s	-03°12'34"	**16**
16	131344	Eri	**Σ 571**		AB	6.33	10.72	17.7"	15"	259°	261°	1999	1830	B7III	04h36m01.7s	-03°36'42"	**16**
16	78050	Gem	**3 Gem**	β 1241	AB	5.9	8.48	0.6"	0.5"	346°	345°	2003	1891	B2.5Ibe	06h09m44.0s	+23°06'48"	**16**
16	78135	Gem	**η Gem**	β 1008		3.52	6.15	1.8"	1.1"	259°	300°	2004	1881	M3.5I-II	06h15m	+22 30'	**16**
16	78225	Gem	**H 5 55**		AB	6.95	8.7	58.3"	59.6"	88°	87°	2002	1899	B1III	06h19m22.5s	+23°16'28"	**16**
16	78225	Gem			AC	6.95	9.6	62.2"	62.8"	59°	59°	2000	1903		06h19m22.5s	+23°16'28"	**16**
16	95602	Gem	**Σ 899**			7.41	8.01	2.2"	2.4"	18°	20°	2001	1831	A0V	06h22m49.6s	+17°34'27"	**16**
16	26023	Lyn	**OΣ 158**		AC	7	10.7	53.5"	56.2"	65°	63°	2000	1910		06h53m26.2s	+51°31'05"	**16**
16	26023	Lyn			AB	7	11.3	16.8"		304°		2000	1910		06h53m26.2s	+51°31'05"	**16**
16	26144	Lyn	**Σ 1009**		AB	6.87	7.01	4.3"	3.5"	148°	167°	2003	1782	A3Vs	07h05m39.8s	+52°45'30"	**16**
16	26144	Lyn			BC	6.87	11	179"		133°		2003	1879	A3Vs	07h05m39.8s	+52°45'30"	**16**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
16	94171	Ori	**β 552**		AB	6.41	8.89	0.6"	0.8"	244°	0°	2004	1877	dF6	04h51m50.0s	+13°39'18"	16
16	94201	Ori	**π 1 Ori**	ENG 19	AB	4.66	8.95	171.8"	171.8"	254°	248°	2002	1887	A0V	04h54m53.7s	+10°09'02"	16
16	112205	Ori	**OΣ 90**		AB	7.04	9	1.8"	2"	339°	347°	1996	1845	A0	04h54m56.4s	+08°36'00"	16
16	131640	Ori	**HJ 689**			6.35	10.9	21"	20.7"	278°	276°	1998	1880	A2V	04h58m10.9s	-02°12'46"	16
16	131645	Ori	**HDS 644**			7.12	10.4	0.8"	0.6"	323°	103°	2001	1991	F5	04h58m26.2s	-03°43'58"	16
16	94240	Ori	**SHJ 49**		AB	6.06	7.43	40.3"	42"	305°	303°	2006	1777	B7V	04h58m59.4s	+14°32'36"	16
16	94240	Ori			AC	6.06	9.6	53.3"	70"	89°	88°	2002	1831	B7V	04h58m59.4s	+14°32'36"	16
16	94240	Ori			BC	7.43	10.4	88.4"	104.2"	104°	101°	2002	1831		04h58m59.4s	+14°32'36"	16
16	112305	Ori	**Σ 627**			6.59	6.95	21.8"	21.3"	260°	260°	2006	1831	B9Vn B9Vn	05h00m33.9s	+03°36'56"	16
16	112340	Ori	**Σ 630**		A-BC	6.5	7.71	14.8"	13.7"	50°	53°	2006	1783	B8V	05h02m00.0s	+01°36'32"	16
16	112340	Ori		A 2630	AD	6.49	10.39	131.3"	131.2"	101°	99°	2002	1909		05h02m00.0s	+01°36'32"	16
16	131731	Ori	**J 307**		AB	6.85	9.28	53.3"	52.2"	320°	322°	2002	1891	G9III	05h03m42.9s	-02°32'24"	16
16	112436	Ori	**13 Ori**	OΣ 561	AB	6.25	9.89	123.4"	128.2"	281°	255°	2003	1852	G1IV	05h07m38.3s	+09°28'16"	16
16	112440	Ori	**14 Ori**	OΣ 98		5.76	6.67	0.8"	0.8"	305°	260°	2006	1843	Am	05h07m52.9s	+08°29'54"	16
16	112467	Ori	**16 Ori**	BUP 75	AC	5.43	9.9	172"	169.5"	229°	228°	1999	1897		05h09m19.7s	+09°49'46"	16
16	112509	Ori	**Σ 652**			6.26	7.44	1.6"	1.7"	180°	184°	2003	1830	A+G2:III	05h11m45.4s	+01°02'13"	16
16	112528	Ori	**ρ Ori**	Σ 654	AB	4.62	8.5	6.9"	7.1"	64°	62°	2004	1825	K2II	05h13m17.5s	+02°51'41"	16
16	112535	Ori	**OΣ 517**		AB	6.79	6.99	0.7"	0.7"	241°	277°	2004	1854	A5V	05h13m31.6s	+01°58'04"	16
16	112697	Ori	**23 Ori**	Σ 696		4.95	6.76	32.1"	32.8"	28°	31°	2005	1782	B1V	05h22m50.0s	+03°32'40"	16
16	132060	Ori	**WNC 2**		A-BC	6.87	6.96	3"	1.6"	159°	174°	2003	1863	F6V	05h23m51.3s	-00°52'00"	16
16	132071	Ori	**η Ori**	DA 5	Aa-B	3.56	4.87	1.7"	0.9"	78°	87°	2003	1848	B1V+B2e	05h24m28.6s	-02°23'49"	16
16	132071	Ori		H 6 67	Aa-C	3.4	9.4	115.1"	111"	51°	55°	1998	1783	B1V+B2e	05h24m28.6s	-02°23'49"	16
16	112734	Ori	**25 Ori**	S 479		4.89	8.1	158.4"		215°		1825			05h24m44.8s	+01°50'47"	16
16	112775	Ori	**ψ Ori**	KNT 3	AB	4.57	8.62	2.9"	2.8"	327°	322°	1991	1863	B2IV	05h26m50.2s	+03°05'44"	16
16	112849	Ori	**32 Ori**	Σ 728		4.44	5.75	1"	1.5"	42°	218°	2006	1780	B5V	05h30m47.1s	+05°56'53"	16
16	112861	Ori	**33 Ori**	Σ 729	AB	5.71	6.74	1.8"	0.7"	28°	29°	2006	1781	B1.5V	05h31m14.5s	+03°17'32"	16
16	132220	Ori	**δ Ori**	Σ 14	Aa-C	2.41	6.83	53.3"	50"	1°	0°	2004	1777	B4	05h32m00.4s	-00°17'57"	16
16	132234	Ori	**β 1048**			5.3	9.8	2"	1.5"	355°	357°	1953	1872	B1IV	05h32m41.4s	-01°35'31"	16
16	132247	Ori	**Σ 734**		AB	6.67	8.22	1.5"	1.8"	356°	356°	2003	1832	B4Vn	05h33m07.3s	-01°43'02"	16
16	132247	Ori			AC	6.67	8.35	29.6"	30.2"	244°	248°	2004	1783		05h33m07.3s	-01°43'02"	16
16	132269	Ori	**H 118**			6.22	11.2	28"	27.5"	264°		1977	1901	B2.5V	05h34m03.9s	-01°02'09"	16
16	112921	Ori	**λ Ori**	Σ 738	AB	3.51	5.45	4.3"	5.8"	44°	45°	2005	1779	O8 B0.5V	05h35m08.3s	+09°56'03"	16
16	112921	Ori		Σ 738	AC	3.7	10.72	28.5"	27"	184°	184°	2005	1830		05h35m08.3s	+09°56'03"	16
16	112921	Ori		Σ 738	AD	3.51	9.63	78.1"	78.4"	271°	271°	2005	1905		05h35m08.3s	+09°56'03"	16
16	112921	Ori		Σ 738	BC	5.6	10.72	31.9"	30.5"	189°	189°	2005	1830		05h35m08.3s	+09°56'03"	16
16	94671	Ori	**OΣ 111**			5.65	9.68	2.8"	2.9"	351°	353°	2003	1847	B9IIIp	05h35m13.2s	+10°14'24"	16
16	132332	Ori	**RST 4281**			6.39	10.52	1"	1.1"	352°	352°	1991	1940	B3IV	05h35m35.9s	-03°15'10"	16
16	132406	Ori	**σ Ori**	Σ 762	AB,D	3.76	6.56	12.7"	13.4"	84°	85°	2002	1779		05h38m44.8s	-02°36'00"	16
16	132406	Ori		Σ 762	AB,C	3.73	8.79	11.5"	11.6"	238°	235°	2002	1831		05h38m44.8s	-02°36'00"	16
16	132406	Ori		Σ 762	AB,E	3.76	6.34	41.5"	37"	62°	55°	2003	1777	B2V	05h38m44.8s	-02°36'00"	16
16	132406	Ori		Σ 762	EC	6.66	8.8	53.2"	52.3"	241°	240°	2002	1831		05h38m44.8s	-02°36'00"	16
16	132406	Ori		Σ 762	ED	6.66	7.9	29.5"	31.4"	232°	231°	2002	1779	B2Vp	05h38m44.8s	-02°36'00"	16
16	94746	Ori	**Σ 766**			7	8.36	10.1"	9.9"	275°	276°	2004	1825	F0	05h40m18.9s	+15°21'00"	16
16	132444	Ori	**ζ Ori**	Σ 774	Aa,B	1.88	3.7	2.6"	2.3"	166°	152°	2002	1822	O9.5Ibe	05h40m45.5s	-01°56'33"	16
16	132444	Ori		Σ 774	Aa,C	1.88	9.55	57.3"	60"	10°	7°	2003	1781		05h40m45.5s	-01°56'33"	16
16	132444	Ori		Σ 774	BC	4.2	8.5	59.8"	59.8"	8°	8°	2002	1909	B0	05h40m45.5s	-01°56'33"	16
16	113099	Ori	**Σ 789**		AB	6.13	10.17	14.3"	18"	149°	155°	1999	1831	gF0n	05h45m01.8s	+04°00'29"	16
16	132515	Ori	**Σ 790**			6.43	8.98	7.1"	7.7"	89°	87°	2003	1825		05h46m02.9s	-04°16'07"	16
16	113150	Ori	**52 Ori**	Σ 795		5.99	6.03	1.1"	1.7"	216°	201°	2003	1824	A5V	05h48m00.2s	+06°27'15"	16
16	94868	Ori	**β 561**		AC	6.68	9.2	77.5"	76.5"	35°	34°	1997	1909		05h48m02.1s	+12°25'06"	16
16	113179	Ori	**HEI 670**			5.97	8.36	1.1"	1"	272°	272°	2006	1990	G8III	05h50m02.7s	+09°52'16"	16
16	94990	Ori	**HO 20**		AC	6.75	11	49"	50.2"	293°	287°	1998	1886		05h54m55.2s	+14°13'11"	16
16	113267	Ori	**Σ 816**			6.9	9.27	4.3"	4.3"	289°	289°	2002	1830	B9	05h54m55.5s	+05°51'39"	16
16	95004	Ori	**S 503**		AB	6.67	8.41	76"	39.9"	322°	134°	2002	1825	G5IV	05h56m03.6s	+13°55'26"	16
16	95004	Ori			AC	6.6	11	55.3"	28.1"	310°	157°	2001	1878		05h56m03.6s	+13°55'26"	16
16	113296	Ori	**β 1190**		AB	6.95	9.81	1.4"	1.4"	331°	340°	1991	1890	A0V	05h57m25.3s	+00°01'39"	16
16	113315	Ori	**59 Ori**	H 5 100	AB	5.91	10.44	36.5"	37.3"	206°	205°	1999	1782	A5m	05h58m24.4s	+01°50'14"	16
16	113507	Ori	**Σ 855**		AB	5.68	6.68	29.1"	29.2"	114°	113°	2005	1824	A3Vn A0V	06h08m57.9s	+02°29'59"	16
16	113507	Ori			AC	5.68	9.68	118.5"	119"	107°	106°	2002	1910		06h08m57.9s	+02°29'59"	16
16	113507	Ori			BC	6.68	9.68	89.7"	89.8"	105°	104°	2002	1910		06h08m57.9s	+02°29'59"	16
16	95359	Ori	**68 Ori**	H 6 72	Aa-B	5.74	9.36	89.9"	85.3"	205°	216°	2002	1895		06h12m01.3s	+19°47'26"	16
16	113675	Ori	**75 Ori**	β 96	Aa-B	5.4	10.1	62.8"	62.9"	262°	256°	1999	1892	A2	06h17m06.6s	+09°56'32"	16
16	113675	Ori		β 96	Aa-C	5.4	10.08	114.6"	120"	349°	160°	2002	1873	A2	06h17m06.6s	+09°56'32"	16
16	113675	Ori		J 408	AD	5.4	10.9	116.8"	116.8"	162°	162°	1985	1985		06h17m06.6s	+09°56'32"	16

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
16	113683	Ori	**ENG 26**		AB	5.77	9.99	179.7"	191.9"	241°	248°	2002	1891	F9V	06h17m16.0s	+05°06'02"	**16**
16	95534	Ori	**Ο Σ 73**		AB	6.94	7.74	72.1"	73.3"	44°	44°	2004	1875	F6V K1V	06h19m25.4s	+13°26'02"	**16**
16	23763	Per	**Σ 331**			5.21	6.17	11.9"	13.5"	85°	81°	2002	1800	B7V B9V	03h00m52.2s	+52°21'06"	**16**
16	23907	Per	**HU 544**			6.72	8.2	1.6"	0.6"	102°	98°	2006	1902	A0	03h15m48.7s	+50°57'21"	**16**
16	38700	Per	**Σ 369**			6.83	7.72	3.6"	4.4"	29°	25°	2006	1828	B9VpSi	03h17m11.5s	+40°28'58"	**16**
16	56419	Per	**Σ 382**		AB	5.8	9.25	4.8"	3.6"	153°	155°	2002	1831	A0V	03h24m29.7s	+33°32'09"	**16**
16	38872	Per	**34 Per**	β 1179		4.72	7.34	0.7"	0.7"	147°	163°	1999	1890	B3V	03h29m22.1s	+49°30'32"	**16**
16	38874	Per	**Ο Σ 55**		AB	6.24	10.8	31"	28.1"	296°	289°	1999	1843	B7V	03h29m26.3s	+46°56'16"	**16**
16	38908	Per	**Ο Σ 56**		AB	6.76	10.67	32.1"	22.9"	352°	351°	2002	1843	B8V	03h31m33.1s	+47°51'45"	**16**
16	56559	Per	**Σ 410**	IX Per		6.6	10.6	5.2"	5.4"	213°	209°	2005	1831	F5V	03h35m01.2s	+32°01'00"	**16**
16	56569	Per	**β 533**			6.86	7.81	1.1"		42°		1991			03h35m37.9s	+31°40'50"	**16**
16	56613	Per	**Σ 425**			6.82	7.7	1.99"		70°					03h40m07.2s	+34°06'59"	**16**
16	56646	Per	**40 Per**	Σ 431		4.97	10.04	25.6"	19.8"	249°	237°	2001	1828	B1.5IV	03h42m22.6s	+33°57'54"	**16**
16	56650	Per	**HJ 336**			6.67	10.1	44"	35.6"	324°	317°	1999	1899	F5IV	03h42m27.7s	+32°56'21"	**16**
16	56673	Per	**o Per**	β 535		3.91	6.7	1"	1"	24°	61°	2004	1877	B1III	03h44m19.1s	+32°17'18"	**16**
16	56799	Per	**ζ Per**	Σ 464	AB	2.85	9.16	12.7"	13.3"	208°	205°	2003	1824	B1Ib	03h44m19.1s	+32°17'18"	**16**
16	56799	Per		Σ 464	AD	2.86	10.44	98"	71.4"	196°	195°	2003	1782		03h44m19.1s	+32°17'18"	**16**
16	56799	Per		Σ 464	AE	2.86	9.96	120.4"	119.1"	186°	185°	2003	1825		03h44m19.1s	+32°17'18"	**16**
16	56709	Per	**Σ 448**			6.68	9.36	3.4"	3.3"	13°	19°	2006	1831	B2.5V	03h47m52.7s	+33°36'00"	**16**
16	24231	Per	**Ο Σ 63**			6.2	11.2	7"		270°		1848		B8Vne	03h48m18.1s	+50°44'12"	**16**
16	24248	Per	**Σ 446**		AB	6.86	9.9	8.7"	8.5"	254°	253°	2002	1830	B0.5III	03h49m27.6s	+52°39'19"	**16**
16	56735	Per	**ES 277**			6.77	9.8	30.2"		142°					03h50m13.3s	+34°49'12"	**16**
16	24300	Per	**HDS 494**			6.91	9.82	0.7"	0.7"	178°	178°	1999	1991	O9IV-V	03h55m38.4s	+52°38'29"	**16**
16	39212	Per	**Σ 469**			6.9	9.92	8.6"	9.2"	146°	149°	2006	1828	A2	03h57m16.3s	+41°52'50"	**16**
16	56866	Per	**Ο Σ 69**			6.6	9.13	1.5"	1.7"	325°	324°	1997	1849	A1Vp:	03h59m40.0s	+38°49'13"	**16**
16	56973	Per	**Ο Σ 71**	AG Per	AB	6.86	8.66	0.8"	0.9"	227°	198°	1998	1846	B3V B5V:	04h06m55.8s	+33°26'47"	**16**
16	57216	Per	**56 Per**	Ο Σ 81	AB	5.84	9.25	4.4"	4.3"	17°	48°	2002	1847	F4IV-V	04h24m37.5s	+33°57'34"	**16**
16	57278	Per	**Σ 552**			6.78	7.18	9.2"	9.3"	115°	114°	2006	1828	B8V	04h31m24.1s	+40°00'37"	**16**
16	39604	Per	**57 Per**	SHJ 44	AB	6.12	6.83	120.5"	96.4"	198°	198°	2003	1783	F0V	04h33m24.9s	+43°03'50"	**16**
16	75970	Tau	**Σ 401**			6.58	6.93	11.6"	11.1"	270°	270°	2006	1830	A2V	03h31m20.8s	+27°34'18"	**16**
16	75999	Tau	**7 Tau**	Σ 412	AB	6.6	6.86	0.7"	0.6"	356°	272°	2004	1828	A2V	03h34m26.6s	+24°27'52"	**16**
16	75999	Tau		Σ 412	AB-C	5.94	9.92	22.9"	19.8"	55°	67°	2006	1783		03h34m26.6s	+24°27'52"	**16**
16	111340	Tau	**Σ 430**		AB	6.77	9.63	26.8"	20"	56°	53°	2006	1831	K2III	03h40m28.0s	+05°07'33"	**16**
16	111340	Tau			AC	6.7	10.5	35.8"	40"	298°	304°	2006	1831		03h40m28.0s	+05°07'33"	**16**
16	76122	Tau	**Ο Σ 38**		AB	6.78	6.91	133.8"	122.6"	51°	38°	2003	1875	F4V	03h44m37.2s	+27°53'50"	**16**
16	76140	Tau	**19 Tau**	HJ 3251	AB	4.3	8.1	72.1"	64.6"	329°	331°	2003	1863	B6IV	03h45m12.5s	+24°28'02"	**16**
16	76156	Tau	**Σ 444**			6.91	10.09	3.6"	3.3"	335°	339°	1991	1832	A0V	03h45m48.8s	+23°08'49"	**16**
16	76199	Tau	**η Tau**	Σ 8	AB	2.83	6.27	117.5"	117.1"	290°	289°	2003	1836	B7IIIe	03h47m29.1s	+24°06'18"	**16**
16	76199	Tau		Σ 8	AC	2.83	8.22	181.5"	180.8"	313°	312°	2002	1868		03h47m29.1s	+24°06'18"	**16**
16	76199	Tau		Σ 8	AD	2.83	8.73	191.6"	190.7"	296°	295°	2002	1868		03h47m29.1s	+24°06'18"	**16**
16	76199	Tau		Σ 8	BC	6.27	8.22	85.9"	85.6"	344°	344°	2002	1824	A4V	03h47m29.1s	+24°06'18"	**16**
16	76199	Tau		Σ 8	BD	6.27	8.73	75.9"	74.7"	305°	304°	2002	1824		03h47m29.1s	+24°06'18"	**16**
16	76236	Tau	**Ο Σ 40**		AB	6.58	7.53	86.5"	87"	309°	308°	2000	1875	B9.5V	03h49m21.8s	+24°22'51"	**16**
16	76251	Tau	**Ο Σ 64**		AB	6.81	10.15	3.2"	3.2"	234°	234°	2003	1847	B9.5Vp	03h49m58.1s	+23°50'55"	**16**
16	76251	Tau			AC	6.81	10.54	10"	10.4"	235°	236°	2004	1847		03h49m58.1s	+23°50'55"	**16**
16	111469	Tau	**31 Tau**	KUI 15		6.26	6.56	0.8"	0.4"	206°	214°	2006	1937	B5V	03h52m00.2s	+06°32'06"	**16**
16	93721	Tau	**BUP 49**			5.89	9.1	174.1"	158.7"	278°	277°	1997	1896	F4V	04h00m48.8s	+18°11'38"	**16**
16	111566	Tau	**Ο Σ 70**			5.67	11.2	12"		227°		1848		B5V	04h01m46.1s	+09°59'53"	**16**
16	93775	Tau	**Σ 495**			6.11	8.77	3.8"	3.6"	223°	216°	2006	1830	F3V	04h07m42.0s	+15°09'46"	**16**
16	93777	Tau	**Ο Σ 72**			6.1	9.71	4.7"	4.5"	328°	324°	2002	1854	K5IIIb	04h07m59.4s	+17°20'24"	**16**
16	111648	Tau	**45 Tau**	ENG 18		5.7	9.8	115.5"	128.5"	38°	43°	2000	1888	F4V	04h11m20.4s	+05°31'23"	**16**
16	111659	Tau	**Σ 510**			6.67	10.05	10.7"	10.8"	303°	301°	2006	1831	G8III	04h12m09.3s	+00°44'08"	**16**
16	111674	Tau	**47 Tau**	β 547	AB	5.05	7.32	1.2"	0.9"	341°	359°	2001	1877	G5IV+A8V	04h13m56.4s	+09°15'50"	**16**
16	111698	Tau	**H 6 98**		AB	6.34	6.96	64.7"	65.5"	315°		1957	1783	G0IV G3V	04h15m28.7s	+06°11'12"	**16**
16	93836	Tau	**48 Tau**	BUP 51		6.32	11.1	151.4"	146.8"	308°	309°	1959	1909	F5V	04h15m46.3s	+15°24'02"	**16**
16	76558	Tau	**φ Tau**	SHJ 40	AB	5.08	7.51	49.2"	56.8"	256°	241°	1999	1821	K2III	04h20m21.2s	+27°21'02"	**16**
16	76571	Tau	**β 87**			6.21	8.6	2"	1.5"	169°	180°	2006	1873	B3V+K3II	04h22m22.7s	+20°49'17"	**16**
16	76573	Tau	**χ Tau**	Σ 528		5.37	8.54	19.1"	19.7"	25°	27°	2004	1822	B9Vnn F8V	04h22m35.0s	+25°37'45"	**16**
16	76591	Tau	**62 Tau**	Σ 534	AB	6.36	7.94	30.1"	28.1"	290°	291°	2006	1783	B3V A1V	04h23m59.8s	+24°18'03"	**16**
16	93923	Tau	**δ 3 Tau**	KUI 17	AB	4.26	7.85	1.9"	1.5"	340°	350°	1999	1937	A2IV	04h25m29.4s	+17°55'40"	**16**
16	93923	Tau		H 6 101	AC	4.2	8.7	76.8"	63.6"	234°	235°	1997	1783		04h25m29.4s	+17°55'40"	**16**
16	93942	Tau	**Σ 545**		Aa-B	6.92	8.78	18.8"	16.5"	57°	64°	2006	1782	A0V	04h27m04.9s	+18°12'27"	**16**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
16	76618	Tau	**BUP 60**			5.72	10.5	161.4"		233°		1909		Am	04h28m00.8s	+21°37'11"	**16**
16	57249	Tau	**Σ 548**		AB	6.44	8.03	14.9"	15.3"	35°	34°	2006	1823	F7V	04h28m52.0s	+30°21'41"	**16**
16	57249	Tau			AB	6.38	8.32	14.8"		36°					04h28m52.0s	+30°21'41"	**16**
16	57249	Tau			AC	6.38	10.6	121.4"		194°					04h28m52.0s	+30°21'41"	**16**
16	93970	Tau	**80 Tau**	Σ 554		5.7	8.12	1.6"	1.7"	16°	13°	2002	1831	F0V+G0V	04h30m08.7s	+15°38'16"	**16**
16	93978	Tau	**81 Tau**	BUP 62	AB	5.48	8.94	162"	161.8"	340°	339°	2002	1904	Am	04h30m38.9s	+15°41'31"	**16**
16	94002	Tau	**Σ 559**			6.97	7.02	3.1"	3"	277°	279°	2006	1830	B9IVn	04h33m33.1s	+18°01'00"	**16**
16	76654	Tau	**HJ 5461**		AB	5.87	10.32	25.2"	24.4"	103°	102°	1997	1899	B9pHg	04h34m38.0s	+28°57'40"	**16**
16	76658	Tau	**Σ 562**			6.82	9.94	1.9"	2.1"	283°	270°	1991	1830	F5III	04h34m45.5s	+22°41'32"	**16**
16	94026	Tau	**88 Tau**	SHJ 45	Aa-B	4.27	7.84	69.1"	64.3"	300°	303°	2003	1800		04h35m39.3s	+10°09'38"	**16**
16	76682	Tau	**Σ 572**		AB	7.36	7.21	4.4"	2.7"	190°	214°	2006	1822	F2V F2V	04h38m29.5s	+26°56'21"	**16**
16	76721	Tau	**τ Tau**	S 455	Aa-B	4.24	7.02	63"	60"	214°	212°	1999	1777	B3V	04h42m14.7s	+22°57'25"	**16**
16	76862	Tau	**98 Tau**	β 1390	AC	5.6	9.9	93.7"	95.5"	291°	289°	1998	1891		04h58m09.4s	+25°03'01"	**16**
16	76880	Tau	**Σ 623**			6.98	8.72	21"	20.4"	206°	205°	2006	1829	B7V+A0V	04h59m53.8s	+27°19'32"	**16**
16	76903	Tau	**S 461**		AB-C	6.85	8.25	78.4"	78.7"	160°	159°	2000	1824		05h01m44.3s	+26°40'17"	**16**
16	94306	Tau	**OΣ 95**			7.02	7.56	0.9"	0.5"	298°	0°	2004	1843	A5m	05h05m32.1s	+19°48'24"	**16**
16	76972	Tau	**105 Tau**	S 466		5.85	9.41	110.6"	111.5"	250°	251°	2002	1825	B2Ve	05h07m55.4s	+21°42'17"	**16**
16	76974	Tau	**103 Tau**	H 5 114	AC	5.5	8.6	36"	30"	198°	198°	1997	1782		05h08m06.6s	+24°15'55"	**16**
16	76990	Tau	**Σ 645**		A-BC	6.04	9.11	11.4"	13.6"	29°	26°	2006	1783	A5m	05h09m45.1s	+28°01'49"	**16**
16	77084	Tau	**Σ 674**	CD Tau		6.82	9.68	9.8"	10.6"	148°	147°	2006	1828	F7V+F5IV	05h17m31.1s	+20°07'54"	**16**
16	77098	Tau	**Σ 680**			6.22	9.66	9.2"	8.7"	204°	202°	2006	1827	K0III	05h19m14.7s	+20°08'04"	**16**
16	94526	Tau	**111 Tau**	S 478		4.99	9	102.7"	46.7"	271°	274°	2002	1782	F8V	05h24m25.6s	+17°23'01"	**16**
16	94554	Tau	**115 Tau**	OΣ 107	Aa-B	5.4	10.1	10.3"	10.7"	306°	317°	1998	1843	B5V F8V	05h27m10.1s	+17°57'44"	**16**
16	77201	Tau	**118 Tau**	Σ 716	AB	5.83	6.68	4.7"	5"	208°	193°	2006	1782	B8.5V	05h29m16.5s	+25°09'00"	**16**
16	94586	Tau	**OΣ 108**			6.77	10.42	3.2"	3.7"	130°	137°	1994	1849	A2	05h29m19.1s	+18°21'57"	**16**
16	94630	Tau	**Σ 730**			6.06	6.44	9.6"	12.2"	141°	142°	2006	1783	B7IIIe	05h32m14.1s	+17°03'29"	**16**
16	77322	Tau	**Σ 749**		AB	6.54	6.55	1.2"	0.7"	322°	204°	2006	1829	B9IV-V	05h37m08.9s	+26°55'28"	**16**
16	77322	Tau			AC	5.7	10.5	178.1"	177.4"	300°	303°	1959	1900		05h37m08.9s	+26°55'28"	**16**
16	77578	Tau	**OΣ 67**		AB-C	6.01	8.29	75.1"	80"	162°	163°	2002	1843		05h48m22.4s	+20°52'10"	**16**
16	77578	Tau		OΣ 118		6.1	7.6	0.2"	0.6"	315°	318°	1990	1843	B9Vn	05h48m22.4s	+20°52'10"	**16**
16	94914	Tau	**KU 23**			6.97	8.59	0.8"	1"	107°	104°	1991	1902	B9	05h50m48.7s	+14°26'36"	**16**

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17	36875	And	**OΣ 21**			6.76	8.07	1.2"	1"	176°	225°	2003	1845	A9IV	01h03m01.6s	+47°22'34"	**17**
17	37087	And	**Σ 102**		AB-C	7.19	8.79	10.3"	12"	224°	226°	2006	1832	Am	01h17m48.0s	+49°00'30"	**17**
17	37087	And			AB	7.31	9.18	0.5"	0.6"	276°	308°	1999	1833	B9.5V	01h17m48.0s	+49°00'30"	**17**
17	37087	And			AB-D	6.8	10.6	24.2"	29.9"	58°	67°	2006	1832		01h17m48.0s	+49°00'30"	**17**
17	54592	And	**Σ 108**			6.52	9.57	6.5"	5.9"	63°	62°	2001	1830	A5m	01h18m47.0s	+37°23'11"	**17**
17	54771	And	**Σ 133**		AB	6.79	9.44	3"	3"	191°	179°	2004	1833	K3III	01h32m47.7s	+35°50'33"	**17**
17	54771	And			AC	6.79	10.8	20.9"	29.1"	183°	200°	2006	1833		01h32m47.7s	+35°50'33"	**17**
17	54771	And			AD	6.79	10.68	22.4"	33.8"	194°	193°	2006	1833		01h32m47.7s	+35°50'33"	**17**
17	37371	And	**HDS 215**			6.94	10.38	0.6"	0.5"	212°	194°	2000	1991	F5	01h37m44.6s	+48°24'46"	**17**
17	55107	And	**56 And**	Σ 4	AB	5.79	6.07	200.5"	176.2"	299°	302°	2001	1834	K0III gM0	01h56m09.5s	+37°15'07"	**17**
17	55107	And		β 1368	Bb	6.2	9.4	203.4"	203.7"	258°	258°	2001	1880	gM0	01h56m09.5s	+37°15'07"	**17**
17	37734	And	**γ And**	Σ 205	A-BC	2.31	5.02	9.6"	12"	63°	67°	2004	1777	K3IIb	02h03m54.0s	+42°19'47"	**17**
17	55330	And	**59 And**	Σ 222		6.05	6.71	17"	15.3"	36°	35°	2006	1783	B9V A1Vn	02h10m52.8s	+39°02'22"	**17**
17	37878	And	**Σ 228**			6.56	7.21	0.9"	1.1"	286°	264°	2004	1829	F2V+F7V	02h14m02.4s	+47°29'03"	**17**
17	37971	And	**Σ 249**			7.21	8.99	2.4"	2.3"	197°	195°	2001	1831	A2	02h21m35.7s	+44°36'00"	**17**
17	55578	And	**A 1815**			6.9	10.8	1.8"	1.8"	148°	135°	1970	1908	F1V	02h28m12.0s	+38°50'00"	**17**
17	55594	And	**A 1816**			6.9	10.8	1.8"	1.8"	148°	135°	1970	1908	F1V	02h29m07.5s	+37°19'47"	**17**
17	55680	And	**HJ 1120**		AC	6.3	10.6	42.6"	39.6"	321°	321°	1998	1906		02h35m27.9s	+39°39'52"	**17**
17	55680	And			AB	6.3	10.8	15.1"	17.8"	77°	92°	1998	1894	B9pHgMn	02h35m27.9s	+39°39'52"	**17**
17	74966	Ari	**1 Ari**	Σ 174		6.33	7.21	2.9"	3"	164°	167°	2006	1782	G3III	01h50m08.6s	+22°16'31"	**17**
17	92681	Ari	**γ Ari**	Σ 180	AB	4.52	4.58	7.6"	10.2"	0°	356°	2006	1779	A1pSi B9V	01h53m31.9s	+19°17'37"	**17**
17	92681	Ari		Σ 180	AC	4.52	8.63	217.3"	228.8"	83°	85°	2001	1823		01h53m31.9s	+19°17'37"	**17**
17	75051	Ari	**λ Ari**	H 5 12	AB	4.8	6.65	38.2"	38"	47°	48°	2006	1777	F0IV F7V	01h57m55.7s	+23°35'46"	**17**
17	75051	Ari		H 5 12	AC	4.8	9.7	188.7"	175.3"	76°	74°	2005	1892	F0IV K	01h57m55.7s	+23°35'46"	**17**
17	75114	Ari	**10 Ari**	Σ 208	AB	5.82	7.87	1.2"	2"	336°	23°	2003	1821	F8IV	02h03m39.4s	+25°56'08"	**17**
17	75171	Ari	**14 Ari**	H 6 69	AC	5.02	7.97	106.7"	105.3"	278°	278°	2003	1823		02h09m25.4s	+25°56'23"	**17**
17	75171	Ari		H 6 69	AB	4.99	8.01	93.2"	82.6"	34°	44°	1983	1833	F2III	02h09m25.4s	+25°56'23"	**17**
17	92952	Ari	**OΣ 27**	VW Ari	AB	6.72	8.31	72.9"	74"	32°	31°	2001	1875	A3	02h26m45.7s	+10°33'55"	**17**
17	92952	Ari		VW Ari	AC	6.72	11.3	62.3"		155°		2001	1875	A3	02h26m45.7s	+10°33'55"	**17**
17	75407	Ari	**Σ 271**		AB	5.9	10.4	12.7"	11.9"	183°	181°	1999	1831	F6IV	02h30m32.4s	+25°14'06"	**17**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
17	75407	Ari			AC	5.9	11.8	113.1"	112.5"	34°		1999	1831	F6IV	02h30m32.4s	+25°14'06"	17
17	75471	Ari	**30 Ari**	Σ 5		6.5	7.02	39"	41"	275°	275°	2006	1777	F5V F7V	02h37m00.6s	+24°38'50"	17
17	75510	Ari	**33 Ari**	Σ 289		5.3	9.56	28.6"	25.5"	2°	3°	2002	1779	A3V	02h40m41.1s	+27°03'39"	17
17	75539	Ari	**β 306**		AB	6.4	10.36	3"	2.9"	19°	17°	1991	1870	A3V	02h43m51.2s	+25°38'18"	17
17	93127	Ari	**π Ari**	Σ 311	AB	5.32	7.95	3.5"	3.2"	118°	125°	2002	1830	B6V	02h49m17.6s	+17°27'51"	17
17	93127	Ari		Σ 311	AC	5.3	10.72	25.1"	25.5"	109°	109°	2000	1782		02h49m17.6s	+17°27'51"	17
17	55920	Ari	**OΣ 46**		AB	6.78	10.79	4.5"	5"	75°	72°	1997	1852	F0	02h50m00.4s	+30°31'34"	17
17	55920	Ari		HJ 656	AC	6.72	12.7	20.1"		168°		1877		F0	02h50m00.4s	+30°31'34"	17
17	75673	Ari	**ε Ari**	Σ 333	AB	5.17	5.57	1.4"	0.5"	209°	186°	2006	1827	A2Vs A2Vs	02h59m12.7s	+21°20'25"	17
17	93229	Ari	**OΣ 49**		AB	6.8	9.92	2.2"	1.2"	50°	65°	1991	1843	A0	03h00m31.5s	+18°00'18"	17
17	75806	Ari	**Σ 366**		AB	6.88	10.43	43.5"	49"	36°	42°	2002	1877	K0	03h14m17.2s	+22°57'14"	17
17	75883	Ari	**HDS 418**			6.98	10.79	0.6"	0.6"	340°	338°	1999	1991	K2	03h20m51.5s	+20°30'34"	17
17	75886	Ari	**τ-1 Ari**	COU 259		5.34	8.09	0.8"	0.7"	223°	246°	1999	1968	B5IV	03h21m13.6s	+21°08'49"	17
17	75899	Ari	**τ-2 Ari**	HDS 423		5.28	8.13	0.5"	0.5"	292°	289°	1999	1991	K3III	03h22m45.2s	+20°44'31"	17
17	75940	Ari	**Σ 394**		Aa-B	7.05	8.16	6.8"	8.5"	165°	163°	2004	1783	A3 G5	03h28m01.4s	+20°27'51"	17
17	75945	Ari	**66 Ari**	β 878	Aa-B	6.22	10.45	0.8"	1.1"	65°	78°	1991	1881		03h28m26.6s	+22°48'14"	17
17	21814	Cas	**Σ 70**		AB	6.33	9.49	8.2"	9"	246°	243°	2002	1831	A0	00h53m47.6s	+52°41'21"	17
17	21814	Cas			AC	6.2	9.8	75.3"	80.3"	151°	148°	1985	1903		00h53m47.6s	+52°41'21"	17
17	36853	Cas	**ES 45**			6.9	10.8	7.8"	7.9"	244°	242°	2002	1900	G5	01h01m27.0s	+49°32'39"	17
17	22021	Cas	**H 4 66**		AB	6.5	10.1	20.4"	24"	74°	77°	2006	1783	K2III	01h07m09.5s	+53°29'53"	17
17	22060	Cas	**β 235**		AP	6.9	7.93	0.97"		129°		1991			01h10m34.3s	+51°00'48"	17
17	22060	Cas		OΣ 12	AC	6.9	9	59.4"		68°					01h10m34.3s	+51°00'48"	17
17	110235	Cet	**Σ 186**			6.79	6.84	0.9"	1.4"	245°	240°	2006	1825	F9V	01h55m53.9s	+01°51'01"	17
17	129588	Cet	**β 7**		AC	6.58	8.84	151.1"	148.9"	200°	197°	2002	1891	A0	01h57m59.4s	-02°03'34"	17
17	129588	Cet			AB	6.58	10.36	3.1"	3.5"	16°	15°	1991	1871	A0	01h57m59.4s	-02°03'34"	17
17	129667	Cet	**61 Cet**	H 5 102	AB	5.96	10.77	43"	37.9"	194°	194°	1998	1782	G5II-III	02h03m48.2s	-00°20'25"	17
17	129752	Cet	**66 Cet**	Σ 231	AB	5.72	7.71	17.2"	16.9"	236°	235°	2006	1783	F8V G1V	02h12m47.7s	-02°23'38"	17
17	129825	Cet	**o Cet**	H 6 1	Aa-C	6.65	9.59	122"	114.6"	69°	92°	2003	1782		02h19m20.8s	-02°58'41"	17
17	110542	Cet	**KUI 8**			7.09	7.63	0.5"	0.3"	38°	20°	2004	1937	K0III	02h27m59.9s	+01°57'39"	17
17	110565	Cet	**β 518**			6.23	9.85	1.5"	1.6"	141°	138°	1991	1877	K0IV	02h29m35.4s	+09°33'56"	17
17	110635	Cet	**v Cet**	Σ 281		4.97	9.08	7.9"	7.7"	79°	83°	2000	1831	G3III	02h35m52.5s	+05°35'36"	17
17	110655	Cet	**KUI 9**			6.35	10.38	0.9"	0.9"	323°	308°	1991	1937	G9III	02h38m36.8s	+03°26'36"	17
17	130055	Cet	**84 Cet**	Σ 295		5.82	9.68	3.6"	4.6"	308°	335°	1993	1829	F6V	02h41m14.1s	-00°41'45"	17
17	110688	Cet	**A 2337**					"							02h41m21.6s	+04°25'40"	17
17	110707	Cet	**γ Cet**	Σ 299	AB	3.55	6.18	2.3"	2.8"	298°	283°	2006	1825	A1V	02h43m18.0s	+03°14'08"	17
17	130408	Cet	**95 Cet**	AC 2	AB	5.6	7.97	1.2"	0.7"	258°	73°	2004	1854	G9IV	03h18m22.6s	-00°55'49"	17
17	23369	Per	**Σ 268**			6.72	8.5	3"	2.5"	130°	132°	2006	1828	A2pShell	02h29m25.0s	+55°32'10"	17
17	23425	Per	**OΣ 42**		AB-D	6.68	9.99	128.4"	124.7"	84°	83°	2002	1875		02h33m18.9s	+52°18'32"	17
17	38274	Per	**β 521**		AC	6.6	10.7	72.1"	73.1"	233°	233°	1999	1898		02h43m01.9s	+48°15'55"	17
17	55872	Per	**β 9**		AB	6.42	8.64	1.3"	1.5"	204°	165°	1991	1872	F0IV	02h47m03.6s	+35°33'16"	17
17	23655	Per	**η Per**	Σ 307	AB	3.76	8.5	28.5"	26"	301°	290°	2002	1779	M3Ib-IIa	02h50m41.8s	+55°53'44"	17
17	23655	Per		Σ 307	AC	3.76	9.9	66.3"	67"	269°	268°	1925	1878	M3Ib-IIa	02h50m41.8s	+55°53'44"	17
17	23674	Per	**Σ 314**		AB-C	6.95	7.26	1.6"	1.3"	314°	291°	2006	1825		02h52m52.0s	+52°59'50"	17
17	38418	Per	**OΣ 48**			6.5	10.6	6.6"	4.5"	319°	322°	1991	1851	G5Iab:	02h53m21.1s	+48°34'12"	17
17	55975	Per	**20 Per**	Σ 318	AB-C	5	9.68	13.9"	14"	236°	240°	1998	1783	F4IV	02h53m42.6s	+38°20'14"	17
17	55975	Per		Σ 318	AC	5.3	10	15.7"	15.7"	239°	239°	1929	1929	F0	02h53m42.6s	+38°20'14"	17
17	38424	Per	**β 1293**			6.81	10.45	2"	1.7"	349°	352°	1991	1900	B9	02h54m01.0s	+47°09'39"	17
17	23763	Per	**Σ 331**			5.21	6.17	11.9"	13.5"	85°	81°	2002	1800	B7V B9V	03h00m52.2s	+52°21'06"	17
17	56095	Per	**Σ 336**			6.96	8.27	8.4"	8.2"	8°	9°	2006	1831	G5IV	03h01m29.1s	+32°24'46"	17
17	23907	Per	**HU 544**			6.72	8.2	1.6"	0.6"	102°	98°	2006	1902	A0	03h15m48.7s	+50°57'21"	17
17	38700	Per	**Σ 369**			6.83	7.72	3.6"	4.4"	29°	25°	2006	1828	B9VpSi	03h17m11.5s	+40°28'58"	17
17	56419	Per	**Σ 382**		AB	5.8	9.25	4.8"	3.6"	153°	155°	2002	1831	A0V	03h24m29.7s	+33°32'09"	17
17	38872	Per	**34 Per**	β 1179		4.72	7.34	0.7"	0.7"	147°	163°	1999	1890	B3V	03h29m22.1s	+49°30'32"	17
17	38874	Per	**OΣ 55**		AB	6.24	10.8	31"	28.1"	296°	289°	1999	1843	B7V	03h29m26.3s	+46°56'16"	17
17	38908	Per	**OΣ 56**		AB	6.76	10.67	32.1"	22.9"	352°	351°	2002	1843	B8V	03h31m33.1s	+47°51'45"	17
17	56559	Per	**Σ 410**	IX Per		6.6	10.6	5.2"	5.4"	213°	209°	2005	1831	F5V	03h35m01.2s	+32°01'00"	17
17	56569	Per	**β 533**			6.86	7.81	1.1"		42°		1991			03h35m37.9s	+31°40'50"	17
17	56613	Per	**Σ 425**			6.82	7.7	1.99"		70°					03h40m07.2s	+34°06'59"	17
17	56646	Per	**40 Per**	Σ 431		4.97	10.04	25.6"	19.8"	249°	237°	2001	1828	B1.5IV	03h42m22.6s	+33°57'54"	17
17	56650	Per	**HJ 336**			6.67	10.1	44"	35.6"	324°	317°	1999	1899	F5IV	03h42m27.7s	+32°56'21"	17
17	56673	Per	**o Per**	β 535		3.91	6.7	1"	1"	24°	61°	2004	1877	B1III	03h44m19.1s	+32°17'18"	17

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
17	56799	Per	**ζ Per**	Σ 464	AB	2.85	9.16	12.7"	13.3"	208°	205°	2003	1824	B1Ib	03h44m19.1s	+32°17'18"	**17**
17	56799	Per		Σ 464	AD	2.86	10.44	98"	71.4"	196°	195°	2003	1782		03h44m19.1s	+32°17'18"	**17**
17	56799	Per		Σ 464	AE	2.86	9.96	120.4"	119.1"	186°	185°	2003	1825		03h44m19.1s	+32°17'18"	**17**
17	56709	Per	**Σ 448**			6.68	9.36	3.4"	3.3"	13°	19°	2006	1831	B2.5V	03h47m52.7s	+33°36'00"	**17**
17	24231	Per	**OΣ 63**			6.2	11.2	7"		270°		1848		B8Vne	03h48m18.1s	+50°44'12"	**17**
17	24248	Per	**Σ 446**		AB	6.86	9.9	8.7"	8.5"	254°	253°	2002	1830	B0.5III	03h49m27.6s	+52°39'19"	**17**
17	56735	Per	**ES 277**			6.77	9.8	30.2"		142°					03h50m13.3s	+34°49'12"	**17**
17	24300	Per	**HDS 494**			6.91	9.82	0.7"	0.7"	178°	178°	1999	1991	O9IV-V	03h55m38.4s	+52°38'29"	**17**
17	39212	Per	**Σ 469**			6.9	9.92	8.6"	9.2"	146°	149°	2006	1828	A2	03h57m16.3s	+41°52'50"	**17**
17	56866	Per	**OΣ 69**			6.6	9.13	1.5"	1.7"	325°	324°	1997	1849	A1Vp:	03h59m40.0s	+38°49'13"	**17**
17	56973	Per	**OΣ 71**	AG Per	AB	6.86	8.66	0.8"	0.9"	227°	198°	1998	1846	B3V B5V:	04h06m55.8s	+33°26'47"	**17**
17	57216	Per	**56 Per**	OΣ 81	AB	5.84	9.25	4.4"	4.3"	17°	48°	2002	1847	F4IV-V	04h24m37.5s	+33°57'34"	**17**
17	57278	Per	**Σ 552**			6.78	7.18	9.2"	9.3"	115°	114°	2006	1828	B8V	04h31m24.1s	+40°00'37"	**17**
17	39604	Per	**57 Per**	SHJ 44	AB	6.12	6.83	120.5"	96.4"	198°	198°	2003	1783	F0V	04h33m24.9s	+43°03'50"	**17**
17	92555	Psc	**β 5**		AB	6.98	9.2	0.6"	1.5"	285°	300°	1997	1872	G3III	01h39m15.2s	+16°37'32"	**17**
17	74870	Psc	**Σ 145**		AB	6.3	10.9	10.5"	11.2"	31°	32°	1997	1830	F6V	01h41m18.4s	+25°44'44"	**17**
17	74870	Psc			AC	6.2	11.1	82.4"		338°		1997	1830	F6V	01h41m18.4s	+25°44'44"	**17**
17	110291	Psc	**α Psc**	Σ 202	AB	4.1	5.17	1.8"	5.1"	269°	337°	2006	1781	A0p A3m	02h02m02.8s	+02°45'50"	**17**
17	111161	Tau	**β 1178**			6.53	10.06	1"	1"	353°	348°	1991	1890	G3II	03h23m39.0s	+04°52'56"	**17**
17	111195	Tau	**ξ Tau**	HDS 433		3.74	7.55	0.4"	0.7"	352°	298°	2000	1983	B9Vn	03h27m10.2s	+09°43'57"	**17**
17	75970	Tau	**Σ 401**			6.58	6.93	11.6"	11.1"	270°	270°	2006	1830	A2V	03h31m20.8s	+27°34'18"	**17**
17	93479	Tau	**AG 68**			6.79	9.87	18"	18.3"	249°	249°	2006	1895	A1V	03h32m12.0s	+11°32'32"	**17**
17	75999	Tau	**7 Tau**	Σ 412	AB	6.6	6.86	0.7"	0.6"	356°	272°	2004	1828	A2V	03h34m26.6s	+24°27'52"	**17**
17	75999	Tau		Σ 412	AB-C	5.94	9.92	22.9"	19.8"	55°	67°	2006	1783		03h34m26.6s	+24°27'52"	**17**
17	111291	Tau	**Σ 422**			6	8.9	6.8"	5.4"	272°	226°	2006	1822	G8V	03h36m47.3s	+00°35'15"	**17**
17	111340	Tau	**Σ 430**		AB	6.77	9.63	26.8"	20"	56°	53°	2006	1831	K2III	03h40m28.0s	+05°07'33"	**17**
17	111340	Tau			AC	6.7	10.5	35.8"	40"	298°	304°	2006	1831		03h40m28.0s	+05°07'33"	**17**
17	76122	Tau	**OΣ 38**		AB	6.78	6.91	133.8"	122.6"	51°	38°	2003	1875	F4V	03h44m37.2s	+27°53'50"	**17**
17	76140	Tau	**19 Tau**	HJ 3251	AB	4.3	8.1	72.1"	64.6"	329°	331°	2003	1863	B6IV	03h45m12.5s	+24°28'02"	**17**
17	76156	Tau	**Σ 444**			6.91	10.09	3.6"	3.3"	335°	339°	1991	1832	A0V	03h45m48.8s	+23°08'49"	**17**
17	76199	Tau	**η Tau**	Σ 8	AB	2.83	6.27	117.5"	117.1"	290°	289°	2003	1836	B7IIIe	03h47m29.1s	+24°06'18"	**17**
17	76199	Tau		Σ 8	AC	2.83	8.22	181.5"	180.8"	313°	312°	2002	1868		03h47m29.1s	+24°06'18"	**17**
17	76199	Tau		Σ 8	AD	2.83	8.73	191.6"	190.7"	296°	295°	2002	1868		03h47m29.1s	+24°06'18"	**17**
17	76199	Tau		Σ 8	BC	6.27	8.22	85.9"	85.6"	344°	344°	2002	1824	A4V	03h47m29.1s	+24°06'18"	**17**
17	76199	Tau		Σ 8	BD	6.27	8.73	75.9"	74.7"	305°	304°	2002	1824		03h47m29.1s	+24°06'18"	**17**
17	76236	Tau	**OΣ 40**		AB	6.58	7.53	86.5"	87"	309°	308°	2000	1875	B9.5V	03h49m21.8s	+24°22'51"	**17**
17	76251	Tau	**OΣ 64**		AB	6.81	10.15	3.2"	3.2"	234°	234°	2003	1847	B9.5Vp	03h49m58.1s	+23°50'55"	**17**
17	76251	Tau			AC	6.81	10.54	10"	10.4"	235°	236°	2004	1847		03h49m58.1s	+23°50'55"	**17**
17	111469	Tau	**31 Tau**	KUI 15		6.26	6.56	0.8"	0.4"	206°	214°	2006	1937	B5V	03h52m00.2s	+06°32'06"	**17**
17	93721	Tau	**BUP 49**			5.89	9.1	174.1"	158.7"	278°	277°	1997	1896	F4V	04h00m48.8s	+18°11'38"	**17**
17	111566	Tau	**OΣ 70**			5.67	11.2	12"		227°		1848		B5V	04h01m46.1s	+09°59'53"	**17**
17	93775	Tau	**Σ 495**			6.11	8.77	3.8"	3.6"	223°	216°	2006	1830	F3V	04h07m42.0s	+15°09'46"	**17**
17	93777	Tau	**OΣ 72**			6.1	9.71	4.7"	4.5"	328°	324°	2002	1854	K5IIIb	04h07m59.4s	+17°20'24"	**17**
17	111648	Tau	**45 Tau**	ENG 18		5.7	9.8	115.5"	128.5"	38°	43°	2000	1888	F4V	04h11m20.4s	+05°31'23"	**17**
17	111659	Tau	**Σ 510**			6.67	10.05	10.7"	10.8"	303°	301°	2006	1831	G8III	04h12m09.3s	+00°44'08"	**17**
17	111674	Tau	**47 Tau**	β 547	AB	5.05	7.32	1.2"	0.9"	341°	359°	2001	1877	G5IV+A8V	04h13m56.4s	+09°15'50"	**17**
17	111698	Tau	**H 6 98**		AB	6.34	6.96	64.7"	65.5"	315°		1957	1783	G0IV G3V	04h15m28.7s	+06°11'12"	**17**
17	93836	Tau	**48 Tau**	BUP 51		6.32	11.1	151.4"	146.8"	308°	309°	1959	1909	F5V	04h15m46.3s	+15°24'02"	**17**
17	76558	Tau	**φ Tau**	SHJ 40	AB	5.08	7.51	49.2"	56.8"	256°	241°	1999	1821	K2III	04h20m21.2s	+27°21'02"	**17**
17	76571	Tau	**β 87**			6.21	8.6	2"	1.5"	169°	180°	2006	1873	B3V+K3II	04h22m22.7s	+20°49'17"	**17**
17	76573	Tau	**χ Tau**	Σ 528		5.37	8.54	19.1"	19.7"	25°	27°	2004	1822	B9Vnn F8V	04h22m35.0s	+25°37'45"	**17**
17	76591	Tau	**62 Tau**	Σ 534	AB	6.36	7.94	30.1"	28.1"	290°	291°	2006	1783	B3V A1V	04h23m59.8s	+24°18'03"	**17**
17	93923	Tau	**δ 3 Tau**	KUI 17	AB	4.26	7.85	1.9"	1.5"	340°	350°	1999	1937	A2IV	04h25m29.4s	+17°55'40"	**17**
17	93923	Tau		H 6 101	AC	4.2	8.7	76.8"	63.6"	234°	235°	1997	1783		04h25m29.4s	+17°55'40"	**17**
17	57249	Tau	**Σ 548**		AB	6.44	8.03	14.9"	15.3"	35°	34°	2006	1823	F7V	04h28m52.0s	+30°21'41"	**17**
17	57249	Tau			AB	6.38	8.32	14.8"		36°					04h28m52.0s	+30°21'41"	**17**
17	57249	Tau			AC	6.38	10.6	121.4"		194°					04h28m52.0s	+30°21'41"	**17**
17	55347	Tri	**6 Tri**	Σ 227		5.26	6.67	4"	3.9"	69°	78°	2006	1821	G0III	02h12m22.3s	+30°18'11"	**17**
17	75265	Tri	**Σ 239**			7.09	7.83	13.8"	14.4"	212°	209°	2006	1821	F7V F9V	02h17m25.3s	+28°44'42"	**17**
17	55687	Tri	**15 Tri**	AG 304		5.57	6.75	142.2"	138.4"	16°	18°	2003	1896	M3IIIa	02h35m46.8s	+34°41'15"	**17**
17	55748	Tri	**Σ 285**			7.48	8.14	1.6"	2.2"	162°	177°	2005	1831	K2III+	02h38m45.9s	+33°25'09"	**17**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.

CHART 18

18	73664	And	**β 860**			6.61	11.4	6.7"		107°		1881			00h00m01.2s	+38°51'33"	**18**
18	36037	And	**Οϑ 514**		Aa-B	6.16	9.65	5.2"	5.2"	170°	171°	2002	1847		00h04m36.6s	+42°05'33"	**18**
18	36042	And	**β 997**		AC	6.71	9.5	21.6"		235°		1906			00h05m09.7s	+45°13'44"	**18**
18	73743	And	**ENG 1**		A-CD	6.3	9.9	142.4"	156.4"	196°	182°	1991	1886		00h06m37.0s	+29°01'16"	**18**
18	73743	And		Οϑ 549	AB	6.15	10.34	186.7"	143.1"	259°	244°	2002	1853	K0V	00h06m37.0s	+29°01'16"	**18**
18	53661	And	**Σ 3064**			6.84	10.5	25.7"	22"	7°	341°	2003	1783	K0III	00h07m37.9s	+40°08'53"	**18**
18	36157	And	**HDS 28**			6.64	9.72	0.8"	0.8"	29°	29°	1991	1991	K0	00h12m34.2s	+44°42'26"	**18**
18	73823	And	**Οϑ 2**		AB	6.77	7.67	0.4"	0.6"	167°	42°	2005	1843	F8V	00h13m23.9s	+26°59'15"	**18**
18	73823	And			AB-C	6.3	10.37	18"	17.2"	224°	225°	1997	1843		00h13m23.9s	+26°59'15"	**18**
18	36221	And	**HJ 1947**		AB	6.16	9.83	8.9"	10"	75°	81°	2003	1831	A2VpSi	00h16m21.5s	+43°35'42"	**18**
18	53772	And	**Σ 19**			7.12	9.48	2.4"	2"	141°	134°	1999	1830	A2V	00h16m43.0s	+36°37'47"	**18**
18	36256	And	**26 And**	Οϑ 5		6	9.7	6.4"	7.1"	240°	235°	2002	1846	B8V	00h18m42.2s	+43°47'28"	**18**
18	36280	And	**A 647**			7.17	9.56	0.7"	0.7"	106°	216°	2002	1904	F5	00h20m33.0s	+45°30'32"	**18**
18	53827	And	**AC 1**			7.27	8.26	1.8"	0.4"	289°	278°	2003	1859	F5V	00h20m54.1s	+32°58'40"	**18**
18	53956	And	**HJ 5451**			6.01	9.34	55.3"	56.3"	85°	85°	2005	1875	K1III	00h31m25.7s	+33°34'54"	**18**
18	74086	And	**β 1310**		AD	7.1	9.2	94"	96.5"	154°	145°	1997	1902		00h32m39.6s	+23°11'37"	**18**
18	74090	And	**Οϑ 14**		AB	6.3	11.3	8.6"	8.7"	159°	160°	1961	1847	G8III	00h32m49.1s	+28°16'49"	**18**
18	74090	And			AC	6.3	12	60"		84°		1912			00h32m49.1s	+28°16'49"	**18**
18	53999	And	**Σ 40**		AB	6.72	8.48	12.7"	11.3"	311°	313°	2006	1830	K4III	00h35m09.6s	+36°49'56"	**18**
18	54033	And	**π And**	H 5 17	Aa-B	4.32	7.08	36.4"	35.6"	175°	175°	2006	1821	B5V	00h36m52.9s	+33°43'10"	**18**
18	54211	And	**HJ 628**			7	10.8	43"	35"	67°	65°	1997	1820	K2	00h51m57.1s	+33°53'24"	**18**
18	74359	And	**36 And**	Σ 73	AB	6.12	6.54	1"	0.9"	319°	305°	2006	1830	K1IV	00h54m58.2s	+23°37'42"	**18**
18	74359	And		FOX 115	AB-C	5.56	11	161.2"	133.3"	223°	232°	1997	1913		00h54m58.2s	+23°37'42"	**18**
18	36833	And	**Σ 79**			6.04	6.77	8"	7.2"	194°	195°	2006	1796	B9.5V A2V	01h00m03.6s	+44°42'47"	**18**
18	36875	And	**Οϑ 21**			6.76	8.07	1.2"	1"	176°	225°	2003	1845	A9IV	01h03m01.6s	+47°22'34"	**18**
18	37087	And	**Σ 102**		AB-C	7.19	8.79	10.3"	12"	224°	226°	2006	1832	Am	01h17m48.0s	+49°00'30"	**18**
18	37087	And			AB	7.31	9.18	0.5"	0.6"	276°	308°	1999	1833	B9.5V	01h17m48.0s	+49°00'30"	**18**
18	37087	And			AB-D	6.8	10.6	24.2"	29.9"	58°	67°	2006	1832		01h17m48.0s	+49°00'30"	**18**
18	54592	And	**Σ 108**			6.52	9.57	6.5"	5.9"	63°	62°	2001	1830	A5m	01h18m47.0s	+37°23'11"	**18**
18	54771	And	**Σ 133**		AB	6.79	9.44	3"	3"	191°	179°	2004	1833	K3III	01h32m47.7s	+35°50'33"	**18**
18	54771	And			AC	6.79	10.8	20.9"	29.1"	183°	200°	2006	1833		01h32m47.7s	+35°50'33"	**18**
18	54771	And			AD	6.79	10.68	22.4"	33.8"	194°	193°	2006	1833		01h32m47.7s	+35°50'33"	**18**
18	37371	And	**HDS 215**			6.94	10.38	0.6"	0.5"	212°	194°	2000	1991	F5	01h37m44.6s	+48°24'46"	**18**
18	55107	And	**56 And**	Σ 4	AB	5.79	6.07	200.5"	176.2"	299°	302°	2001	1834	K0III gM0	01h56m09.5s	+37°15'07"	**18**
18	55107	And		β 1368	Bb	6.2	9.4	203.4"	203.7"	258°	258°	2001	1880	gM0	01h56m09.5s	+37°15'07"	**18**
18	37734	And	**γ And**	Σ 205	A-BC	2.31	5.02	9.6"	12"	63°	67°	2004	1777	K3IIb	02h03m54.0s	+42°19'47"	**18**
18	55330	And	**59 And**	Σ 222		6.05	6.71	17"	15.3"	36°	35°	2006	1783	B9V A1Vn	02h10m52.8s	+39°02'22"	**18**
18	37878	And	**Σ 228**			6.56	7.21	0.9"	1.1"	286°	264°	2004	1829	F2V+F7V	02h14m02.4s	+47°29'03"	**18**
18	37971	And	**Σ 249**			7.21	8.99	2.4"	2.3"	197°	195°	2001	1831	A2	02h21m35.7s	+44°36'00"	**18**
18	55578	And	**A 1815**			6.9	10.8	1.8"	1.8"	148°	135°	1970	1908	F1V	02h28m12.0s	+38°50'00"	**18**
18	55594	And	**A 1816**			6.9	10.8	1.8"	1.8"	148°	135°	1970	1908	F1V	02h29m07.5s	+37°19'47"	**18**
18	55680	And	**HJ 1120**		AC	6.3	10.6	42.6"	39.6"	321°	321°	1998	1906		02h35m27.9s	+39°39'52"	**18**
18	55680	And			AB	6.3	10.8	15.1"	17.8"	77°	92°	1998	1894	B9pHgMn	02h35m27.9s	+39°39'52"	**18**
18	52912	And	**Οϑ 244**		AB	6.41	10.15	97.8"	78.9"	295°	305°	2002	1875	K1III	23h19m41.6s	+48°22'52"	**18**
18	52912	And			AC	6.41	11.4	134.3"	136.4"	105°	104°	1925	1910	K1III	23h19m41.6s	+48°22'52"	**18**
18	52927	And	**Σ 3004**			6.26	10.13	13.5"	13.1"	177°	178°	2003	1833	A5Vn	23h20m44.1s	+44°06'58"	**18**
18	73190	And	**12 And**	ENG 86	AB	5.82	9.67	126.4"	118.8"	259°	256°	2002	1886	F5V	23h20m53.3s	+38°10'56"	**18**
18	53202	And	**Οϑ 500**		AB	6.08	7.38	0.5"	0.3"	9°	273°	2005	1843	B8V	23h37m32.1s	+44°25'44"	**18**
18	53202	And			AB-C	6.08	10.95	117.9"	116.6"	334°	335°	1998	1894		23h37m32.1s	+44°25'44"	**18**
18	53225	And	**β 722**		AD	6.8	10.9	47.2"	44.6"	248°	247°	1998	1894		23h38m26.5s	+42°30'41"	**18**
18	73422	And	**Οϑ 501**			6.54	10.57	15"	14.2"	163°	164°	1998	1843	F2IV	23h40m02.8s	+37°39'09"	**18**
18	53355	And	**ψ And**	β 1532	Aa-D	5.09	9.46	186.6"	184"	153°	152°	2002	1879	K0	23h46m02.1s	+46°25'13"	**18**
18	53374	And	**β 995**			6.11	8.73	0.8"	0.9"	246°	244°	1999	1879	B3IV	23h47m33.1s	+46°49'57"	**18**
18	73597	And	**HO 205**		AD	6.72	9.41	117.5"	102.3"	216°	211°	2002	1913		23h54m04.1s	+39°16'57"	**18**
18	73640	And	**Οϑ 513**			6.82	9.34	3.4"	3.6"	18°	18°	2005	1851	A3	23h58m21.2s	+35°00'47"	**18**
18	73656	And	**Σ 3050**		AB	6.46	6.72	2.2"	4"	334°	180°	2006	1777	F8V	23h59m29.3s	+33°43'25"	**18**
18	74966	Ari	**1 Ari**	Σ 174		6.33	7.21	2.9"	3"	164°	167°	2006	1782	G3III	01h50m08.6s	+22°16'31"	**18**
18	92681	Ari	**γ Ari**	Σ 180	AB	4.52	4.58	7.6"	10.2"	0°	356°	2006	1779	A1pSi B9V	01h53m31.9s	+19°17'37"	**18**
18	92681	Ari		Σ 180	AC	4.52	8.63	217.3"	228.8"	83°	85°	2001	1823		01h53m31.9s	+19°17'37"	**18**
18	75051	Ari	**λ Ari**	H 5 12	AB	4.8	6.65	38.2"	38"	47°	48°	2006	1777	F0IV F7V	01h57m55.7s	+23°35'46"	**18**
18	75051	Ari		H 5 12	AC	4.8	9.7	188.7"	175.3"	76°	74°	2005	1892	F0IV K	01h57m55.7s	+23°35'46"	**18**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
18	75114	Ari	**10 Ari**	Σ 208	AB	5.82	7.87	1.2"	2"	336°	23°	2003	1821	F8IV	02h03m39.4s	+25°56'08"	**18**
18	75171	Ari	**14 Ari**	H 6 69	AC	5.02	7.97	106.7"	105.3"	278°	278°	2003	1823		02h09m25.4s	+25°56'23"	**18**
18	75171	Ari		H 6 69	AB	4.99	8.01	93.2"	82.6"	34°	44°	1983	1833	F2III	02h09m25.4s	+25°56'23"	**18**
18	21395	Cas	**OΣ 9**		AB	6.87	9.67	2"	1.3"	51°	53°	2002	1845	G3III	00h26m12.0s	+56°46'45"	**18**
18	21395	Cas			AC	6.87	9.9	22.4"	23"	3°	102°	2003	1897	G3III	00h26m12.0s	+56°46'45"	**18**
18	36374	Cas	**Σ 30**		AB	6.96	8.92	14.1"	21.2"	312°	296°	2006	1831	B9III	00h27m12.5s	+49°59'09"	**18**
18	36374	Cas		FLE 1	AD	6.7	10	149.2"	148.5"	261°	250°	1998	1956		00h27m12.5s	+49°59'09"	**18**
18	36542	Cas	**Σ 45**		AB	6.9	9.9	18.3"	8.8"	90°	83°	2003	1829	G9III	00h38m41.5s	+46°57'24"	**18**
18	36550	Cas	**OΣ 16**			5.7	10.2	12.8"	16.9"	22°	25°	1998	1845	K4III	00h39m09.9s	+49°21'16"	**18**
18	21609	Cas	**α Cas**	H 5 18	AD	2.35	8.98	69.5"	56.2"	282°	275°	1998	1781		00h40m55s	+56 34'29"	**18**
18	21677	Cas	**β 492**		AC	5.5	10.4	88.6"	88.3"	26°	24°	2000	1909		00h45m17.2s	+55°13'17"	**18**
18	21814	Cas	**Σ 70**		AB	6.33	9.49	8.2"	9"	246°	243°	2002	1831	A0	00h53m47.6s	+52°41'21"	**18**
18	21814	Cas			AC	6.2	9.8	75.3"	80.3"	151°	148°	1985	1903		00h53m47.6s	+52°41'21"	**18**
18	36853	Cas	**ES 45**			6.9	10.8	7.8"	7.9"	244°	242°	2002	1900	G5	01h01m27.0s	+49°32'39"	**18**
18	22021	Cas	**H 4 66**		AB	6.5	10.1	20.4"	24"	74°	77°	2006	1783	K2III	01h07m09.5s	+53°29'53"	**18**
18	22060	Cas	**β 235**		AP	6.9	7.93	0.97"		129°		1991			01h10m34.3s	+51°00'48"	**18**
18	22060	Cas		OΣ 12	AC	6.9	9	59.4"		68°					01h10m34.3s	+51°00'48"	**18**
18	20954	Cas	**OΣ 512**		AB	6.85	9.72	2.7"	5.4"	305°	269°	1991	1843	M2.5III	23h57m19.5s	+61°01'34"	**18**
18	35947	Cas	**σ Cas**	Σ 3049	AB	4.99	7.24	3.2"	2.5"	327°	331°	2004	1780	B1V	23h59m00.5s	+55°45'18"	**18**
18	35947	Cas		Σ 3049	AC	4.99	10.37	106.7"	109.9"	66°	67°	2001	1879		23h59m00.5s	+55°45'18"	**18**
18	128868	Cet	**HDO 31**			6.64	10.8	30.5"		307°		1901			00h38m04.5s	-00°30'13"	**18**
18	128891	Cet	**HJ 323**			6.01	8.46	63.2"	57.9"	287°	290°	2003	1837	K0III	00h40m42.4s	-04°21'07"	**18**
18	109643	Cet	**26 Cet**	Σ 84	AB	6.11	9.52	16.7"	17.1"	256°	255°	2006	1782	F1V	01h03m49.1s	+01°22'00"	**18**
18	129235	Cet	**42 Cet**	Σ 113	A-BC	6.45	6.99	1.6"	1.3"	18°	331°	2006	1829	A2V+G4III	01h19m48.3s	-00°30'33"	**18**
18	110235	Cet	**Σ 186**			6.79	6.84	0.9"	1.4"	245°	240°	2006	1825	F9V	01h55m53.9s	+01°51'01"	**18**
18	129588	Cet	**β 7**		AC	6.58	8.84	151.1"	148.9"	200°	197°	2002	1891	A0	01h57m59.4s	-02°03'34"	**18**
18	129588	Cet			AB	6.58	10.36	3.1"	3.5"	16°	15°	1991	1871	A0	01h57m59.4s	-02°03'34"	**18**
18	129667	Cet	**61 Cet**	H 5 102	AB	5.96	10.77	43"	37.9"	194°	194°	1998	1782	G5II-III	02h03m48.2s	-00°20'25"	**18**
18	129752	Cet	**66 Cet**	Σ 231	AB	5.72	7.71	17.2"	16.9"	236°	235°	2006	1783	F8V G1V	02h12m47.7s	-02°23'38"	**18**
18	129825	Cet	**o Cet**	H 6 1	Aa-C	6.65	9.59	122"	114.6"	69°	92°	2003	1782		02h19m20.8s	-02°58'41"	**18**
18	91669	Peg	**85 Peg**	β 733	AB	5.8	8.9	0.8"	0.7"	243°	274°	2005	1878	G7V+K5V	00h02m10.5s	+27°04'49"	**18**
18	91669	Peg		β 733	AC	5.83	9.88	161.7"	32.8"	325°	114°	2000	1852	K7	00h02m10.5s	+27°04'49"	**18**
18	73731	Peg	**FOX 103**			6.25	10.72	14.2"	23.4"	143°	121°	1998	1895	K4IIIb	00h04m56.1s	+26°38'55"	**18**
18	73341	Peg	**72 Peg**	β 720		5.67	6.11	0.5"	0.4"	98°	309°	2005	1878	K4IIIb	23h33m57.2s	+31°19'31"	**18**
18	108729	Peg	**74 Peg**	ENG 87	AB	6.26	10.7	91.2"	100.1"	28°	36°	2002	1887	A1V	23h37m39.8s	+16°49'32"	**18**
18	91457	Peg	**78 Peg**	AGC 14		5.07	8.1	0.8"	1.5"	268°	192°	1999	1876	G8III	23h43m59.5s	+29°21'41"	**18**
18	91467	Peg	**OΣ 505**			6.75	9.61	2.5"	2.2"	59°	55°	2003	1849	G8III	23h45m29.3s	+20°24'56"	**18**
18	91574	Peg	**OΣ 252**			6.77	8.37	111.1"	111.8"	145°	143°	1999	1875	K2 K0	23h54m56.4s	+29°28'32"	**18**
18	108931	Peg	**HJ 321**			6.62	10.5	25.3"	20.9"	135°	133°	2003	1900	B9V	23h57m46.2s	+11°28'28"	**18**
18	37536	Per	**Σ 162**		Aa-B	5.8	7.22	1.9"	2.2"	200°	227°	2006	1828		01h49m15.5s	+47°53'49"	**18**
18	37536	Per			Aa-C	5.8	9.4	20.4"	20.6"	179°	177°	2006	1828		01h49m15.5s	+47°53'49"	**18**
18	37536	Per			Aa-D	5.8	10.01	138.3"	134.7"	95°	95°	2003	1881	A2	01h49m15.5s	+47°53'49"	**18**
18	37536	Per			BC	7	8.4	18.8"	20.1"	176°	177°	2003	1902		01h49m15.5s	+47°53'49"	**18**
18	23425	Per	**OΣ 42**		AB-D	6.68	9.99	128.4"	124.7"	84°	83°	2002	1875		02h33m18.9s	+52°18'32"	**18**
18	38274	Per	**β 521**		AC	6.6	10.7	72.1"	73.1"	233°	233°	1999	1898		02h43m01.9s	+48°15'55"	**18**
18	23674	Per	**Σ 314**		AB-C	6.95	7.26	1.6"	1.3"	314°	291°	2006	1825		02h52m52.0s	+52°59'50"	**18**
18	38418	Per	**OΣ 48**			6.5	10.6	6.6"	4.5"	319°	322°	1991	1851	G5lab:	02h53m21.1s	+48°34'12"	**18**
18	38424	Per	**β 1293**			6.81	10.45	2"	1.7"	349°	352°	1991	1900	B9	02h54m01.0s	+47°09'39"	**18**
18	23763	Per	**Σ 331**			5.21	6.17	11.9"	13.5"	85°	81°	2002	1800	B7V B9V	03h00m52.2s	+52°21'06"	**18**
18	109087	Psc	**35 Psc**	Σ 12	A-BC	4.36	9.88	49.4"	49.8"	313°	311°	2002	1824	K1III	00h14m58.9s	+08°49'15"	**18**
18	109111	Psc	**Σ 22**		AB-C	7.13	7.66	4"	4"	235°	245°	2004	1782		00h17m24.6s	+08°52'36"	**18**
18	91858	Psc	**β 1093**			6.73	8.55	0.7"	0.4"	117°	54°	2003	1889	A0V	00h20m54.6s	+10°58'37"	**18**
18	91866	Psc	**42 Psc**	Σ 27		6.4	10.3	30.6"	31.7"	315°	344°	2006	1829	K3III G5	00h22m25.5s	+13°28'57"	**18**
18	109206	Psc	**HDO 18**			6.91	10.4	59.8"	50"	173°	180°	2000	1868	B5V	00h26m16.5s	+03°49'33"	**18**
18	91903	Psc	**OΣ 10**		AB	6.46	10.19	111.6"	96.3"	240°	237°	2002	1866	A7III+F8V	00h27m31.1s	+16°01'32"	**18**
18	91934	Psc	**Σ 32**			6.84	10.64	27"	13.4"	101°	108°	2003	1829	A2.5V	00h30m47.1s	+16°02'15"	**18**
18	109262	Psc	**51 Psc**	Σ 36	Aa-B	5.68	9.52	27.1"	22.5"	82°	80°	2003	1783		00h32m23.8s	+06°57'20"	**18**
18	109262	Psc		Σ 36	Aa-C	5.68	9.94	167.9"	164.5"	227°	227°	2003	1893		00h32m23.8s	+06°57'20"	**18**
18	74182	Psc	**55 Psc**	Σ 46	Aa-B	6	6.23	39.5"	37"	133°	141°	2005	1800	G1.5V	00h39m55.6s	+21°26'18"	**18**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
18	109471	Psc	**BUP 10**		Aa-B	5.8	10.4	158.5"	194.7"	241°	201°	2000	1909	G5	00h48m23.4s	+05°16'42"	**18**
18	74296	Psc	**65 Psc**	Σ 61		6.33	6.34	4.4"	4"	115°	121°	2006	1783	F5III	00h49m53.2s	+27°42'37"	**18**
18	92145	Psc	**66 Psc**	OΣ 20	AB	6.12	7.19	0.5"	0.6"	189°	60°	2003	1843	B9V	00h54m35.2s	+19°11'18"	**18**
18	74482	Psc	**ψ 1 Psc**	Σ 88	AB	5.27	5.45	30.3"	30.4"	159°	156°	2006	1755	B9.5V A0V	01h05m41.0s	+21°28'23"	**18**
18	109666	Psc	**77 Psc**	Σ 90	AB	6.39	7.26	33.8"	29.6"	83°	85°	2006	1782	F3V F5V	01h05m49.2s	+04°54'29"	**18**
18	54421	Psc	**S 393**		AB	6.42	10.61	60"	48.1"	298°	286°	2003	1780	K0	01h06m11.2s	+32°10'53"	**18**
18	74523	Psc	**β 303**			7.32	7.56	0.6"	0.6"	291°	286°	2005	1875	F0IV	01h09m39.2s	+23°47'39"	**18**
18	54514	Psc	**Σ 98**		AB	7.02	8.14	19.6"	18.3"	249°	249°	2003	1783	A0V A3IV	01h12m53.0s	+32°04'32"	**18**
18	74561	Psc	**OΣ 26**		AB	6.34	10.54	10.6"	11.1"	258°	260°	1999	1843	G9III+G1V	01h12m59.5s	+30°03'51"	**18**
18	74561	Psc			AC	6.9	11	72.9"	72.1"	133°	133°	1999	1904		01h12m59.5s	+30°03'51"	**18**
18	74561	Psc			AD	6.2	10.2	54"	54"	105°	105°	1843	1843		01h12m59.5s	+30°03'51"	**18**
18	109739	Psc	**ζ Psc**	Σ 100	AB	5.22	6.15	23.3"	25.2"	63°	67°	2006	1755	A7IV F7V	01h13m44.0s	+07°34'31"	**18**
18	109883	Psc	**J 1899**		AB	7	10.2	150"	150"	42°	42°	1941	1941	F0	01h25m40.7s	+02°58'19"	**18**
18	109895	Psc	**Σ 122**			6.65	9.51	5.9"	4"	328°	180°	2003	1777	B9V+A8V	01h26m53.6s	+03°32'08"	**18**
18	109907	Psc	**S 398**			6.34	8.02	69.1"	69.8"	100°	98°	2001	1825	K1III	01h28m23.0s	+07°57'41"	**18**
18	92484	Psc	**η Psc**	β 506		3.83	7.51	0.6"	1"	54°	13°	2000	1878	G8III	01h31m29.0s	+15°20'45"	**18**
18	92492	Psc	**Σ 132**		AB	6.88	10.61	61.2"	16"	343°	28°	2003	1783	K0III	01h32m03.2s	+16°56'49"	**18**
18	92492	Psc			AC	6.8	10.9	67.4"	100"	246°	225°	1998	1883		01h32m03.2s	+16°56'49"	**18**
18	92492	Psc			AD	6.9	10	116.5"	140.2"	109°	114°	2003	1888		01h32m03.2s	+16°56'49"	**18**
18	109964	Psc	**OΣ 31**			6.46	10.56	4"	4.1"	78°	83°	1991	1850	K0III	01h33m18.3s	+08°12'31"	**18**
18	110001	Psc	**Σ 138**		AB	7.5	7.63	1.7"	1.5"	57°	18°	2003	1825	F6V	01h36m02.8s	+07°38'43"	**18**
18	92555	Psc	**β 5**		AB	6.98	9.2	0.6"	1.5"	285°	300°	1997	1872	G3III	01h39m15.2s	+16°37'32"	**18**
18	74870	Psc	**Σ 145**		AB	6.3	10.9	10.5"	11.2"	31°	32°	1997	1830	F6V	01h41m18.4s	+25°44'44"	**18**
18	74870	Psc			AC	6.2	11.1	82.4"		338°		1997	1830	F6V	01h41m18.4s	+25°44'44"	**18**
18	110291	Psc	**α Psc**	Σ 202	AB	4.1	5.17	1.8"	5.1"	269°	337°	2006	1781	A0p A3m	02h02m02.8s	+02°45'50"	**18**
18	146915	Psc	**20 Psc**	S 835	AB	5.59	9.83	175.8"	172.7"	283°	285°	2002	1824	G8III	23h47m56.6s	-02°45'42"	**18**
18	55347	Tri	**6 Tri**	Σ 227		5.26	6.67	4"	3.9"	69°	78°	2006	1821	G0III	02h12m22.3s	+30°18'11"	**18**
18	75265	Tri	**Σ 239**			7.09	7.83	13.8"	14.4"	212°	209°	2006	1821	F7V F9V	02h17m25.3s	+28°44'42"	**18**
18	55687	Tri	**15 Tri**	AG 304		5.57	6.75	142.2"	138.4"	16°	18°	2003	1896	M3IIIa	02h35m46.8s	+34°41'15"	**18**

CHART 19

19	127036	Aqr	**β 689**			7.19	10.47	1.8"	1.8"	244°	235°	1991	1877	K2	21h44m48.2s	+02°59'32"	**19**
19	145716	Aqr	**SCA 104**			6.59	11	63.2"	63.3"	116°	116°	1998	1893	A0	21h52m21.3s	-03°10'29"	**19**
19	145735	Aqr	**Σ 2838**			6.29	9.52	16.1"	21.7"	182°	185°	2003	1829	F5IV	21h54m35.9s	-03°18'05"	**19**
19	164923	Aqr	**39 Aqr**	HDS 3152		6.19	9.34	0.5"	0.6"	262°	257°	2001	1991	F0V	22h12m25.8s	-14°11'39"	**19**
19	190986	Aqr	**41 Aqr**	H N 56	AB	5.63	6.72	5.2"	5.2"	112°	121°	2006	1823	K0III+F2V	22h14m18.0s	-21°04'28"	**19**
19	190986	Aqr		H N 56	AC	5.63	8.94	209.3"	215.3"	43°	44°	1998	1895	F2V	22h14m18.0s	-21°04'28"	**19**
19	146067	Aqr	**51 Aqr**	β 172	AB-E	5.77	9.87	130.3"	133"	133°	133°	2002	1893		22h24m06.9s	-04°50'13"	**19**
19	146067	Aqr		β 172	AB-C	5.78	10.1	53.1"	54.4"	343°	342°	2005	1898		22h24m06.9s	-04°50'13"	**19**
19	146067	Aqr		β 172	AB-D	5.78	10	123.3"	113"	191°	190°	2002	1893		22h24m06.9s	-04°50'13"	**19**
19	191131	Aqr	**S 808**			7.13	8.01	6.9"	6.9"	153°	152°	2002	1825	G5III	22h25m48.0s	-20°14'13"	**19**
19	165078	Aqr	**53 Aqr**	SHJ 345	AB	6.29	6.39	1.4"	12.7"	24°	291°	2005	1800	G0V G0V	22h26m34.4s	-16°44'32"	**19**
19	146107	Aqr	**ζ Aqr**	Σ 2909		4.34	4.49	1.9"	3"	172°	18°	2006	1777	F3IV-V	22h28m50.0s	-00°01'12"	**19**
19	165134	Aqr	**σ Aqr**	HDS 3190		4.81	8.47	3.7"	3.7"	10°	10°	1991	1991	A0IVs	22h30m38.8s	-10°40'41"	**19**
19	146160	Aqr	**60 Aqr**	β 1515	AB	5.89	10.3	100.2"	95.6"	298°	298°	1999	1896	G6III	22h34m02.9s	-01°34'28"	**19**
19	146160	Aqr		β 1515	AC	5.9	10.5	126.9"	124"	276°	274°	1999	1896		22h34m02.9s	-01°34'28"	**19**
19	146210	Aqr	**κ Aqr**	HJ 5529		5	8.8	93"	103.1"	243°	246°	1980	1896	K2III	22h37m45.3s	-04°13'42"	**19**
19	146251	Aqr	**H N 140**		AB	7.1	9.7	75"	77"	263°	262°	1980	1892	M0	22h42m06.1s	-05°06'07"	**19**
19	146251	Aqr			AC	6.71	9.74	160"	162.6"	187°	182°	2002	1890		22h42m06.1s	-05°06'07"	**19**
19	146261	Aqr	**SCA 130**			6.98	10.4	74.9"	74"	189°	189°	2000	1895	F0	22h42m49.2s	+00°13'55"	**19**
19	127707	Aqr	**Σ 2936**			7.04	9.6	4.5"	5"	51°	47°	2003	1830	A6III	22h42m58.1s	+01°13'02"	**19**
19	146271	Aqr	**Σ 2935**		AB	6.79	7.88	2.2"	3"	307°	311°	2006	1782	A5V	22h43m03.4s	-08°18'41"	**19**
19	146271	Aqr			AC	6.5	10.7	70.1"	70"	357°	358°	1998	1892		22h43m03.4s	-08°18'41"	**19**
19	165298	Aqr	**69 Aqr**	Σ 2943		5.68	9.57	21.5"	35.6"	126°	110°	2006	1783	A0V	22h47m42.8s	-14°03'23"	**19**
19	165321	Aqr	**τ Aqr**	H 6 97		4.21	9.94	131.5"	133.4"	296°	293°	2005	1825	M0III	22h49m35.5s	-13°35'34"	**19**
19	146388	Aqr	**β 178**			6.03	7.75	0.6"	0.6"	323°	310°	2001	1873	G4:III	22h55m11.0s	-04°59'16"	**19**
19	165456	Aqr	**β 384**			6.88	9.15	1.1"	1"	59°	90°	2001	1874	A2/3V	23h02m37.8s	-18°32'30"	**19**
19	165578	Aqr	**β 715**		AB	6.1	10.9	3.8"	3.4"	256°	253°	1958	1877	K5III	23h14m40.2s	-10°41'20"	**19**
19	165578	Aqr		FOX 271	AD	6.1	11	115.1"	116.6"	131°	134°	2002	1901		23h14m40.2s	-10°41'20"	**19**
19	146598	Aqr	**ψ1 Aqr**	Σ 12	A-BC	4.22	9.18	49.6"		312°		1836		K1III	23h15m53.5s	-09°05'16"	**19**
19	165625	Aqr	**94 Aqr**	Σ 2998	Aa-B	5.27	6.97	12.6"	14.2"	349°	347°	2006	1821		23h19m06.8s	-13°27'31"	**19**
19	191873	Aqr	**I 1058**			6.5	10	1.9"	2"	233°	260°	1913	1910	F5IV	23h24m03.9s	-21°46'28"	**19**
19	191988	Aqr	**101 Aqr**	B 1900		4.76	7.68	0.7"	0.6"	124°	122°	2001	1929	A0V	23h33m16.6s	-20°54'52"	**19**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
19	165804	Aqr	**HJ 316**		AB	5.65	9.6	30.1"	30"	98°	91°	2003	1831	G9III	23h37m39.6s	-13°03'37"	**19**
19	165828	Aqr	**HDS 3365**			6.03	10.04	0.9"	0.9"	178°	183°	1999	1991	K0III	23h41m08.9s	-11°40'50"	**19**
19	165836	Aqr	**104 Aqr**	HJ 5413	AB	4.91	8.56	119.5"	123.2"	5°	6°	2001	1892	G0Ib-II	23h41m45.8s	-17°49'00"	**19**
19	165867	Aqr	**107 Aqr**	H 2 24		5.65	6.46	7"	3.3"	135°	154°	2006	1800	A9IV F2V	23h46m01.0s	-18°40'42"	**19**
19	164520	Cap	**ε Cap**	H 6 16		4.49	10.11	67.2"	60"	46°	47°	2002	1830	B2.5Vpe	21h37m04.8s	-19°27'58"	**19**
19	166174	Cet	**β 393**			6.9	8.42	0.7"	0.5"	29°	30°	1991	1875	B9.5IV	00h18m16.9s	-21°08'18"	**19**
19	230846	Gru	**BSO 15**			5.64	8.76	75.2"	20"	351°	14°	1999	1834	G0V	21h48m15.8s	-47°18'15"	**19**
19	213631	Gru	**HJ 5319**			6.9	7.75	2.1"		132°		1991			22h12m02.2s	-38°18'10"	**19**
19	247400	Gru	**HDO 298**			5.4	9.7	5"	2.5"	39°	10°	1988	1894	G3V	22h18m15.8s	-53°37'42"	**19**
19	231105	Gru	**π 1 Gru**	I 135		6.5	10.7	2.8"	2.5"	201°	190°	1975	1896	S5	22h22m44.2s	-45°56'53"	**19**
19	231123	Gru	**JC 19**			6.68	8.15	17.8"	44"	65°	83°	1998	1845	F5V	22h24m39.3s	-41°26'25"	**19**
19	231217	Gru	**σ 2 Gru**	β 771		5.88	10.03	2.7"	1.3"	265°	270°	1991	1879	A1V	22h36m58.9s	-40°35'28"	**19**
19	231223	Gru	**I 138**			6.65	10.74	3.4"	3.5"	277°	279°	1991	1896	F7V	22h37m47.7s	-39°51'26"	**19**
19	247531	Gru	**HJ 5349**			6.67	11.5	33.8"		118°		1914			22h39m08.4s	-52°41'31"	**19**
19	231257	Gru	**COO 252**			6	11	7.8"		126°	133°	1967	1897	G0V	22h42m36.9s	-47°12'41"	**19**
19	231290	Gru	**HJ 5362**			6.64	9.9	10.4"	8"	141°	140°	1998	1834	A9III:	22h46m43.7s	-46°56'22"	**19**
19	231444	Gru	**θ Gru**	JC 20	AB	4.45	6.6	1.5"	3.1"	108°	12°	2001	1846		23h06m52.7s	-43°31'13"	**19**
19	231444	Gru		JC 20	AC	4.45	7.77	158.9"	160.2"	292°	293°	2002	1851	G2V	23h06m52.7s	-43°31'13"	**19**
19	214313	Gru	**υ Gru**	β 773		5.7	8.24	1"	1.2"	206°	212°	2001	1920	A1V	23h06m53.6s	-38°53'32"	**19**
19	247739	Gru	**Δ246**			6.29	7.05	8.8"	10"	254°	233°	1999	1826	F6-7IV-V	23h07m14.8s	-50°41'12"	**19**
19	231532	Gru	**HJ 5390**			5.92	10.7	22.6"	15"	43°	13°	1999	1834	K1III	23h16m39.8s	-44°29'21"	**19**
19	247838	Gru	**Δ 248**		AB-C	6.11	6.58	16.8"	16"	212°	217°	2000	1826	A8	23h20m50.2s	-50°18'24"	**19**
19	247838	Gru		RST 5560	AB	6.15	8.93	1.3"	0.5"	233°	243°	1999	1947		23h20m50.2s	-50°18'24"	**19**
19	247854	Gru	**Δ 249**			6.14	7.07	26.5"	27.1"	212°	212°	2000	1826	A4III	23h23m54.6s	-53°48'32"	**19**
19	230501	Ind	**I 130**			7.17	9.85	3.3"	3.2"	319°	313°	1991	1896	K2III	21h04m08.1s	-47°57'39"	**19**
19	230591	Ind	**I 1437**			7.03	10.25	1.1"	0.9"	348°	354°	1991	1926	K3III	21h15m02.1s	-49°05'51"	**19**
19	230667	Mic	**θ 2 Mic**	β 766	AC	6.4	10.5	79.1"	78.4"	65°	66°	1999	1879		21h24m24.8s	-41°00'24"	**19**
19	230667	Mic		β 766	AB	6.24	6.88	0.3"	0.8"	210°	314°	1999	1879	A0IIIpSi	21h24m24.8s	-41°00'24"	**19**
19	230692	Mic	**MLO 6**			5.63	8.15	2.9"	4.1"	150°	146°	1999	1879	Am	21h27m01.6s	-42°32'52"	**19**
19	127551	Peg	**37 Peg**	Σ 2912		5.7	7.59	0.4"	1.2"	299°	115°	2001	1825	F2V	22h29m57.9s	+04°25'53"	**19**
19	248097	Phe	**HJ 5437**			6.55	9.85	1.6"	2.5"	331°	296°	2001	1836	G0/2IV	00h00m34.4s	-53°05'52"	**19**
19	215208	Phe	**HJ 3390**			7.09	10.25	14.3"	15"	313°	314°	2000	1834	K0III	00h43m17.5s	-45°10'53"	**19**
19	215270	Phe	**I 47**			7.45	7.95	0.8"	1"	23°	0°	2001	1895	F2V+F5V	00h51m52.2s	-43°42'32"	**19**
19	231719	Phe	**θ Phe**	Δ 251		6.53	7.27	3.9"	3"	276°	270°	2002	1834	A8V+F0V	23h39m28.0s	-46°38'16"	**19**
19	231726	Phe	**HDO 303**			7.18	9.33	2"	3"	66°	45°	1991	1897	K1III	23h39m59.9s	-47°19'35"	**19**
19	231749	Phe	**HJ 5416**		AC	6.8	10.4	45.4"	35"	215°	218°	1999	1834		23h43m05.9s	-46°18'44"	**19**
19	248023	Phe	**I 305**			6.88	10.88	3.14"		122°		1991			23h48m06.9s	-50°53'28"	**19**
19	190822	PsA	**η PsA**	β 276		5.7	6.77	1.4"	1.8"	112°	120°	2006	1874	B8Ve	22h00m50.2s	-28°27'13"	**19**
19	213625	PsA	**β 769**		Aa-B	7.06	8.18	0.8"	0.6"	358°	349°	1991	1879		22h11m38.0s	-34°27'55"	**19**
19	213883	PsA	**β PsA**	PZ 7		4.28	7.12	30.6"	35.3"	173°	173°	2006	1826	A0V	22h31m30.4s	-32°20'46"	**19**
19	213948	PsA	**Δ 241**			5.93	7.55	93.3"	84.4"	31°	33°	1999	1826	K1III	22h36m35.4s	-31°39'50"	**19**
19	191308	PsA	**H 6 119**		AB	6.43	7.5	86.5"	87"	159°	158°	1991	1783	K0III	22h39m44.2s	-28°19'33"	**19**
19	191308	PsA		H N 117	BC	7.49	8.61	3.1"	2"	69°	59°	2000	1834	F5IV	22h39m44.2s	-28°19'33"	**19**
19	214153	PsA	**γ PsA**	HJ 5367		4.5	8.2	4"	2.5"	258°	275°	1992	1834	A0III	22h52m31.5s	-32°52'32"	**19**
19	146402	Psc	**Σ 2959**		AB	6.65	10.18	10.5"	15.7"	124°	97°	2006	1832	A0	22h57m06.9s	-03°14'43"	**19**
19	128019	Psc	**HJ 980**		AB	6.9	10.6	76.6"	73.5"	185°	184°	1996	1902	M3	23h11m14.1s	+05°00'16"	**19**
19	128156	Psc	**HJ 3189**			6.31	10.5	39.2"	50"	148°	130°	2003	1831	K2	23h23m32.0s	+00°17'29"	**19**
19	128160	Psc	**Σ 3009**		AB	6.87	8.76	7"	6.9"	232°	230°	2005	1829	K2III	23h24m16.5s	+03°42'56"	**19**
19	146915	Psc	**20 Psc**	S 835	AB	5.59	9.83	175.8"	172.7"	283°	285°	2002	1824	G8III	23h47m56.6s	-02°45'42"	**19**
19	166083	Scl	**κ 1 Scl**	β 391	AB	6.13	6.24	1.3"	0.7"	260°	290°	2006	1875	F4IV-V	00h09m21.1s	-27°59'17"	**19**
19	192690	Scl	**λ 1 Scl**	HDO 182		6.6	7.01	0.7"	0.5"	17°	322°	1996	1901	A0V	00h42m42.9s	-38°27'49"	**19**
19	192020	Scl	**SEE 492**			6.84	9.18	0.6"	0.4"	357°	265°	2001	1897	F9V	23h35m40.1s	-27°29'27"	**19**
19	214659	Scl	**HWE 93**			6.69	9.92	5.5"	5.5"	251°	250°	1991	1877	K1III	23h37m05.4s	-31°52'16"	**19**
19	192116	Scl	**HJ 5417**			6.28	9.41	8.1"	8"	319°	327°	2002	1836	F7V	23h44m29.0s	-26°14'48"	**19**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
19	192167	Scl	**δ Scl**	HJ 3216	AC	4.57	9.37	74.7"	80"	296°	301°	1998	1830	K1V	23h48m55.6s	-28°07'50"	**19**
19	192167	Scl		β 1013	AB	4.56	11.6	3.8"	3.3"	250°	228°	1964	1881	A0V	23h48m55.6s	-28°07'50"	**19**
19	192231	Scl	**LAL 192**			6.79	7.41	6.7"	5"	271°	270°	2006	1826	A2V F2V	23h54m21.4s	-27°02'34"	**19**

CHART 20

20	125069	Aql	**ENG 67**		AB	6.84	10.69	96.7"	102"	110°	123°	1999	1893	G0IV	19h47m33.3s	+01°05'18"	**20**
20	163026	Aql	**RST 4643**			6.91	10.26	1.4"	1.3"	264°	277°	1991	1940	G5	19h50m09.8s	-10°00'26"	**20**
20	125141	Aql	**Σ 2587**			6.71	9.42	4.3"	4.1"	101°	99°	2003	1828	A5V+K2III	19h51m26.8s	+04°05'19"	**20**
20	143898	Aql	**57 Aql**	Σ 2594		5.65	6.35	36.3"	29.5"	170°	172°	2006	1781	B7Vn B8V	19h54m37.7s	-08°13'38"	**20**
20	144649	Aql	**71 Aql**	β 672		4.32	11	35.5"	30.5"	284°	281°	1998	1878	G8III	20h 38.3min	-1° 6'	**20**
20	125429	Aql	**HJ 2927**			6.93	11.4	24.3"		125°		1901			20h05m20.3s	+00°27'16"	**20**
20	125567	Aql	**Σ 2644**			6.92	7.06	2.7"	3"	206°	214°	2006	1783	B9p	20h12m35.1s	+00°52'01"	**20**
20	144173	Aql	**Σ 2643**			7.09	9.4	3"	3.2"	80°	71°	1998	1830	A0V	20h12m47.3s	-02°59'45"	**20**
20	144212	Aql	**Σ 2654**			6.96	8.14	14.8"	14.1"	233°	233°	2006	1822	F2V F4V	20h15m10.6s	-03°30'13"	**20**
20	144237	Aql	**RST 4659**			7.16	9.19	1.7"	1.2"	7°	356°	1991	1939	F5	20h16m50.3s	-03°29'31"	**20**
20	125769	Aql	**Σ 2677**		AB	6.15	10.6	31.4"	33.2"	30°	29°	2000	1828		20h24m37.5s	+01°04'06"	**20**
20	144450	Aql	**S 749**		AB	6.76	7.51	59.7"	61.5"	189°	193°	2002	1800	F7V	20h27m27.5s	-02°06'12"	**20**
20	144450	Aql			AC	6.6	10.7	44.6"	44.9"	327°	314°	2002	1891		20h27m27.5s	-02°06'12"	**20**
20	144450	Aql			AD	6.6	10.8	90.9"	100.4"	269°	266°	2002	1891		20h27m27.5s	-02°06'12"	**20**
20	144537	Aql	**A 170**			6.75	10.6	1.7"	1.5"	218°	215°	1991	1900	G8III	20h32m05.1s	-05°14'32"	**20**
20	144877	Aqr	**4 Aqr**	Σ 2729	AB	6.4	7.43	0.9"	0.5"	21°	352°	2002	1783	F5IV-V	20h51m25.8s	-05°37'36"	**20**
20	144877	Aqr		Σ 2729	AD	6.4	9.66	136.2"	128.6"	324°	330°	2002	1890		20h51m25.8s	-05°37'36"	**20**
20	144968	Aqr	**7 Aqr**	β 1034	AC	5.66	9.97	177.8"	176.5"	66°	66°	2002	1905		20h56m54.0s	-09°41'51"	**20**
20	126396	Aqr	**HWE 55**			6.05	11.7	26.2"		72°		1879		K2III	20h57m10.6s	+00°27'49"	**20**
20	126491	Aqr	**Σ 2744**		AB	6.76	7.33	1.2"	1.5"	115°	192°	2006	1825	F7IV	21h03m03.0s	+01°31'55"	**20**
20	145065	Aqr	**12 Aqr**	Σ 2745	Aa-B	5.8	7.5	2.5"	3.2"	194°	192°	2006	1825		21h04m04.7s	-05°49'23"	**20**
20	145121	Aqr	**Σ 2755**			6.88	9.86	25.5"	23.9"	79°	85°	2006	1827	M3III	21h07m32.9s	-00°09'50"	**20**
20	145533	Aqr	**Σ 2809**			6.22	9.36	31.9"	31.1"	163°	164°	2006	1828	A2V	21h37m33.7s	-00°23'26"	**20**
20	145566	Aqr	**β 1212**		AB	6.94	8.44	0.5"	0.5"	276°	255°	2001	1890	F6V	21h39m31.6s	-00°03'04"	**20**
20	145566	Aqr			AB-C	6.63	10.9	36.2"	44.5"	173°	141°	1998	1891		21h39m31.6s	-00°03'04"	**20**
20	127036	Aqr	**β 689**			7.19	10.47	1.8"	1.8"	244°	235°	1991	1877	K2	21h44m48.2s	+02°59'32"	**20**
20	145716	Aqr	**SCA 104**			6.59	11	63.2"	63.3"	116°	116°	1998	1893	A0	21h52m21.3s	-03°10'29"	**20**
20	145735	Aqr	**Σ 2838**			6.29	9.52	16.1"	21.7"	182°	185°	2003	1829	F5IV	21h54m35.9s	-03°18'05"	**20**
20	164923	Aqr	**39 Aqr**	HDS 3152		6.19	9.34	0.5"	0.6"	262°	257°	2001	1991	F0V	22h12m25.8s	-14°11'39"	**20**
20	190986	Aqr	**41 Aqr**	H N 56	AB	5.63	6.72	5.2"	5.2"	112°	121°	2006	1823	K0III+F2V	22h14m18.0s	-21°04'28"	**20**
20	190986	Aqr		H N 56	AC	5.63	8.94	209.3"	215.3"	43°	44°	1998	1895	F2V	22h14m18.0s	-21°04'28"	**20**
20	191131	Aqr	**S 808**			7.13	8.01	6.9"	6.9"	153°	152°	2002	1825	G5III	22h25m48.0s	-20°14'13"	**20**
20	163422	Cap	**α 1 Cap**	HJ 607	AC	4.24	9.6	45.6"	25"	224°	243°	2002	1777		20h17m38.9s	-12°30'30"	**20**
20	163445	Cap	**σ Cap**	H 5 87		5.43	9.43	56.3"	50.1"	180°	175°	2002	1782	K3III	20h19m23.6s	-19°07'07"	**20**
20	163592	Cap	**π Cap**	β 60	Aa-B	5.13	8.53	3.2"	2.9"	146°	145°	2002	1846		20h27m19.2s	-18°12'42"	**20**
20	163614	Cap	**ρ Cap**	SHJ 323	AD	4.97	6.68	258.7"	228.2"	150°	150°	2001	1800		20h28m51.6s	-17°48'49"	**20**
20	163614	Cap		SHJ 323	AB	4.97	6.88	1.3"	3"	194°	174°	2004	1782	F3V	20h28m51.6s	-17°48'49"	**20**
20	163626	Cap	**o Cap**	SHJ 324		5.91	6.68	22.6"	23.5"	239°	239°	2006	1782	A3Vn A7V	20h29m53.9s	-18°35'00"	**20**
20	163665	Cap	**β 668**		AC	5.8	10	103.2"	99"	200°	198°	1921	1906		20h32m23.8s	-09°51'11"	**20**
20	189801	Cap	**HJ 3003**			6.57	8.57	1.6"	3"	198°	217°	1999	1830	K0III	20h53m01.2s	-23°47'00"	**20**
20	190236	Cap	**β 271**		AB	6.73	9.76	1.9"	1.8"	269°	250°	1991	1874	G5V	21h19m45.3s	-26°21'13"	**20**
20	164520	Cap	**ε Cap**	H 6 16		4.49	10.11	67.2"	60"	46°	47°	2002	1830	B2.5Vpe	21h37m04.8s	-19°27'58"	**20**
20	230846	Gru	**BSO 15**			5.64	8.76	75.2"	20"	351°	14°	1999	1834	G0V	21h48m15.8s	-47°18'15"	**20**
20	213631	Gru	**HJ 5319**			6.9	7.75	2.1"		132°		1991			22h12m02.2s	-38°18'10"	**20**
20	247400	Gru	**HDO 298**			5.4	9.7	5"	2.5"	39°	10°	1988	1894	G3V	22h18m15.8s	-53°37'42"	**20**
20	231105	Gru	**π 1 Gru**	I 135		6.5	10.7	2.8"	2.5"	201°	190°	1975	1896	S5	22h22m44.2s	-45°56'53"	**20**
20	231123	Gru	**JC 19**			6.68	8.15	17.8"	44"	65°	83°	1998	1845	F5V	22h24m39.3s	-41°26'25"	**20**
20	231217	Gru	**σ 2 Gru**	β 771		5.88	10.03	2.7"	1.3"	265°	270°	1991	1879	A1V	22h36m58.9s	-40°35'28"	**20**
20	231223	Gru	**I 138**			6.65	10.74	3.4"	3.5"	277°	279°	1991	1896	F7V	22h37m47.7s	-39°51'26"	**20**
20	247531	Gru	**HJ 5349**			6.67	11.5	33.8"		118°		1914			22h39m08.4s	-52°41'31"	**20**
20	231257	Gru	**COO 252**			6	11	7.8"		126°	133°	1967	1897	G0V	22h42m36.9s	-47°12'41"	**20**
20	231290	Gru	**HJ 5362**			6.64	9.9	10.4"	8"	141°	140°	1998	1834	A9III:	22h46m43.7s	-46°56'22"	**20**
20	247739	Gru	**Δ246**			6.29	7.05	8.8"	10"	254°	233°	1999	1826	F6-7IV-V	23h07m14.8s	-50°41'12"	**20**
20	230501	Ind	**I 130**			7.17	9.85	3.3"	3.2"	319°	313°	1991	1896	K2III	21h04m08.1s	-47°57'39"	**20**
20	246896	Ind	**HU 1626**			7.27	8.82	1.2"	0.6"	124°	208°	2001	1914	F8V	21h11m22.8s	-52°20'21"	**20**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
20	230591	Ind	**I 1437**			7.03	10.25	1.1"	0.9"	348°	354°	1991	1926	K3III	21h15m02.1s	-49°05'51"	**20**
20	246965	Ind	**θ Ind**	HJ 5258		4.5	6.93	7"	3.7"	273°	307°	2002	1834	A5V	21h19m52.0s	-53°26'58"	**20**
20	230321	Mic	**HJ 5211**		AB	6.5	10.4	20.1"	20"	300°	301°	1999	1836	G6III	20h40m55.6s	-42°23'48"	**20**
20	212401	Mic	**SEE 428**			6.9	10.9	3.9"	4.3"	186°	189°	1998	1896	G0V	20h45m11.7s	-35°09'59"	**20**
20	212410	Mic	**HJ 5218**			6.6	11	9.7"	7"	191°	189°	1998	1835	F0IV/V	20h45m23.8s	-30°28'42"	**20**
20	212617	Mic	**β 765**			6.86	10.51	1"	2"	95°	140°	1991	1879	K1IV	21h00m40.5s	-35°17'31"	**20**
20	230492	Mic	**Δ 236**			6.68	6.95	57.5"	67.2"	73°	75°	1999	1826	G3IV+K0IV	21h02m12.8s	-43°00'09"	**20**
20	230523	Mic	**η Mic**	SEE 437	AC	5.66	7.92	128.3"	132.9"	88°	88°	1999	1879	F6/7V	21h06m25.5s	-41°23'10"	**20**
20	212743	Mic	**B 1895**			6.89	10.63	0.9"	0.9"	119°	128°	1991	1930	B8IV/V	21h08m41.3s	-37°14'34"	**20**
20	190055	Mic	**DAW 153**			6.98	11.7	3.5"		280°		1922			21h08m58.4s	-28°28'41"	**20**
20	230667	Mic	**θ 2 Mic**	β 766	AC	6.4	10.5	79.1"	78.4"	65°	66°	1999	1879		21h24m24.8s	-41°00'24"	**20**
20	230667	Mic		β 766	AB	6.24	6.88	0.3"	0.8"	210°	314°	1999	1879	A0IIIpSi	21h24m24.8s	-41°00'24"	**20**
20	230692	Mic	**MLO 6**			5.63	8.15	2.9"	4.1"	150°	146°	1999	1879	Am	21h27m01.6s	-42°32'52"	**20**
20	190822	PsA	**η PsA**	β 276		5.7	6.77	1.4"	1.8"	112°	120°	2006	1874	B8Ve	22h00m50.2s	-28°27'13"	**20**
20	213625	PsA	**β 769**		Aa-B	7.06	8.18	0.8"	0.6"	358°	349°	1991	1879		22h11m38.0s	-34°27'55"	**20**
20	213883	PsA	**β PsA**	PZ 7		4.28	7.12	30.6"	35.3"	173°	173°	2006	1826	A0V	22h31m30.4s	-32°20'46"	**20**
20	229646	Sgr	**β 1 Sgr**	Δ 226		3.98	7.21	28.6"	30"	76°	60°	1999	1826	B8V F0V	19h22m38.3s	-44°27'32"	**20**
20	188337	Sgr	**52 Sgr**	β 654		4.7	9.2	2.4"	2.9"	173°	161°	1999	1878	B9	19h36m42.5s	-24°53'01"	**20**
20	162883	Sgr	**54 Sgr**	HJ 599		5.31	8.14	45.6"		42°		1845		K2III+F8V	19h40m43.4s	-16°17'36"	**20**
20	188692	Sgr	**HJ 2904**			6.18	10.3	35"	20"	36°	174°	1997	1830	K3IV	19h54m17.7s	-23°56'31"	**20**
20	211798	Sgr	**SEE 404**		AB	6.63	8.96	0.6"	0.5"	109°	65°	1991	1897	B4III	20h05m32.0s	-32°59'59"	**20**
20	188927	Sgr	**HJ 5168**			6.85	10.3	18.4"	16.5"	80°	81°	2002	1834	K2IV	20h07m23.8s	-29°43'15"	**20**
20	211916	Sgr	**HJ 5178**		AB	6.66	8.34	2.8"	2.5"	9°	10°	1991	1834	K1/2III	20h13m41.6s	-34°07'07"	**20**
20	211948	Sgr	**HJ 5183**			6.39	11.2	38"		229°		1919		M4III	20h16m23.6s	-36°27'13"	**20**
20	189164	Sgr	**HJ 5188**		AC	6.66	7.55	27.9"	25"	320°	323°	2006	1834		20h20m27.9s	-29°11'50"	**20**
20	189164	Sgr			AB	6.66	10.13	3.6"	4"	42°	71°	1998	1834	A2III	20h20m27.9s	-29°11'50"	**20**
20	189164	Sgr			AD	6.66	10.05	120.4"	119.3"	38°	38°	1991	1913		20h20m27.9s	-29°11'50"	**20**
20	212126	Sgr	**R 321**			6.58	8.09	1.5"	1.1"	134°	97°	1999	1880	K2IV K1V	20h26m52.8s	-37°24'11"	**20**
20	246028	Tel	**I 1397**			6.6	10.6	1.5"	1.5"	338°	336°	1928	1926	A1V	19h19m37.4s	-51°34'22"	**20**
20	246311	Tel	**Δ 227**			5.8	6.39	22.5"	23.5"	147°	152°	2002	1826	K0III A2V	19h52m37.7s	-54°58'16"	**20**
20	230083	Tel	**I 123**			6.81	11.3	8.2"		184°		1954			20h10m39.1s	-46°44'07"	**20**

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21	142606	Aql	**5 Aql**	Σ 2379	Aa-B	5.88	7.02	12.8"	11.2"	121°	122°	2006	1796		18h46m28.6s	-00°57'42"	**21**
21	142606	Aql		Σ 2379	Aa-C	5.91	11.31	24.8"	27.5"	146°		1988	1880	A2V	18h46m28.6s	-00°57'42"	**21**
21	142996	Aql	**15 Aql**	SHJ 286		5.52	6.98	40.2"	33.3"	210°	206°	2006	1800	K0IV	19h04m57.7s	-04°01'53"	**21**
21	143029	Aql	**Σ 2447**		AB	6.83	9.62	14.7"	13.8"	341°	345°	2006	1829	B5V	19h06m35.1s	-01°20'46"	**21**
21	124376	Aql	**Σ 2476**		AB-G	7	10.2	30.6"	26.5"	213°	209°	2006	1828		19h12m03.3s	+02°37'21"	**21**
21	143163	Aql	**A 98**		A- BC	6.5	10.3	22.8"	28.8"	129°	128°	2003	1900		19h14m16.0s	-08°43'09"	**21**
21	143163	Aql			AB	6.5	11	26"	28.8"	128°	128°	1937	1900	K0IV	19h14m16.0s	-08°43'09"	**21**
21	162401	Aql	**β 140**		AB	7	10.4	44.9"	30"	309°	330°	1981	1873	G0V	19h16m52.3s	-10°58'18"	**21**
21	124487	Aql	**23 Aql**	Σ 2492	AB	5.28	8.29	3"	3.5"	4°	18°	1997	1781	G9III	19h18m32.5s	+01°05'07"	**21**
21	143275	Aql	**Σ 2494**			6.98	10.4	26.4"	26.6"	89°	76°	2006	1848	K0	19h20m02.8s	-06°37'41"	**21**
21	124698	Aql	**Σ 2532**		AB	6.09	10.6	32.7"	34.9"	3°	5°	1983	1829	M1III	19h30m10.5s	+02°54'15"	**21**
21	124698	Aql			AC	6.27	10.91	119.9"	119.5"	197°	197°	1999	1909		19h30m10.5s	+02°54'15"	**21**
21	124718	Aql	**BLL 39**		AB	6.8	10.6	111.1"	113.1"	287°	286°	1999	1879	K0	19h31m05.2s	+02°00'42"	**21**
21	162843	Aql	**Σ 2545**		AB	6.79	8.54	3.8"	4.5"	326°	316°	2003	1825	A9III	19h38m43.4s	-10°09'24"	**21**
21	162843	Aql			AC	6.79	11.4	26.1"		165°		2003	1825	A9III	19h38m43.4s	-10°09'24"	**21**
21	125069	Aql	**ENG 67**		AB	6.84	10.69	96.7"	102"	110°	123°	1999	1893	G0IV	19h47m33.3s	+01°05'18"	**21**
21	163026	Aql	**RST 4643**			6.91	10.26	1.4"	1.3"	264°	277°	1991	1940	G5	19h50m09.8s	-10°00'26"	**21**
21	125141	Aql	**Σ 2587**			6.71	9.42	4.3"	4.1"	101°	99°	2003	1828	A5V+K2III	19h51m26.8s	+04°05'19"	**21**
21	143898	Aql	**57 Aql**	Σ 2594		5.65	6.35	36.3"	29.5"	170°	172°	2006	1781	B7Vn B8V	19h54m37.7s	-08°13'38"	**21**
21	125429	Aql	**HJ 2927**			6.93	11.4	24.3"		125°		1901			20h05m20.3s	+00°27'16"	**21**
21	125567	Aql	**Σ 2644**			6.92	7.06	2.7"	3"	206°	214°	2006	1783	B9p	20h12m35.1s	+00°52'01"	**21**
21	144173	Aql	**Σ 2643**			7.09	9.4	3"	3.2"	80°	71°	1998	1830	A0V	20h12m47.3s	-02°59'45"	**21**
21	144212	Aql	**Σ 2654**			6.96	8.14	14.8"	14.1"	233°	233°	2006	1822	F2V F4V	20h15m10.6s	-03°30'13"	**21**
21	144237	Aql	**RST 4659**			7.16	9.19	1.7"	1.2"	7°	356°	1991	1939	F5	20h16m50.3s	-03°29'31"	**21**
21	227542	Ara	**SEE 316**			6.34	7.69	1"	0.5"	172°	179°	1996	1897		17h00m27.0s	-48°38'53"	**21**
21	244386	Ara	**COO 206**		AB	7.29	8.14	7.9"	8"	233°	234°	1999	1888	A0V	17h02m52.5s	-50°09'38"	**21**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
21	227816	Ara	**BSO 13**		AB	5.61	8.88	9.2"	3.7"	256°	0°	2002	1880	G8V M0V	17h19m04.3s	-46°38'10"	**21**
21	244755	Ara	**SEE 328**		AB	5.91	10.91	75.9"	76.1"	159°	159°	2000	1900	B9II	17h27m12.5s	-50°37'49"	**21**
21	228075	Ara	**I 40**			6.03	10.5	20.1"	6"	209°	225°	1999	1895	F8-G0Ib	17h31m49.1s	-46°02'12"	**21**
21	245065	Ara	**HJ 4978**			5.69	9.22	12.4"	12.1"	268°	270°	2000	1834	B2V+B3V	17h50m28.4s	-53°36'45"	**21**
21	228465	Ara	**HJ 4982**			7.02	9.31	41.2"	42.9"	58°	60°	2000	1837	K3III	17h50m28.9s	-48°17'08"	**21**
21	245131	Ara	**RMK 22**			7.02	7.93	2.4"	2.7"	95°	83°	1991	1880	K0III+A2	17h57m13.2s	-55°22'53"	**21**
21	228734	Ara	**HJ 5015**			6.15	9.55	3.5"	3"	259°	263°	1999	1836	B7-8II	18h08m30.1s	-45°46'01"	**21**
21	163422	Cap	**α 1 Cap**	HJ 607	AC	4.24	9.6	45.6"	25"	224°	243°	2002	1777		20h17m38.9s	-12°30'30"	**21**
21	163445	Cap	**σ Cap**	H 5 87		5.43	9.43	56.3"	50.1"	180°	175°	2002	1782	K3III	20h19m23.6s	-19°07'07"	**21**
21	228708	CrA	**HJ 5014**			5.65	5.68	1.7"	1"	8°	249°	2002	1836	A5V A5V	18h06m49.9s	-43°25'32"	**21**
21	228982	CrA	**Δ 221**			5.2	10.13	74.2"	40"	162°	180°	1999	1826	B2.5Vn	18h24m18.2s	-44°06'37"	**21**
21	210295	CrA	**κ CrA**	Δ 222		5.58	6.16	20.8"	30"	359°	0°	2002	1836	B9V A0III	18h33m23.1s	-38°43'34"	**21**
21	210501	CrA	**λ CrA**	COO 227	AB	5.12	10.01	28.5"	25"	215°	215°	2002	1894	A2Vn	18h43m46.9s	-38°19'25"	**21**
21	229318	CrA	**HJ 5066**			6.47	9.15	10.1"	10"	84°	89°	1999	1835	B5/7III	18h50m58.7s	-41°03'46"	**21**
21	229334	CrA	**HDO 291**		A-BC	6.5	10	36.7"	25"	342°	322°	1999	1897	K3III	18h52m11.9s	-41°42'33"	**21**
21	210816	CrA	**BSO 14**			6.33	6.58	13"	13"	281°	283°	2002	1837	B8V B9V	19h01m04.3s	-37°03'42"	**21**
21	210928	CrA	**γ CrA**	HJ 5084		4.53	6.42	1.3"	1.2"	62°	217°	1999	1834	F8V F8V	19h06m25.2s	-37°03'50"	**21**
21	210928	CrA		HJ 5084	AB	7.34	7.78	28.4"	15"	184°	243°	1998	1837	F0:V A0	19h06m25.2s	-37°03'50"	**21**
21	230321	Mic	**HJ 5211**		AB	6.5	10.4	20.1"	20"	300°	301°	1999	1836	G6III	20h40m55.6s	-42°23'48"	**21**
21	122690	Oph	**61 Oph**	Σ 2202	AB	6.13	6.47	21.3"	19"	93°	102°	2006	1777	A1IV-V	17h44m34.1s	+02°34'46"	**21**
21	122847	Oph	**S 694**			6.67	7.26	79"	81.8"	237°	237°	2003	1825	dK0 A0	17h52m05.2s	+01°06'40"	**21**
21	122950	Oph	**Σ2244**			6.6	6.8	0.4"	1"	94°	273°	1993	1830	A3V	17h57m04.3s	+00°03'59"	**21**
21	123013	Oph	**67 Oph**	H 6 2	AC	3.96	8.06	54.3"	55.2"	142°	143°	2003	1823		18h00m38.7s	+02°55'54"	**21**
21	123013	Oph		β 634	AE	3.96	10.9	45.7"	45.9"	179°	180°	2002	1878		18h00m38.7s	+02°55'54"	**21**
21	123035	Oph	**68 Oph**	β 1125	AB	4.52	7.48	0.6"	1.1"	118°	12°	1997	1889	A2Vn	18h01m45.2s	+01°18'18"	**21**
21	142050	Oph	**τ Oph**	Σ 2262	AB	5.27	5.86	1.6"	0.4"	285°	193°	2006	1835	F4IV F5V	18h03m04.9s	-08°10'50"	**21**
21	142050	Oph		Σ 2262	AC	5.27	11.3	100.3"		127°		1879		F4IV F5V	18h03m04.9s	-08°10'50"	**21**
21	123107	Oph	**70 Oph**	Σ 2272	AB	4.22	6.17	5.3"	7"	136°	82°	2006	1777	K0V K4V	18h05m27.3s	+02°29'53"	**21**
21	123107	Oph		Σ 2272	AV	4.22	10.83	138.6"	165.9"	246°	224°	1946	1886		18h05m27.3s	+02°29'53"	**21**
21	123156	Oph	**β 636**		AD	6.61	11.5	41.5"		348°		1923			18h08m07.3s	+02°13'07"	**21**
21	123187	Oph	**73 Oph**	Σ 2281	AB	5.97	7.52	0.6"	0.9"	293°	267°	2004	1783	F2V	18h09m33.9s	+03°59'36"	**21**
21	123198	Oph	**β 637**		AC	5.7	10	97.8"	104.6"	246°	237°	1999	1910		18h09m54.0s	+03°07'10"	**21**
21	123585	Oph	**OΣ 170**		AB	6.97	8.75	99.7"	101.7"	6°	6°	2004	1875	A2	18h30m41.2s	+04°30'39"	**21**
21	227768	Sco	**I 408**			6.96	8.88	1.7"	2"	173°	160°	1991	1837	B2/3V:	17h16m17.6s	-42°20'21"	**21**
21	228010	Sco	**Δ 217**			6.29	8.52	13.4"	8"	168°	148°	1999	1826	B5III	17h29m00.9s	-43°58'26"	**21**
21	208870	Sco	**B 342**			6.82	7.57	0.5"	0.4"	99°	72°	1996	1925	A2V	17h29m25.6s	-38°31'01"	**21**
21	208881	Sco	**HWE 39**		AB	6.74	9.53	4"	3.9"	322°	320°	1998	1876	B0.5Ib	17h30m05.6s	-33°42'59"	**21**
21	208881	Sco		HO 646	AD	6.74	9.41	58.8"	58.7"	29°	29°	1998	1881	B8	17h30m05.6s	-33°42'59"	**21**
21	208977	Sco	**HJ 4962**		Aa,B	5.7	10.5	5.1"	5"	101°	99°	1998	1836		17h34m42.5s	-32°34'54"	**21**
21	208977	Sco		HO 647	Aa,C	5.7	10.91	13.6"	13.2"	83°	85°	1998	1893		17h34m42.5s	-32°34'54"	**21**
21	209047	Sco	**I 247**			6.98	8.68	0.6"	1"	97°	120°	1991	1897	G8IV/V	17h37m51.2s	-37°51'42"	**21**
21	209357	Sco	**PZ 5**			6.7	8.1	10.1"	9.9"	189°	189°	1998	1877	A0Vn	17h51m12.6s	-30°33'25"	**21**
21	209525	Sco	**SEE 343**			6.76	10.16	3.54"		17°		1991			17h57m56.8s	-36°00'29"	**21**
21	209524	Sco	**I 1013**			6.46	8.19	1.1"	0.6"	138°	165°	1991	1910	A0IV-V	17h57m57.8s	-39°08'12"	**21**
21	161490	Sct	**J 1631**		AC	6.95	10.3	120"		155°		1941			18h27m31.3s	-15°22'25"	**21**
21	161569	Sct	**Σ 2325**			5.77	9.31	12.3"	12.2"	256°	256°	2003	1796	B2V	18h31m25.7s	-10°47'45"	**21**
21	161687	Sct	**β 135**		AB	6.5	10.5	2"	2"	173°	210°	1953	1873	B9IV	18h38m04.5s	-14°00'17"	**21**
21	161687	Sct		SLE 218	AD	6.58	10.7	118.5"	121.4"	335°	338°	1998	1906		18h38m04.5s	-14°00'17"	**21**
21	142515	Sct	**δ Sct**	H 5 36	AC	4.73	10.56	52.3"	55"	131°	134°	2002	1831		18h42m16.4s	-09°03'09"	**21**
21	142515	Sct		SLE 233	AD	4.7	10.5	110.9"	110.3"	264°	265°	1999	1980		18h42m16.4s	-09°03'09"	**21**
21	142515	Sct		RST 4594		4.7	12.2	15.2"		46°		1938		F2IIIp	18h42m16.4s	-09°03'09"	**21**
21	142640	Sct	**Σ 2391**		AB	6.52	9.59	39.3"	37.9"	331°	333°	2006	1829	A2II	18h48m39.5s	-06°00'15"	**21**
21	142661	Sct	**H 6 50**		AC	6.15	8.23	111.4"	99"	171°	169°	2001	1833		18h49m41.0s	-05°54'46"	**21**
21	160899	Ser	**HLD 139**			6.96	11.06	3.21"		144°		1991			17h54m55.7s	-11°37'54"	**21**
21	160915	Ser	**HJ 2814**		AB	5.93	9.16	21"	20"	157°	159°	2006	1830	A1V	17h56m19.0s	-15°48'46"	**21**
21	142192	Ser	**HDS 2584**			6.42	9.91	0.6"	0.6"	9°	9°	1991	1991	A8V	18h17m24.2s	-09°45'31"	**21**
21	142229	Ser	**Σ 2303**			6.62	9.25	1.6"	3.2"	240°	213°	1991	1825	F2V	18h20m05.2s	-07°58'53"	**21**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
21	142294	Ser	**AC 11**			6.71	7.21	0.9"	0.4"	355°	178°	2003	1854	F0	18h24m57.2s	-01°34'46"	**21**
21	123497	Ser	**59 Ser**	Σ 2316	Aa-B	5.38	7.62	3.9"	3.5"	320°	315°	2003	1781		18h27m12.5s	+00°11'46"	**21**
21	123673	Ser	**Σ 2342**	FR Ser	AC	6.46	9.63	34.1"	25"	359°	11°	2006	1830		18h35m36.5s	+04°56'09"	**21**
21	123688	Ser	**HJ 864**			6.76	11	19.2"	18"	326°	317°	1999	1876	K2III	18h36m29.0s	+04°57'18"	**21**
21	123756	Ser	**OΣ 360**			6.86	9.14	1.7"	1"	282°	297°	1991	1843	K2III	18h38m39.8s	+04°51'17"	**21**
21	124068	Ser	**θ Ser**	Σ 2417	AB	4.59	4.93	23"	22.1"	104°	106°	2006	1755	A5V A5Vn	18h56m13.2s	+04°12'13"	**21**
21	124068	Ser		Σ 2417	BC	4.93	6.78	407"	414.8"	57°	56°	2004	1908	A5Vn	18h56m13.2s	+04°12'13"	**21**
21	209545	Sgr	**Δ 219**			5.84	7.75	53.2"	30"	254°	263°	1999	1826	G8III	17h58m55.7s	-36°51'30"	**21**
21	209553	Sgr	**PZ 6**		AB	5.39	6.96	4.3"	6.2"	104°	107°	2000	1836	M1Ib G8II	17h59m05.3s	-30°15'11"	**21**
21	209552	Sgr	**HJ 5000**	V1647 Sgr		7.1	8.96	7.5"	6"	103°	117°	2000	1834	A3III	17h59m13.5s	-36°56'20"	**21**
21	186350	Sgr	**WNO 21**			6.78	8.76	13.5"	13.5"	65°	66°	1999	1877	B3III	18h08m54.0s	-25°28'23"	**21**
21	209803	Sgr	**β 245**			5.77	7.99	3.9"	4.2"	353°	7°	1994	1868	K1II	18h10m05.8s	-30°43'43"	**21**
21	161153	Sgr	**β 132**			7.01	7.13	1.3"	0.8"	190°	240°	2001	1873	A4V	18h11m14.8s	-19°50'31"	**21**
21	209959	Sgr	**HJ 5036**	RS Sgr	AC	6.03	8.7	94.1"	94.1"	41°	41°	1998	1890	B9V	18h17m36.2s	-34°06'26"	**21**
21	209959	Sgr		HJ 5036	AB	6.03	9.48	38.9"	38.8"	85°	87°	1998	1890	B3V+A	18h17m36.2s	-34°06'26"	**21**
21	209957	Sgr	**η Sgr**	β 760	AB	3.1	7.8	3.6"	2.8"	107°	100°	1988	1879	M3.5III	18h17m37.6s	-36°45'43"	**21**
21	209957	Sgr		β 760	AD	3.2	10	92.9"	94.4"	319°	302°	2002	1879		18h17m37.6s	-36°45'43"	**21**
21	161278	Sgr	**SHJ 263**		AB	6.75	9.25	53.3"	54.3"	12°	12°	2002	1823	B8IV B9V	18h17m51.1s	-18°47'55"	**21**
21	161304	Sgr	**SHJ 264**		AB-C	6.86	7.63	17.5"	17.2"	51°	52°	2006	1823		18h18m43.3s	-18°37'11"	**21**
21	161304	Sgr		β 639	AB	7.2	8.2	0.4"	0.6"	143°	155°	1996	1878	B0Ib	18h18m43.3s	-18°37'11"	**21**
21	161304	Sgr		FOX 225	AB-E	6.86	10.78	145.9"	146.5"	328°	329°	1999	1916		18h18m43.3s	-18°37'11"	**21**
21	186794	Sgr	**21 Sgr**	JC 6		5.03	7.43	1.5"	1.8"	275°	297°	1997	1846	A+K2III	18h25m21.0s	-20°32'30"	**21**
21	186837	Sgr	**β 133**			6.59	8.48	0.9"	1.8"	243°	270°	1996	1873	A8V+F2V	18h27m43.8s	-26°38'06"	**21**
21	186863	Sgr	**WNO 6**			6.67	7.99	41.8"	41.8"	182°	183°	1999	1890	A3III	18h28m57.4s	-26°34'56"	**21**
21	186894	Sgr	**RST 4013**			6.99	11.7	1.3"		263°		1935			18h30m29.2s	-23°15'02"	**21**
21	210257	Sgr	**HWE 43**		AB	5.41	9.78	3.5"	2.3"	185°	208°	1991	1877	A3m	18h31m04.8s	-32°59'21"	**21**
21	161571	Sgr	**β 966**	U Sgr	AE	6.87	8.84	144.2"	145.2"	282°	282°	2002	1890		18h31m53.3s	-19°07'30"	**21**
21	161571	Sgr		U Sgr	AB	6.87	9.11	67.2"	66.6"	253°	252°	2002	1879	G1.5Ib	18h31m53.3s	-19°07'30"	**21**
21	161571	Sgr		U Sgr	AH	6.87	10	72.1"	71.7"	294°	296°	2002	1890		18h31m53.3s	-19°07'30"	**21**
21	161571	Sgr		U Sgr	AI	6.87	8.99	164.9"	163.6"	195°	195°	2002	1890		18h31m53.3s	-19°07'30"	**21**
21	161571	Sgr		U Sgr	AR	6.87	11	73.7"	77.1"	90°	90°	1940	1890		18h31m53.3s	-19°07'30"	**21**
21	162130	Sgr	**HJ 5082**		AB	6.15	9	7.5"	7.4"	88°	89°	2005	1877	G5II-III	19h03m03.8s	-19°14'45"	**21**
21	162130	Sgr			AC	6	10.7	19.9"	19.8"	113°	112°	1998	1877		19h03m03.8s	-19°14'45"	**21**
21	187632	Sgr	**H N 129**			6.9	9.16	8.3"	8.1"	308°	306°	2006	1867	A0V	19h04m14.2s	-22°53'47"	**21**
21	162201	Sgr	**S 710**			6.1	8.42	6.4"	6.4"	359°	2°	2006	1825	B8IV	19h06m52.1s	-16°13'46"	**21**
21	162204	Sgr	**HDS 2710**			6.35	9.16	0.7"	0.7"	104°	104°	1991	1991	B8V	19h07m08.3s	-18°44'18"	**21**
21	162432	Sgr	**H 5 77**			6.97	10.37	38.2"	36.1"	160°	169°	2006	1782	B5V	19h18m10.9s	-18°51'50"	**21**
21	162511	Sgr	**H 6 120**		AC	6.22	9.96	90.9"	91"	310°	308°	2003	1899	B5V	19h21m37.1s	-19°14'04"	**21**
21	229646	Sgr	**β 1 Sgr**	Δ 226		3.98	7.21	28.6"	30"	76°	60°	1999	1826	B8V F0V	19h22m38.3s	-44°27'32"	**21**
21	188093	Sgr	**HJ 5113**			6.06	10.14	10.4"	25"	151°	172°	1999	1837	K3III	19h25m04.0s	-29°18'34"	**21**
21	188192	Sgr	**H N 119**			5.61	8.82	7.8"	6"	145°	142°	2006	1874	K2III	19h29m52.2s	-26°59'09"	**21**
21	188337	Sgr	**52 Sgr**	β 654		4.7	9.2	2.4"	2.9"	173°	161°	1999	1878	B9	19h36m42.5s	-24°53'01"	**21**
21	162883	Sgr	**54 Sgr**	HJ 599		5.31	8.14	45.6"		42°		1845		K2III+F8V	19h40m43.4s	-16°17'36"	**21**
21	188692	Sgr	**HJ 2904**			6.18	10.3	35"	20"	36°	174°	1997	1830	K3IV	19h54m17.7s	-23°56'31"	**21**
21	211798	Sgr	**SEE 404**		AB	6.63	8.96	0.6"	0.5"	109°	65°	1991	1897	B4III	20h05m32.0s	-32°59'59"	**21**
21	188927	Sgr	**HJ 5168**			6.85	10.3	18.4"	16.5"	80°	81°	2002	1834	K2IV	20h07m23.8s	-29°43'15"	**21**
21	211916	Sgr	**HJ 5178**		AB	6.66	8.34	2.8"	2.5"	9°	10°	1991	1834	K1/2III	20h13m41.6s	-34°07'07"	**21**
21	211948	Sgr	**HJ 5183**			6.39	11.2	38"		229°		1919		M4III	20h16m23.6s	-36°27'13"	**21**
21	189164	Sgr	**HJ 5188**		AC	6.66	7.55	27.9"	25"	320°	323°	2006	1834		20h20m27.9s	-29°11'50"	**21**
21	189164	Sgr			AB	6.66	10.13	3.6"	4"	42°	71°	1998	1834	A2III	20h20m27.9s	-29°11'50"	**21**
21	189164	Sgr			AD	6.66	10.05	120.4"	119.3"	38°	38°	1991	1913		20h20m27.9s	-29°11'50"	**21**
21	212126	Sgr	**R 321**			6.58	8.09	1.5"	1.1"	134°	97°	1999	1880	K2IV K1V	20h26m52.8s	-37°24'11"	**21**
21	245320	Tel	**HDO 288**			6.59	9.94	1.6"	2.8"	132°	170°	1991	1897	F0V	18h12m56.2s	-50°33'32"	**21**
21	228845	Tel	**HJ 5033**		AB	6.68	9.77	17.2"	10"	114°	121°	1999	1834	G8III/IV	18h15m26.7s	-48°51'06"	**21**
21	228845	Tel			AD	6.8	10.7	25.5"	30"	69°	30°	1999	1834		18h15m26.7s	-48°51'06"	**21**
21	229077	Tel	**HJ 5045**			6.71	9.74	8.1"	6"	21°	23°	2000	1836	F6V	18h30m56.2s	-48°00'53"	**21**
21	229148	Tel	**HJ 5049**			6.88	11.5	19.9"		264°		1913			18h37m25.8s	-47°04'29"	**21**
21	229410	Tel	**I 113**			6.79	10.73	3.2"	3"	227°	225°	1991	1896	K3IIIBaII	18h58m53.0s	-48°30'21"	**21**
21	246028	Tel	**I 1397**			6.6	10.6	1.5"	1.5"	338°	336°	1928	1926	A1V	19h19m37.4s	-51°34'22"	**21**
21	246110	Tel	**HJ 5114**		AB	5.85	8.24	75.1"	69.4"	238°	271°	1999	1837	K4III	19h27m48.1s	-54°19'31"	**21**
21	246110	Tel			Aa	5.85	11	1.5"	1.8"	260°	131°	1857	1837	K4III	19h27m48.1s	-54°19'31"	**21**
21	246110	Tel			AD	5.85	10.85	72.9"	70.6"	94°	96°	1999	1873		19h27m48.1s	-54°19'31"	**21**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
21	246311	Tel	**Δ 227**			5.8	6.39	22.5"	23.5"	147°	152°	2002	1826	K0III A2V	19h52m37.7s	-54°58'16"	**21**
21	230083	Tel	**I 123**			6.81	11.3	8.2"		184°		1954			20h10m39.1s	-46°44'07"	**21**

CHART 22

22	227049	Ara	**Δ 206**		AC	5.71	6.76	9.5"	10"	265°	266°	2002	1836	O6.5V	16h41m20.4s	-48°45'47"	**22**
22	227049	Ara		MLO 8	AB	5.8	8.5	1.6"	2.1"	15°	12°	1938	1878	O5	16h41m20.4s	-48°45'47"	**22**
22	227049	Ara		HJ 4876	AD	5.7	10.5	13.3"	12"	160°	165°	1999	1836		16h41m20.4s	-48°45'47"	**22**
22	227542	Ara	**SEE 316**			6.34	7.69	1"	0.5"	172°	179°	1996	1897		17h00m27.0s	-48°38'53"	**22**
22	244386	Ara	**COO 206**		AB	7.29	8.14	7.9"	8"	233°	234°	1999	1888	A0V	17h02m52.5s	-50°09'38"	**22**
22	227816	Ara	**BSO 13**		AB	5.61	8.88	9.2"	3.7"	256°	0°	2002	1880	G8V M0V	17h19m04.3s	-46°38'10"	**22**
22	244755	Ara	**SEE 328**		AB	5.91	10.91	75.9"	76.1"	159°	159°	2000	1900	B9II	17h27m12.5s	-50°37'49"	**22**
22	228075	Ara	**I 40**			6.03	10.5	20.1"	6"	209°	225°	1999	1895	F8-G0Ib	17h31m49.1s	-46°02'12"	**22**
22	245065	Ara	**HJ 4978**			5.69	9.22	12.4"	12.1"	268°	270°	2000	1834	B2V+B3V	17h50m28.4s	-53°36'45"	**22**
22	228465	Ara	**HJ 4982**			7.02	9.31	41.2"	42.9"	58°	60°	2000	1837	K3III	17h50m28.9s	-48°17'08"	**22**
22	245131	Ara	**RMK 22**			7.02	7.93	2.4"	2.7"	95°	83°	1991	1880	K0III+A2	17h57m13.2s	-55°22'53"	**22**
22	228734	Ara	**HJ 5015**			6.15	9.55	3.5"	3"	259°	263°	1999	1836	B7-8II	18h08m30.1s	-45°46'01"	**22**
22	228708	CrA	**HJ 5014**			5.65	5.68	1.7"	1"	8°	249°	2002	1836	A5V A5V	18h06m49.9s	-43°25'32"	**22**
22	228982	CrA	**Δ 221**			5.2	10.13	74.2"	40"	162°	180°	1999	1826	B2.5Vn	18h24m18.2s	-44°06'37"	**22**
22	210295	CrA	**κ CrA**	Δ 222		5.58	6.16	20.8"	30"	359°	0°	2002	1836	B9V A0III	18h33m23.1s	-38°43'34"	**22**
22	210501	CrA	**λ CrA**	COO 227	AB	5.12	10.01	28.5"	25"	215°	215°	2002	1894	A2Vn	18h43m46.9s	-38°19'25"	**22**
22	183772	Lib	**HJ 4803**		Aa-Ca	6.61	8.97	50.6"	40"	213°	215°	1999	1834		15h46m12.8s	-28°03'41"	**22**
22	183772	Lib		β 620	Aa-B	7.03	7.58	0.6"	0.9"	170°	167°	1998	1878		15h46m12.8s	-28°03'41"	**22**
22	159572	Lib	**47 Lib**	HU 1274		6.04	8.5	0.5"	0.4"	120°	154°	2000	1904	B5V	15h55m00.4s	-19°22'59"	**22**
22	225426	Lup	**π Lup**	HJ 4728		4.56	4.6	1.7"	0.8"	66°	113°	2002	1835	B5V	15h05m07.1s	-47°03'05"	**22**
22	225517	Lup	**B 1267**		AB	6.53	9.6	1.2"	1.1"	314°	312°	1991	1929	K1III	15h11m34.8s	-45°16'39"	**22**
22	225517	Lup		Δ 178	AC	6.53	7.31	30.9"	40.3"	258°	291°	1999	1826	K0III	15h11m34.8s	-45°16'39"	**22**
22	225525	Lup	**κ Lup**	Δ 177		3.83	5.52	26.1"	28.9"	143°	146°	2002	1826	B9.5V+A5V	15h11m56.0s	-48°44'17"	**22**
22	242304	Lup	**ζ Lup**	Δ 176		3.5	6.74	71.8"	68.8"	249°	249°	1999	1826	K0III F8V	15h12m17.0s	-52°05'58"	**22**
22	225582	Lup	**HDO 244**			6.72	9.64	13.9"	20"	40°	30°	1999	1897	B9IV	15h15m19.6s	-44°08'58"	**22**
22	225590	Lup	**HJ 4750**			5.95	10.4	12.9"	12"	16°	23°	1999	1834	A3m	15h15m53.7s	-48°04'25"	**22**
22	225638	Lup	**μ Lup**	Δ 180	AC	4.99	6.34	22.7"	21.1"	127°	155°	2002	1826		15h18m32.0s	-47°52'31"	**22**
22	225638	Lup		HJ 4753	AB	4.99	4.93	1"	2.1"	323°	174°	1999	1836	B8V	15h18m32.0s	-47°52'31"	**22**
22	206616	Lup	**k Lupi**	Δ 183	A-BC	4.59	9.38	93.2"	89.5"	204°	209°	1999	1836	A0IV	15h25m20.2s	-38°44'01"	**22**
22	206616	Lup		Δ 183	AD	4.59	9.35	148.8"	144.5"	134°	136°	1999	1836		15h25m20.2s	-38°44'01"	**22**
22	206616	Lup		I 87	AE	4.7	11	30"	30"	0°	0°	1891	1891		15h25m20.2s	-38°44'01"	**22**
22	225938	Lup	**γ Lup**	HJ 4786		2.95	4.45	0.8"	0.8"	275°	94°	1996	1835	B2IV	15h35m08.4s	-41°10'01"	**22**
22	225950	Lup	**HJ 4788**			4.68	6.51	2.1"	3.1"	9°	349°	1995	1836	B3V	15h35m53.2s	-44°57'30"	**22**
22	206867	Lup	**I 89**			6.84	8.13	1.4"	1"	163°	135°	1991	1896	F5V	15h41m06.9s	-39°58'58"	**22**
22	226132	Lup	**HWE 79**			6.1	7.94	3.2"	2.5"	338°	350°	1999	1876	A0V+B	15h44m22.7s	-41°49'09"	**22**
22	206968	Lup	**Δ 192**		AB-C	6.91	7.26	34.7"	35"	143°	130°	1998	1826	B9.5V	15h47m04.4s	-35°30'37"	**22**
22	207144	Lup	**ξ Lup**	PZ 4		5.09	5.56	10.4"	11.7"	49°	53°	2002	1826	A3V B9V	15h56m53.5s	-33°57'58"	**22**
22	207208	Lup	**η Lup**	RMK 21	AB	3.37	7.5	15.5"	13.5"	19°	22°	2002	1834	B2.5IV	16h00m07.3s	-38°23'48"	**22**
22	207208	Lup		RMK 21	AC	3.44	9.27	115"	60"	249°	245°	2002	1825		16h00m07.3s	-38°23'48"	**22**
22	226442	Lup	**I 1280**		AB-C	6.21	10.4	7.9"	8.4"	159°	157°	1999	1889	A0V	16h00m53.7s	-40°26'07"	**22**
22	242793	Nor	**Δ 189**		AB	5.42	10.72	53"	56"	280°	310°	1999	1826	A0V	15h38m49.5s	-52°22'22"	**22**
22	242892	Nor	**HJ 4797**			6.86	10.62	21.3"	20"	257°	256°	1999	1836	F2IV/V	15h44m10.4s	-50°12'57"	**22**
22	242915	Nor	**HLD 124**			6.61	8.45	2.2"	2"	195°	210°	1996	1882	A3V	15h44m59.5s	-50°47'08"	**22**
22	243001	Nor	**B 1792**			6.21	10.32	1.2"	1.2"	288°	292°	1991	1931	K2-3III	15h48m50.4s	-52°26'18"	**22**
22	243044	Nor	**Δ 193**			5.77	9.07	16.5"	22.5"	12°	19°	1999	1836	B2II	15h51m06.8s	-55°03'20"	**22**
22	226696	Nor	**Δ 200**			6.04	9.73	39.2"	17"	195°	172°	1999	1826	G3II	16h22m29.1s	-43°54'43"	**22**
22	226773	Nor	**ε Nor**	HJ 4853		4.51	6.12	22.8"	25"	335°	337°	2002	1835	B2V	16h27m11.0s	-47°33'17"	**22**
22	140945	Oph	**Σ 2005**			6.32	11.31	28.9"		233°		1879		F3V	16h05m44.6s	-06°17'28"	**22**
22	140945	Oph		β 948	Aa-B	6.46	9.01	0.9"	1.5"	99°	151°	1994	1879		16h05m44.6s	-06°17'28"	**22**
22	184382	Oph	**ρ Oph**	H 2 19	AB	5.07	5.74	2.9"	4"	340°	8°	2001	1780	B2IV B2V	16h25m35.1s	-23°26'50"	**22**
22	184382	Oph		β 1115	DE	7.04	8.65	0.4"	0.9"	318°	26°	1991	1889	B5V	16h25m35.1s	-23°26'50"	**22**
22	184382	Oph		H 2 19	AC	5.07	7.29	150"	152"	0°	1°	1999	1846	B5V	16h25m35.1s	-23°26'50"	**22**
22	184382	Oph		H 2 19	AD	5.07	6.81	156.4"	161"	252°	254°	1999	1846		16h25m35.1s	-23°26'50"	**22**
22	184382	Oph		H 2 19		5.41	8.7	135.3"	87.7"	49°	145°	2002	1782	G2V	16h25m35.1s	-23°26'50"	**22**
22	141195	Oph	**Σ 2048**		AB	6.58	9.74	5.5"	4.7"	297°	303°	2005	1831	F4V	16h28m48.9s	-08°07'44"	**22**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
22	141195	Oph			AC	6.58	11.8	132"	132"	301°	299°	1960	1910	F4V	16h28m48.9s	-08°07'44"	**22**
22	121658	Oph	**λ Oph**	Σ 2055	AB	4.15	5.15	1.4"	0.5"	34°	76°	2006	1783	A0V+A0V	16h30m54.8s	+01°59'02"	**22**
22	121658	Oph		Σ 2055	AB-C	3.82	11	119"	119.7"	170°	170°	2000	1909		16h30m54.8s	+01°59'02"	**22**
22	159972	Oph	**HO 407**			6.84	11.8	14.2"		217°		1890			16h32m55.7s	-10°33'45"	**22**
22	141310	Oph	**HDS 2367**			6.38	9.62	0.8"	0.8"	87°	87°	1991	1991	A7III	16h41m11.6s	-01°00'01"	**22**
22	121857	Oph	**ENG 58**		AB	6.75	8.83	149.1"	150.5"	218°	220°	2002	1887	F0	16h46m53.0s	+02°14'33"	**22**
22	121859	Oph	**19 Oph**	Σ 2096	AB	6.09	9.68	23.8"	20.5"	88°	93°	2006	1783	A3V	16h47m09.7s	+02°03'52"	**22**
22	184822	Oph	**24 Oph**	β 1117		6.25	6.32	1"	0.4"	300°	251°	1995	1887	A0V	16h56m48.0s	-23°09'01"	**22**
22	160180	Oph	**SHJ 240**			6.59	7.59	4.6"	5.6"	232°	227°	2003	1823	B6V+B7V	16h57m04.0s	-19°32'24"	**22**
22	141483	Oph	**30 Oph**	ENG 59	AB	4.99	9.71	102.4"	91.8"	68°	70°	2005	1887	K4III	17h01m03.6s	-04°13'22"	**22**
22	160261	Oph	**HU 164**			7.08	11.02	2.1"	1.8"	345°	341°	1991	1900	K0III	17h04m29.5s	-12°40'35"	**22**
22	141522	Oph	**Σ 2122**			6.38	9.73	21.4"	20.1"	279°	281°	2006	1831	A9V	17h06m53.0s	-01°39'22"	**22**
22	160332	Oph	**η Oph**	β 1118	AB	3.05	3.27	0.6"	0.4"	239°	278°	2004	1889	A1IV+A1IV	17h10m22.7s	-15°43'29"	**22**
22	160332	Oph		β 1118	AD	2.6	10.7	101.2"	99.8"	282°	289°	1998	1898		17h10m22.7s	-15°43'29"	**22**
22	185137	Oph	**β 125**		AB	6.92	9.65	1.8"	1.5"	66°	90°	1991	1873	G8IV	17h12m10.9s	-27°02'33"	**22**
22	185198	Oph	**36 Oph**	SHJ 243	AB	5.12	5.12	4.9"	13"	143°	0°	2006	1777	K0V K1V	17h15m20.7s	-26°36'19"	**22**
22	185198	Oph		SHJ 243	AD	5.12	7.8	267.4"	180.7"	337°	290°	1991	1822	G8III/IV	17h15m20.7s	-26°36'19"	**22**
22	185198	Oph		SHJ 243	BD	5.7	7.9	284.9"	178.2"	339°	291°	1987	1823		17h15m20.7s	-26°36'19"	**22**
22	141586	Oph	**41 Oph**	A 2984		4.92	7.51	1"	0.5"	8°	298°	2004	1915	K1IV	17h16m36.7s	-00°26'44"	**22**
22	185238	Oph	**o Oph**	H 3 25		5.23	6.64	10.3"	14"	352°	0°	2006	1777	G8III	17h18m00.7s	-24°17'13"	**22**
22	160462	Oph	**β 126**		AB	6.34	7.56	2.4"	1.8"	263°	250°	2006	1873	A2Vnn	17h19m53.3s	-17°45'24"	**22**
22	185296	Oph	**ξ Oph**	DON 832		4.4	8.9	4.4"	2.5"	40°	66°	1989	1932	F1III-IV	17h21m00.5s	-21°06'48"	**22**
22	122316	Oph	**β 959**			6.67	11.6	3.4"		257°		1879			17h22m04.1s	+05°00'02"	**22**
22	141691	Oph	**β 1089**			6.57	8.98	1.5"	1"	323°	5°	1995	1888	G8IV	17h29m47.3s	-05°55'11"	**22**
22	141701	Oph	**RST 5085**			6.72	11.5	10.8"		333°		1943			17h30m20.0s	-04°22'10"	**22**
22	141702	Oph	**Σ 2173**			6.06	6.17	0.3"	0.6"	174°	147°	2005	1829	G5V	17h30m23.7s	-01°03'48"	**22**
22	122607	Oph	**SHJ 251**		AB	6.37	7.78	111.7"	111.2"	328°	328°	2002	1823		17h39m08.5s	+02°01'41"	**22**
22	122607	Oph			AC	6.37	10.73	134.1"	132.4"	15°	18°	2002	1823		17h39m08.5s	+02°01'41"	**22**
22	122615	Oph	**β 961**			6.63	11.4	8"		141°		1880			17h39m31.2s	+03°23'33"	**22**
22	122690	Oph	**61 Oph**	Σ 2202	AB	6.13	6.47	21.3"	19"	93°	102°	2006	1777	A1IV-V	17h44m34.1s	+02°34'46"	**22**
22	122847	Oph	**S 694**			6.67	7.26	79"	81.8"	237°	237°	2003	1825	dK0 A0	17h52m05.2s	+01°06'40"	**22**
22	122950	Oph	**Σ2244**			6.6	6.8	0.4"	1"	94°	273°	1993	1830	A3V	17h57m04.3s	+00°03'59"	**22**
22	123013	Oph	**67 Oph**	H 6 2	AC	3.96	8.06	54.3"	55.2"	142°	143°	2003	1823		18h00m38.7s	+02°55'54"	**22**
22	123013	Oph		β 634	AE	3.96	10.9	45.7"	45.9"	179°	180°	2002	1878		18h00m38.7s	+02°55'54"	**22**
22	123035	Oph	**68 Oph**	β 1125	AB	4.52	7.48	0.6"	1.1"	118°	12°	1997	1889	A2Vn	18h01m45.2s	+01°18'18"	**22**
22	142050	Oph	**τ Oph**	Σ 2262	AB	5.27	5.86	1.6"	0.4"	285°	193°	2006	1835	F4IV F5V	18h03m04.9s	-08°10'50"	**22**
22	142050	Oph		Σ 2262	AC	5.27	11.3	100.3"		127°		1879		F4IV F5V	18h03m04.9s	-08°10'50"	**22**
22	123107	Oph	**70 Oph**	Σ 2272	AB	4.22	6.17	5.3"	7"	136°	82°	2006	1777	K0V K4V	18h05m27.3s	+02°29'53"	**22**
22	123107	Oph		Σ 2272	AV	4.22	10.83	138.6"	165.9"	246°	224°	1946	1886		18h05m27.3s	+02°29'53"	**22**
22	123156	Oph	**β 636**		AD	6.61	11.5	41.5"		348°		1923			18h08m07.3s	+02°13'07"	**22**
22	123187	Oph	**73 Oph**	Σ 2281	AB	5.97	7.52	0.6"	0.9"	293°	267°	2004	1783	F2V	18h09m33.9s	+03°59'36"	**22**
22	123198	Oph	**β 637**		AC	5.7	10	97.8"	104.6"	246°	237°	1999	1910		18h09m54.0s	+03°07'10"	**22**
22	183896	Sco	**2 Sco**	β 36		4.69	6.98	2.1"	2.6"	269°	278°	1991	1855	B2.5Vn	15h53m36.7s	-25°19'38"	**22**
22	159665	Sco	**ξ Sco**	Σ 1998	AC	4.9	7.3	7.5"	6.4"	46°	89°	2005	1780	G1V	16h04m22.1s	-11°22'23"	**22**
22	159665	Sco		Σ 1998	AB	5.16	4.87	0.7"	1.5"	343°	188°	2005	1782	F7V	16h04m22.1s	-11°22'23"	**22**
22	159665	Sco		Σ 1998	BC	5.3	7.3	6.3"	6.4"	49°	93°	2004	1830		16h04m22.1s	-11°22'23"	**22**
22	159682	Sco	**β Sco**	H 3 7	AC	2.59	4.52	13.1"	14.4"	24°	25°	2005	1779	B2V	16h05m26.2s	-19°48'20"	**22**
22	159682	Sco		β 947	AB	2.62	10.6	0.3"	0.8"	171°	89°	2000	1879	B1V	16h05m26.2s	-19°48'20"	**22**
22	159715	Sco	**11 Sco**	β 39		5.77	9.77	2.8"	3.8"	263°	258°	1998	1872	B9.5Vnn	16h07m36.4s	-12°44'44"	**22**
22	207368	Sco	**Δ 199**		AC	6.62	7.13	44.1"	45"	184°	185°	2000	1835	A0-3III	16h08m34.6s	-39°05'34"	**22**
22	159764	Sco	**v Sco**	H 6	Aa-C	4.21	6.6	41.3"	42"	338°	335°	2005	1777		16h11m59.7s	-19°27'39"	**22**
22	159764	Sco		β 120	a-B	4.35	5.31	1.3"	0.3"	2°	0°	2003	1873		16h11m59.7s	-19°27'39"	**22**
22	159764	Sco		MLT 2	CD	6.6	7.23	2.4"	1.1"	54°	39°	2003	1846	B8/9V	16h11m59.7s	-19°27'39"	**22**
22	184217	Sco	**12 Sco**	HJ 4839	AB	5.8	8.13	3.8"	3"	71°	85°	1999	1834	B9Vv	16h12m16.0s	-28°25'03"	**22**
22	184241	Sco	**B 307**			6.43	10.33	1.7"	1.4"	220°	228°	2000	1926	B5V	16h13m45.5s	-24°25'20"	**22**
22	184278	Sco	**RST 3010**			6.7	11.6	1.3"		311°		1935			16h16m26.7s	-24°16'55"	**22**
22	207558	Sco	**BSO 12**			5.55	6.88	23.9"	27.5"	318°	324°	2006	1837	F6III F9V	16h19m32.8s	-30°54'24"	**22**
22	207574	Sco	**I 91**			6.12	10.82	18.4"	12"	293°	285°	1999	1891	B9V	16h20m32.6s	-39°25'50"	**22**
22	184369	Sco	**H N 39**			5.89	6.6	4.4"	4"	358°	352°	1998	1834	G0IV G0V	16h24m39.8s	-29°42'17"	**22**
22	184415	Sco	**α Sco**	GNT 1		0.96	5.4	2.5"	2.6"	274°	273°	1997	1847	M1	16h29m24.5s	-26°25'55"	**22**
22	226855	Sco	**Δ 202**		AC	5.36	9.79	57.6"	26"	179°	190°	1999	1826		16h31m41.8s	-41°49'02"	**22**
22	226989	Sco	**HJ 4867**		AB	5.83	9.4	16.3"	12"	294°	295°	1999	1834	B2V	16h38m26.3s	-43°23'54"	**22**
22	207943	Sco	**R 283**			6.98	7.83	0.7"	0.4"	255°	88°	1996	1881	G3III	16h42m29.1s	-37°04'46"	**22**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
22	227123	Sco	**CPO 70**		AB	6.11	6.22	97.2"	92.5"	258°	259°	2000	1855	B6-7V	16h43m54.1s	-41°06'48"	**22**
22	184591	Sco	**β 1116**		AB	6.58	10.15	2"	1.8"	13°	359°	1991	1889	A2V	16h44m17.4s	-27°27'23"	**22**
22	208069	Sco	**I 993**			6.81	11.2	3.6"		99°		1897			16h49m33.2s	-31°39'05"	**22**
22	208089	Sco	**HJ 4889**			6.23	7.77	6.8"	4"	4°	7°	1999	1834	B9pSi	16h51m00.0s	-37°30'52"	**22**
22	184735	Sco	**SEE 291**			6.9	11	2.5"	2.6"	359°	7°	1961	1897	B9.5V	16h52m16.1s	-25°36'02"	**22**
22	227377	Sco	**JC 23**		AF	5.47	6.56	56.5"	56.6"	20°	21°	1999	1847		16h54m01.8s	-41°48'23"	**22**
22	227377	Sco		HJ 4892	FH	7.3	10.3	8.7"	5"	299°	298°	1999	1834	O6IIIfp	16h54m01.8s	-41°48'23"	**22**
22	227382	Sco	**SEE 297**		AB	6.07	9.86	13.5"	13.4"	132°	129°	1999	1897	O7fe1	16h54m10.1s	-41°49'30"	**22**
22	208187	Sco	**HDO 309**			6.8	10.3	3.8"	3.3"	129°	129°	1964	1897	A0/1V	16h55m08.7s	-31°24'10"	**22**
22	208556	Sco	**HWE 86**			6.91	8.96	2.7"	1.8"	146°	140°	1991	1876	F5V	17h13m54.0s	-38°17'42"	**22**
22	208569	Sco	**HJ 4926**	V915 Sco	AB	6.74	10.11	14.1"	11"	334°	334°	1999	1835	G5Ia	17h14m27.7s	-39°46'00"	**22**
22	227768	Sco	**I 408**			6.96	8.88	1.7"	2"	173°	160°	1991	1837	B2/3V:	17h16m17.6s	-42°20'21"	**22**
22	208670	Sco	**HJ 4935**		AC	6.1	9.9	31.2"	30"	139°	129°	2002	1894		17h18m57.7s	-34°59'24"	**22**
22	208670	Sco			AB-C	6.01	10.8	32.5"	29.4"	138°	131°	1988	1875		17h18m57.7s	-34°59'24"	**22**
22	228010	Sco	**Δ 217**			6.29	8.52	13.4"	8"	168°	148°	1999	1826	B5III	17h29m00.9s	-43°58'26"	**22**
22	208870	Sco	**B 342**			6.82	7.57	0.5"	0.4"	99°	72°	1996	1925	A2V	17h29m25.6s	-38°31'01"	**22**
22	208881	Sco	**HWE 39**		AB	6.74	9.53	4"	3.9"	322°	320°	1998	1876	B0.5Ib	17h30m05.6s	-33°42'59"	**22**
22	208881	Sco		HO 646	AD	6.74	9.41	58.8"	58.7"	29°	29°	1998	1881	B8	17h30m05.6s	-33°42'59"	**22**
22	208977	Sco	**HJ 4962**		Aa,B	5.7	10.5	5.1"	5"	101°	99°	1998	1836		17h34m42.5s	-32°34'54"	**22**
22	208977	Sco		HO 647	Aa,C	5.7	10.91	13.6"	13.2"	83°	85°	1998	1893		17h34m42.5s	-32°34'54"	**22**
22	209047	Sco	**I 247**			6.98	8.68	0.6"	1"	97°	120°	1991	1897	G8IV/V	17h37m51.2s	-37°51'42"	**22**
22	209357	Sco	**PZ 5**			6.7	8.1	10.1"	9.9"	189°	189°	1998	1877	A0Vn	17h51m12.6s	-30°33'25"	**22**
22	209525	Sco	**SEE 343**			6.76	10.16	3.54"		17°		1991			17h57m56.8s	-36°00'29"	**22**
22	209524	Sco	**I 1013**			6.46	8.19	1.1"	0.6"	138°	165°	1991	1910	A0IV-V	17h57m57.8s	-39°08'12"	**22**
22	121152	Ser	**ψ Ser**	A 2230	AC	5.95	9.23	195.5"	208"	208°	208°	2002	1908		15h44m01.8s	+02°30'54"	**22**
22	121152	Ser		A 2230	AD	5.95	10.95	172.8"	172.1"	285°	280°	2002	1887		15h44m01.8s	+02°30'54"	**22**
22	160479	Ser	**ν Ser**	SHJ 247		4.33	9.44	45.9"	50.2"	26°	31°	2002	1821	A2V	17h20m49.7s	-12°50'49"	**22**
22	160653	Ser	**HJ 4964**			5.54	9.88	54.3"	53.5"	225°	225°	2002	1879	B8Vn	17h34m46.4s	-11°14'31"	**22**
22	160899	Ser	**HLD 139**			6.96	11.06	3.21"		144°		1991			17h54m55.7s	-11°37'54"	**22**
22	160915	Ser	**HJ 2814**		AB	5.93	9.16	21"	20"	157°	159°	2006	1830	A1V	17h56m19.0s	-15°48'46"	**22**
22	142192	Ser	**HDS 2584**			6.42	9.91	0.6"	0.6"	9°	9°	1991	1991	A8V	18h17m24.2s	-09°45'31"	**22**
22	142229	Ser	**Σ 2303**			6.62	9.25	1.6"	3.2"	240°	213°	1991	1825	F2V	18h20m05.2s	-07°58'53"	**22**
22	209545	Sgr	**Δ 219**			5.84	7.75	53.2"	30"	254°	263°	1999	1826	G8III	17h58m55.7s	-36°51'30"	**22**
22	209553	Sgr	**PZ 6**		AB	5.39	6.96	4.3"	6.2"	104°	107°	2000	1836	M1Ib G8II	17h59m05.3s	-30°15'11"	**22**
22	209552	Sgr	**HJ 5000**	V1647 Sgr		7.1	8.96	7.5"	6"	103°	117°	2000	1834	A3III	17h59m13.5s	-36°56'20"	**22**
22	186350	Sgr	**WNO 21**			6.78	8.76	13.5"	13.5"	65°	66°	1999	1877	B3III	18h08m54.0s	-25°28'23"	**22**
22	209803	Sgr	**β 245**			5.77	7.99	3.9"	4.2"	353°	7°	1994	1868	K1II	18h10m05.8s	-30°43'43"	**22**
22	161153	Sgr	**β 132**			7.01	7.13	1.3"	0.8"	190°	240°	2001	1873	A4V	18h11m14.8s	-19°50'31"	**22**
22	209959	Sgr	**HJ 5036**	RS Sgr	AC	6.03	8.7	94.1"	94.1"	41°	41°	1998	1890	B9V	18h17m36.2s	-34°06'26"	**22**
22	209959	Sgr		HJ 5036	AB	6.03	9.48	38.9"	38.8"	85°	87°	1998	1890	B3V+A	18h17m36.2s	-34°06'26"	**22**
22	209957	Sgr	**η Sgr**	β 760	AB	3.1	7.8	3.6"	2.8"	107°	100°	1988	1879	M3.5III	18h17m37.6s	-36°45'43"	**22**
22	209957	Sgr		β 760	AD	3.2	10	92.9"	94.4"	319°	302°	2002	1879		18h17m37.6s	-36°45'43"	**22**
22	161278	Sgr	**SHJ 263**		AB	6.75	9.25	53.3"	54.3"	12°	12°	2002	1823	B8IV B9V	18h17m51.1s	-18°47'55"	**22**
22	161304	Sgr	**SHJ 264**		AB-C	6.86	7.63	17.5"	17.2"	51°	52°	2006	1823		18h18m43.3s	-18°37'11"	**22**
22	161304	Sgr		β 639	AB	7.2	8.2	0.4"	0.6"	143°	155°	1996	1878	B0Ib	18h18m43.3s	-18°37'11"	**22**
22	161304	Sgr		FOX 225	AB-E	6.86	10.78	145.9"	146.5"	328°	329°	1999	1916		18h18m43.3s	-18°37'11"	**22**
22	186794	Sgr	**21 Sgr**	JC 6		5.03	7.43	1.5"	1.8"	275°	297°	1997	1846	A+K2III	18h25m21.0s	-20°32'30"	**22**
22	210257	Sgr	**HWE 43**		AB	5.41	9.78	3.5"	2.3"	185°	208°	1991	1877	A3m	18h31m04.8s	-32°59'21"	**22**
22	245320	Tel	**HDO 288**			6.59	9.94	1.6"	2.8"	132°	170°	1991	1897	F0V	18h12m56.2s	-50°33'32"	**22**
22	228845	Tel	**HJ 5033**		AB	6.68	9.77	17.2"	10"	114°	121°	1999	1834	G8III/IV	18h15m26.7s	-48°51'06"	**22**
22	228845	Tel			AD	6.8	10.7	25.5"	30"	69°	30°	1999	1834		18h15m26.7s	-48°51'06"	**22**
22	229077	Tel	**HJ 5045**			6.71	9.74	8.1"	6"	21°	23°	2000	1836	F6V	18h30m56.2s	-48°00'53"	**22**
22	229148	Tel	**HJ 5049**			6.88	11.5	19.9"		264°		1913			18h37m25.8s	-47°04'29"	**22**

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23	227049	Ara	**Δ 206**		AC	5.71	6.76	9.5"	10"	265°	266°	2002	1836	O6.5V	16h41m20.4s	-48°45'47"	**23**
23	227049	Ara		MLO 8	AB	5.8	8.5	1.6"	2.1"	15°	12°	1938	1878	O5	16h41m20.4s	-48°45'47"	**23**
23	227049	Ara		HJ 4876	AD	5.7	10.5	13.3"	12"	160°	165°	1999	1836		16h41m20.4s	-48°45'47"	**23**
23	224095	Cen	**SLR 18**			6.73	7.18	0.7"	0.5"	244°	190°	1998	1836	A4V	13h22m52.5s	-47°56'36"	**23**
23	224214	Cen	**SEE 180**			6.75	9.24	3.6"	5"	234°	240°	1991	1897	K0III	13h31m22.5s	-42°27'53"	**23**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
23	241076	Cen	**Δ 141**			5.2	6.53	5.5"	3"	163°	168°	2000	1826	B8Vn	13h41m44.8s	-54°33'34"	23
23	224365	Cen	**RST 1741**		AB-C	5.97	9.15	0.9"	0.8"	72°	65°	1991	1934		13h43m40.1s	-42°04'03"	23
23	204777	Cen	**HWE 95**			6.91	7.9	1.13"		186°		1991			13h43m49.4s	-40°10'41"	23
23	204867	Cen	**HWE 94**			6.62	10.21	11.6"	8"	358°	355°	1998	1876	G3IV-V	13h48m54.8s	-35°42'16"	23
23	204916	Cen	**3 Cen**	H 3 101		4.5	5.97	7.7"	11.6"	102°	112°	2002	1783	B5III B8V	13h51m49.6s	-32°59'39"	23
23	241239	Cen	**RMK 18**			5.24	7.5	18.1"	13.2"	289°	330°	1999	1826	B8V	13h52m04.8s	-52°48'42"	23
23	204944	Cen	**4 Cen**	H N 51		4.72	8.53	14.8"	18"	185°	184°	1998	1836	B4IV	13h53m12.5s	-31°55'39"	23
23	204955	Cen	**H 5 124**		AE	6.27	8.65	67.5"	65.2"	6°	359°	1998	1889		13h53m32.7s	-35°39'51"	23
23	204955	Cen		HWE 28	AB	6.27	6.38	1"	0.8"	308°	270°	1997	1876	F4V	13h53m32.7s	-35°39'51"	23
23	204988	Cen	**HWE 74**			7.17	9.82	6"	4"	116°	120°	1998	1876	G5	13h55m16.3s	-32°05'57"	23
23	241309	Cen	**R 227**		AB	6.52	7.45	1.8"	1.2"	11°	349°	1996	1841	A1V	13h56m20.0s	-54°07'57"	23
23	205123	Cen	**β 1197**			6.52	7.8	2.3"	0.9"	220°	179°	1995	1890	F8V	14h03m01.7s	-31°41'02"	23
23	224702	Cen	**SLR 19**			7.14	7.38	1.3"	1.1"	316°	230°	1998	1895	G3V	14h07m41.5s	-49°52'03"	23
23	241491	Cen	**HJ 4651**			5.95	8.89	64.3"	62.7"	131°	134°	1999	1837	B9IV	14h09m35.0s	-51°30'17"	23
23	205681	Cen	**β 1112**			6.23	9.86	2.7"	2.4"	13°	8°	1991	1889	K0III	14h33m09.7s	-30°42'55"	23
23	205690	Cen	**HDO 234**			7.06	10.58	14"	15"	157°	148°	2000	1897	K1III	14h33m27.5s	-33°18'58"	23
23	205841	Cen	**β 414**			6.75	7.62	1"	1"	347°	340°	1998	1876	ApSi	14h41m51.2s	-30°55'59"	23
23	205964	Cen	**HJ 4702**		AB-C	6.94	9.37	9.8"	10"	216°	213°	1998	1834		14h48m32.7s	-35°50'29"	23
23	206079	Cen	**β 347**		AB	5.82	10.8	13.1"	10"	319°	340°	1998	1875	K2III	14h54m37.9s	-33°18'02"	23
23	206079	Cen			AC	6	10.11	57.1"	58.5"	241°	243°	1998	1889		14h54m37.9s	-33°18'02"	23
23	206173	Cen	**HJ 4722**		AB	7.05	9.27	8.5"	9"	338°	344°	1998	1835	A3mA5-F0	14h59m29.2s	-30°42'42"	23
23	181790	Hya	**H N 69**		AB	5.74	6.6	10.2"	10.4"	191°	193°	1999	1825	A7III	13h36m48.4s	-26°29'43"	23
23	181863	Hya	**HJ 4606**		AB-C	6.61	10.24	31.1"	27.5"	354°	351°	1998	1836		13h41m30.9s	-23°26'59"	23
23	182535	Hya	**HDS 2030**			6.68	10.38	0.8"	0.8"	251°	251°	1991	1991	K0III	14h25m47.8s	-26°51'08"	23
23	182739	Hya	**β 805**		AC	7.05	10.04	123.9"	123.5"	42°	42°	2002	1881	K5V	14h39m41.0s	-26°43'25"	23
23	182855	Hya	**54 Hya**	H 3 97		5.1	7.1	8.3"	9.6"	123°	139°	1991	1783	F2V	14h43m6.0s	-25°13'55"	23
23	158550	Lib	**Σ 1837**			6.87	7.94	1.1"	1.4"	274°	327°	2006	1829	F5III	14h24m40.8s	-11°40'11"	23
23	158554	Lib	**HJ 546**			6.6	10	41.6"	39.4"	46°	42°	2003	1902	K2III	14h25m17.6s	-13°21'11"	23
23	158558	Lib	**SHJ 179**		AB	6.61	7.16	34.2"	35"	295°	295°	2003	1822	A2V	14h25m29.9s	-19°58'12"	23
23	158558	Lib		β 225	BC	7.16	8.37	1.2"	1.1"	88°	103°	1999	1867	A4V	14h25m29.9s	-19°58'12"	23
23	158788	Lib	**5 Lib**	HLD 20		6.4	10.1	3.1"	2.7"	252°	250°	1962	1881	K1III	14h45m57.7s	-15°27'34"	23
23	158813	Lib	**β 346**			7.48	7.92	2.5"	1"	276°	250°	1999	1875	G1V	14h48m31.7s	-17°20'25"	23
23	182898	Lib	**H 6 117**		AB	5.84	8.57	63.9"	56.7"	221°	219°	1998	1825	K3III	14h49m18.7s	-24°15'05"	23
23	158821	Lib	**μ Lib**	β 106	AB	4.5	9.7	2.4"	2"	211°	210°	1975	1873	K3III	14h49m19.0s	-14°08'57"	23
23	183040	Lib	**H N 28**		AB	5.88	8.18	25.1"	9.4"	306°	251°	2002	1806	K5Ve M2V	14h57m28.5s	-21°25'09"	23
23	183040	Lib			AC	5.88	9.5	26.8"	52.5"	285°	171°	1911	1878		14h57m28.5s	-21°25'09"	23
23	158946	Lib	**18 Lib**	Σ 1894	AB	5.87	9.9	19.7"	18"	39°	46°	1999	1783	K2III-IV	14h58m53.5s	-11°08'39"	23
23	158946	Lib		Σ 1894	AC	5.87	11.5	162.3"		41°		1894		K2III-IV	14h58m53.5s	-11°08'39"	23
23	140278	Lib	**Σ 1899**			6.69	10.15	28.6"	28.5"	67°	67°	2002	1825	K2IV K0V	15h01m35.4s	-03°09'52"	23
23	159090	Lib	**ι Lib**	H 6 44	Aa-B	4.53	10.87	57.3"	59.1"	109°	113°	2002	1781		15h12m13.3s	-19°47'30"	23
23	183285	Lib	**B 288**			5.9	10.1	1.7"	1.9"	82°	81°	1959	1926	G8II	15h13m53.3s	-26°11'37"	23
23	159118	Lib	**SHJ 195**			6.79	8.32	47.4"	49"	140°	141°	2002	1823	F3IV/V	15h14m28.1s	-18°25'43"	23
23	159191	Lib	**o Lib**	β 1447		6.19	10.01	41.1"	47.1"	349°	351°	2003	1903	F0III	15h21m01.4s	-15°32'54"	23
23	140550	Lib	**SHJ 202**		AB	6.95	7.61	52.3"	52.1"	133°	133°	2003	1823	K1V K5V	15h28m09.6s	-09°20'56"	23
23	159317	Lib	**S 672**			6.31	8.94	11.4"	11.5"	280°	283°	2002	1825	A8V	15h31m43.4s	-20°09'54"	23
23	140672	Lib	**Σ 1962**			6.44	6.49	11.5"	11.7"	190°	187°	2006	1825	F8V F8V	15h38m40.2s	-08°47'21"	23
23	183772	Lib	**HJ 4803**		Aa-Ca	6.61	8.97	50.6"	40"	213°	215°	1999	1834		15h46m12.8s	-28°03'41"	23
23	183772	Lib		β 620	Aa-B	7.03	7.58	0.6"	0.9"	170°	167°	1998	1878		15h46m12.8s	-28°03'41"	23
23	159572	Lib	**47 Lib**	HU 1274		6.04	8.5	0.5"	0.4"	120°	154°	2000	1904	B5V	15h55m00.4s	-19°22'59"	23
23	224838	Lup	**HJ 4672**			5.77	7.94	3.5"	3"	301°	302°	1991	1837	G8III	14h20m09.7s	-43°03'32"	23
23	224870	Lup	**R 244**			6.09	9.51	4.5"	4"	122°	125°	1991	1881	B1III	14h22m38.7s	-48°19'12"	23
23	241686	Lup	**B 1245**			6.27	8.98	1.1"	1.3"	146°	146°	1991	1929	K2III	14h23m20.2s	-50°46'20"	23
23	224919	Lup	**τ 1 Lup**	Δ 160		4.53	8.92	157"	122"	205°	213°	2002	1826	B2IV	14h26m08.2s	-45°13'17"	23
23	225062	Lup	**HJ 4690**		Aa-B	5.55	7.65	19.6"	25"	26°	24°	2002	1834	G8III+A1V	14h37m20.1s	-46°08'00"	23
23	241971	Lup	**Δ 169**			6.08	7.55	69.2"	67.9"	105°	108°	1999	1872	B2III	14h45m11.0s	-55°36'06"	23
23	225306	Lup	**HJ 4715**			5.98	6.82	2.2"	3"	278°	291°	1991	1826	B9V	14h56m32.0s	-47°52'45"	23
23	225426	Lup	**π Lup**	HJ 4728		4.56	4.6	1.7"	0.8"	66°	113°	2002	1835	B5V	15h05m07.1s	-47°03'05"	23
23	225435	Lup	**HDO 242**		AC	5.15	9	30"	30"	180°	180°	1891	1891	G8III	15h05m19.2s	-41°04'02"	23
23	225517	Lup	**B 1267**		AB	6.53	9.6	1.2"	1.1"	314°	312°	1991	1929	K1III	15h11m34.8s	-45°16'39"	23
23	225517	Lup	**Δ 178**		AC	6.53	7.31	30.9"	40.3"	258°	291°	1999	1826	K0III	15h11m34.8s	-45°16'39"	23
23	225525	Lup	**κ Lup**	Δ 177		3.83	5.52	26.1"	28.9"	143°	146°	2002	1826	B9.5V+A5V	15h11m56.0s	-48°44'17"	23

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
23	242304	Lup	**ζ Lup**	Δ 176		3.5	6.74	71.8"	68.8"	249°	249°	1999	1826	K0III F8V	15h12m17.0s	-52°05'58"	**23**
23	225582	Lup	**HDO 244**			6.72	9.64	13.9"	20"	40°	30°	1999	1897	B9IV	15h15m19.6s	-44°08'58"	**23**
23	225590	Lup	**HJ 4750**			5.95	10.4	12.9"	12"	16°	23°	1999	1834	A3m	15h15m53.7s	-48°04'25"	**23**
23	225638	Lup	**μ Lup**	Δ 180	AC	4.99	6.34	22.7"	21.1"	127°	155°	2002	1826		15h18m32.0s	-47°52'31"	**23**
23	225638	Lup		HJ 4753	AB	4.99	4.93	1"	2.1"	323°	174°	1999	1836	B8V	15h18m32.0s	-47°52'31"	**23**
23	206543	Lup	**HWE 76**			6.55	9.31	5.7"	4"	121°	130°	1999	1876	A0pSi	15h21m30.1s	-38°13'07"	**23**
23	206616	Lup	**k Lupi**	Δ 183	A-BC	4.59	9.38	93.2"	89.5"	204°	209°	1999	1836	A0IV	15h25m20.2s	-38°44'01"	**23**
23	206616	Lup		Δ 183	AD	4.59	9.35	148.8"	144.5"	134°	136°	1999	1836		15h25m20.2s	-38°44'01"	**23**
23	206616	Lup		I 87	AE	4.7	11	30"	30"	0°	0°	1891	1891		15h25m20.2s	-38°44'01"	**23**
23	225938	Lup	**γ Lup**	HJ 4786		2.95	4.45	0.8"	0.8"	275°	94°	1996	1835	B2IV	15h35m08.4s	-41°10'01"	**23**
23	225950	Lup	**HJ 4788**			4.68	6.51	2.1"	3.1"	9°	349°	1995	1836	B3V	15h35m53.2s	-44°57'30"	**23**
23	206867	Lup	**I 89**			6.84	8.13	1.4"	1"	163°	135°	1991	1896	F5V	15h41m06.9s	-39°58'58"	**23**
23	226132	Lup	**HWE 79**			6.1	7.94	3.2"	2.5"	338°	350°	1999	1876	A0V+B	15h44m22.7s	-41°49'09"	**23**
23	206968	Lup	**Δ 192**		AB-C	6.91	7.26	34.7"	35"	143°	130°	1998	1826	B9.5V	15h47m04.4s	-35°30'37"	**23**
23	207144	Lup	**ξ Lup**	PZ 4		5.09	5.56	10.4"	11.7"	49°	53°	2002	1826	A3V B9V	15h56m53.5s	-33°57'58"	**23**
23	207208	Lup	**η Lup**	RMK 21	AB	3.37	7.5	15.5"	13.5"	19°	22°	2002	1834	B2.5IV	16h00m07.3s	-38°23'48"	**23**
23	207208	Lup		RMK 21	AC	3.44	9.27	115"	60"	249°	245°	2002	1825		16h00m07.3s	-38°23'48"	**23**
23	226442	Lup	**I 1280**		AB-C	6.21	10.4	7.9"	8.4"	159°	157°	1999	1889	A0V	16h00m53.7s	-40°26'07"	**23**
23	242793	Nor	**Δ 189**		AB	5.42	10.72	53"	56"	280°	310°	1999	1826	A0V	15h38m49.5s	-52°22'22"	**23**
23	242892	Nor	**HJ 4797**			6.86	10.62	21.3"	20"	257°	256°	1999	1836	F2IV/V	15h44m10.4s	-50°12'57"	**23**
23	242915	Nor	**HLD 124**			6.61	8.45	2.2"	2"	195°	210°	1996	1882	A3V	15h44m59.5s	-50°47'08"	**23**
23	243001	Nor	**B 1792**			6.21	10.32	1.2"	1.2"	288°	292°	1991	1931	K2-3III	15h48m50.4s	-52°26'18"	**23**
23	243044	Nor	**Δ 193**			5.77	9.07	16.5"	22.5"	12°	19°	1999	1836	B2II	15h51m06.8s	-55°03'20"	**23**
23	226696	Nor	**Δ 200**			6.04	9.73	39.2"	17"	195°	172°	1999	1826	G3II	16h22m29.1s	-43°54'43"	**23**
23	226773	Nor	**ε Nor**	HJ 4853		4.51	6.12	22.8"	25"	335°	337°	2002	1835	B2V	16h27m11.0s	-47°33'17"	**23**
23	140945	Oph	**Σ 2005**			6.32	11.31	28.9"		233°		1879		F3V	16h05m44.6s	-06°17'28"	**23**
23	140945	Oph		β 948	Aa-B	6.46	9.01	0.9"	1.5"	99°	151°	1994	1879		16h05m44.6s	-06°17'28"	**23**
23	184382	Oph	**ρ Oph**	H 2 19	AB	5.07	5.74	2.9"	4"	340°	8°	2001	1780	B2IV B2V	16h25m35.1s	-23°26'50"	**23**
23	184382	Oph		β 1115	DE	7.04	8.65	0.4"	0.9"	318°	26°	1991	1889	B5V	16h25m35.1s	-23°26'50"	**23**
23	184382	Oph		H 2 19	AC	5.07	7.29	150"	152"	0°	1°	1999	1846	B5V	16h25m35.1s	-23°26'50"	**23**
23	184382	Oph		H 2 19	AD	5.07	6.81	156.4"	161"	252°	254°	1999	1846		16h25m35.1s	-23°26'50"	**23**
23	184382	Oph		H 2 19		5.41	8.7	135.3"	87.7"	49°	145°	2002	1782	G2V	16h25m35.1s	-23°26'50"	**23**
23	183896	Sco	**2 Sco**	β 36		4.69	6.98	2.1"	2.6"	269°	278°	1991	1855	B2.5Vn	15h53m36.7s	-25°19'38"	**23**
23	159665	Sco	**ξ Sco**	Σ 1998	AC	4.9	7.3	7.5"	6.4"	46°	89°	2005	1780	G1V	16h04m22.1s	-11°22'23"	**23**
23	159665	Sco		Σ 1998	AB	5.16	4.87	0.7"	1.5"	343°	188°	2005	1782	F7V	16h04m22.1s	-11°22'23"	**23**
23	159665	Sco		Σ 1998	BC	5.3	7.3	6.3"	6.4"	49°	93°	2004	1830		16h04m22.1s	-11°22'23"	**23**
23	159682	Sco	**β Sco**	H 3 7	AC	2.59	4.52	13.1"	14.4"	24°	25°	2005	1779	B2V	16h05m26.2s	-19°48'20"	**23**
23	159682	Sco		β 947	AB	2.62	10.6	0.3"	0.8"	171°	89°	2000	1879	B1V	16h05m26.2s	-19°48'20"	**23**
23	159715	Sco	**11 Sco**	β 39		5.77	9.77	2.8"	3.8"	263°	258°	1998	1872	B9.5Vnn	16h07m36.4s	-12°44'44"	**23**
23	207368	Sco	**Δ 199**		AC	6.62	7.13	44.1"	45"	184°	185°	2000	1835	A0-3III	16h08m34.6s	-39°05'34"	**23**
23	159764	Sco	**ν Sco**	H 6	Aa-C	4.21	6.6	41.3"	42"	338°	335°	2005	1777		16h11m59.7s	-19°27'39"	**23**
23	159764	Sco		β 120	a-B	4.35	5.31	1.3"	0.3"	2°	0°	2003	1873		16h11m59.7s	-19°27'39"	**23**
23	159764	Sco		MLT 2	CD	6.6	7.23	2.4"	1.1"	54°	39°	2003	1846	B8/9V	16h11m59.7s	-19°27'39"	**23**
23	184217	Sco	**12 Sco**	HJ 4839	AB	5.8	8.13	3.8"	3"	71°	85°	1999	1834	B9Vv	16h12m16.0s	-28°25'03"	**23**
23	184241	Sco	**B 307**			6.43	10.33	1.7"	1.4"	220°	228°	2000	1926	B5V	16h13m45.5s	-24°25'20"	**23**
23	184278	Sco	**RST 3010**			6.7	11.6	1.3"		311°		1935			16h16m26.7s	-24°16'55"	**23**
23	207558	Sco	**BSO 12**			5.55	6.88	23.9"	27.5"	318°	324°	2006	1837	F6III F9V	16h19m32.8s	-30°54'24"	**23**
23	207574	Sco	**I 91**			6.12	10.82	18.4"	12"	293°	285°	1999	1891	B9V	16h20m32.6s	-39°25'50"	**23**
23	184369	Sco	**H N 39**			5.89	6.6	4.4"	4"	358°	352°	1998	1834	G0IV G0V	16h24m39.8s	-29°42'17"	**23**
23	184415	Sco	**α Sco**	GNT 1		0.96	5.4	2.5"	2.6"	274°	273°	1997	1847	M1	16h29m24.5s	-26°25'55"	**23**
23	226855	Sco	**Δ 202**		AC	5.36	9.79	57.6"	26"	179°	190°	1999	1826		16h31m41.8s	-41°49'02"	**23**
23	226989	Sco	**HJ 4867**		AB	5.83	9.4	16.3"	12"	294°	295°	1999	1834	B2V	16h38m26.3s	-43°23'54"	**23**
23	227123	Sco	**CPO 70**		AB	6.11	6.22	97.2"	92.5"	258°	259°	2000	1855	B6-7V	16h43m54.1s	-41°06'48"	**23**
23	120938	Ser	**β 943**			6.66	10.88	3"	2.3"	92°	93°	1991	1879	K1III	15h18m22.7s	+00°56'22"	**23**
23	120946	Ser	**5 Ser**	Σ 1930	AC	5.2	9.2	127.2"	124.6"	40°	51°	1924	1887		15h19m19.0s	+01°45'52"	**23**
23	120946	Ser		Σ 1930	AB	5.06	10.11	11.4"	10.7"	35°	39°	2000	1825	F8V	15h19m19.0s	+01°45'52"	**23**
23	120955	Ser	**6 Ser**	β 32		5.53	8.78	3"	3"	25°	30°	2000	1872	K2III	15h21m02.0s	+00°42'54"	**23**
23	121152	Ser	**ψ Ser**	A 2230	AC	5.95	9.23	195.5"	208"	208°	208°	2002	1908		15h44m01.8s	+02°30'54"	**23**
23	121152	Ser		A 2230	AD	5.95	10.95	172.8"	172.1"	285°	280°	2002	1887		15h44m01.8s	+02°30'54"	**23**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
23	120082	Vir	**84 Vir**	Σ 1777		5.55	8.31	2.8"	4"	228°	241°	2006	1782	K1III	13h43m03.6s	+03°32'16"	**23**
23	158152	Vir	**86 Vir**	β 935	AB	5.66	8.47	1.2"	1.6"	306°	298°	1991	1879	G8III	13h45m56.3s	-12°25'35"	**23**
23	158152	Vir		Σ 1780	AC	5.8	11.9	26.9"		164°				G8III	13h45m56.3s	-12°25'35"	**23**
23	182070	Vir	**HU 1262**			6.82	9.44	0.8"	0.8"	302°	282°	1991	1905	G8III	13h54m31.7s	-22°14'43"	**23**
23	139618	Vir	**Σ 1788**		AB	6.68	7.26	3.7"	2.8"	99°	52°	2006	1825	F8V+G0	13h54m58.1s	-08°03'32"	**23**
23	139618	Vir			AC	6.2	10.3	117.3"	130.5"	297°	292°	1999	1886		13h54m58.1s	-08°03'32"	**23**
23	139618	Vir			AD	6.2	10.9	155"	159.5"	215°	216°	1924	1886		13h54m58.1s	-08°03'32"	**23**
23	120238	Vir	**τ Vir**	SHJ 171	AB	4.26	9.48	81"	79.3"	290°	290°	2002	1823	A3V	14h01m38.8s	+01°32'40"	**23**
23	158462	Vir	**HDS 2008**			6.4	10.51	0.7"	0.7"	99°	99°	1991	1991	K0III	14h17m03.8s	-18°35'09"	**23**
23	139856	Vir	**BUP 157**			6.47	11	68.4"	44"	341°	8°	1999	1907	G5IV	14h18m00.9s	-07°32'34"	**23**
23	139951	Vir	**π Vir**	Σ 1846	AB	4.92	10.02	5.3"	3.7"	112°	109°	1998	1829	G2III	14h28m12.1s	-02°13'41"	**23**
23	120504	Vir	**β 1443**			6.17	10.62	55.4"	55.4"	195°	196°	2000	1903	gK4	14h30m45.4s	+04°46'20"	**23**
23	120569	Vir	**A 2227**		Aa-B	6.6	10.6	1.6"	2.1"	135°	138°	1964	1910		14h37m28.5s	+02°16'38"	**23**
23	120657	Vir	**Σ 1881**			6.74	8.81	3.5"	3.6"	359°	358°	2006	1830	B9.5V	14h47m05.3s	+00°58'15"	**23**

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24	222682	Cen	**HJ 4421**			6.9	10.5	23.8"	12"	66°	69°	1999	1835	A0V	11h15m53.7s	-47°55'15"	**24**
24	222751	Cen	**HDS 1618**			6.3	9.94	0.7"	0.7"	55°	55°	1991	1991	G8III	11h22m23.1s	-44°38'46"	**24**
24	222813	Cen	**BSO 6**			5.13	7.38	13.1"	19"	168°	168°	1999	1835	B9V	11h28m35.1s	-42°40'27"	**24**
24	222863	Cen	**I 78**			6.13	6.16	0.7"	1.4"	98°	88°	1998	1894	A2IV-V	11h33m37.2s	-40°35'12"	**24**
24	202633	Cen	**Δ 113**			6.94	7.62	148.9"	143"	149°	156°	1999	1826	A0/1V K2	11h36m58.0s	-38°57'34"	**24**
24	239272	Cen	**RST 4949**			6.8	11	1"	1.1"	28°	14°	1964	1942	ApEuCr	11h39m53.6s	-50°29'09"	**24**
24	202689	Cen	**Δ 114**			6.74	8.04	17.1"	16.8"	95°	96°	1999	1903	G8III	11h39m58.5s	-38°06'30"	**24**
24	223130	Cen	**RST 564**			6.7	10.8	2.7"	2.6"	3°	2°	1962	1929	F0V	11h57m20.3s	-49°21'36"	**24**
24	223139	Cen	**HJ 4484**			6.99	9.71	3"	1.5"	313°	299°	1991	1838	K1III	11h58m20.3s	-40°56'50"	**24**
24	203137	Cen	**HJ 4500**			6.74	9.07	50"	50"	31°	33°	2000	1835	K1III	12h06m37.8s	-37°51'36"	**24**
24	239710	Cen	**I 216**			6.99	9.02	1"	1"	28°	40°	1991	1897	G8/K0III	12h09m46.6s	-51°47'02"	**24**
24	223266	Cen	**I 423**			6.76	10.6	2.7"	2.3"	166°	171°	1991	1902	K0III	12h11m02.9s	-45°25'22"	**24**
24	223297	Cen	**RMK 14**			5.78	6.98	2.8"	4"	243°	247°	1995	1837	K3III	12h14m02.7s	-45°43'26"	**24**
24	203319	Cen	**R 193**			6.8	7	0.1"	0.8"	173°	169°	1994	1881	A0V	12h17m47.2s	-36°05'38"	**24**
24	223366	Cen	**I 1221**			6.85	10.73	1.8"	1.5"	83°	83°	1991	1926	A0V	12h21m06.6s	-42°33'43"	**24**
24	223417	Cen	**HJ 4518**			6.47	8.37	10"	10"	208°	209°	1999	1834	K2-3III	12h24m44.7s	-41°23'04"	**24**
24	223603	Cen	**γ Cen**	HJ 4539	AB	2.82	2.88	0.9"	0.8"	347°	341°	2000	1835	A1IV	12h41m31.0s	-48°57'36"	**24**
24	223827	Cen	**CPO 13**			7.21	9.2	4.8"	5"	68°	67°	2000	1889	G8IV	13h00m16.9s	-48°36'13"	**24**
24	204040	Cen	**HJ 4563**			7.02	8.23	6.4"	5"	237°	229°	1999	1836	G6III	13h01m03.3s	-33°37'23"	**24**
24	204212	Cen	**HJ 4571**			6.79	9.13	23.7"	15"	266°	266°	1999	1834	K1III	13h11m30.4s	-35°07'48"	**24**
24	224095	Cen	**SLR 18**			6.73	7.18	0.7"	0.5"	244°	190°	1998	1836	A4V	13h22m52.5s	-47°56'36"	**24**
24	204469	Cen	**B 249**			7.1	8.75	0.7"	0.3"	307°	18°	1991	1926	F0V	13h26m08.1s	-32°32'50"	**24**
24	224214	Cen	**SEE 180**			6.75	9.24	3.6"	5"	234°	240°	1991	1897	K0III	13h31m22.5s	-42°27'53"	**24**
24	241076	Cen	**Δ 141**			5.2	6.53	5.5"	3"	163°	168°	2000	1826	B8Vn	13h41m44.8s	-54°33'34"	**24**
24	224365	Cen	**RST 1741**		AB-C	5.97	9.15	0.9"	0.8"	72°	65°	1991	1934		13h43m40.1s	-42°04'03"	**24**
24	204777	Cen	**HWE 95**			6.91	7.9	1.13"		186°		1991			13h43m49.4s	-40°10'41"	**24**
24	204867	Cen	**HWE 94**			6.62	10.21	11.6"	8"	358°	355°	1998	1876	G3IV-V	13h48m54.8s	-35°42'16"	**24**
24	204916	Cen	**3 Cen**	H 3 101		4.5	5.97	7.7"	11.6"	102°	112°	2002	1783	B5III B8V	13h51m49.6s	-32°59'39"	**24**
24	241239	Cen	**RMK 18**			5.24	7.5	18.1"	13.2"	289°	330°	1999	1826	B8V	13h52m04.8s	-52°48'42"	**24**
24	204944	Cen	**4 Cen**	H N 51		4.72	8.53	14.8"	18"	185°	184°	1998	1836	B4IV	13h53m12.5s	-31°55'39"	**24**
24	204955	Cen	**H 5 124**		AE	6.27	8.65	67.5"	65.2"	6°	359°	1998	1889		13h53m32.7s	-35°39'51"	**24**
24	204955	Cen		HWE 28	AB	6.27	6.38	1"	0.8"	308°	270°	1997	1876	F4V	13h53m32.7s	-35°39'51"	**24**
24	204988	Cen	**HWE 74**			7.17	9.82	6"	4"	116°	120°	1998	1876	G5	13h55m16.3s	-32°05'57"	**24**
24	241309	Cen	**R 227**		AB	6.52	7.45	1.8"	1.2"	11°	349°	1996	1841	A1V	13h56m20.0s	-54°07'57"	**24**
24	205123	Cen	**β 1197**			6.52	7.8	2.3"	0.9"	220°	179°	1995	1890	F8V	14h03m01.7s	-31°41'02"	**24**
24	224702	Cen	**SLR 19**			7.14	7.38	1.3"	1.1"	316°	230°	1998	1895	G3V	14h07m41.5s	-49°52'03"	**24**
24	241491	Cen	**HJ 4651**			5.95	8.89	64.3"	62.7"	131°	134°	1999	1837	B9IV	14h09m35.0s	-51°30'17"	**24**
24	241491	Cen	**HJ 4651**			5.95	8.89	64.3"	62.7"	131°	134°	1999	1837	B9IV	14h09m35.0s	-51°30'17"	**24**
24	205681	Cen	**β 1112**			6.23	9.86	2.7"	2.4"	13°	8°	1991	1889	K0III	14h33m09.7s	-30°42'55"	**24**
24	205690	Cen	**HDO 234**			7.06	10.58	14"	15"	157°	148°	2000	1897	K1III	14h33m27.5s	-33°18'58"	**24**
24	156896	Crt	**H 6 115**		AB	6.29	9.17	89.9"	83.7"	66°	71°	2002	1893	F7V	11h48m23.4s	-10°18'48"	**24**
24	240104	Cru	**HLD 116**			7.14	8.94	1.9"	1.6"	183°	193°	1991	1880	A1/2V	12h38m07.2s	-55°55'52"	**24**
24	157111	Crv	**Σ 1604**		AC	6.86	8.12	10.2"	58"	23°	97°	2006	1831		12h09m28.7s	-11°51'27"	**24**
24	157111	Crv			AB	6.56	9.4	9.2"	12"	89°	93°	2006	1831	G3V	12h09m28.7s	-11°51'27"	**24**
24	157133	Crv	**S 634**			7.17	8.79	4.9"	6.9"	298°	280°	1998	1877	G6V	12h11m22.8s	-16°47'27"	**24**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
24	180617	Crv	**β 920**			6.86	8.22	1.8"	0.8"	304°	52°	2000	1879	F7V	12h15m46.7s	-23°21'14"	**24**
24	180662	Crv	**β 921**		A-BC	7.01	10.67	3.4"	3"	221°	219°	1991	1879	A0V	12h17m55.5s	-24°00'48"	**24**
24	157323	Crv	**δ Crv**	SHJ 145		2.95	8.47	24.3"	23.5"	216°	216°	2004	1782	B9.5V	12h29m54.0s	-16°31'30"	**24**
24	157326	Crv	**β 28**		AB	6.49	9.58	1.4"	3"	260°	355°	2001	1872	F9V	12h30m04.6s	-13°23'36"	**24**
24	157382	Crv	**HJ 1218**		Aa-B	6.6	11	11.6"	12"	260°	266°	1998	1828		12h35m42.7s	-16°49'34"	**24**
24	157447	Crv	**Σ 1669**		AB	5.88	5.89	5.2"	5.4"	313°	299°	2006	1828	F5V F5V	12h41m15.9s	-13°00'50"	**24**
24	157447	Crv			AC	6	10.5	58.5"	59.6"	235°	234°	1988	1865		12h41m15.9s	-13°00'50"	**24**
24	157447	Crv			BC	6.1	10.6	57.8"	58.4"	229°	228°	1988	1900		12h41m15.9s	-13°00'50"	**24**
24	179967	Hya	**H 3 96**			5.64	5.73	9.4"	9.8"	210°	206°	2003	1783	F8V F8V	11h32m16.4s	-29°15'39"	**24**
24	202622	Hya	**HJ 4455**		AB	6.01	7.77	3.4"	2.5"	241°	248°	1991	1835	K0III	11h36m35.0s	-33°34'12"	**24**
24	202717	Hya	**HJ 4465**		AC	5.37	8.34	66.1"	60"	44°	45°	1999	1834		11h41m43.9s	-32°29'58"	**24**
24	156235	Hya			AC	6.66	7.59	73.1"	77.9"	27°	23°	2002	1858		11h52m54.5s	-33°54'29"	**24**
24	202901	Hya	**β Hya**	HJ 4478		4.67	5.47	0.7"	1.7"	36°	340°	1998	1834	B9IIIpSi	11h52m54.5s	-33°54'29"	**24**
24	203123	Hya	**HJ 4495**		AB	6.69	8.84	5.8"	3.5"	319°	319°	1999	1834	G0V	12h06m05.2s	-32°57'42"	**24**
24	203183	Hya	**JC 17**			6.35	8	3.2"	3.2"	17°	22°	2000	1848	A0V	12h10m02.5s	-34°42'17"	**24**
24	203252	Hya	**HWE 72**			6.48	8.55	1.3"	1.2"	164°	175°	1991	1876	A0V	12h13m36.8s	-33°47'35"	**24**
24	203596	Hya	**HJ 4528**			6.98	11.7	26.8"		145°		1960			12h34m11.7s	-32°05'34"	**24**
24	181476	Hya	**STN 28**			6.7	11.5	12.4"		332°					13h14m27.5s	-24°17'03"	**24**
24	181790	Hya	**H N 69**		AB	5.74	6.6	10.2"	10.4"	191°	193°	1999	1825	A7III	13h36m48.4s	-26°29'43"	**24**
24	181863	Hya	**HJ 4606**		AB-C	6.61	10.24	31.1"	27.5"	354°	351°	1998	1836		13h41m30.9s	-23°26'59"	**24**
24	182535	Hya	**HDS 2030**			6.68	10.38	0.8"	0.8"	251°	251°	1991	1991	K0III	14h25m47.8s	-26°51'08"	**24**
24	224838	Lup	**HJ 4672**			5.77	7.94	3.5"	3"	301°	302°	1991	1837	G8III	14h20m09.7s	-43°03'32"	**24**
24	224870	Lup	**R 244**			6.09	9.51	4.5"	4"	122°	125°	1991	1881	B1III	14h22m38.7s	-48°19'12"	**24**
24	241686	Lup	**B 1245**			6.27	8.98	1.1"	1.3"	146°	146°	1991	1929	K2III	14h23m20.2s	-50°46'20"	**24**
24	224919	Lup	**τ 1 Lup**	Δ 160		4.53	8.92	157"	122"	205°	213°	2002	1826	B2IV	14h26m08.2s	-45°13'17"	**24**
24	225062	Lup	**HJ 4690**		Aa-B	5.55	7.65	19.6"	25"	26°	24°	2002	1834	G8III+A1V	14h37m20.1s	-46°08'00"	**24**
24	225306	Lup	**HJ 4715**			5.98	6.82	2.2"	3"	278°	291°	1991	1826	B9V	14h56m32.0s	-47°52'45"	**24**
24	242304	Lup	**ζ Lup**	Δ 176		3.5	6.74	71.8"	68.8"	249°	249°	1999	1826	K0III F8V	15h12m17.0s	-52°05'58"	**24**
24	138579	Vir	**HJ 198**			6.9	10.2	91.4"	83.5"	266°	268°	2003	1893	M0	12h05m35.0s	-05°50'45"	**24**
24	138704	Vir	**Σ 1627**			6.55	6.9	19.8"	20.4"	196°	195°	2003	1822	F2V F3V	12h18m09.6s	-03°56'55"	**24**
24	138885	Vir	**S 639**		AB	6.82	9.99	56"	50.6"	110°	105°	2002	1825	M0III	12h38m43.3s	-04°22'25"	**24**
24	138892	Vir	**χ Vir**	ENG 47	AB	4.78	8.8	175.8"	172.9"	136°	137°	2002	1886		12h39m14.7s	-07°59'44"	**24**
24	138917	Vir	**γ Vir**	Σ 1670	AB	3.48	3.53	0.5"	7.5"	82°	319°	2006	1720	F0V F0V	12h41m39.3s	-01°26'57"	**24**
24	157550	Vir	**Σ 1682**		AB	6.59	9.69	28.9"	33.7"	298°	309°	2003	1831	G8III	12h51m22.9s	-10°20'18"	**24**
24	157550	Vir			AC	6.5	10.9	141.5"	140.2"	212°	214°	1999	1905		12h51m22.9s	-10°20'18"	**24**
24	139053	Vir	**OΣ 256**			7.33	7.61	1"	0.6"	101°	40°	2005	1843	F7V	12h56m26.6s	-00°57'17"	**24**
24	139096	Vir	**46 Vir**	AGC 5	AB	6.18	8.78	0.8"	1.3"	179°	159°	1996	1876	K1IV	13h00m35.9s	-03°22'06"	**24**
24	181357	Vir	**β 341**			6.25	6.51	0.8"	1"	132°	140°	2001	1875	F8V	13h03m46.2s	-20°35'01"	**24**
24	139131	Vir	**48 Vir**	β 929		7.12	7.65	0.6"	0.5"	195°	229°	2005	1879	F0V	13h03m54.4s	-03°39'48"	**24**
24	119867	Vir	**HDS 1865**			6.62	9.55	1.1"	1.1"	111°	111°	1991	1991	A1IV	13h18m51.1s	+03°41'15"	**24**
24	119889	Vir	**Σ 1734**			6.77	7.29	1.1"	0.7"	177°	198°	2004	1830	A3V	13h20m41.5s	+02°56'32"	**24**
24	181615	Vir	**β 610**			6.61	10.11	4.2"	4"	17°	18°	1991	1878		13h23m57.1s	-20°55'29"	**24**
24	120042	Vir	**Σ 1764**		AB	6.79	8.56	16.1"	16"	32°	32°	2003	1832	K2III	13h37m44.0s	+02°22'56"	**24**
24	120042	Vir			AC	6.79	10.45	171.7"	172.2"	139°	139°	2000	1909		13h37m44.0s	+02°22'56"	**24**
24	120082	Vir	**84 Vir**	Σ 1777		5.55	8.31	2.8"	4"	228°	241°	2006	1782	K1III	13h43m03.6s	+03°32'16"	**24**
24	158152	Vir	**86 Vir**	β 935	AB	5.66	8.47	1.2"	1.6"	306°	298°	1991	1879	G8III	13h45m56.3s	-12°25'35"	**24**
24	158152	Vir		Σ 1780	AC	5.8	11.9	26.9"		164°				G8III	13h45m56.3s	-12°25'35"	**24**
24	182070	Vir	**HU 1262**			6.82	9.44	0.8"	0.8"	302°	282°	1991	1905	G8III	13h54m31.7s	-22°14'43"	**24**
24	139618	Vir	**Σ 1788**		AB	6.68	7.26	3.7"	2.8"	99°	52°	2006	1825	F8V+G0	13h54m58.1s	-08°03'32"	**24**
24	139618	Vir			AC	6.2	10.3	117.3"	130.5"	297°	292°	1999	1886		13h54m58.1s	-08°03'32"	**24**
24	139618	Vir			AD	6.2	10.9	155"	159.5"	215°	216°	1924	1886		13h54m58.1s	-08°03'32"	**24**
24	120238	Vir	**τ Vir**	SHJ 171	AB	4.26	9.48	81"	79.3"	290°	290°	2002	1823	A3V	14h01m38.8s	+01°32'40"	**24**
24	158462	Vir	**HDS 2008**			6.4	10.51	0.7"	0.7"	99°	99°	1991	1991	K0III	14h17m03.8s	-18°35'09"	**24**
24	139856	Vir	**BUP 157**			6.47	11	68.4"	44"	341°	8°	1999	1907	G5IV	14h18m00.9s	-07°32'34"	**24**

CHART 25

25	200492	Ant	**JC 21**			6.45	9.21	55.9"	55.2"	205°	204°	1999	1847	F0IV	09h33m07.7s	-39°07'44"	**25**
25	200635	Ant	**HDS 1396**			6.95	10.67	0.6"	0.6"	95°	95°	1991	1991	A0/A1V	09h41m24.8s	-33°23'47"	**25**
25	178027	Ant	**I 205**			6.7	10.82	1.1"	2"	332°	20°	2001	1897	F5V	09h48m42.8s	-26°24'52"	**25**
25	178130	Ant	**RST 5341**			6.3	10.5	1.3"	1.1"	6°	4°	1966	1944	G1V	09h52m57.9s	-27°19'55"	**25**
25	201045	Ant	**HO 371**			6.62	11.06	6.12"		44°		1991			10h05m45.3s	-30°53'30"	**25**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
25	201109	Ant	**RST 2678**			6.2	10.4	2.3"	2.1"	283°	272°	1964	1935	F8V	10h09m31.6s	-35°51'24"	**25**
25	201442	Ant	**δ Ant**	H N 50		5.56	9.84	10.9"	10"	226°	235°	1999	1834	B9.5V	10h29m35.4s	-30°36'25"	**25**
25	201523	Ant	**I 1202**			6.92	10.82	3.9"	3.5"	129°	131°	1991	1926	A0IV	10h34m17.0s	-37°23'12"	**25**
25	201631	Ant	**B 2001**			6.63	9.14	0.6"	0.7"	48°	63°	1991	1931		10h40m51.5s	-35°44'30"	**25**
25	201886	Ant	**HJ 4381**			7.01	8.5	25.8"	28"	42°	40°	1999	1835	B8III	10h54m56s	-38 47'52"	**25**
25	222581	Cen	**HJ 4409**			5.24	7.73	1.3"	1.4"	252°	278°	1995	1827	ApSrCrEu	11h07m16.7s	-42°38'19"	**25**
25	222682	Cen	**HJ 4421**			6.9	10.5	23.8"	12"	66°	69°	1999	1835	A0V	11h15m53.7s	-47°55'15"	**25**
25	222751	Cen	**HDS 1618**			6.3	9.94	0.7"	0.7"	55°	55°	1991	1991	G8III	11h22m23.1s	-44°38'46"	**25**
25	222813	Cen	**BSO 6**			5.13	7.38	13.1"	19"	168°	168°	1999	1835	B9V	11h28m35.1s	-42°40'27"	**25**
25	222863	Cen	**I 78**			6.13	6.16	0.7"	1.4"	98°	88°	1998	1894	A2IV-V	11h33m37.2s	-40°35'12"	**25**
25	202633	Cen	**Δ 113**			6.94	7.62	148.9"	143"	149°	156°	1999	1826	A0/1V K2	11h36m58.0s	-38°57'34"	**25**
25	239272	Cen	**RST 4949**			6.8	11	1"	1.1"	28°	14°	1964	1942	ApEuCr	11h39m53.6s	-50°29'09"	**25**
25	202689	Cen	**Δ 114**			6.74	8.04	17.1"	16.8"	95°	96°	1999	1903	G8III	11h39m58.5s	-38°06'30"	**25**
25	223130	Cen	**RST 564**			6.7	10.8	2.7"	2.6"	3°	2°	1962	1929	F0V	11h57m20.3s	-49°21'36"	**25**
25	223139	Cen	**HJ 4484**			6.99	9.71	3"	1.5"	313°	299°	1991	1838	K1III	11h58m20.3s	-40°56'50"	**25**
25	203137	Cen	**HJ 4500**			6.74	9.07	50"	50"	31°	33°	2000	1835	K1III	12h06m37.8s	-37°51'36"	**25**
25	239710	Cen	**I 216**			6.99	9.02	1"	1"	28°	40°	1991	1897	G8/K0III	12h09m46.6s	-51°47'02"	**25**
25	223266	Cen	**I 423**			6.76	10.6	2.7"	2.3"	166°	171°	1991	1902	K0III	12h11m02.9s	-45°25'22"	**25**
25	223297	Cen	**RMK 14**			5.78	6.98	2.8"	4"	243°	247°	1995	1837	K3III	12h14m02.7s	-45°43'26"	**25**
25	203319	Cen	**R 193**			6.8	7	0.1"	0.8"	173°	169°	1994	1881	A0V	12h17m47.2s	-36°05'38"	**25**
25	223366	Cen	**I 1221**			6.85	10.73	1.8"	1.5"	83°	83°	1991	1926	A0V	12h21m06.6s	-42°33'43"	**25**
25	223417	Cen	**HJ 4518**			6.47	8.37	10"	10"	208°	209°	1999	1834	K2-3III	12h24m44.7s	-41°23'04"	**25**
25	223603	Cen	**γ Cen**	HJ 4539	AB	2.82	2.88	0.9"	0.8"	347°	341°	2000	1835	A1IV	12h41m31.0s	-48°57'36"	**25**
25	223827	Cen	**CPO 13**			7.21	9.2	4.8"	5"	68°	67°	2000	1889	G8IV	13h00m16.9s	-48°36'13"	**25**
25	138106	Crt	**β 600**	SV Crt	AC	6.15	8.22	54.3"	67.1"	99°	98°	2002	1823		11h16m58.2s	-07°08'05"	**25**
25	138106	Crt		SV Crt	AB	6.1	10.5	1"	1.3"	210°	226°	1959	1878	A8IVp	11h29m38.6s	-24°27'50"	**25**
25	179935	Crt	**JC 16**		AB	5.82	8.6	8.2"	8.1"	82°	77°	2000	1847	A0V	11h29m38.6s	-24°27'50"	**25**
25	179935	Crt			AC	5.82	8.86	169.5"	120"	116°	115°	2000	1851	F3/5V	11h29m38.6s	-24°27'50"	**25**
25	156896	Crt	**H 6 115**		AB	6.29	9.17	89.9"	83.7"	66°	71°	2002	1893	F7V	11h48m23.4s	-10°18'48"	**25**
25	157111	Crv	**Σ 1604**		AC	6.86	8.12	10.2"	58"	23°	97°	2006	1831		12h09m28.7s	-11°51'27"	**25**
25	157111	Crv			AB	6.56	9.4	9.2"	12"	89°	93°	2006	1831	G3V	12h09m28.7s	-11°51'27"	**25**
25	157133	Crv	**S 634**			7.17	8.79	4.9"	6.9"	298°	280°	1998	1877	G6V	12h11m22.8s	-16°47'27"	**25**
25	180617	Crv	**β 920**			6.86	8.22	1.8"	0.8"	304°	52°	2000	1879	F7V	12h15m46.7s	-23°21'14"	**25**
25	180662	Crv	**β 921**		A-BC	7.01	10.67	3.4"	3"	221°	219°	1991	1879	A0V	12h17m55.5s	-24°00'48"	**25**
25	155582	Hya	**HJ 4262**			6.87	8.7	129.3"		309°		1904			09h54m34.7s	-12°57'07"	**25**
25	178214	Hya	**β 216**			6.3	10.5	2.7"	2.5"	159°	177°	1978	1874	A4V	09h56m46.8s	-26°32'59"	**25**
25	178271	Hya	**HDS 1439**			6.15	10.44	0.5"	0.5"	0°	0°	1991	1991	B5V	09h59m06.3s	-23°57'03"	**25**
25	155704	Hya	**SHJ 110**		AC	6.22	6.97	20.9"	21.2"	274°	274°	2003	1822		10h04m02.8s	-18°06'05"	**25**
25	178610	Hya	**HLD 101**			6.63	10.56	1.4"	1.5"	110°	125°	1991	1882	F7V	10h16m45.8s	-20°40'11"	**25**
25	178723	Hya	**β 219**			6.7	8.52	1.8"	1.2"	186°	194°	1996	1874	A1V	10h21m35.8s	-22°31'43"	**25**
25	155947	Hya	**HJ 4311**			6.7	10.26	4.3"	3.6"	121°	127°	1999	1867	F5V	10h23m17.5s	-13°22'38"	**25**
25	156084	Hya	**SCA 76**			6.82	9.01	130.5"	131.8"	136°	139°	1998	1900	F0/2V	10h35m22.2s	-12°51'35"	**25**
25	179014	Hya	**β 411**			6.68	7.77	1.3"	1.3"	310°	310°	1998	1876	F6V	10h36m04.5s	-26°40'32"	**25**
25	156095	Hya	**KUI 51**			5.77	10.22	26.6"	14.4"	9°	75°	1991	1958	F7V	10h36m32.5s	-12°13'53"	**25**
25	156235	Hya	**Σ 1474**		AB	6.67	7.05	66.2"	71.6"	28°	22°	2002	1822	B9IV	10h47m37.9s	-15°15'43"	**25**
25	179278	Hya	**β 1428**	V Hya		7	11	46"		186°		1903			10h51m37.2s	-21°15'00"	**25**
25	156301	Hya	**β 1429**		AB	5.29	9.6	120.5"	135"	220°	210°	2002	1873	F6Vv	10h53m29.6s	-20°08'21"	**25**
25	201976	Hya	**I 211**			5.77	9.5	1.9"	1.5"	220°	175°	1991	1897	F2V	10h59m13.7s	-33°44'16"	**25**
25	179967	Hya	**H 3 96**			5.64	5.73	9.4"	9.8"	210°	206°	2003	1783	F8V F8V	11h32m16.4s	-29°15'39"	**25**
25	202622	Hya	**HJ 4455**		AB	6.01	7.77	3.4"	2.5"	241°	248°	1991	1835	K0III	11h36m35.0s	-33°34'12"	**25**
25	202717	Hya	**HJ 4465**		AC	5.37	8.34	66.1"	60"	44°	45°	1999	1834		11h41m43.9s	-32°29'58"	**25**
25	156235	Hya			AC	6.66	7.59	73.1"	77.9"	27°	23°	2002	1858		11h52m54.5s	-33°54'29"	**25**
25	202901	Hya	**β Hya**	HJ 4478		4.67	5.47	0.7"	1.7"	36°	340°	1998	1834	B9IIIpSi	11h52m54.5s	-33°54'29"	**25**
25	203123	Hya	**HJ 4495**		AB	6.69	8.84	5.8"	3.5"	319°	319°	1999	1834	G0V	12h06m05.2s	-32°57'42"	**25**
25	203183	Hya	**JC 17**			6.35	8	3.2"	3.2"	17°	22°	2000	1848	A0V	12h10m02.5s	-34°42'17"	**25**
25	203252	Hya	**HWE 72**			6.48	8.55	1.3"	1.2"	164°	175°	1991	1876	A0V	12h13m36.8s	-33°47'35"	**25**
25	137863	Leo	**S 617**			6.22	8.71	35.3"	35.2"	178°	178°	2003	1824	G9IV	10h53m24.9s	-02°15'19"	**25**
25	118574	Leo	**55 Leo**	β 1076		5.98	9.02	1.2"	1"	57°	50°	1999	1889	F4V	10h55m42.4s	+00°44'13"	**25**
25	118668	Leo	**65 Leo**	β 599		5.65	9.72	2.7"	1.8"	104°	82°	1991	1878	G9IIICN	11h06m54.0s	+01°57'19"	**25**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
25	138102	Leo	**φ Leo**	SHJ 121		4.48	9.75	88.9"	98.6"	291°	281°	2002	1782	A7IVn	11h16m39.6s	-03°39'06"	**25**
25	138130	Leo	**Σ 1529**			7.1	7.91	9.5"	10.2"	254°	251°	2003	1821	F6IV dG3	11h19m22.5s	-01°39'19"	**25**
25	118864	Leo	**83 Leo**	Σ 1540	AB	6.55	7.5	28.6"	29.5"	150°	145°	2004	1780	G7V	11h26m45.0s	+03°00'49"	**25**
25	118864	Leo		Σ 1540	AC	6.5	9.9	90.5"	91.6"	187°	191°	1937	1936		11h26m45.0s	+03°00'49"	**25**
25	118875	Leo	**τ Leo**	Σ 19	AB	5.05	7.47	88.9"	94.7"	181°	170°	2004	1834	G8II-III	11h27m56.2s	+02°51'22"	**25**
25	118299	Sex	**β 1280**	RX Sex	AB	6.68	9.43	116.5"	116.3"	192°	192°	2002	1899	A3V	10h26m09.2s	+03°55'57"	**25**
25	137614	Sex	**Σ 1441**		AB	6.51	8.81	2.8"	2.6"	167°	169°	2003	1830	K5III+F6V	10h30m58.7s	-07°38'15"	**25**
25	137614	Sex			AC	6.51	10.14	62.2"	65"	314°	312°	2003	1909		10h30m58.7s	-07°38'15"	**25**
25	137628	Sex	**β 1073**			6.82	11.4	3.4"		47°		1889			10h32m28.5s	-06°04'31"	**25**
25	118449	Sex	**35 Sex**	Σ 1466	AB	6.23	7.13	6.7"	6.9"	241°	239°	2005	1822		10h43m20.9s	+04°44'51"	**25**
25	137808	Sex	**40 Sex**	Σ 1476		7.08	7.82	2.4"	2.3"	15°	352°	2005	1831	A2IV	10h49m17.2s	-04°01'26"	**25**
25	236362	Vel	**CPO 9**			6.63	8.22	2.9"	3.9"	83°	78°	1991	1877	A0V	08h52m40.8s	-52°07'44"	**25**
25	236518	Vel	**HJ 4165**			5.55	6.6	0.7"	1.4"	136°	88°	1996	1837	B9Si	09h01m44.6s	-52°11'19"	**25**
25	220978	Vel	**HJ 4191**			5.3	9.2	5.7"	4"	14°	8°	1999	1835	B4V	09h14m24.5s	-43°13'39"	**25**
25	220998	Vel	**I 11**			6.56	7.65	0.8"	1"	290°	270°	1997	1894	B8V	09h15m14.6s	-45°33'20"	**25**
25	236956	Vel	**COO 83**			7.03	10.18	19.2"	19.3"	154°	153°	1999	1894	F7V	09h25m36.3s	-53°15'07"	**25**
25	221234	Vel	**ψ Vel**	COP 1		3.91	5.12	0.5"	0.8"	226°	45°	1997	1883	F0IV+F3IV	09h30m41.9s	-40°28'00"	**25**
25	221262	Vel	**RST 1435**			5.5	8.37	1.1"	1"	95°	84°	1991	1935	G8III	09h32m19.3s	-40°38'58"	**25**
25	221288	Vel	**HJ 4220**			5.54	6.19	1.6"	3"	217°	202°	1996	1836	B5III	09h33m44.5s	-49°00'18"	**25**
25	221339	Vel	**R 125**	IM Vel		6.26	10.34	3"	2.8"	188°	165°	2000	1880	ApSrEuCr	09h36m25.4s	-48°45'04"	**25**
25	237149	Vel	**SEE 115**			6.12	6.28	0.7"	0.3"	8°	4°	1997	1897	A2-3V	09h37m12.6s	-53°40'07"	**25**
25	221480	Vel	**HJ 4245**			6.77	9.6	9.3"	12"	217°	217°	1999	1835	G8II/III	09h46m09.0s	-45°55'05"	**25**
25	221512	Vel	**I 1520**			6.6	10.6	3.2"	2.7"	250°	250°	1942	1927	K3III	09h49m08.9s	-43°28'58"	**25**
25	221523	Vel	**HJ 4254**			5.07	9.33	67"	65.7"	48°	47°	1999	1901	B7III	09h49m57.1s	-45°43'58"	**25**
25	221592	Vel	**Δ 81**			5.79	8.23	5.2"	4"	240°	239°	1999	1826	B5V	09h54m17.6s	-45°17'01"	**25**
25	221644	Vel	**HJ 4269**			6.05	10.1	13.8"	15"	321°	317°	1999	1837	B3V	09h57m42.6s	-48°24'51"	**25**
25	221668	Vel	**HJ 4273**			6.71	10.44	15.5"	15.5"	136°	137°	1999	1836	B8/9V	09h59m26.2s	-44°57'20"	**25**
25	221773	Vel	**I 173**			5.32	7.1	0.9"	0.6"	1°	45°	1997	1897	K1IV+G5V	10h06m11.2s	-47°22'12"	**25**
25	237832	Vel	**SEE 118**			6.64	11.5	125"		31°		1984			10h15m07.4s	-55°32'57"	**25**
25	237921	Vel	**HJ 4307**		Aa-B	6.92	7.3	15"	12"	262°	245°	1991	1834		10h19m52.3s	-51°34'04"	**25**
25	238059	Vel	**HJ 4319**			7.3	10.5	10.8"	10"	119°	130°	1968	1834	M2I+B3III	10h26m15.6s	-53°53'29"	**25**
25	222057	Vel	**RST 4928**			6.7	8.7	0.5"	0.6"	313°	315°	1949	1943	F0IV/V	10h26m44.0s	-47°39'36"	**25**
25	238146	Vel	**HJ 4329**			4.95	8.58	73.9"	15"	103°	10°	2000	1834	F6V	10h31m21.6s	-53°42'54"	**25**
25	222126	Vel	**PZ 3**			5.64	5.97	13.6"	14.9"	219°	223°	1999	1826	B8	10h31m57.4s	-45°04'00"	**25**
25	222136	Vel	**HJ 4330**		Aa-B	5.15	8.55	40.4"	30"	163°	161°	1999	1835		10h32m56.9s	-47°00'12"	**25**
25	238309	Vel	**Δ 95**		AB	4.38	6.06	51.7"	53.3"	105°	105°	2000	1826	G2-3Ib	10h39m18.4s	-55°36'12"	**25**
25	222321	Vel	**μ Vel**	R 155		2.82	5.65	2"	2.8"	52°	55°	2001	1880	G5III+G2V	10h46m46.2s	-49°25'13"	**25**
25	222454	Vel	**HJ 4388**			6.83	11.5	34.7"		206°		1930			10h57m37.8s	-45°52'33"	**25**
25	138314	Vir	**Σ 1560**			6.42	9.43	4.9"	5.1"	280°	281°	2005	1831	G9III	11h38m24.0s	-02°26'09"	**25**
25	138314	Vir	**Σ 1560**			6.42	9.43	4.9"	5.1"	280°	281°	2005	1831	G9III	11h38m24.0s	-02°26'09"	**25**
25	118981	Vir	**A 2578**			7	10.04	0.8"	0.9"	131°	140°	1991	1913	A7IV	11h40m24.1s	+00°57'08"	**25**
25	138579	Vir	**HJ 198**			6.9	10.2	91.4"	83.5"	266°	268°	2003	1893	M0	12h05m35.0s	-05°50'45"	**25**
25	138704	Vir	**Σ 1627**			6.55	6.9	19.8"	20.4"	196°	195°	2003	1822	F2V F3V	12h18m09.6s	-03°56'55"	**25**

CHART 26

26	200492	Ant	**JC 21**			6.45	9.21	55.9"	55.2"	205°	204°	1999	1847	F0IV	09h33m07.7s	-39°07'44"	**26**
26	200635	Ant	**HDS 1396**			6.95	10.67	0.6"	0.6"	95°	95°	1991	1991	A0/A1V	09h41m24.8s	-33°23'47"	**26**
26	178027	Ant	**I 205**			6.7	10.82	1.1"	2"	332°	20°	2001	1897	F5V	09h48m42.8s	-26°24'52"	**26**
26	178130	Ant	**RST 5341**			6.3	10.5	1.3"	1.1"	6°	4°	1966	1944	G1V	09h52m57.9s	-27°19'55"	**26**
26	201045	Ant	**HO 371**			6.62	11.06	6.12"		44°		1991			10h05m45.3s	-30°53'30"	**26**
26	201109	Ant	**RST 2678**			6.2	10.4	2.3"	2.1"	283°	272°	1964	1935	F8V	10h09m31.6s	-35°51'24"	**26**
26	201442	Ant	**δ Ant**	H N 50		5.56	9.84	10.9"	10"	226°	235°	1999	1834	B9.5V	10h29m35.4s	-30°36'25"	**26**
26	201523	Ant	**I 1202**			6.92	10.82	3.9"	3.5"	129°	131°	1991	1926	A0IV	10h34m17.0s	-37°23'12"	**26**
26	235110	Car	**RMK 6**			6	6.51	9.1"	12"	26°	25°	2000	1826	F0-2IV-V	07h20m21.4s	-52°18'40"	**26**
26	235686	Car	**Δ 60**			6.1	7.86	40.2"	40.4"	162°	160°	1999	1837	B2IV-V	08h01m23.0s	-54°30'56"	**26**
26	236358	Car	**FIN 37**			6.86	9.69	0.9"	0.8"	50°	47°	1991	1927	A0V	08h52m24.7s	-55°20'30"	**26**
26	115839	CMi	**A 2534**		AB-C	6.44	8.47	0.8"	0.6"	233°	208°	1997	1913		07h43m05.4s	+00°11'22"	**26**
26	116182	CMi	**14 CMi**	SHJ 87	AB	5.41	9.36	98.8"	65.5"	84°	64°	2004	1782	K0III	07h58m20.6s	+02°13'30"	**26**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
26	135916	Hya	**2 Hya**	H 6 118		5.59	9.2	78.8"	72.9"	6°	2°	1998	1893	A5III-IV	08h26m27.2s	-03°59'15"	**26**
26	136111	Hya	**HJ 99**		AB	6.82	8.27	60.2"	64.6"	181°	211°	2002	1880	G0	08h37m50.1s	-06°48'24"	**26**
26	136221	Hya	**S 579**		AB	4.72	8.2	79"	77.9"	311°	309°	2002	1824	G1Ib	08h43m40.4s	-07°14'01"	**26**
26	136243	Hya	**Σ 1270**			6.89	7.54	4.6"	5"	265°	258°	2005	1824	F2IV	08h45m20.8s	-02°36'04"	**26**
26	154615	Hya	**β 1069**			6.25	10	2.3"	2.1"	63°	61°	1960	1889	K5III	08h46m06.9s	-11°00'24"	**26**
26	136325	Hya	**HJ 107**			7	10.6	32.5"	27.4"	27°	58°	2003	1894	K0	08h50m24.8s	-04°11'52"	**26**
26	136345	Hya	**15 Hya**	H 5 20	AB-C	5.54	9.7	45.7"	43"	5°	340°	1998	1782		08h51m34.4s	-07°10'38"	**26**
26	136345	Hya		β 587	AB	5.75	7.41	1.1"	0.5"	121°	160°	2003	1878	A4m	08h51m34.4s	-07°10'38"	**26**
26	136345	Hya		β 587	AB-D	5.54	10.8	54.7"	55"	56°	43°	1998	1835		08h51m34.4s	-07°10'38"	**26**
26	154745	Hya	**S 585**			5.9	7.24	64.2"	67.9"	151°	146°	2002	1894	K2-3III	08h55m12.4s	-18°14'28"	**26**
26	154743	Hya	**S 584**			6.88	8.84	64.2"	71.2"	217°	211°	2002	1825	A0	08h55m17.1s	-11°22'18"	**26**
26	136408	Hya	**17 Hya**	Σ 1295		6.73	6.93	4"	5"	4°	357°	2003	1782	A2m A7m	08h55m29.6s	-07°58'16"	**26**
26	154781	Hya	**ARG 72**			7.23	7.4	4"	2.4"	182°	182°	2002	1875	F3/5V	08h56m49.7s	-17°26'00"	**26**
26	136604	Hya	**19 Hya**	KUI 38		5.6	9.47	1.3"	1.2"	299°	293°	1999	1936	B9.5III	09h08m42.2s	-08°35'22"	**26**
26	117483	Hya	**β 104**			6.99	10.64	3.3"	2.5"	105°	120°	1991	1873	K2III	09h11m29.3s	+00°17'28"	**26**
26	117553	Hya	**β 588**			6.5	11	2.1"	2.4"	153°	123°	1996	1878	F1V	09h16m39.9s	+00°43'44"	**26**
26	117569	Hya	**Σ 1336**			7	10.2	40"	40"	181°	180°	2003	1892	A0	09h17m32.9s	+00°33'17"	**26**
26	155129	Hya	**β 337**			7	10.18	9.6"	10"	351°	320°	2006	1875	F4V	09h22m29.4s	-17°53'39"	**26**
26	136861	Hya	**29 Hya**	β 590	AC	6.53	11.3	10.67"		176°		1991			09h27m14.6s	-09°13'25"	**26**
26	136883	Hya	**Σ 1357**			6.94	9.85	7.6"	7.5"	55°	51°	2006	1831	K0	09h28m20.5s	-09°59'13"	**26**
26	136894	Hya	**A 1763**			6.31	10.47	1.4"	1.6"	124°	106°	1993	1908	F0Vn	09h29m02.3s	-01°15'25"	**26**
26	136895	Hya	**τ 1 Hya**	HJ 1167		4.64	7.28	66.2"	61.7"	5°	359°	2002	1782	F6V	09h29m08.9s	-02°46'08"	**26**
26	117747	Hya	**Σ 1365**			7.38	7.98	3.3"	3.2"	156°	162°	2005	1822	F9III	09h31m31.3s	+01°27'55"	**26**
26	155323	Hya	**S 604**			6.34	9.44	51.4"	51.5"	92°	91°	2002	1825	A2V	09h35m33.8s	-19°35'00"	**26**
26	117816	Hya	**A 2557**					"							09h37m40.5s	+01°41'46"	**26**
26	155582	Hya	**HJ 4262**			6.87	8.7	129.3"		309°		1904			09h54m34.7s	-12°57'07"	**26**
26	178214	Hya	**β 216**			6.3	10.5	2.7"	2.5"	159°	177°	1978	1874	A4V	09h56m46.8s	-26°32'59"	**26**
26	178271	Hya	**HDS 1439**			6.15	10.44	0.5"	0.5"	0°	0°	1991	1991	B5V	09h59m06.3s	-23°57'03"	**26**
26	155704	Hya	**SHJ 110**		AC	6.22	6.97	20.9"	21.2"	274°	274°	2003	1822		10h04m02.8s	-18°06'05"	**26**
26	178610	Hya	**HLD 101**			6.63	10.56	1.4"	1.5"	110°	125°	1991	1882	F7V	10h16m45.8s	-20°40'11"	**26**
26	178723	Hya	**β 219**			6.7	8.52	1.8"	1.2"	186°	194°	1996	1874	A1V	10h21m35.8s	-22°31'43"	**26**
26	135190	Mon	**Σ 1154**			7.13	9.26	2.8"	2.3"	354°	358°	2000	1827	A5	07h52m08.4s	-03°03'15"	**26**
26	135505	Mon	**Σ 1183**		AB	6.22	7.77	30.6"	30"	328°	327°	2004	1831	B9.5IV	08h06m27.4s	-09°14'40"	**26**
26	135551	Mon	**ζ Mon**	Σ 1190	AC	4.46	9.68	64.7"	66.5"	247°	243°	2002	1821		08h08m35.6s	-02°59'02"	**26**
26	135551	Mon		Σ 1190	AB	4.34	10.1	33"	29.9"	105°	105°	1998	1782	G2Ib	08h08m35.6s	-02°59'02"	**26**
26	197975	Pup	**HJ 3966**			6.85	6.9	6.8"	7"	323°	321°	1999	1835	F0V: F0V:	07h24m47.3s	-37°17'28"	**26**
26	198038	Pup	**Δ 49**			6.34	6.95	9"	15"	53°	50°	1999	1835	B3V B4V	07h28m51.1s	-31°50'54"	**26**
26	198093	Pup	**JSP 167**	PS Pup	Aa-B	6.61	11	91"	91"	345°	344°	1999	1913	A0	07h31m42.7s	-35°53'16"	**26**
26	174020	Pup	**H N 19**			5.82	5.85	9.8"	9"	117°	105°	1998	1825	F5/7V	07h34m18.6s	-23°28'25"	**26**
26	174058	Pup	**HJ 3982**		AB	4.64	9.13	38.3"	37"	150°	151°	1999	1896	B8V	07h35m22.9s	-28°22'10"	**26**
26	153172	Pup	**S 557**			6.51	8.74	66.2"	66.4"	338°	337°	2002	1825	B9IIIe	07h37m38.8s	-14°26'27"	**26**
26	174199	Pup	**H 3 27**		AB	4.4	4.62	9.8"	10.5"	318°	325°	2002	1800	B6V B6V	07h38m49.9s	-26°48'14"	**26**
26	198265	Pup	**I 160**			5.77	8.59	1.2"	1"	149°	170°	1996	1897	B5Vn	07h39m43.8s	-38°08'21"	**26**
26	235458	Pup	**Δ 55**			6.69	7.59	51.9"	60"	133°	134°	1999	1836	F8V G0	07h44m12.5s	-50°27'23"	**26**
26	153362	Pup	**2 Pup**	Σ 1138	AB	6	6.73	16.6"	17.4"	340°	339°	2003	1782	A2V A8V	07h45m29.1s	-14°41'26"	**26**
26	153362	Pup		Σ 1138	AC	6.1	10.4	100"	101.4"	229°	229°	1998	1893		07h45m29.1s	-14°41'26"	**26**
26	218987	Pup	**HU 1428**	HU 1428		7.59	8.72	0.5"	0.4"	33°	354°	1997	1913	B7IV	07h46m58.5s	-46°48'54"	**26**
26	218992	Pup	**Δ 56**			6.89	7.84	49.5"	53"	178°	170°	1999	1826	B1/2Ib/II	07h47m07.2s	-41°30'13"	**26**
26	153409	Pup	**KNT 4**		AB	6.54	6.6	129.4"	128.8"	132°	311°	2002	1864		07h47m45.2s	-16°00'52"	**26**
26	153414	Pup	**5 Pup**	Σ 1146		5.73	7.32	1.3"	3.3"	349°	21°	2003	1831	dF5	07h47m56.7s	-12°11'33"	**26**
26	219035	Pup	**JC 11**		AB	4.06	8.79	59.1"	60"	104°	103°	1999	1846	B0III	07h49m14.3s	-46°22'23"	**26**
26	174658	Pup	**B 146**			6.48	9.67	1"	1.1"	60°	52°	1991	1927	B9.5V	07h51m00.1s	-24°31'43"	**26**
26	198540	Pup	**HWE 65**			5.12	8.59	3.8"	3"	267°	300°	2001	1876	F5V	07h52m15.6s	-34°42'18"	**26**
26	153522	Pup	**H 3 28**			6.61	10.5	18.8"	24"	220°	195°	2003	1901	K2III	07h52m28.4s	-13°51'47"	**26**
26	219157	Pup	**SEE 91**			6.6	6.9	0.7"	0.4"	344°	302°	1996	1897	B6V	07h55m46.6s	-43°50'42"	**26**
26	219244	Pup	**RST 297**			6.84	11.3	3.8"		258°		1929			07h59m00.7s	-48°22'35"	**26**
26	219249	Pup	**Δ 59**			6.23	6.24	16.5"	20"	48°	43°	1999	1834	B2IV-V	07h59m12.3s	-49°58'37"	**26**
26	219265	Pup	**HJ 4032**		AB-C	6.71	9.38	28.8"	30.4"	351°	351°	1999	1836		07h59m45.9s	-47°18'13"	**26**
26	175018	Pup	**β 202**		AB	6.85	9.89	7.7"	6"	161°	162°	1999	1874	B7II	08h01m57.1s	-27°12'53"	**26**
26	219333	Pup	**I 8**	QQ Pup		6.54	9.13	2.3"	4"	303°	320°	1991	1894	A0pSi	08h02m27.1s	-44°40'01"	**26**
26	175052	Pup	**HJ 4037**		AB	7.22	8.41	7.2"	12"	243°	238°	1999	1835	G2IV	08h02m37.4s	-27°32'40"	**26**
26	175052	Pup			AC	7.22	9.22	63.8"	64"	74°	79°	1999	1874		08h02m37.4s	-27°32'40"	**26**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
26	219339	Pup	**HJ 4038**			5.48	8.98	25.2"	29.1"	347°	345°	1993	1837	B9pSi	08h02m44.8s	-41°18'35"	**26**
26	198743	Pup	**HJ 4035**			5.95	8.99	35.7"	30"	135°	132°	2000	1835	K2.5III	08h03m04.2s	-32°27'49"	**26**
26	175114	Pup	**I 487**			6.6	9.98	1.9"	1.6"	25°	18°	1991	1909	K4.5III	08h04m32.6s	-25°41'59"	**26**
26	198791	Pup	**HJ 4046**		AB	6.26	8.41	21.9"	20"	88°	85°	1999	1837	G1Ib	08h05m44.9s	-33°34'10"	**26**
26	198854	Pup	**B 1583**			6.82	10.38	1.1"	1.2"	100°	91°	1991	1929	K5III	08h09m06.7s	-30°19'22"	**26**
26	219507	Pup	**Δ 63**			6.55	7.48	5.5"	6"	80°	81°	1999	1836	B7V	08h09m47.7s	-42°38'27"	**26**
26	153942	Pup	**19 Pup**	β 1064	AD	4.72	8.9	60.6"	60.6"	276°	276°	1899	1899		08h11m16.3s	-12°55'37"	**26**
26	153942	Pup		SHJ 291	AE	4.82	9.37	69.1"	70.2"	256°	256°	2002	1826	A7V	08h11m16.3s	-12°55'37"	**26**
26	219569	Pup	**HJ 4057**			4.77	9.81	26.3"	30"	299°	292°	1999	1835	A5Ib	08h11m25.9s	-42°59'14"	**26**
26	198958	Pup	**HDO 201**		AC	6.75	11	18.8"	18"	271°	280°	1999	1900		08h13m34.3s	-31°44'06"	**26**
26	198969	Pup	**OS Pup**	Δ 67		5.03	5.99	66.9"	67.5"	176°	175°	1999	1837	B1.5IV	08h13m58.3s	-36°19'20"	**26**
26	199010	Pup	**β 454**		AB	6.5	8.21	1.9"	2"	2°	19°	1997	1877		08h15m52.5s	-30°55'33"	**26**
26	199059	Pup	**HJ 4073**			7.18	7.83	1.9"	1"	175°	170°	1994	1835	A0IV	08h18m12.8s	-37°22'29"	**26**
26	175783	Pup	**S 568**			5.48	8.43	42.2"	48"	90°	86°	2001	1800	K4/5III	08h25m03.7s	-24°02'46"	**26**
26	199222	Pup	**NO Pup**	HJ 4093	A-BC	6.48	7.05	8.2"	15"	124°	122°	1999	1835	B9V A2V:	08h26m17.7s	-39°03'32"	**26**
26	199260	Pyx	**GLI 96**		Aa-B	5.71	9.7	25.1"	35"	144°	149°	1999	1851		08h27m59.4s	-35°06'49"	**26**
26	176061	Pyx	**β 205**		AB	7.14	6.84	0.6"	0.5"	318°	310°	1997	1874	A8IV	08h33m04.8s	-24°36'25"	**26**
26	154492	Pyx	**β 207**			6.59	9.22	4.4"	4.3"	102°	104°	2003	1876	K5III	08h38m40.3s	-19°44'13"	**26**
26	176226	Pyx	**β 208**		AB	5.37	6.81	1.3"	1.4"	33°	30°	2001	1874	G6IV	08h39m07.8s	-22°39'40"	**26**
26	199473	Pyx	**I 314**			6.4	7.9	0.5"	1"	223°	239°	1981	1900	F1IV	08h39m22.0s	-36°36'24"	**26**
26	176253	Pyx	**ζ Pyx**	HJ 4120		4.97	9.59	52.4"	42.5"	61°	40°	1999	1836	G4III	08h39m42.5s	-29°33'41"	**26**
26	176395	Pyx	**SEE 106**		AB	6.87	11	18.9"	17.5"	248°	224°	1998	1897	K3III	08h44m41.5s	-23°47'19"	**26**
26	199619	Pyx	**GLI 101**		A-BC	6.7	10.6	46.7"	51.8"	133°	131°	1999	1852	K4III	08h47m23.9s	-34°36'01"	**26**
26	199690	Pyx	**HJ 4144**			7.04	8.97	2.4"	1.7"	315°	315°	1991	1837	B5IV	08h50m23.3s	-35°55'50"	**26**
26	199803	Pyx	**RST 2593**			6.94	10.79	1.1"	0.7"	7°	83°	1991	1935	G1V	08h56m19.8s	-37°07'21"	**26**
26	200047	Pyx	**ε Pyx**	H N 96	A-BC	5.59	9.9	17.7"	16.5"	147°	143°	1999	1835	A4IV-V	09h09m56.4s	-30°21'56"	**26**
26	200135	Pyx	**RST 2619**			6.71	10.87	1.5"	1.4"	92°	98°	1991	1934	K1III	09h14m21.5s	-32°33'25"	**26**
26	177427	Pyx	**RST 2627**			6.85	8.89	0.3"	0.6"	315°	309°	1991	1935	B9III	09h25m37.1s	-25°20'14"	**26**
26	177461	Pyx	**JC 5**			6.42	7.49	0.5"	0.6"	281°	245°	1998	1858	B6Ve	09h26m44.9s	-28°47'16"	**26**
26	137199	Sex	**γ Sex**	AC 5	AB	5.43	6.41	0.6"	0.6"	50°	51°	2006	1854	A1V	09h52m30.4s	-08°06'18"	**26**
26	137256	Sex	**A 1767**			6.57	10.27	1.9"	1.6"	23°	13°	1991	1908	G8IV	09h57m43.9s	-01°56'30"	**26**
26	219504	Vel	**γ Vel**	Δ 65	AB	1.79	4.14	41"	42.9"	219°	222°	2002	1826	WC8+O7.5e	08h09m31.9s	-47°20'12"	**26**
26	219504	Vel		Δ 65	AC	1.79	7.26	62.6"	62.4"	152°	152°	2000	1835		08h09m31.9s	-47°20'12"	**26**
26	219504	Vel		Δ 65	AD	1.79	9.4	93.9"	93.5"	142°	141°	2000	1846		08h09m31.9s	-47°20'12"	**26**
26	219504	Vel		Δ 65	BC	4.14	7.26	60.8"	61.5"	113°	112°	2000	1846		08h09m31.9s	-47°20'12"	**26**
26	219504	Vel		Δ 65	BD	4.14	9.4	94.5"	95.9"	117°	115°	2000	1851		08h09m31.9s	-47°20'12"	**26**
26	219504	Vel		Δ 65	CD	7.26	11	34.1"	33.5"	123°	123°	2000	1846		08h09m31.9s	-47°20'12"	**26**
26	219602	Vel	**SEE 96**		Aa-B	6.22	7.65	0.6"	0.3"	276°	282°	1997	1897		08h12m30.8s	-46°15'51"	**26**
26	219629	Vel	**GLI 87**			5.1	10.05	34.9"	36.4"	343°	344°	1999	1852	B2.5V	08h13m36.2s	-46°59'30"	**26**
26	219657	Vel	**HJ 4069**		AB-C	5.81	8.7	32.1"	33.2"	249°	257°	1999	1836		08h14m23.9s	-45°50'04"	**26**
26	219785	Vel	**HJ 4081**			6.45	11	42.5"		185°		1920			08h19m05.6s	-48°11'52"	**26**
26	219848	Vel	**I 67**			5.14	6.08	0.7"	1"	137°	145°	1998	1896	B2III	08h22m31.7s	-48°29'25"	**26**
26	219977	Vel	**HJ 4102**			6.56	9.35	68.1"	68"	283°	281°	1999	1900	B0Vnne	08h28m52.1s	-42°35'15"	**26**
26	219985	Vel	**HJ 4104**		Aa-B	5.51	7.17	3"	2.3"	250°	238°	1999	1835		08h29m04.7s	-47°55'44"	**26**
26	219985	Vel			Aa-C	5.51	9.23	18.9"	17.5"	40°	37°	1999	1835	B5	08h29m04.7s	-47°55'44"	**26**
26	219996	Vel	**Δ 70**			5.16	6.95	4.3"	5.6"	349°	350°	2002	1835	B2IV	08h29m27.5s	-44°43'29"	**26**
26	220025	Vel	**I 168**			6.31	10.53	3.5"	3"	74°	80°	1991	1897	B4IV	08h30m39.2s	-44°44'14"	**26**
26	220026	Vel	**I 313**		AB	6.82	9.63	3.6"	3.8"	214°	216°	1991	1901	K1III	08h30m46.4s	-41°30'54"	**26**
26	199329	Vel	**HJ 4107**		AB	6.46	8.17	4.3"	3"	330°	325°	1999	1835	B4V	08h31m24.7s	-39°03'51"	**26**
26	199329	Vel			AC	6.46	9.14	30.1"	30"	99°	99°	1999	1835		08h31m24.7s	-39°03'51"	**26**
26	236062	Vel	**SLR 8**			6.13	7.08	0.8"	0.4"	285°	302°	1991	1892	K0III+A3	08h32m05.0s	-53°12'43"	**26**
26	220086	Vel	**HDO 202**			6.46	10.9	15"	15"	225°	225°	1900	1900	B3III	08h33m01.9s	-45°45'10"	**26**
26	199389	Vel	**I 195**			6.58	8.86	1.9"	2"	42°	40°	1991	1897	K5III	08h34m29.2s	-37°36'40"	**26**
26	236157	Vel	**HJ 4126**			5.2	8.66	16.8"	15"	31°	28°	1998	1834	B5	08h39m57.6s	-53°03'17"	**26**
26	220252	Vel	**COO 74**			5.21	9.06	4.1"	3.8"	66°	61°	1999	1894	B9V	08h40m19.1s	-40°15'50"	**26**
26	220313	Vel	**RST 5304**	HX Vel		5.5	8.28	0.5"	0.3"	307°	303°	1995	1944	B1.5Vn	08h42m16.2s	-48°05'57"	**26**
26	236205	Vel	**BSO 18**	HY Vel	AB	4.79	5.45	76.1"	76.6"	311°	310°	1998	1836	B3IV	08h42m25.4s	-53°06'50"	**26**
26	236205	Vel			BD	5.45	9.9	60.4"	61"	267°	265°	1998	1846	F5V	08h42m25.4s	-53°06'50"	**26**
26	199628	Vel	**I 70**			7.08	9.07	1.4"	1.5"	111°	110°	1991	1896	B2V	08h47m43.9s	-38°56'29"	**26**
26	220561	Vel	**HDO 205**			5.1	10	3.2"	3.7"	85°	81°	1959	1894	B0III	08h50m33.5s	-46°31'45"	**26**
26	236362	Vel	**CPO 9**			6.63	8.22	2.9"	3.9"	83°	78°	1991	1877	A0V	08h52m40.8s	-52°07'44"	**26**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
26	236417	Vel	**R 87**			4.7	7.72	2.6"	3.5"	335°	341°	1995	1881	B5V	08h56m19.3s	-52°43'24"	**26**
26	236518	Vel	**HJ 4165**			5.55	6.6	0.7"	1.4"	136°	88°	1996	1837	B9Si	09h01m44.6s	-52°11'19"	**26**
26	220952	Vel	**HJ 4188**		Aa-B	5.96	6.76	2.8"	3.1"	281°	287°	1992	1835		09h12m30.5s	-43°36'48"	**26**
26	220978	Vel	**HJ 4191**			5.3	9.2	5.7"	4"	14°	8°	1999	1835	B4V	09h14m24.5s	-43°13'39"	**26**
26	220998	Vel	**I 11**			6.56	7.65	0.8"	1"	290°	270°	1997	1894	B8V	09h15m14.6s	-45°33'20"	**26**
26	236956	Vel	**COO 83**			7.03	10.18	19.2"	19.3"	154°	153°	1999	1894	F7V	09h25m36.3s	-53°15'07"	**26**
26	221234	Vel	**ψ Vel**	COP 1		3.91	5.12	0.5"	0.8"	226°	45°	1997	1883	F0IV+F3IV	09h30m41.9s	-40°28'00"	**26**
26	221262	Vel	**RST 1435**			5.5	8.37	1.1"	1"	95°	84°	1991	1935	G8III	09h32m19.3s	-40°38'58"	**26**
26	221288	Vel	**HJ 4220**			5.54	6.19	1.6"	3"	217°	202°	1996	1836	B5III	09h33m44.5s	-49°00'18"	**26**
26	221339	Vel	**R 125**	IM Vel		6.26	10.34	3"	2.8"	188°	165°	2000	1880	ApSrEuCr	09h36m25.4s	-48°45'04"	**26**
26	237149	Vel	**SEE 115**			6.12	6.28	0.7"	0.3"	8°	4°	1997	1897	A2-3V	09h37m12.6s	-53°40'07"	**26**
26	221480	Vel	**HJ 4245**			6.77	9.6	9.3"	12"	217°	217°	1999	1835	G8II/III	09h46m09.0s	-45°55'05"	**26**
26	221512	Vel	**I 1520**			6.6	10.6	3.2"	2.7"	250°	250°	1942	1927	K3III	09h49m08.9s	-43°28'58"	**26**
26	221523	Vel	**HJ 4254**			5.07	9.33	67"	65.7"	48°	47°	1999	1901	B7III	09h49m57.1s	-45°43'58"	**26**
26	221592	Vel	**Δ 81**			5.79	8.23	5.2"	4"	240°	239°	1999	1826	B5V	09h54m17.6s	-45°17'01"	**26**
26	221644	Vel	**HJ 4269**			6.05	10.1	13.8"	15"	321°	317°	1999	1837	B3V	09h57m42.6s	-48°24'51"	**26**
26	221668	Vel	**HJ 4273**			6.71	10.44	15.5"	15.5"	136°	137°	1999	1836	B8/9V	09h59m26.2s	-44°57'20"	**26**
26	221773	Vel	**I 173**			5.32	7.1	0.9"	0.6"	1°	45°	1997	1897	K1IV+G5V	10h06m11.2s	-47°22'12"	**26**
26	237921	Vel	**HJ 4307**		Aa-B	6.92	7.3	15"	12"	262°	245°	1991	1834		10h19m52.3s	-51°34'04"	**26**
26	238059	Vel	**HJ 4319**			7.3	10.5	10.8"	10"	119°	130°	1968	1834	M2I+B3III	10h26m15.6s	-53°53'29"	**26**
26	222057	Vel	**RST 4928**			6.7	8.7	0.5"	0.6"	313°	315°	1949	1943	F0IV/V	10h26m44.0s	-47°39'36"	**26**
26	238146	Vel	**HJ 4329**			4.95	8.58	73.9"	15"	103°	10°	2000	1834	F6V	10h31m21.6s	-53°42'54"	**26**
26	222126	Vel	**PZ 3**			5.64	5.97	13.6"	14.9"	219°	223°	1999	1826	B8	10h31m57.4s	-45°04'00"	**26**
26	222136	Vel	**HJ 4330**		Aa-B	5.15	8.55	40.4"	30"	163°	161°	1999	1835		10h32m56.9s	-47°00'12"	**26**
26	222321	Vel	**μ Vel**	R 155		2.82	5.65	2"	2.8"	52°	55°	2001	1880	G5III+G2V	10h46m46.2s	-49°25'13"	**26**
26	222454	Vel	**HJ 4388**			6.83	11.5	34.7"		206°		1930			10h57m37.8s	-45°52'33"	**26**

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27	151303	CMa	**β 18**			7.06	8.42	1.8"	1.5"	285°	280°	1993	1871	F2V	06h16m41.6s	-12°02'50"	**27**
27	171502	CMa	**HJ 3845**			6.06	10.44	47.6"	25"	6°	52°	1959	1836	G0V	06h17m03.7s	-22°42'57"	**27**
27	196698	CMa	**ζ CMa**	SMY 1		2.96	7.81	174.2"	167"	338°	338°	1999	1833	B2.5V	06h20m18.8s	-30°03'48"	**27**
27	151401	CMa	**Σ 3116**	FR CMa	AB	5.6	9.7	3.8"	4.5"	21°	19°	1999	1831	B1Vpe	06h21m24.7s	-11°46'24"	**27**
27	151401	CMa		FOX 146	AC	5.5	11.6	56.5"		274°		1911		B1V	06h21m24.7s	-11°46'24"	**27**
27	151453	CMa	**β 568**			6.85	8.18	0.8"	1.4"	153°	155°	2005	1878	B8IIIHewk	06h23m47.7s	-19°47'07"	**27**
27	151461	CMa	**Σ 903**			6.12	10.49	23.1"	23.3"	295°	294°	1999	1829	B5Ve	06h24m20.6s	-12°57'43"	**27**
27	151462	CMa	**S 518**			6.98	8.4	16.3"	16.5"	87°	87°	2002	1825	A6V	06h24m21.1s	-16°13'28"	**27**
27	196861	CMa	**β 753**			5.86	7.6	1.2"	1.2"	43°	40°	1999	1879	B4Vnpe	06h28m39.2s	-32°22'17"	**27**
27	171831	CMa	**HJ 3863**			7.03	8.69	2.8"	2"	120°	121°	1993	1837	A1V	06h29m25.6s	-22°35'28"	**27**
27	151583	CMa	**HJ 3864**			6.77	10.47	21.3"	21.5"	43°	44°	2002	1902	B8V	06h30m29.8s	-14°57'16"	**27**
27	151585	CMa	**GAL 242**			6.16	11.08	35.9"	36.6"	68°		1963	1902	B1.5V	06h30m34.9s	-13°08'53"	**27**
27	196919	CMa	**HJ 3869**			5.68	7.87	24.7"	27.5"	258°	250°	1999	1836	B2IV	06h32m39.0s	-32°01'50"	**27**
27	151694	CMa	**ν 1 CMa**	SHJ 73		5.79	7.38	17.8"	19"	264°	256°	2002	1800		06h36m22.8s	-18°39'36"	**27**
27	172021	CMa	**H 2 60**		AB	6.39	9.31	9.2"	15"	336°	327°	1999	1835	B5V	06h36m41.1s	-22°36'53"	**27**
27	151807	CMa	**β 19**			7.07	9	3"	4.1"	168°	169°	1998	1871	B8/9III	06h41m59.7s	-16°00'26"	**27**
27	172204	CMa	**S 534**			6.27	8.3	18.2"	18.1"	144°	143°	1999	1825	F2V	06h42m46.0s	-22°26'54"	**27**
27	197163	CMa	**COO 44**			6.54	9.82	4.4"	5"	221°	225°	1999	1897	B8IV	06h45m02.6s	-30°35'11"	**27**
27	151881	CMa	**α Cma**	AGC 1	AB	-1.46	8.5	3.7"	10.3"	190°	80°	1997	1861	A1Vm	06h45m08.7s	-16°43'07"	**27**
27	197177	CMa	**HJ 3891**			5.66	8.21	4.9"	5"	223°	222°	1999	1838	B2III	06h45m31.2s	-30°56'56"	**27**
27	151962	CMa	**AC 4**			5.57	7.23	0.5"	1"	331°	287°	2001	1858	B6V	06h48m57.7s	-15°08'41"	**27**
27	172389	CMa	**S 537**		AC	6.56	8.28	30.1"	30.3"	283°	282°	1999	1825		06h49m44.0s	-24°04'34"	**27**
27	172389	CMa		β 324	AB	6.56	7.93	1.8"	2"	209°	190°	1991	1875	A0/1V	06h49m44.0s	-24°04'34"	**27**
27	197263	CMa	**H 5 108**		A-BC	5.76	7.71	42.7"	42.9"	66°	67°	1999	1783	B6Vnpe	06h50m23.3s	-31°42'22"	**27**
27	172569	CMa	**17 CMa**	H 5 65	AB	5.8	8.66	43.5"	44.9"	148°	154°	2002	1783	A3IV	06h55m02.7s	-20°24'18"	**27**
27	172569	CMa		H 5 65	AC	5.74	9	49.4"	53"	186°	184°	2002	1825	A3IV	06h55m02.7s	-20°24'18"	**27**
27	172569	CMa		H 5 65	AD	5.8	9.66	128.4"	128.4"	187°	152°	2002	1825	A3IV	06h55m02.7s	-20°24'18"	**27**
27	172579	CMa	**π CMa**	H N 123		4.6	9.6	11.7"	11.3"	13°	18°	1999	1876	gF2	06h55m37.5s	-20°08'11"	**27**
27	152123	CMa	**μ CMa**	Σ 997	AB	5.27	7.14	3.2"	3.6"	345°	341°	2004	1830	G5III+A2	06h56m06.6s	-14°02'36"	**27**
27	152123	CMa		Σ 997	AC	5.27	10.32	85.9"	90"	289°	288°	2004	1865		06h56m06.6s	-14°02'36"	**27**
27	152123	CMa		Σ 997	AD	5.27	10.64	103.8"	107"	63°	61°	2002	1865		06h56m06.6s	-14°02'36"	**27**
27	172676	CMa	**ε CMa**	CPO 7		1.5	7.5	7"	7.7"	161°	161°	2000	1850	B2II	06h58m36.0s	-28°58'53"	**27**
27	197432	CMa	**HDO 198**		AB	6.37	10.17	40.1"	15"	338°	315°	1999	1900	B3V	06h58m43.7s	-30°59'53"	**27**
27	172736	CMa	**β 572**			6.76	10.02	4.9"	5"	143°	144°	1999	1877	A4mA5A9	07h00m35.1s	-20°38'25"	**27**
27	152255	CMa	**HU 112**	GU CMa		7.03	7.7	0.6"	0.6"	198°	191°	1991	1900	B2Vne	07h01m49.5s	-11°18'03"	**27**
27	152394	CMa	**Σ 1026**		AB-C	5.39	9	17.5"	20"	350°	350°	1999	1875		07h06m40.8s	-11°17'38"	**27**

65

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
27	152394	CMa		β 328	AB	5.7	6.91	0.6"	0.7"	111°	135°	2003	1875	B0.5IV	07h06m40.8s	-11°17'38"	**27**
27	173152	CMa	**HJ 3934**		A-BC	6.91	8.49	13.7"	12"	237°	234°	1999	1832	B3V	07h11m20.9s	-21°48'12"	**27**
27	173247	CMa	**HJ 3938**			6.32	9.1	19.4"	18"	251°	253°	1999	1837	B2IV+G5IV	07h13m48.4s	-22°54'21"	**27**
27	173349	CMa	**HJ 3945**			5	5.84	26.7"	35"	52°	63°	2002	1837	K3Ib dF0	07h16m36.8s	-23°18'56"	**27**
27	197789	CMa	**BSO 2**			6.32	7.82	37.7"	37.5"	183°	181°	1999	1838	A9II	07h16m57.2s	-30°53'49"	**27**
27	152660	CMa	**Σ 1064**			6.7	9.6	15.9"		243°		1991			07h17m07.0s	-12°02'03"	**27**
27	173446	CMa	**τ CMa**	HJ 3948	Aa,B	4.42	10.2	8.6"	8"	93°	86°	2002	1835		07h18m42.5s	-24°57'16"	**27**
27	173446	CMa		HJ 3948	Aa,C	4.42	11.2	14.8"		79°		1876		O9II	07h18m42.5s	-24°57'16"	**27**
27	173446	CMa		HJ 3948	Aa,D	4.42	8.22	84.8"	85"	77°	73°	2002	1834	O9II	07h18m42.5s	-24°57'16"	**27**
27	173651	CMa	**η CMa**	SMY 2		2.45	6.77	179"	169"	286°	285°	1999	1833	B5Ia	07h24m05.7s	-29°18'11"	**27**
27	197964	CMa	**Δ 47**		A-CD	5.4	7.58	98.5"	100.4"	343°	341°	1999	1898	B8V	07h24m43.8s	-31°48'32"	**27**
27	197964	CMa		DAW 129	AB	5.4	9.73	2.1"	2.2"	311°	309°	1991	1922	G8II	07h24m43.8s	-31°48'32"	**27**
27	152837	CMa	**KUI 29**			6.24	11.2	2.7"		310°		1935		A2IB	07h24m50.9s	-19°00'44"	**27**
27	173684	CMa	**β 199**		AB	7.21	8.05	1.7"	1.7"	24°	19°	2000	1870	B1Iab	07h25m08.0s	-21°10'26"	**27**
27	152894	CMa	**β 578**			5.66	9.23	1.5"	1.7"	40°	54°	2001	1878	A5n	07h27m08.0s	-17°51'53"	**27**
27	152909	CMa	**Σ 1097**		AC	6	8.5	19.8"	20.2"	313°	312°	2003	1832		07h27m51.7s	-11°33'25"	**27**
27	152909	CMa		β 332	AB	6.22	7.35	0.7"	0.8"	171°	166°	2003	1875		07h27m51.7s	-11°33'25"	**27**
27	152909	CMa		β 332	AD	6	9.5	22.8"	30"	157°	165°	1998	1875		07h27m51.7s	-11°33'25"	**27**
27	115294	CMi	**Σ 1074**		AB	7.44	7.8	0.7"	0.5"	173°	115°	1997	1831	B9.5V	07h20m31.1s	+00°24'13"	**27**
27	115839	CMi	**A 2534**		AB-C	6.44	8.47	0.8"	0.6"	233°	208°	1997	1913		07h43m05.4s	+00°11'22"	**27**
27	116182	CMi	**14 CMi**	SHJ 87	AB	5.41	9.36	98.8"	65.5"	84°	64°	2004	1782	K0III	07h58m20.6s	+02°13'30"	**27**
27	116182	CMi		SHJ 87	AC	5.41	9.89	133.3"	112.2"	148°	153°	2004	1822		07h58m20.6s	+02°13'30"	**27**
27	196274	Col	**I 16**			6.88	9.76	1.3"	1"	125°	110°	1991	1894	K1III	05h52m47.7s	-38°31'34"	**27**
27	196693	Col	**HJ 3849**			6.73	8.07	39.5"	45"	54°	51°	2000	1837	K2/3III	06h19m48.0s	-39°29'11"	**27**
27	196774	Col	**Δ 28**		AC	5.73	6.91	63.6"	69"	74°	64°	1999	1826		06h24m01.0s	-36°42'28"	**27**
27	196774	Col		HJ 3857	AB	5.73	9.83	13.1"	12"	255°	259°	1999	1836	G6III	06h24m01.0s	-36°42'28"	**27**
27	196805	Col	**HJ 3858**		AB	6.4	7.61	131.7"	127.2"	47°	49°	1991	1846	K3III	06h25m30.0s	-35°03'51"	**27**
27	217981	Col	**I 4**			7.28	7.5	0.8"	1"	306°	340°	1991	1894	B3IV	06h30m40.7s	-40°26'53"	**27**
27	196959	Col	**β 754**			7.22	7.74	1"	0.5"	49°	20°	1996	1879	A4V	06h34m43.4s	-34°00'34"	**27**
27	196978	Col	**β 755**		AB	5.86	6.94	1.5"	1"	260°	250°	1999	1879	A0V	06h35m24.2s	-36°46'47"	**27**
27	196978	Col		HJ 3875		6	11.5	21.4"		301°		1887		A0V	06h35m24.2s	-36°46'47"	**27**
27	197011	Col	**HDO 196**			6.04	10	25"		180°		1900		K0III	06h37m01.9s	-38°08'47"	**27**
27	197014	Col	**RST 4819**			5.91	7.51	0.5"	0.6"	4°	4°	1999	1942	B7IV	06h37m13.8s	-36°59'26"	**27**
27	150652	Lep	**HJ 3780**		AE	6.42	7.9	76"	80"	8°	7°	2002	1874		05h39m16.2s	-17°50'58"	**27**
27	150652	Lep			AB-I	6.4	10.94	91.8"	90"	103°	105°	2000	1874		05h39m16.2s	-17°50'58"	**27**
27	150652	Lep			AC	6.69	8.89	89.9"	90"	138°	136°	2002	1874		05h39m16.2s	-17°50'58"	**27**
27	150652	Lep			AF	6.69	8.25	132.3"	125"	299°	300°	2002	1874		05h39m16.2s	-17°50'58"	**27**
27	170652	Lep	**LAL 194**		AB	6.87	7.94	10.9"	11.8"	124°	123°	2002	1868	B8	05h39m44.7s	-20°26'07"	**27**
27	170652	Lep		HDO 77		6.89	11.3	32.2"		83°		1870			05h39m44.7s	-20°26'07"	**27**
27	170759	Lep	**γ Lep**	H 6 40	AB	3.64	6.28	97.1"	95.8"	350°	348°	2002	1800	F6V K2V	05h44m27.6s	-22°26'57"	**27**
27	170759	Lep		H 5 50	BC	6.15	11	112.5"	40"	8°	300°	1999	1781		05h44m27.6s	-22°26'57"	**27**
27	170770	Lep	**HO 336**			6.79	11.7	19.4"		238°		1860			05h44m50.7s	-21°39'33"	**27**
27	150845	Lep	**β 94**			5.68	8.2	2.3"	2.5"	165°	190°	2001	1873	G8III	05h49m36.5s	-14°29'02"	**27**
27	151154	Lep	**β 17**		AB	6.92	9.34	3.7"	3.4"	189°	179°	2002	1871	A5IV	06h08m25.4s	-11°08'47"	**27**
27	151154	Lep			AC	6.92	10.81	10"	10"	257°	244°	2002	1871		06h08m25.4s	-11°08'47"	**27**
27	151173	Lep	**B 2598**			6.35	11.2	23"		358°		1958			06h09m20.2s	-18°07'35"	**27**
27	132703	Mon	**A 322**		AC	7.07	9.41	195.5"	176.8"	304°	296°	2002	1892		05h58m21.6s	-04°39'04"	**27**
27	151037	Mon	**3 Mon**	β 16		4.99	7.96	1.9"	1.8"	355°	356°	1996	1871	B5III	06h01m50.4s	-10°35'53"	**27**
27	132793	Mon	**HDS 826**			5.24	9.45	0.6"	0.6"	271°	274°	1999	1991	B2Vne+	06h04m13.5s	-06°42'32"	**27**
27	132941	Mon	**AC 3**			6.34	8.15	0.7"	1.1"	203°	174°	1995	1854	B9pHgMn	06h11m43.7s	-04°39'56"	**27**
27	133027	Mon	**β 567**			6	10	3.9"	3.8"	241°	250°	1998	1878	A5IVs	06h15m29.7s	-04°54'53"	**27**
27	133078	Mon	**A 323**			6.87	9.58	1.2"	1"	219°	217°	1991	1902	A2V	06h18m17.4s	-05°39'16"	**27**
27	113810	Mon	**ε Mon**	Σ 900	AB	4.42	6.64	12.1"	12.5"	29°	29°	2004	1781	A5IV F5V	06h23m46.1s	+04°35'34"	**27**
27	133215	Mon	**β 97**			6.77	9.14	0.8"	1"	272°	260°	1995	1873	B8V	06h24m33.9s	-01°25'06"	**27**
27	133263	Mon	**Σ 914**			6.32	9.25	21.1"	21.1"	298°	298°	2003	1829	A0Vn	06h26m44.9s	-07°30'43"	**27**
27	133290	Mon	**10 Mon**	BUP 89	AB	5.06	9.2	77"	72"	257°	225°	2002	1832	B2V	06h27m57.6s	-04°45'44"	**27**
27	133290	Mon		BUP 89	AC	5.06	9.2	78"	80.9"	232°	231°	2004	1879		06h27m57.6s	-04°45'44"	**27**
27	133316	Mon	**β Mon**	Σ 919	AB	4.62	5	7.1"	7.6"	133°	130°	2006	1823	B3Ve B3ne	06h28m49.1s	-07°01'59"	**27**
27	133316	Mon		Σ 919	AC	4.63	5.39	9.8"	9"	125°	139°	2006	1777	B3Ve B3e	06h28m49.1s	-07°01'59"	**27**
27	133316	Mon		Σ 919	BC	5	5.32	3"	3.3"	108°	103°	2006	1823	B3Ve B3e	06h28m49.1s	-07°01'59"	**27**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
27	113940	Mon	**BAL 1695**			6.16	10.4	19.1"	19.7"	300°	295°	1999	1910	M1	06h29m14.8s	+02°38'46"	**27**
27	114010	Mon	**GAN 3**		AE	6.9	9.6	13.1"	13.3"	198°	198°	2002	1876		06h31m55.5s	+04°56'34"	**27**
27	133805	Mon	**WNO 17**			6.71	10.16	58.3"	57.5"	180°	177°	2004	1894	K4V dM	06h52m17.8s	-05°10'25"	**27**
27	133855	Mon	**Σ 987**			7.07	7.2	1.3"	1.1"	176°	164°	2006	1831	A6Vn	06h54m08.6s	-05°51'08"	**27**
27	152256	Mon	**β 573**			7.16	7.83	0.8"	0.8"	301°	247°	1997	1878	F8	07h01m49.9s	-10°52'56"	**27**
27	134073	Mon	**KUI 28**			6.34	10.11	24.3"	24"	252°	245°	2003	1929	K0	07h01m52.9s	-01°20'45"	**27**
27	114867	Mon	**OΣ 82**			6.54	7.62	89.9"	90.4"	320°	318°	2004	1876	A0V	07h04m20.2s	+01°29'19"	**27**
27	152363	Mon	**D 12**		AB	6.51	10.08	6.4"	6.1"	282°	279°	2003	1867		07h05m49.6s	-10°39'36"	**27**
27	152363	Mon		Σ 1019	AC	6.51	9.55	38.5"	37.8"	295°	294°	2004	1830		07h05m49.6s	-10°39'36"	**27**
27	134282	Mon	**20 Mon**	ENG 29	AC	4.92	9.9	167.9"	190.6"	337°	340°	2003	1886		07h10m13.7s	-04°14'12"	**27**
27	134391	Mon	**A 524**			6.14	10.17	2.7"	2.9"	152°	148°	1991	1903	M1III	07h14m10.8s	-03°54'06"	**27**
27	134806	Mon	**Σ 1112**			6.03	8.73	23.8"	23"	113°	117°	1998	1831	F5V	07h32m05.7s	-08°52'54"	**27**
27	135190	Mon	**Σ 1154**			7.13	9.26	2.8"	2.3"	354°	358°	2000	1827	A5	07h52m08.4s	-03°03'15"	**27**
27	135505	Mon	**Σ 1183**		AB	6.22	7.77	30.6"	30"	328°	327°	2004	1831	B9.5IV	08h06m27.4s	-09°14'40"	**27**
27	135551	Mon	**ζ Mon**	Σ 1190	AC	4.46	9.68	64.7"	66.5"	247°	243°	2002	1821		08h08m35.6s	-02°59'02"	**27**
27	135551	Mon		Σ 1190	AB	4.34	10.1	33"	29.9"	105°	105°	1998	1782	G2Ib	08h08m35.6s	-02°59'02"	**27**
27	132444	Ori	**ζ Ori**	Σ 774	Aa,B	1.88	3.7	2.6"	2.3"	166°	152°	2002	1822	O9.5Ibe	05h40m45.5s	-01°56'33"	**27**
27	132444	Ori		Σ 774	Aa,C	1.88	9.55	57.3"	60"	10°	7°	2003	1781		05h40m45.5s	-01°56'33"	**27**
27	132444	Ori		Σ 774	BC	4.2	8.5	59.8"	59.8"	8°	8°	2002	1909	B0	05h40m45.5s	-01°56'33"	**27**
27	132477	Ori	**A 494**		AB- C	6.01	10.36	101.7"	98.5"	231°	233°	2003	1893		05h42m53.9s	-06°47'46"	**27**
27	113099	Ori	**Σ 789**		AB	6.13	10.17	14.3"	18"	149°	155°	1999	1831	gF0n	05h45m01.8s	+04°00'29"	**27**
27	132515	Ori	**Σ 790**			6.43	8.98	7.1"	7.7"	89°	87°	2003	1825		05h46m02.9s	-04°16'07"	**27**
27	113296	Ori	**β 1190**		AB	6.95	9.81	1.4"	1.4"	331°	340°	1991	1890	A0V	05h57m25.3s	+00°01'39"	**27**
27	113315	Ori	**59 Ori**	H 5 100	AB	5.91	10.44	36.5"	37.3"	206°	205°	1999	1782	A5m	05h58m24.4s	+01°50'14"	**27**
27	113507	Ori	**Σ 855**		AB	5.68	6.68	29.1"	29.2"	114°	113°	2005	1824	A3Vn A0V	06h08m57.9s	+02°29'59"	**27**
27	113507	Ori			AC	5.68	9.68	118.5"	119"	107°	106°	2002	1910		06h08m57.9s	+02°29'59"	**27**
27	113507	Ori			BC	6.68	9.68	89.7"	89.8"	105°	104°	2002	1910		06h08m57.9s	+02°29'59"	**27**
27	233965	Pic	**θ Pic**	Δ 20	AB-C	6.24	6.74	38.1"	38.5"	289°	284°	2002	1826	A0V A2V	05h24m46.3s	-52°18'59"	**27**
27	233965	Pic		I 345		6.9	7.2	0.1"	0.5"	49°	197°	1990	1901	A0V	05h24m46.3s	-52°18'59"	**27**
27	217368	Pic	**HJ 3767**			5.46	11.08	25.9"		257°	223°	1933	1835	G3IV	05h30m09.5s	-47°04'41"	**27**
27	217368	Pic		Δ 21	AD	5.52	6.68	197.8"	197.2"	271°	264°	2000	1837	G3IV	05h30m09.5s	-47°04'41"	**27**
27	217598	Pic	**HJ 3816**			6.75	11.6	22.9"		180°		1913			05h53m09.6s	-47°57'19"	**27**
27	234224	Pic	**HJ 3822**		AB	6.63	7.58	55.6"	65"	303°	304°	2000	1836	K5-M0III	05h57m14.4s	-53°25'32"	**27**
27	217706	Pup	**HJ 3834**		AB	6.02	8.98	5.7"	1.1"	216°	246°	1999	1837	F5V	06h04m40.1s	-45°04'42"	**27**
27	217706	Pup			AC	6.02	6.39	196.2"	173.8"	321°	320°	1999	1854	G01V-V	06h04m40.1s	-45°04'42"	**27**
27	217893	Pup	**HJ 3856**			6.7	9.7	34"	30"	4°	5°	1999	1835	K1III	06h22m55.2s	-45°37'44"	**27**
27	217922	Pup	**I 156**			5.87	8.07	1"	1.6"	125°	131°	1999	1894	B9V	06h25m43.7s	-48°10'37"	**27**
27	234539	Pup	**Δ 30**		AB-CD	5.97	7.98	11.9"	14"	312°	310°	1999	1826		06h29m49.0s	-50°14'21"	**27**
27	234539	Pup		R 65	AB	5.97	6.15	0.7"	0.7"	266°	88°	2001	1879	F2V	06h29m49.0s	-50°14'21"	**27**
27	218093	Pup	**Δ 31**			5.14	7.38	12.9"	12.3"	320°	319°	1999	1826	G8III	06h38m37.6s	-48°13'13"	**27**
27	218126	Pup	**HJ 5443**			6.12	9.38	15.5"	17.3"	108°	105°	1999	1835	B4V	06h41m14.2s	-40°20'59"	**27**
27	197108	Pup	**Δ 32**			6.59	7.73	7.9"	6.2"	277°	349°	1999	1826	A5:m	06h42m16.4s	-38°23'56"	**27**
27	218186	Pup	**HJ 3895**			7.11	10.89	25.7"	30"	66°	63°	1999	1835	K3III	06h46m44.6s	-47°48'16"	**27**
27	218197	Pup	**I 158**			6.96	10.38	1.8"	1"	187°	185°	1991	1897	G8:III+	06h47m22.8s	-48°33'49"	**27**
27	218236	Pup	**I 159**			6.5	11	6.6"	4"	323°	315°	1966	1897	K5-M0III	06h49m57.7s	-45°27'02"	**27**
27	218421	Pup	**Δ 38**		AB	5.61	6.68	20.9"	21.5"	126°	119°	1999	1826	G3V K0V	07h03m57.3s	-43°36'26"	**27**
27	218421	Pup			AC	5.61	8.83	184.9"	184.8"	335°	334°	1999	1900	G3V	07h03m57.3s	-43°36'26"	**27**
27	197557	Pup	**HJ 3928**		AB	6.47	7.81	2.7"	4"	145°	157°	2001	1836	F2V	07h05m32.0s	-34°46'39"	**27**
27	197557	Pup			AC	6.47	9.68	37.8"	37"	291°	287°	1999	1836		07h05m32.0s	-34°46'39"	**27**
27	197557	Pup			AD	6.5	10.8	42.7"	35.5"	126°	119°	1999	1879		07h05m32.0s	-34°46'39"	**27**
27	218525	Pup	**HDS 1001**			5.31	9.4	0.8"	0.8"	258°	258°	1991	1991	A3p...	07h12m15.8s	-40°29'56"	**27**
27	197694	Pup	**β 757**			6.03	8.35	2.5"	1.5"	69°	60°	1993	1879	B3V	07h12m25.8s	-36°32'40"	**27**
27	197795	Pup	**π Pup**	Δ 43	AB	2.89	7.94	68.9"	72.6"	213°	214°	1999	1826	K3Ib	07h17m08.6s	-37°05'51"	**27**
27	197795	Pup		HDS 1008	Aa	2.89	6.49	0.7"	0.7"	152°	148°	1991	1991	K3Ib	07h17m08.6s	-37°05'51"	**27**
27	197824	Pup	**JC 10**	NV Pup	AB	4.66	5.07	240"	238.7"	98°	97°	1991	1846	B2V+B3IV	07h18m18.4s	-36°44'02"	**27**
27	197824	Pup		JC 10	BC	5.07	8.67	117.2"	116.9"	216°	215°	1999	1846	A0V	07h18m18.4s	-36°44'02"	**27**
27	197975	Pup	**HJ 3966**			6.85	6.9	6.8"	7"	323°	321°	1999	1835	F0V: F0V:	07h24m47.3s	-37°17'28"	**27**
27	173797	Pup	**HJ 2391**			6.5	11	17.3"	15"	287°	292°	1999	1831	K4III	07h28m01.9s	-26°50'20"	**27**
27	198038	Pup	**Δ 49**			6.34	6.95	9"	15"	53°	50°	1999	1835	B3V B4V	07h28m51.1s	-31°50'54"	**27**
27	152943	Pup	**Σ 1104**		AB	6.39	7.6	1.9"	2.4"	29°	292°	2005	1831	F7V	07h29m21.8s	-14°59'57"	**27**
27	152943	Pup			AC	5.9	10.7	2.2"	20.7"	338°	190°	1916	1882		07h29m21.8s	-14°59'57"	**27**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
27	152943	Pup			AD	5.9	11.2	42.4"	33.6"	8°	359°	1916	1882		07h29m21.8s	-14°59'57"	**27**
27	198093	Pup	**JSP 167**	PS Pup	Aa-B	6.61	11	91"	91"	345°	344°	1999	1913	A0	07h31m42.7s	-35°53'16"	**27**
27	174020	Pup	**H N 19**			5.82	5.85	9.8"	9"	117°	105°	1998	1825	F5/7V	07h34m18.6s	-23°28'25"	**27**
27	153083	Pup	**DOO 42**		AF	6.8	9.7	68.3"	60.6"	133°	128°	1998	1902		07h34m28.9s	-13°52'12"	**27**
27	174058	Pup	**HJ 3982**		AB	4.64	9.13	38.3"	37"	150°	151°	1999	1896	B8V	07h35m22.9s	-28°22'10"	**27**
27	153118	Pup	**Σ 1120**		AC	5.64	9.74	19.8"	19.6"	37°	35°	2001	1830		07h36m03.9s	-14°29'34"	**27**
27	153172	Pup	**S 557**			6.51	8.74	66.2"	66.4"	338°	337°	2002	1825	B9IIIe	07h37m38.8s	-14°26'27"	**27**
27	174199	Pup	**H 3 27**		AB	4.4	4.62	9.8"	10.5"	318°	325°	2002	1800	B6V B6V	07h38m49.9s	-26°48'14"	**27**
27	198265	Pup	**I 160**			5.77	8.59	1.2"	1"	149°	170°	1996	1897	B5Vn	07h39m43.8s	-38°08'21"	**27**
27	235458	Pup	**Δ 55**			6.69	7.59	51.9"	60"	133°	134°	1999	1836	F8V G0	07h44m12.5s	-50°27'23"	**27**
27	153362	Pup	**2 Pup**	Σ 1138	AB	6	6.73	16.6"	17.4"	340°	339°	2003	1782	A2V A8V	07h45m29.1s	-14°41'26"	**27**
27	153362	Pup		Σ 1138	AC	6.1	10.4	100"	101.4"	229°	229°	1998	1893		07h45m29.1s	-14°41'26"	**27**
27	218987	Pup	**HU 1428**	HU 1428		7.59	8.72	0.5"	0.4"	33°	354°	1997	1913	B7IV	07h46m58.5s	-46°48'54"	**27**
27	218992	Pup	**Δ 56**			6.89	7.84	49.5"	53"	178°	170°	1999	1826	B1/2Ib/II	07h47m07.2s	-41°30'13"	**27**
27	153409	Pup	**KNT 4**		AB	6.54	6.6	129.4"	128.8"	132°	311°	2002	1864		07h47m45.2s	-16°00'52"	**27**
27	153414	Pup	**5 Pup**	Σ 1146		5.73	7.32	1.3"	3.3"	349°	21°	2003	1831	dF5	07h47m56.7s	-12°11'33"	**27**
27	219035	Pup	**JC 11**		AB	4.06	8.79	59.1"	60"	104°	103°	1999	1846	B0III	07h49m14.3s	-46°22'23"	**27**
27	174658	Pup	**B 146**			6.48	9.67	1"	1.1"	60°	52°	1991	1927	B9.5V	07h51m00.1s	-24°31'43"	**27**
27	198540	Pup	**HWE 65**			5.12	8.59	3.8"	3"	267°	300°	2001	1876	F5V	07h52m15.6s	-34°42'18"	**27**
27	153522	Pup	**H 3 28**			6.61	10.5	18.8"	24"	220°	195°	2003	1901	K2III	07h52m28.4s	-13°51'47"	**27**
27	219157	Pup	**SEE 91**			6.6	6.9	0.7"	0.4"	344°	302°	1996	1897	B6V	07h55m46.6s	-43°50'42"	**27**
27	219244	Pup	**RST 297**			6.84	11.3	3.8"		258°		1929			07h59m00.7s	-48°22'35"	**27**
27	219249	Pup	**Δ 59**			6.23	6.24	16.5"	20"	48°	43°	1999	1834	B2IV-V	07h59m12.3s	-49°58'37"	**27**
27	219265	Pup	**HJ 4032**		AB-C	6.71	9.38	28.8"	30.4"	351°	351°	1999	1836		07h59m45.9s	-47°18'13"	**27**
27	175018	Pup	**β 202**		AB	6.85	9.89	7.7"	6"	161°	162°	1999	1874	B7II	08h01m57.1s	-27°12'53"	**27**
27	219333	Pup	**I 8**	QQ Pup		6.54	9.13	2.3"	4"	303°	320°	1991	1894	A0pSi	08h02m27.1s	-44°40'01"	**27**
27	175052	Pup	**HJ 4037**		AB	7.22	8.41	7.2"	12"	243°	238°	1999	1835	G2IV	08h02m37.4s	-27°32'40"	**27**
27	175052	Pup			AC	7.22	9.22	63.8"	64"	74°	79°	1999	1874		08h02m37.4s	-27°32'40"	**27**
27	219339	Pup	**HJ 4038**			5.48	8.98	25.2"	29.1"	347°	345°	1993	1837	B9pSi	08h02m44.8s	-41°18'35"	**27**
27	198743	Pup	**HJ 4035**			5.95	8.99	35.7"	30"	135°	132°	2000	1835	K2.5III	08h03m04.2s	-32°27'49"	**27**
27	175114	Pup	**I 487**			6.6	9.98	1.9"	1.6"	25°	18°	1991	1909	K4.5III	08h04m32.6s	-25°41'59"	**27**
27	198791	Pup	**HJ 4046**		AB	6.26	8.41	21.9"	20"	88°	85°	1999	1837	G1Ib	08h05m44.9s	-33°34'10"	**27**
27	198854	Pup	**B 1583**			6.82	10.38	1.1"	1.2"	100°	91°	1991	1929	K5III	08h09m06.7s	-30°19'22"	**27**
27	219507	Pup	**Δ 63**			6.55	7.48	5.5"	6"	80°	81°	1999	1836	B7V	08h09m47.7s	-42°38'27"	**27**
27	153942	Pup	**19 Pup**	β 1064	AD	4.72	8.9	60.6"	60.6"	276°	276°	1899	1899		08h11m16.3s	-12°55'37"	**27**
27	153942	Pup		SHJ 291	AE	4.82	9.37	69.1"	70.2"	256°	256°	2002	1826	A7V	08h11m16.3s	-12°55'37"	**27**
27	219569	Pup	**HJ 4057**			4.77	9.81	26.3"	30"	299°	292°	1999	1835	A5Ib	08h11m25.9s	-42°59'14"	**27**
27	198958	Pup	**HDO 201**		AC	6.75	11	18.8"	18"	271°	280°	1999	1900		08h13m34.3s	-31°44'06"	**27**
27	198969	Pup	**OS Pup**	Δ 67		5.03	5.99	66.9"	67.5"	176°	175°	1999	1837	B1.5IV	08h13m58.3s	-36°19'20"	**27**
27	199010	Pup	**β 454**		AB	6.5	8.21	1.9"	2"	2°	19°	1997	1877		08h15m52.5s	-30°55'33"	**27**
27	199059	Pup	**HJ 4073**			7.18	7.83	1.9"	1"	175°	170°	1994	1835	A0IV	08h18m12.8s	-37°22'29"	**27**
27	175783	Pup	**S 568**			5.48	8.43	42.2"	48"	90°	86°	2001	1800	K4/5III	08h25m03.7s	-24°02'46"	**27**
27	199222	Pup	**HJ 4093**	NO Pup	A-BC	6.48	7.05	8.2"	15"	124°	122°	1999	1835	B9V A2V:	08h26m17.7s	-39°03'32"	**27**
27	199260	Pyx	**GLI 96**		Aa-B	5.71	9.7	25.1"	35"	144°	149°	1999	1851		08h27m59.4s	-35°06'49"	**27**
27	199260	Pyx	**GLI 96**		Aa-B	5.71	9.7	25.1"	35"	144°	149°	1999	1851		08h27m59.4s	-35°06'49"	**27**
27	199473	Pyx	**I 314**			6.4	7.9	0.5"	1"	223°	239°	1981	1900	F1IV	08h39m22.0s	-36°36'24"	**27**
27	219504	Vel	**γ Vel**	Δ 65	AB	1.79	4.14	41"	42.9"	219°	222°	2002	1826	WC8+O7.5e	08h09m31.9s	-47°20'12"	**27**
27	219504	Vel		Δ 65	AC	1.79	7.26	62.6"	62.4"	152°	152°	2000	1835		08h09m31.9s	-47°20'12"	**27**
27	219504	Vel		Δ 65	AD	1.79	9.4	93.9"	93.5"	142°	141°	2000	1846		08h09m31.9s	-47°20'12"	**27**
27	219504	Vel		Δ 65	BC	4.14	7.26	60.8"	61.5"	113°	112°	2000	1846		08h09m31.9s	-47°20'12"	**27**
27	219504	Vel		Δ 65	BD	4.14	9.4	94.5"	95.9"	117°	115°	2000	1851		08h09m31.9s	-47°20'12"	**27**
27	219504	Vel		Δ 65	CD	7.26	11	34.1"	33.5"	123°	123°	2000	1846		08h09m31.9s	-47°20'12"	**27**
27	219602	Vel	**SEE 96**		Aa-B	6.22	7.65	0.6"	0.3"	276°	282°	1997	1897		08h12m30.8s	-46°15'51"	**27**
27	219629	Vel	**GLI 87**			5.1	10.05	34.9"	36.4"	343°	344°	1999	1852	B2.5V	08h13m36.2s	-46°59'30"	**27**
27	219657	Vel	**HJ 4069**		AB-C	5.81	8.7	32.1"	33.2"	249°	257°	1999	1836		08h14m23.9s	-45°50'04"	**27**
27	219785	Vel	**HJ 4081**			6.45	11	42.5"		185°		1920			08h19m05.6s	-48°11'52"	**27**
27	219848	Vel	**I 67**			5.14	6.08	0.7"	1"	137°	145°	1998	1896	B2III	08h22m31.7s	-48°29'25"	**27**
27	219977	Vel	**HJ 4102**			6.56	9.35	68.1"	68"	283°	281°	1999	1900	B0Vnne	08h28m52.1s	-42°35'15"	**27**
27	219985	Vel	**HJ 4104**		Aa-B	5.51	7.17	3"	2.3"	250°	238°	1999	1835		08h29m04.7s	-47°55'44"	**27**
27	219985	Vel			Aa-C	5.51	9.23	18.9"	17.5"	40°	37°	1999	1835	B5	08h29m04.7s	-47°55'44"	**27**
27	219996	Vel	**Δ 70**			5.16	6.95	4.3"	5.6"	349°	350°	2002	1835	B2IV	08h29m27.5s	-44°43'29"	**27**
27	220025	Vel	**I 168**			6.31	10.53	3.5"	3"	74°	80°	1991	1897	B4IV	08h30m39.2s	-44°44'14"	**27**
27	220026	Vel	**I 313**		AB	6.82	9.63	3.6"	3.8"	214°	216°	1991	1901	K1III	08h30m46.4s	-41°30'54"	**27**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
27	199329	Vel	**HJ 4107**		AB	6.46	8.17	4.3"	3"	330°	325°	1999	1835	B4V	08h31m24.7s	-39°03'51"	**27**
27	199329	Vel			AC	6.46	9.14	30.1"	30"	99°	99°	1999	1835		08h31m24.7s	-39°03'51"	**27**
27	236062	Vel	**SLR 8**			6.13	7.08	0.8"	0.4"	285°	302°	1991	1892	K0III+A3	08h32m05.0s	-53°12'43"	**27**
27	220086	Vel	**HDO 202**			6.46	10.9	15"	15"	225°	225°	1900	1900	B3III	08h33m01.9s	-45°45'10"	**27**
27	199389	Vel	**I 195**			6.58	8.86	1.9"	2"	42°	40°	1991	1897	K5III	08h34m29.2s	-37°36'40"	**27**
27	236157	Vel	**HJ 4126**			5.2	8.66	16.8"	15"	31°	28°	1998	1834	B5	08h39m57.6s	-53°03'17"	**27**
27	220252	Vel	**COO 74**			5.21	9.06	4.1"	3.8"	66°	61°	1999	1894	B9V	08h40m19.1s	-40°15'50"	**27**
27	220313	Vel	**RST 5304**	HX Vel		5.5	8.28	0.5"	0.3"	307°	303°	1995	1944	B1.5Vn	08h42m16.2s	-48°05'57"	**27**
27	236205	Vel	**BSO 18**	HY Vel	AB	4.79	5.45	76.1"	76.6"	311°	310°	1998	1836	B3IV	08h42m25.4s	-53°06'50"	**27**
27	236205	Vel			BD	5.45	9.9	60.4"	61"	267°	265°	1998	1846	F5V	08h42m25.4s	-53°06'50"	**27**
27	220561	Vel	**HDO 205**			5.1	10	3.2"	3.7"	85°	81°	1959	1894	B0III	08h50m33.5s	-46°31'45"	**27**
27	236362	Vel	**CPO 9**			6.63	8.22	2.9"	3.9"	83°	78°	1991	1877	A0V	08h52m40.8s	-52°07'44"	**27**
27	236417	Vel	**R 87**			4.7	7.72	2.6"	3.5"	335°	341°	1995	1881	B5V	08h56m19.3s	-52°43'24"	**27**
27	236518	Vel	**HJ 4165**			5.55	6.6	0.7"	1.4"	136°	88°	1996	1837	B9Si	09h01m44.6s	-52°11'19"	**27**

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28	216803	Cae	**HJ 3650**			7.04	8.23	2.9"	5"	183°	184°	1993	1836	A1V	04h26m37.7s	-40°31'46"	**28**
28	217032	Cae	**HJ 3697**			6.1	10.38	13"	15"	258°	285°	1998	1835	F2/3V	04h50m16.2s	-41°19'15"	**28**
28	195532	Cae	**γ Cae**	JC 9		4.71	8.17	3.2"	2.9"	305°	312°	2001	1847	K3III	05h04m24.5s	-35°28'59"	**28**
28	195534	Cae	**HDS 658**	X Cae		6.35	9.65	0.9"	0.9"	186°	183°	1999	1991	F2IV/V	05h04m26.2s	-35°42'18"	**28**
28	151303	CMa	**β 18**			7.06	8.42	1.8"	1.5"	285°	280°	1993	1871	F2V	06h16m41.6s	-12°02'50"	**28**
28	171502	CMa	**HJ 3845**			6.06	10.44	47.6"	25"	6°	52°	1959	1836	G0V	06h17m03.7s	-22°42'57"	**28**
28	196698	CMa	**ζ CMa**	SMY 1		2.96	7.81	174.2"	167"	338°	338°	1999	1833	B2.5V	06h20m18.8s	-30°03'48"	**28**
28	151401	CMa	**Σ 3116**	FR CMa	AB	5.6	9.7	3.8"	4.5"	21°	19°	1999	1831	B1Vpe	06h21m24.7s	-11°46'24"	**28**
28	151401	CMa		FOX 146	AC	5.5	11.6	56.5"		274°		1911		B1V	06h21m24.7s	-11°46'24"	**28**
28	151453	CMa	**β 568**			6.85	8.18	0.8"	1.4"	153°	155°	2005	1878	B8IIIHewk	06h23m47.7s	-19°47'07"	**28**
28	196861	CMa	**β 753**			5.86	7.6	1.2"	1.2"	43°	40°	1999	1879	B4Vnpe	06h28m39.2s	-32°22'17"	**28**
28	196919	CMa	**HJ 3869**			5.68	7.87	24.7"	27.5"	258°	250°	1999	1836	B2IV	06h32m39.0s	-32°01'50"	**28**
28	217198	Col	**HJ 3728**			6.83	10.29	10.1"	13"	260°	259°	1999	1836	G3V	05h08m29.9s	-41°12'47"	**28**
28	195689	Col	**HJ 3740**			6.85	8.34	23.7"	30"	286°	285°	1999	1835	K1II	05h15m08.8s	-36°39'10"	**28**
28	195770	Col	**DAW 117**			6.1	10.9	2.2"	2.2"	7°	7°	1969	1922	B5IVnpe	05h21m16.9s	-34°20'42"	**28**
28	196274	Col	**I 16**			6.88	9.76	1.3"	1"	125°	110°	1991	1894	K1III	05h52m47.7s	-38°31'34"	**28**
28	196693	Col	**HJ 3849**			6.73	8.07	39.5"	45"	54°	51°	2000	1837	K2/3III	06h19m48.0s	-39°29'11"	**28**
28	196774	Col	**Δ 28**		AC	5.73	6.91	63.6"	69"	74°	64°	1999	1826		06h24m01.0s	-36°42'28"	**28**
28	196774	Col		HJ 3857	AB	5.73	9.83	13.1"	12"	255°	259°	1999	1836	G6III	06h24m01.0s	-36°42'28"	**28**
28	196805	Col	**HJ 3858**		AB	6.4	7.61	131.7"	127.2"	47°	49°	1991	1846	K3III	06h25m30.0s	-35°03'51"	**28**
28	217981	Col	**I 4**			7.28	7.5	0.8"	1"	306°	340°	1991	1894	B3IV	06h30m40.7s	-40°26'53"	**28**
28	196959	Col	**β 754**			7.22	7.74	1"	0.5"	49°	20°	1996	1879	A4V	06h34m43.4s	-34°00'34"	**28**
28	196978	Col	**β 755**		AB	5.86	6.94	1.5"	1"	260°	250°	1999	1879	A0V	06h35m24.2s	-36°46'47"	**28**
28	196978	Col		HJ 3875		6	11.5	21.4"		301°		1887		A0V	06h35m24.2s	-36°46'47"	**28**
28	197011	Col	**HDO 196**			6.04	10	25"		180°		1900		K0III	06h37m01.9s	-38°08'47"	**28**
28	197014	Col	**RST 4819**			5.91	7.51	0.5"	0.6"	4°	4°	1999	1942	B7IV	06h37m13.8s	-36°59'26"	**28**
28	233476	Dor	**FIN 87**			6.22	8.83	0.8"	0.6"	106°	154°	2001	1929	F7IV-V	04h18m40.0s	-52°51'36"	**28**
28	233512	Dor	**SLR 6**			7.11	9.05	0.9"	0.8"	105°	98°	1991	1892	F0V	04h25m29.7s	-53°06'42"	**28**
28	216209	Eri	**HJ 3556**		AB-C	6.42	8.76	3.7"	1.5"	190°	233°	2002	1835	F5V	03h12m25.8s	-44°25'11"	**28**
28	216209	Eri		JC 8	AB	6.42	7.36	0.7"	0.5"	170°	190°	2002	1895	F7III+A0V	03h12m25.8s	-44°25'11"	**28**
28	216292	Eri	**I 468**			6.8	11	1.3"	2"	325°	210°	1965	1909	K0V	03h23m35.3s	-40°04'35"	**28**
28	216459	Eri	**HJ 3589**			6.65	9.29	5"	6.5"	350°	346°	1993	1836	K1III	03h44m06.4s	-40°39'38"	**28**
28	194551	Eri	**Δ 16**			4.72	5.25	8.4"	7"	217°	202°	2002	1826	B9V A1V	03h48m35.9s	-37°37'13"	**28**
28	130746	Eri	**RST 4760**			6.74	9.32	0.9"	0.6"	288°	282°	1991	1943	G5	03h49m19.2s	-01°27'12"	**28**
28	130762	Eri	**β 401**		AB	6.54	10.51	4.2"	4.7"	254°	255°	2000	1877	F2	03h50m16.2s	-01°31'21"	**28**
28	130762	Eri			AC	6.47	11.2	40.6"		289°		1913			03h50m16.2s	-01°31'21"	**28**
28	130780	Eri	**ENG 15**			6.76	10.24	97.8"	95.2"	155°	154°	2002	1886	B9	03h52m08.7s	-01°08'56"	**28**
28	130806	Eri	**32 Eri**	Σ 470	AB	4.8	5.89	6.9"	4.3"	348°	343°	2006	1781	G8III A2V	03h54m17.5s	-02°57'17"	**28**
28	130806	Eri		Σ 470	AC	4.8	10.5	165.9"	165.5"	5°	5°	2003	1886		03h54m17.5s	-02°57'17"	**28**
28	131063	Eri	**32 Eri**	Σ 518	A-BC	4.43	9.7	83"	89.2"	104°	108°	2002	1783	G9V	03h54m17.5s	-02°57'17"	**28**
28	131063	Eri		Σ 518	B-C	9.52	11.17	8.9"	3.9"	338°	157°	1994	1851	DA	03h54m17.5s	-02°57'17"	**28**
28	194709	Eri	**β 1004**		AB	7.26	7.94	1.2"	1.8"	70°	154°	2002	1881	G1/2V	04h02m03.6s	-34°28'56"	**28**
28	194709	Eri			AC	6.73	11.8	47.9"		149°		1955			04h02m03.6s	-34°28'56"	**28**
28	131020	Eri	**HJ 2224**			6.46	8.6	56.3"	30"	312°	320°	2002	1831	G5	04h11m56.2s	-08°50'15"	**28**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
28	149478	Eri	**39 Eri**	Σ 516	AB	5.03	8.53	6.3"	8"	141°	154°	1996	1831	K2III	04h14m23.7s	-10°15'24"	**28**
28	149478	Eri		Σ 516	AC	5.1	9.7	148.9"	149.8"	159°	159°	1912	1905		04h14m23.7s	-10°15'24"	**28**
28	131063	Eri	**o 2 Eri**	Σ 518	A-BC	4.43	9.7	83"	89.2"	104°	108°	2002	1783	G9V	04h15m39s	-07 37'27"	**28**
28	131063	Eri		Σ 518	B-C	9.52	11.17	8.9"	3.9"	338°	157°	1994	1851	DA	04h15m39s	-07 37'27"	**28**
28	194923	Eri	**HJ 3642**			6.51	8.73	6"	5.8"	159°	158°	1998	1837	A3V	04h19m02.9s	-33°54'17"	**28**
28	169368	Eri	**HJ 3644**		AB-D	6.15	8.23	44.6"	40"	41°	38°	1999	1835	K0	04h21m31.3s	-25°43'43"	**28**
28	169368	Eri		β 744	AB	7.26	6.56	0.3"	0.6"	21°	290°	1999	1879	F2V	04h21m31.3s	-25°43'43"	**28**
28	194996	Eri	**I 59**		AB	6.55	10	33.2"	60"	204°	210°	1984	1896	F2III	04h24m56.4s	-34°45'28"	**28**
28	169455	Eri	**β 311**			6.67	7.09	0.5"	1"	320°	340°	2001	1874	A3V	04h26m56.9s	-24°04'53"	**28**
28	169475	Eri	**β 184**			7.4	7.7	1.7"	1.2"	249°	271°	1995	1873	F6V	04h27m55.4s	-21°30'15"	**28**
28	149702	Eri	**Σ 560**			6.26	9.33	29.6"	29.5"	45°	42°	2002	1894	A2V	04h31m25.8s	-13°38'40"	**28**
28	131279	Eri	**H 6 64**	DZ Eri		5.73	10.44	122.5"	125.8"	117°	117°	2003	1894	B9III	04h32m37.6s	-03°12'34"	**28**
28	149725	Eri	**HDS 592**			6.24	9.98	0.5"	0.5"	87°	87°	1991	1991	K0	04h33m22.1s	-10°47'07"	**28**
28	131309	Eri	**46 Eri**	β 881		5.72	9.19	1.3"	1.5"	62°	57°	1991	1879	B9pSi	04h33m54.7s	-06°44'20"	**28**
28	131335	Eri	**Σ 570**			6.71	7.64	13.3"	12.8"	261°	259°	2006	1830	A1m	04h35m14.1s	-09°44'11"	**28**
28	131344	Eri	**Σ 571**		AB	6.33	10.72	17.7"	15"	259°	261°	1999	1830	B7III	04h36m01.7s	-03°36'42"	**28**
28	149781	Eri	**53 Eri**	KUI 18		4.02	6.95	1"	1.1"	354°	1°	2001	1934	K2IIIb	04h38m10.8s	-14°18'16"	**28**
28	131443	Eri	**55 Eri**	Σ 590		6.74	6.78	9.4"	9.2"	317°	314°	2006	1783	G5III	04h43m34.8s	-08°47'40"	**28**
28	149923	Eri	**HDS 622**			6.84	10.95	1.1"	1.1"	166°	166°	1991	1991	G8III	04h50m06.8s	-15°48'16"	**28**
28	131614	Eri	**62 Eri**	SHJ 48	AB	5.46	8.93	66.2"	60.4"	75°	75°	2003	1783	B6V	04h56m24.2s	-05°10'17"	**28**
28	131777	Eri	**66 Eri**	Σ 642	AC	5.12	10.7	53.1"	47"	10°	14°	1998	1832	B9V+A1V	05h06m45.7s	-04°39'19"	**28**
28	131806	Eri	**Σ 649**		AB	5.8	8.97	21.6"	21.6"	68°	81°	2004	1831	B8V	05h08m20.2s	-08°39'55"	**28**
28	194318	For	**χ 3 For**	I 58		6.54	10.07	6.5"	5"	247°	260°	1998	1895	A1V	03h28m11.5s	-35°51'12"	**28**
28	194379	For	**B 53**			6.6	9.93	1.4"	1.5"	227°	223°	1991	1926	K3III	03h34m33.6s	-31°52'29"	**28**
28	233106	Hor	**HJ 3575**		AB	6.7	10.2	35.8"	31.6"	48°	42°	1999	1835	A0V	03h24m36.2s	-51°03'45"	**28**
28	216667	Hor	**RST 98**		AB	6.67	10	1.6"	0.8"	316°	316°	2001	1930	F3V	04h08m33.9s	-45°51'53"	**28**
28	216749	Hor	**HJ 3643**			5.45	8.64	70.4"	70"	115°	116°	1999	1836	K2III	04h19m16.7s	-44°16'05"	**28**
28	150052	Lep	**β 314**		AB	5.92	7.5	0.8"	0.5"	323°	320°	2003	1875	F3V+F9V	04h59m01.3s	-16°22'33"	**28**
28	150052	Lep			AB-C	5.92	10.36	53.3"	50"	53°	30°	1998	1875		04h59m01.3s	-16°22'33"	**28**
28	150239	Lep	**κ Lep**	Σ 661		4.43	6.77	2"	3.1"	357°	359°	2004	1832	B9V	05h13m13.9s	-12°56'29"	**28**
28	150303	Lep	**S 473**			6.96	8.46	20.7"	20.6"	306°	306°	2002	1825	B9.5V	05h17m35.5s	-15°13'10"	**28**
28	150335	Lep	**S 476**		AB	6.31	6.48	40"	39.3"	18°	18°	2006	1824	B3V Ap	05h19m17.4s	-18°31'12"	**28**
28	170327	Lep	**HJ 3750**			4.72	8.45	4.1"	3"	277°	295°	2002	1835	A0Vv	05h20m26.9s	-21°14'23"	**28**
28	170351	Lep	**HJ 3752**		AB	5.44	6.58	3.4"	4"	97°	100°	2002	1835	G0	05h21m46.2s	-24°46'23"	**28**
28	170351	Lep			AC	5.5	9.2	62.7"	30"	104°	100°	2002	1835	G0	05h21m46.2s	-24°46'23"	**28**
28	150442	Lep	**HJ 3759**			5.87	7.3	26.7"	26.8"	318°	317°	2002	1837	F5IV	05h25m59.8s	-19°41'44"	**28**
28	170457	Lep	**β Lep**	β 320	AB	3	7.5	2.2"	2.9"	339°	268°	1993	1875	G5II	05h28m14.7s	-20°45'35"	**28**
28	150652	Lep	**HJ 3780**		AE	6.42	7.9	76"	80"	8°	7°	2002	1874		05h39m16.2s	-17°50'58"	**28**
28	150652	Lep			AB-I	6.4	10.94	91.8"	90"	103°	105°	2000	1874		05h39m16.2s	-17°50'58"	**28**
28	150652	Lep			AC	6.69	8.89	89.9"	90"	138°	136°	2002	1874		05h39m16.2s	-17°50'58"	**28**
28	150652	Lep			AF	6.69	8.25	132.3"	125"	299°	300°	2002	1874		05h39m16.2s	-17°50'58"	**28**
28	170652	Lep	**LAL 194**		AB	6.87	7.94	10.9"	11.8"	124°	123°	2002	1868	B8	05h39m44.7s	-20°26'07"	**28**
28	170652	Lep		HDO 77		6.89	11.3	32.2"		83°		1870			05h39m44.7s	-20°26'07"	**28**
28	170759	Lep	**γ Lep**	H 6 40	AB	3.64	6.28	97.1"	95.8"	350°	348°	2002	1800	F6V K2V	05h44m27.6s	-22°26'57"	**28**
28	170759	Lep		H 5 50	BC	6.15	11	112.5"	40"	8°	300°	1999	1781		05h44m27.6s	-22°26'57"	**28**
28	170770	Lep	**HO 336**			6.79	11.7	19.4"		238°		1860			05h44m50.7s	-21°39'33"	**28**
28	150845	Lep	**β 94**			5.68	8.2	2.3"	2.5"	165°	190°	2001	1873	G8III	05h49m36.5s	-14°29'02"	**28**
28	151154	Lep	**β 17**		AB	6.92	9.34	3.7"	3.4"	189°	179°	2002	1871	A5IV	06h08m25.4s	-11°08'47"	**28**
28	151154	Lep			AC	6.92	10.81	10"	10"	257°	244°	2002	1871		06h08m25.4s	-11°08'47"	**28**
28	151173	Lep	**B 2598**			6.35	11.2	23"		358°		1958			06h09m20.2s	-18°07'35"	**28**
28	132703	Mon	**A 322**		AC	7.07	9.41	195.5"	176.8"	304°	296°	2002	1892		05h58m21.6s	-04°39'04"	**28**
28	151037	Mon	**3 Mon**	β 16		4.99	7.96	1.9"	1.8"	355°	356°	1996	1871	B5III	06h01m50.4s	-10°35'53"	**28**
28	132793	Mon	**HDS 826**			5.24	9.45	0.6"	0.6"	271°	274°	1999	1991	B2Vne+	06h04m13.5s	-06°42'32"	**28**
28	132941	Mon	**AC 3**			6.34	8.15	0.7"	1.1"	203°	174°	1995	1854	B9pHgMn	06h11m43.7s	-04°39'56"	**28**
28	133027	Mon	**β 567**			6	10	3.9"	3.8"	241°	250°	1998	1878	A5IVs	06h15m29.7s	-04°54'53"	**28**
28	133078	Mon	**A 323**			6.87	9.58	1.2"	1"	219°	217°	1991	1902	A2V	06h18m17.4s	-05°39'16"	**28**
28	131640	Ori	**HJ 689**			6.35	10.9	21"	20.7"	278°	276°	1998	1880	A2V	04h58m10.9s	-02°12'46"	**28**
28	131645	Ori	**HDS 644**			7.12	10.4	0.8"	0.6"	323°	103°	2001	1991	F5	04h58m26.2s	-03°43'58"	**28**
28	112305	Ori	**Σ 627**			6.59	6.95	21.8"	21.3"	260°	260°	2006	1831	B9Vn B9Vn	05h00m33.9s	+03°36'56"	**28**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
28	112340	Ori	**Σ 630**		A-BC	6.5	7.71	14.8"	13.7"	50°	53°	2006	1783	B8V	05h02m00.0s	+01°36'32"	**28**
28	112340	Ori		A 2630	AD	6.49	10.39	131.3"	131.2"	101°	99°	2002	1909		05h02m00.0s	+01°36'32"	**28**
28	131731	Ori	**J 307**		AB	6.85	9.28	53.3"	52.2"	320°	322°	2002	1891	G9III	05h03m42.9s	-02°32'24"	**28**
28	112509	Ori	**Σ 652**			6.26	7.44	1.6"	1.7"	180°	184°	2003	1830	A+G2:III	05h11m45.4s	+01°02'13"	**28**
28	112528	Ori	**ρ Ori**	Σ 654	AB	4.62	8.5	6.9"	7.1"	64°	62°	2004	1825	K2II	05h13m17.5s	+02°51'41"	**28**
28	112535	Ori	**OΣ 517**		AB	6.79	6.99	0.7"	0.7"	241°	277°	2004	1854	A5V	05h13m31.6s	+01°58'04"	**28**
28	131907	Ori	**β Ori**	Σ 668	A-BC	0.3	6.8	9.4"	8.9"	204°	201°	2005	1822	B8Iae:	05h14m32.3s	-08°12'06"	**28**
28	131910	Ori	**Σ 667**			7.15	8.78	4.2"	4.2"	316°	313°	2004	1830	K2	05h14m41.3s	-07°04'18"	**28**
28	132004	Ori	**β 189**		AB	6.4	9.8	4.6"	4.3"	285°	284°	2002	1875	B8III	05h20m26.4s	-05°22'03"	**28**
28	112697	Ori	**23 Ori**	Σ 696		4.95	6.76	32.1"	32.8"	28°	31°	2005	1782	B1V	05h22m50.0s	+03°32'40"	**28**
28	132053	Ori	**Σ 701**			6.13	8.09	6"	5.9"	139°	146°	2003	1830	B8III	05h23m18.5s	-08°24'56"	**28**
28	132060	Ori	**WNC 2**		A-BC	6.87	6.96	3"	1.6"	159°	174°	2003	1863	F6V	05h23m51.3s	-00°52'00"	**28**
28	132071	Ori	**η Ori**	DA 5	Aa-B	3.56	4.87	1.7"	0.9"	78°	87°	2003	1848	B1V+B2e	05h24m28.6s	-02°23'49"	**28**
28	132071	Ori		H 6 67	Aa-C	3.4	9.4	115.1"	111"	51°	55°	1998	1783	B1V+B2e	05h24m28.6s	-02°23'49"	**28**
28	112734	Ori	**25 Ori**	S 479		4.89	8.1	158.4"		215°		1825			05h24m44.8s	+01°50'47"	**28**
28	112775	Ori	**ψ Ori**	KNT 3	AB	4.57	8.62	2.9"	2.8"	327°	322°	1991	1863	B2IV	05h26m50.2s	+03°05'44"	**28**
28	132154	Ori	**HJ 2268**			6.84	10.24	25.6"	18"	300°	298°	2002	1831	G5	05h28m42.5s	-08°22'36"	**28**
28	132172	Ori	**H 5 101**			6.71	10.6	49.3"	49"	116°	117°	1998	1893	B5V	05h29m25.4s	-07°15'39"	**28**
28	112861	Ori	**33 Ori**	Σ 729	AB	5.71	6.74	1.8"	0.7"	28°	29°	2006	1781	B1.5V	05h31m14.5s	+03°17'32"	**28**
28	132220	Ori	**δ Ori**	Σ 14	Aa-C	2.41	6.83	53.3"	50"	1°	0°	2004	1777	B4	05h32m00.4s	-00°17'57"	**28**
28	132234	Ori	**β 1048**			5.3	9.8	2"	1.5"	355°	357°	1953	1872	B1IV	05h32m41.4s	-01°35'31"	**28**
28	132247	Ori	**Σ 734**		AB	6.67	8.22	1.5"	1.8"	356°	356°	2003	1832	B4Vn	05h33m07.3s	-01°43'02"	**28**
28	132247	Ori			AC	6.67	8.35	29.6"	30.2"	244°	248°	2004	1783		05h33m07.3s	-01°43'02"	**28**
28	132269	Ori	**H 118**			6.22	11.2	28"	27.5"	264°		1977	1901	B2.5V	05h34m03.9s	-01°02'09"	**28**
28	132290	Ori	**HDS 740**			6.9	10.47	0.5"	0.5"	270°	270°	1991	1991	K0	05h34m48.0s	-07°12'01"	**28**
28	132301	Ori	**Σ 747**		AB	4.7	5.51	36.2"	35.8"	224°	223°	2005	1825	B0.5V B1V	05h35m02.7s	-06°00'07"	**28**
28	132314	Ori	**θ 1 Ori**	Σ 748	Ca,D	5.06	6.38	13.2"	13.7"	62°	61°	2005	1820		05h35m16.5s	-05°23'23"	**28**
28	132314	Ori		Σ 748	Aa,B	6.55	7.49	8.9"	8.5"	32°	31°	2005	1831	O7 B1V	05h35m16.5s	-05°23'23"	**28**
28	132314	Ori		Σ 748	Aa,C	6.55	5.06	12.8"	12.6"	133°	134°	2005	1820		05h35m16.5s	-05°23'23"	**28**
28	132314	Ori		Σ 748	Aa,D	6.55	6.38	21.7"	21.2"	96°	96°	2005	1820	O7 B0.5V	05h35m16.5s	-05°23'23"	**28**
28	132314	Ori		Σ 748	Ba,C	7.49	4.96	16.7"	17.1"	163°	165°	2002	1820	B2	05h35m16.5s	-05°23'23"	**28**
28	132314	Ori		Σ 748	Ba,D	7.49	7.2	19.1"	19.1"	120°	121°	2002	1820		05h35m16.5s	-05°23'23"	**28**
28	132320	Ori	**42 Ori**	DA 4		4.61	7.5	1.1"	2"	205°	220°	1995	1848	B1V	05h35m23.2s	-04°50'18"	**28**
28	132323	Ori	**ι Ori**	Σ 752	AB	2.9	7	11.3"	12.5"	141°	134°	2002	1779	O9III	05h35m26.0s	-05°54'36"	**28**
28	132323	Ori		Σ 752	AC	2.9	9.7	49.4"	48.3"	103°	101°	2002	1779		05h35m26.0s	-05°54'36"	**28**
28	132323	Ori		Σ 752	BC	7	9.7	41.1"	40.6"	94°	93°	2002	1832		05h35m26.0s	-05°54'36"	**28**
28	132325	Ori	**Σ 750**			6.43	8.39	4.2"	4.3"	61°	59°	2003	1831	B2.5IV	05h35m31.1s	-04°21'51"	**28**
28	132332	Ori	**RST 4281**			6.39	10.52	1"	1.1"	352°	352°	1991	1940	B3IV	05h35m35.9s	-03°15'10"	**28**
28	132359	Ori	**Σ 754**			5.71	9.24	5.3"	5.2"	288°	288°	2002	1830	B1V	05h36m35.7s	-06°03'53"	**28**
28	132406	Ori	**σ Ori**	Σ 762	AB,D	3.76	6.56	12.7"	13.4"	84°	85°	2002	1779		05h38m44.8s	-02°36'00"	**28**
28	132406	Ori		Σ 762	AB,C	3.73	8.79	11.5"	11.6"	238°	235°	2002	1831		05h38m44.8s	-02°36'00"	**28**
28	132406	Ori		Σ 762	AB,E	3.76	6.34	41.5"	37"	62°	55°	2003	1777	B2V	05h38m44.8s	-02°36'00"	**28**
28	132406	Ori		Σ 762	EC	6.66	8.8	53.2"	52.3"	241°	240°	2002	1831		05h38m44.8s	-02°36'00"	**28**
28	132406	Ori		Σ 762	ED	6.66	7.9	29.5"	31.4"	232°	231°	2002	1779	B2Vp	05h38m44.8s	-02°36'00"	**28**
28	132444	Ori	**ζ Ori**	Σ 774	Aa,B	1.88	3.7	2.6"	2.3"	166°	152°	2002	1822	O9.5Ibe	05h40m45.5s	-01°56'33"	**28**
28	132444	Ori		Σ 774	Aa,C	1.88	9.55	57.3"	60"	10°	7°	2003	1781		05h40m45.5s	-01°56'33"	**28**
28	132444	Ori		Σ 774	BC	4.2	8.5	59.8"	59.8"	8°	8°	2002	1909	B0	05h40m45.5s	-01°56'33"	**28**
28	132477	Ori	**A 494**		AB- C	6.01	10.36	101.7"	98.5"	231°	233°	2003	1893		05h42m53.9s	-06°47'46"	**28**
28	113099	Ori	**Σ 789**		AB	6.13	10.17	14.3"	18"	149°	155°	1999	1831	gF0n	05h45m01.8s	+04°00'29"	**28**
28	132515	Ori	**Σ 790**			6.43	8.98	7.1"	7.7"	89°	87°	2003	1825		05h46m02.9s	-04°16'07"	**28**
28	113296	Ori	**β 1190**		AB	6.95	9.81	1.4"	1.4"	331°	340°	1991	1890	A0V	05h57m25.3s	+00°01'39"	**28**
28	113315	Ori	**59 Ori**	H 5 100	AB	5.91	10.44	36.5"	37.3"	206°	205°	1999	1782	A5m	05h58m24.4s	+01°50'14"	**28**
28	113507	Ori	**Σ 855**		AB	5.68	6.68	29.1"	29.2"	114°	113°	2005	1824	A3Vn A0V	06h08m57.9s	+02°29'59"	**28**
28	113507	Ori			AC	5.68	9.68	118.5"	119"	107°	106°	2002	1910		06h08m57.9s	+02°29'59"	**28**
28	113507	Ori			BC	6.68	9.68	89.7"	89.8"	105°	104°	2002	1910		06h08m57.9s	+02°29'59"	**28**
28	216939	Pic	**HJ 3681**			6.76	10.6	49.6"	35"	246°	263°	1999	1834	G8III+	04h41m46.2s	-47°15'34"	**28**
28	233709	Pic	**ι Pic**	Δ 18		5.61	6.24	12.6"	12.6"	59°	60°	2002	1826	F0IV F4V:	04h50m55.3s	-53°27'41"	**28**
28	233965	Pic	**θ Pic**	Δ 20	AB-C	6.24	6.74	38.1"	38.5"	289°	284°	2002	1826	A0V A2V	05h24m46.3s	-52°18'59"	**28**
28	233965	Pic		I 345		6.9	7.2	0.1"	0.5"	49°	197°	1990	1901	A0V	05h24m46.3s	-52°18'59"	**28**
28	217368	Pic	**HJ 3767**			5.46	11.08	25.9"		257°	223°	1933	1835	G3IV	05h30m09.5s	-47°04'41"	**28**
28	217368	Pic		Δ 21	AD	5.52	6.68	197.8"	197.2"	271°	264°	2000	1837	G3IV	05h30m09.5s	-47°04'41"	**28**
28	234026	Pic	**HJ 3777**		AB	6.48	10.4	58.6"	51.8"	342°	349°	1999	1834	F8V	05h33m44.4s	-54°54'08"	**28**
28	217598	Pic	**HJ 3816**			6.75	11.6	22.9"		180°		1913			05h53m09.6s	-47°57'19"	**28**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
28	234224	Pic	**HJ 3822**		AB	6.63	7.58	55.6"	65"	303°	304°	2000	1836	K5-M0III	05h57m14.4s	-53°25'32"	**28**
28	217706	Pup	**HJ 3834**		AB	6.02	8.98	5.7"	1.1"	216°	246°	1999	1837	F5V	06h04m40.1s	-45°04'42"	**28**
28	217706	Pup			AC	6.02	6.39	196.2"	173.8"	321°	320°	1999	1854	G01V-V	06h04m40.1s	-45°04'42"	**28**
28	217893	Pup	**HJ 3856**			6.7	9.7	34"	30"	4°	5°	1999	1835	K1III	06h22m55.2s	-45°37'44"	**28**
28	217922	Pup	**I 156**			5.87	8.07	1"	1.6"	125°	131°	1999	1894	B9V	06h25m43.7s	-48°10'37"	**28**
28	234539	Pup	**Δ 30**		AB-CD	5.97	7.98	11.9"	14"	312°	310°	1999	1826		06h29m49.0s	-50°14'21"	**28**
28	234539	Pup		R 65	AB	5.97	6.15	0.7"	0.7"	266°	88°	2001	1879	F2V	06h29m49.0s	-50°14'21"	**28**
28	218093	Pup	**Δ 31**			5.14	7.38	12.9"	12.3"	320°	319°	1999	1826	G8III	06h38m37.6s	-48°13'13"	**28**
28	218126	Pup	**HJ 5443**			6.12	9.38	15.5"	17.3"	108°	105°	1999	1835	B4V	06h41m14.2s	-40°20'59"	**28**
28	197108	Pup	**Δ 32**			6.59	7.73	7.9"	6.2"	277°	349°	1999	1826	A5:m	06h42m16.4s	-38°23'56"	**28**
28	218186	Pup	**HJ 3895**			7.11	10.89	25.7"	30"	66°	63°	1999	1835	K3III	06h46m44.6s	-47°48'16"	**28**
28	218197	Pup	**I 158**			6.96	10.38	1.8"	1"	187°	185°	1991	1897	G8:III+	06h47m22.8s	-48°33'49"	**28**
28	218236	Pup	**I 159**			6.5	11	6.6"	4"	323°	315°	1966	1897	K5-M0III	06h49m57.7s	-45°27'02"	**28**
28	111659	Tau	**Σ 510**			6.67	10.05	10.7"	10.8"	303°	301°	2006	1831	G8III	04h12m09.3s	+00°44'08"	**28**

CHART 29

29	216803	Cae	**HJ 3650**			7.04	8.23	2.9"	5"	183°	184°	1993	1836	A1V	04h26m37.7s	-40°31'46"	**29**
29	147962	Cet	**Σ 147**			6.14	7.17	0.5"	3.5"	93°	86°	2002	1822	F5V+F7V	01h41m44.9s	-11°19'32"	**29**
29	129482	Cet	**β 6**		AB	6.65	8.91	2.3"	3"	163°	190°	2006	1871	G5III	01h44m43.7s	-06°45'58"	**29**
29	148036	Cet	**χ Cet**	ENG 8		4.69	6.81	184.7"	183.9"	251°	250°	2001	1888	F3III	01h49m35.0s	-10°41'12"	**29**
29	110235	Cet	**Σ 186**			6.79	6.84	0.9"	1.4"	245°	240°	2006	1825	F9V	01h55m53.9s	+01°51'01"	**29**
29	129588	Cet	**β 7**		AC	6.58	8.84	151.1"	148.9"	200°	197°	2002	1891	A0	01h57m59.4s	-02°03'34"	**29**
29	129588	Cet			AB	6.58	10.36	3.1"	3.5"	16°	15°	1991	1871	A0	01h57m59.4s	-02°03'34"	**29**
29	129624	Cet	**HJ 3476**	AR Cet	AB	5.5	9.8	62.6"	62"	200°	192°	1998	1891	M3III	02h00m26.9s	-08°31'26"	**29**
29	129667	Cet	**61 Cet**	H 5 102	AB	5.96	10.77	43"	37.9"	194°	194°	1998	1782	G5II-III	02h03m48.2s	-00°20'25"	**29**
29	129752	Cet	**66 Cet**	Σ 231	AB	5.72	7.71	17.2"	16.9"	236°	235°	2006	1783	F8V G1V	02h12m47.7s	-02°23'38"	**29**
29	129825	Cet	**o Cet**	H 6 1	Aa-C	6.65	9.59	122"	114.6"	69°	92°	2003	1782		02h19m20.8s	-02°58'41"	**29**
29	148386	Cet	**H 3 80**	AB Cet	AB	5.88	9.1	11.9"	12.2"	296°	294°	2003	1783	A6VpSrCr	02h26m00.3s	-15°20'29"	**29**
29	148386	Cet		AB Cet	AC	5.88	10.54	109.6"	104.5"	31°	29°	2003	1902		02h26m00.3s	-15°20'29"	**29**
29	110542	Cet	**KUI 8**			7.09	7.63	0.5"	0.3"	38°	20°	2004	1937	K0III	02h27m59.9s	+01°57'39"	**29**
29	130004	Cet	**80 Cet**	BUP 33	AC	5.72	9.76	141.2"	146.9"	188°	189°	2002	1891		02h36m00.0s	-07°49'54"	**29**
29	148499	Cet	**HDS 339**			7.13	10.57	0.8"	0.8"	44°	44°	1991	1991	K0III	02h36m33.9s	-14°39'24"	**29**
29	110655	Cet	**KUI 9**			6.35	10.38	0.9"	0.9"	323°	308°	1991	1937	G9III	02h38m36.8s	+03°26'36"	**29**
29	130055	Cet	**84 Cet**	Σ 295		5.82	9.68	3.6"	4.6"	308°	335°	1993	1829	F6V	02h41m14.1s	-00°41'45"	**29**
29	110688	Cet	**A 2337**					"							02h41m21.6s	+04°25'40"	**29**
29	110707	Cet	**γ Cet**	Σ 299	AB	3.55	6.18	2.3"	2.8"	298°	283°	2006	1825	A1V	02h43m18.0s	+03°14'08"	**29**
29	130408	Cet	**95 Cet**	AC 2	AB	5.6	7.97	1.2"	0.7"	258°	73°	2004	1854	G9IV	03h18m22.6s	-00°55'49"	**29**
29	233476	Dor	**FIN 87**			6.22	8.83	0.8"	0.6"	106°	154°	2001	1929	F7IV-V	04h18m40.0s	-52°51'36"	**29**
29	233512	Dor	**SLR 6**			7.11	9.05	0.9"	0.8"	105°	98°	1991	1892	F0V	04h25m29.7s	-53°06'42"	**29**
29	216019	Eri	**HJ 3527**			6.97	7.2	2.1"	1.5"	43°	43°	1993	1836	B9.5V	02h43m20.2s	-40°31'40"	**29**
29	216113	Eri	**θ Eri**	PZ 2		3.2	4.12	8.4"	8.7"	90°	82°	2002	1835	A4III A1V	02h58m15.7s	-40°18'17"	**29**
29	130254	Eri	**ρ 2 Eri**	β 11		5.4	8.9	1.5"	3"	66°	85°	1990	1871	K0II-III	03h02m42.3s	-07°41'08"	**29**
29	216209	Eri	**HJ 3556**		AB-C	6.42	8.76	3.7"	1.5"	190°	233°	2002	1835	F5V	03h12m25.8s	-44°25'11"	**29**
29	216209	Eri		JC 8	AB	6.42	7.36	0.7"	0.5"	170°	190°	2002	1895	F7III+A0V	03h12m25.8s	-44°25'11"	**29**
29	130388	Eri	**β 84**			6.38	7.93	1"	0.5"	9°	20°	1995	1872	B9V	03h16m00.9s	-05°55'07"	**29**
29	148897	Eri	**HJ 3565**			5.88	8.17	8.2"	5.8"	121°	110°	2006	1835	F0IV	03h18m41.2s	-18°33'36"	**29**
29	216292	Eri	**I 468**			6.8	11	1.3"	2"	325°	210°	1965	1909	K0V	03h23m35.3s	-40°04'35"	**29**
29	148943	Eri	**β 12**			7.02	9.13	2.4"	2.5"	281°	270°	2001	1872	A2V	03h24m24.6s	-13°59'35"	**29**
29	216459	Eri	**HJ 3589**			6.65	9.29	5"	6.5"	350°	346°	1993	1836	K1III	03h44m06.4s	-40°39'38"	**29**
29	194551	Eri	**Δ 16**			4.72	5.25	8.4"	7"	217°	202°	2002	1826	B9V A1V	03h48m35.9s	-37°37'13"	**29**
29	130746	Eri	**RST 4760**			6.74	9.32	0.9"	0.6"	288°	282°	1991	1943	G5	03h49m19.2s	-01°27'12"	**29**
29	130762	Eri	**β 401**		AB	6.54	10.51	4.2"	4.7"	254°	255°	2000	1877	F2	03h50m16.2s	-01°31'21"	**29**
29	130762	Eri			AC	6.47	11.2	40.6"		289°		1913			03h50m16.2s	-01°31'21"	**29**
29	130780	Eri	**ENG 15**			6.76	10.24	97.8"	95.2"	155°	154°	2002	1886	B9	03h52m08.7s	-01°08'56"	**29**
29	130806	Eri	**32 Eri**	Σ 470	AB	4.8	5.89	6.9"	4.3"	348°	343°	2006	1781	G8III A2V	03h54m17.5s	-02°57'17"	**29**
29	130806	Eri		Σ 470	AC	4.8	10.5	165.9"	165.5"	5°	5°	2003	1886		03h54m17.5s	-02°57'17"	**29**
29	194709	Eri	**β 1004**		AB	7.26	7.94	1.2"	1.8"	70°	154°	2002	1881	G1/2V	04h02m03.6s	-34°28'56"	**29**
29	194709	Eri			AC	6.73	11.8	47.9"		149°		1955			04h02m03.6s	-34°28'56"	**29**
29	131020	Eri	**HJ 2224**			6.46	8.6	56.3"	30"	312°	320°	2002	1831	G5	04h11m56.2s	-08°50'15"	**29**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
29	149478	Eri	**39 Eri**	Σ 516	AB	5.03	8.53	6.3"	8"	141°	154°	1996	1831	K2III	04h14m23.7s	-10°15'24"	**29**
29	149478	Eri		Σ 516	AC	5.1	9.7	148.9"	149.8"	159°	159°	1912	1905		04h14m23.7s	-10°15'24"	**29**
29	131063	Eri	**o 2 Eri**	Σ 518	A-BC	4.43	9.7	83"	89.2"	104°	108°	2002	1783	G9V	04h15m39s	-07 37'27"	**29**
29	131063	Eri		Σ 518	B-C	9.52	11.17	8.9"	3.9"	338°	157°	1994	1851	DA	04h15m39s	-07 37'27"	**29**
29	194923	Eri	**HJ 3642**			6.51	8.73	6"	5.8"	159°	158°	1998	1837	A3V	04h19m02.9s	-33°54'17"	**29**
29	169368	Eri	**HJ 3644**		AB-D	6.15	8.23	44.6"	40"	41°	38°	1999	1835	K0	04h21m31.3s	-25°43'43"	**29**
29	169368	Eri		β 744	AB	7.26	6.56	0.3"	0.6"	21°	290°	1999	1879	F2V	04h21m31.3s	-25°43'43"	**29**
29	194996	Eri	**I 59**		AB	6.55	10	33.2"	60"	204°	210°	1984	1896	F2III	04h24m56.4s	-34°45'28"	**29**
29	169455	Eri	**β 311**			6.67	7.09	0.5"	1"	320°	340°	2001	1874	A3V	04h26m56.9s	-24°04'53"	**29**
29	167837	For	**HDS 325**	TY For		6.67	8.9	0.6"	0.5"	70°	78°	1999	1991		02h30m13.8s	-25°11'11"	**29**
29	167882	For	**ω For**	HJ 3506		4.95	7.71	10.6"	5"	245°	241°	2002	1835	B9.5IV	02h33m50.7s	-28°13'56"	**29**
29	168012	For	**BSO 1**		Aa-B	7.04	8.5	12.5"	15"	192°	184°	1998	1835		02h44m14.7s	-25°29'43"	**29**
29	193926	For	**HJ 3532**			7.01	8.11	5.3"	8"	145°	151°	2000	1837	F3/5IV:	02h48m38.1s	-37°24'03"	**29**
29	168081	For	**γ 1 For**	HJ 2161	AC	6.14	10.7	37.8"	45"	133°	169°	1998	1830		02h49m50.9s	-24°33'38"	**29**
29	193940	For	**η 2 For**	HJ 3536		6.02	9.97	4.9"	4"	18°	4°	1991	1835	K0III	02h50m14.8s	-35°50'37"	**29**
29	168373	For	**α For**	HJ 3555		3.98	7.19	4.8"	3"	299°	306°	2002	1835	F8V	03h12m04.7s	-28°59'11"	**29**
29	194318	For	**χ 3 For**	I 58		6.54	10.07	6.5"	5"	247°	260°	1998	1895	A1V	03h28m11.5s	-35°51'12"	**29**
29	194379	For	**B 53**			6.6	9.93	1.4"	1.5"	227°	223°	1991	1926	K3III	03h34m33.6s	-31°52'29"	**29**
29	233106	Hor	**HJ 3575**		AB	6.7	10.2	35.8"	31.6"	48°	42°	1999	1835	A0V	03h24m36.2s	-51°03'45"	**29**
29	216667	Hor	**RST 98**		AB	6.67	10	1.6"	0.8"	316°	316°	2001	1930	F3V	04h08m33.9s	-45°51'53"	**29**
29	216749	Hor	**HJ 3643**			5.45	8.64	70.4"	70"	115°	116°	1999	1836	K2III	04h19m16.7s	-44°16'05"	**29**
29	215365	Phe	**β Phe**	SLR 1	AB	4.1	4.19	0.3"	0.9"	258°	26°	1999	1891	G8IIIv	01h06m05.0s	-46°43'06"	**29**
29	215567	Phe	**I 51**			7.14	9.35	1.6"	1.4"	8°	15°	1991	1896	G8IV	01h34m20.7s	-45°41'28"	**29**
29	216939	Pic	**HJ 3681**			6.76	10.6	49.6"	35"	246°	263°	1999	1834	G8III+	04h41m46.2s	-47°15'34"	**29**
29	193201	Scl	**τ Scl**	HJ 3447		5.97	7.35	0.8"	3"	171°	254°	2001	1835	F2V	01h36m08.6s	-29°54'26"	**29**
29	167275	Scl	**ε Scl**	HJ 3461	AB	5.38	8.5	4.9"	3"	24°	73°	2002	1835	F2V	01h45m38.8s	-25°03'10"	**29**
29	111161	Tau	**β 1178**			6.53	10.06	1"	1"	353°	348°	1991	1890	G3II	03h23m39.0s	+04°52'56"	**29**
29	111291	Tau	**Σ 422**			6	8.9	6.8"	5.4"	272°	226°	2006	1822	G8V	03h36m47.3s	+00°35'15"	**29**
29	111340	Tau	**Σ 430**		AB	6.77	9.63	26.8"	20"	56°	53°	2006	1831	K2III	03h40m28.0s	+05°07'33"	**29**
29	111340	Tau			AC	6.7	10.5	35.8"	40"	298°	304°	2006	1831		03h40m28.0s	+05°07'33"	**29**
29	111659	Tau	**Σ 510**			6.67	10.05	10.7"	10.8"	303°	301°	2006	1831	G8III	04h12m09.3s	+00°44'08"	**29**

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30	191988	Aqr	**101 Aqr**	B 1900		4.76	7.68	0.7"	0.6"	124°	122°	2001	1929	A0V	23h33m16.6s	-20°54'52"	**30**
30	165804	Aqr	**HJ 316**		AB	5.65	9.6	30.1"	30"	98°	91°	2003	1831	G9III	23h37m39.6s	-13°03'37"	**30**
30	165828	Aqr	**HDS 3365**			6.03	10.04	0.9"	0.9"	178°	183°	1999	1991	K0III	23h41m08.9s	-11°40'50"	**30**
30	165836	Aqr	**104 Aqr**	HJ 5413	AB	4.91	8.56	119.5"	123.2"	5°	6°	2001	1892	G0Ib-II	23h41m45.8s	-17°49'00"	**30**
30	165867	Aqr	**107 Aqr**	H 2 24		5.65	6.46	7"	3.3"	135°	154°	2006	1800	A9IV F2V	23h46m01.0s	-18°40'42"	**30**
30	166174	Cet	**β 393**			6.9	8.42	0.7"	0.5"	29°	30°	1991	1875	B9.5IV	00h18m16.9s	-21°08'18"	**30**
30	147317	Cet	**HJ 1981**		A-BC	6.91	8.43	78"	60"	88°	85°	2001	1830	A5IV-V	00h30m59.9s	-10°05'05"	**30**
30	128868	Cet	**HDO 31**			6.64	10.8	30.5"		307°		1901			00h38m04.5s	-00°30'13"	**30**
30	147395	Cet	**β 109**		AB	6.6	9.1	97.5"	103.1"	356°	355°	2003	1898	G8III	00h40m28.6s	-16°31'00"	**30**
30	128891	Cet	**HJ 323**			6.01	8.46	63.2"	57.9"	287°	290°	2003	1837	K0III	00h40m42.4s	-04°21'07"	**30**
30	147415	Cet	**HJ 1995**			6.6	9.6	28.4"	30"	129°	145°	2003	1830	F8	00h42m50.7s	-09°55'18"	**30**
30	147436	Cet	**MLF 1**			6.54	10.41	2.9"	2.5"	196°	193°	2001	1887	F2V	00h45m41.7s	-16°25'27"	**30**
30	166647	Cet	**β 734**			5.62	9.64	10.8"	10.7"	347°	349°	1998	1879	K1III	00h52m40.6s	-24°00'21"	**30**
30	166651	Cet	**WNO 1**			6.6	9.2	5.5"	5.6"	8°	12°	2006	1876	F6IV-V	00h53m12.5s	-24°46'36"	**30**
30	109643	Cet	**26 Cet**	Σ 84	AB	6.11	9.52	16.7"	17.1"	256°	255°	2006	1782	F1V	01h03m49.1s	+01°22'00"	**30**
30	129193	Cet	**37 Cet**	Σ 3		5.19	7.85	48.4"	45.2"	331°	333°	2003	1783	F6V G9V	01h14m24.1s	-07°55'20"	**30**
30	129235	Cet	**42 Cet**	Σ 113	A-BC	6.45	6.99	1.6"	1.3"	18°	331°	2006	1829	A2V+G4III	01h19m48.3s	-00°30'33"	**30**
30	147741	Cet	**HJ 2036**			7.4	7.61	2.2"	2"	340°	53°	2006	1830	G0IV	01h19m57.8s	-15°48'52"	**30**
30	147767	Cet	**HJ 2043**			6.54	8.65	5.2"	6"	73°	78°	2003	1830	F6IV	01h22m30.5s	-19°04'53"	**30**
30	167011	Cet	**SE 1**			6.83	9.06	3.1"	2.9"	89°	84°	2001	1855	A8III	01h23m34.9s	-24°21'10"	**30**
30	129275	Cet	**44 Cet**	HJ 1079		6.5	11.2	84.6"	76.4"	298°	300°	1924	1877	FOV	01h24m02.6s	-08°00'27"	**30**
30	129283	Cet	**Σ 120**			6.83	10	7.4"	7.1"	278°	281°	2002	1831	A0	01h25m00.6s	-05°56'47"	**30**
30	167055	Cet	**RST 2261**			6.62	10.71	0.7"	0.6"	342°	321°	1991	1935	K0/1III	01h27m23.3s	-22°20'18"	**30**
30	147819	Cet	**β 399**			6.37	8.83	1.5"	1.6"	303°	302°	1991	1876	K4III-IV	01h27m46.6s	-10°54'06"	**30**
30	147962	Cet	**Σ 147**			6.14	7.17	0.5"	3.5"	93°	86°	2002	1822	F5V+F7V	01h41m44.9s	-11°19'32"	**30**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
30	129482	Cet	**β 6**		AB	6.65	8.91	2.3"	3"	163°	190°	2006	1871	G5III	01h44m43.7s	-06°45'58"	**30**
30	148036	Cet	**χ Cet**	ENG 8		4.69	6.81	184.7"	183.9"	251°	250°	2001	1888	F3III	01h49m35.0s	-10°41'12"	**30**
30	110235	Cet	**Σ 186**			6.79	6.84	0.9"	1.4"	245°	240°	2006	1825	F9V	01h55m53.9s	+01°51'01"	**30**
30	129588	Cet	**β 7**		AC	6.58	8.84	151.1"	148.9"	200°	197°	2002	1891	A0	01h57m59.4s	-02°03'34"	**30**
30	129588	Cet			AB	6.58	10.36	3.1"	3.5"	16°	15°	1991	1871	A0	01h57m59.4s	-02°03'34"	**30**
30	129624	Cet	**HJ 3476**	AR Cet	AB	5.5	9.8	62.6"	62"	200°	192°	1998	1891	M3III	02h00m26.9s	-08°31'26"	**30**
30	129667	Cet	**61 Cet**	H 5 102	AB	5.96	10.77	43"	37.9"	194°	194°	1998	1782	G5II-III	02h03m48.2s	-00°20'25"	**30**
30	129752	Cet	**66 Cet**	Σ 231	AB	5.72	7.71	17.2"	16.9"	236°	235°	2006	1783	F8V G1V	02h12m47.7s	-02°23'38"	**30**
30	129825	Cet	**o Cet**	H 6 1	Aa-C	6.65	9.59	122"	114.6"	69°	92°	2003	1782		02h19m20.8s	-02°58'41"	**30**
30	232490	Eri	**Δ 5**			5.78	5.9	11.4"	2.5"	190°	343°	2002	1825	K0V K5V	01h39m47.7s	-56°11'47"	**30**
30	216019	Eri	**HJ 3527**			6.97	7.2	2.1"	1.5"	43°	43°	1993	1836	B9.5V	02h43m20.2s	-40°31'40"	**30**
30	248097	Phe	**HJ 5437**			6.55	9.85	1.6"	2.5"	331°	296°	2001	1836	G0/2IV	00h00m34.4s	-53°05'52"	**30**
30	215208	Phe	**HJ 3390**			7.09	10.25	14.3"	15"	313°	314°	2000	1834	K0III	00h43m17.5s	-45°10'53"	**30**
30	215270	Phe	**I 47**			7.45	7.95	0.8"	1"	23°	0°	2001	1895	F2V+F5V	00h51m52.2s	-43°42'32"	**30**
30	215365	Phe	**β Phe**	SLR 1	AB	4.1	4.19	0.3"	0.9"	258°	26°	1999	1891	G8IIIv	01h06m05.0s	-46°43'06"	**30**
30	215567	Phe	**I 51**			7.14	9.35	1.6"	1.4"	8°	15°	1991	1896	G8IV	01h34m20.7s	-45°41'28"	**30**
30	231719	Phe	**θ Phe**	Δ 251		6.53	7.27	3.9"	3"	276°	270°	2002	1834	A8V+F0V	23h39m28.0s	-46°38'16"	**30**
30	231726	Phe	**HDO 303**			7.18	9.33	2"	3"	66°	45°	1991	1897	K1III	23h39m59.9s	-47°19'35"	**30**
30	231749	Phe	**HJ 5416**		AC	6.8	10.4	45.4"	35"	215°	218°	1999	1834		23h43m05.9s	-46°18'44"	**30**
30	248023	Phe	**I 305**			6.88	10.88	3.14"		122°		1991			23h48m06.9s	-50°53'28"	**30**
30	109206	Psc	**HDO 18**			6.91	10.4	59.8"	50"	173°	180°	2000	1868	B5V	00h26m16.5s	+03°49'33"	**30**
30	109666	Psc	**77 Psc**	Σ 90	AB	6.39	7.26	33.8"	29.6"	83°	85°	2006	1782	F3V F5V	01h05m49.2s	+04°54'29"	**30**
30	109883	Psc	**J 1899**		AB	7	10.2	150"	150"	42°	42°	1941	1941	F0	01h25m40.7s	+02°58'19"	**30**
30	109895	Psc	**Σ 122**			6.65	9.51	5.9"	4"	328°	180°	2003	1777	B9V+A8V	01h26m53.6s	+03°32'08"	**30**
30	110291	Psc	**α Psc**	Σ 202	AB	4.1	5.17	1.8"	5.1"	269°	337°	2006	1781	A0p A3m	02h02m02.8s	+02°45'50"	**30**
30	146915	Psc	**20 Psc**	S 835	AB	5.59	9.83	175.8"	172.7"	283°	285°	2002	1824	G8III	23h47m56.6s	-02°45'42"	**30**
30	166083	Scl	**κ 1 Scl**	β 391	AB	6.13	6.24	1.3"	0.7"	260°	290°	2006	1875	F4IV-V	00h09m21.1s	-27°59'17"	**30**
30	166344	Scl	**HJ 3442**			6.9	11	18.3"	30"	186°	208°	1998	1836	K0	00h32m39.4s	-25°21'35"	**30**
30	166443	Scl	**HJ 1991**			6.58	9.73	47.1"	40"	95°	93°	1998	1830	K0	00h38m48.8s	-25°06'28"	**30**
30	192690	Scl	**λ 1 Scl**	HDO 182		6.6	7.01	0.7"	0.5"	17°	322°	1996	1901	A0V	00h42m42.9s	-38°27'49"	**30**
30	193123	Scl	**HJ 3436**			6.9	9.56	9.7"	11"	128°	124°	1998	1835	K0/1III	01h27m04.8s	-30°14'10"	**30**
30	193201	Scl	**τ Scl**	HJ 3447		5.97	7.35	0.8"	3"	171°	254°	2001	1835	F2V	01h36m08.6s	-29°54'26"	**30**
30	167275	Scl	**ε Scl**	HJ 3461	AB	5.38	8.5	4.9"	3"	24°	73°	2002	1835	F2V	01h45m38.8s	-25°03'10"	**30**
30	192020	Scl	**SEE 492**			6.84	9.18	0.6"	0.4"	357°	265°	2001	1897	F9V	23h35m40.1s	-27°29'27"	**30**
30	214659	Scl	**HWE 93**			6.69	9.92	5.5"	5.5"	251°	250°	1991	1877	K1III	23h37m05.4s	-31°52'16"	**30**
30	192116	Scl	**HJ 5417**			6.28	9.41	8.1"	8"	319°	327°	2002	1836	F7V	23h44m29.0s	-26°14'48"	**30**
30	192167	Scl	**δ Scl**	HJ 3216	AC	4.57	9.37	74.7"	80"	296°	301°	1998	1830	K1V	23h48m55.6s	-28°07'50"	**30**
30	192167	Scl		β 1013	AB	4.56	11.6	3.8"	3.3"	250°	228°	1964	1881	A0V	23h48m55.6s	-28°07'50"	**30**
30	192231	Scl	**LAL 192**			6.79	7.41	6.7"	5"	271°	270°	2006	1826	A2V F2V	23h54m21.4s	-27°02'34"	**30**

CHART 31

31	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**31**
31	257206	Aps	**I 236**			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	**31**
31	257341	Aps	**I 333**			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	**31**
31	257380	Aps	**δ 1 Aps**	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	**31**
31	257421	Aps	**HDO 255**			6.67	10.6	2.4"	2.8"	253°	235°	1991	1897	G8III	16h40m47.4s	-72°17'58"	**31**
31	257448	Aps	**I 100**			6.92	8.43	0.9"	0.8"	177°	135°	1991	1896	B9III	16h59m54.7s	-73°25'21"	**31**
31	253870	Aps	**I 104**			6.67	9.72	0.9"	2"	129°	135°	1991	1896	G0-1IV:	17h20m12.7s	-70°02'45"	**31**
31	257571	Aps	**HDO 284**			5.96	9.14	2.3"	1"	260°	210°	1991	1891	F5V	18h12m34.0s	-73°40'23"	**31**
31	256599	Car	**HJ 4206**		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	**31**
31	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	**31**
31	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**31**
31	257060	Cha	**HJ 4590**	S Cha		6.58	9.22	22.1"	25"	133°	137°	2000	1837	F6V	13h33m13.6s	-77°34'11"	**31**
31	249281	Dor	**I 276**			6.66	6.95	1.4"	0.5"	161°	210°	2001	1898	F0IV-V	05h26m59.8s	-68°37'21"	**31**
31	230846	Gru	**BSO 15**			5.64	8.76	75.2"	20"	351°	14°	1999	1834	G0V	21h48m15.8s	-47°18'15"	**31**
31	247400	Gru	**HDO 298**			5.4	9.7	5"	2.5"	39°	10°	1988	1894	G3V	22h18m15.8s	-53°37'42"	**31**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
31	231105	Gru	**π 1 Gru**	I 135		6.5	10.7	2.8"	2.5"	201°	190°	1975	1896	S5	22h22m44.2s	-45°56'53"	31
31	247531	Gru	**HJ 5349**			6.67	11.5	33.8"		118°		1914			22h39m08.4s	-52°41'31"	31
31	231257	Gru	**COO 252**			6	11	7.8"		126°	133°	1967	1897	G0V	22h42m36.9s	-47°12'41"	31
31	231290	Gru	**HJ 5362**			6.64	9.9	10.4"	8"	141°	140°	1998	1834	A9III:	22h46m43.7s	-46°56'22"	31
31	231444	Gru	**θ Gru**	JC 20	AB	4.45	6.6	1.5"	3.1"	108°	12°	2001	1846		23h06m52.7s	-43°31'13"	31
31	231444	Gru		JC 20	AC	4.45	7.77	158.9"	160.2"	292°	293°	2002	1851	G2V	23h06m52.7s	-43°31'13"	31
31	247739	Gru	**Δ246**			6.29	7.05	8.8"	10"	254°	233°	1999	1826	F6-7IV-V	23h07m14.8s	-50°41'12"	31
31	231532	Gru	**HJ 5390**			5.92	10.7	22.6"	15"	43°	13°	1999	1834	K1III	23h16m39.8s	-44°29'21"	31
31	247838	Gru	**Δ 248**		AB-C	6.11	6.58	16.8"	16"	212°	217°	2000	1826	A8	23h20m50.2s	-50°18'24"	31
31	247838	Gru		RST 5560	AB	6.15	8.93	1.3"	0.5"	233°	243°	1999	1947		23h20m50.2s	-50°18'24"	31
31	247854	Gru	**Δ 249**			6.14	7.07	26.5"	27.1"	212°	212°	2000	1826	A4III	23h23m54.6s	-53°48'32"	31
31	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	31
31	255919	Hyi	**HDS 357**			6.79	10.56	0.5"	0.5"	132°	132°	1991	1991	F6V	02h45m37.0s	-71°14'09"	31
31	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	31
31	230501	Ind	**I 130**			7.17	9.85	3.3"	3.2"	319°	313°	1991	1896	K2III	21h04m08.1s	-47°57'39"	31
31	246896	Ind	**HU 1626**			7.27	8.82	1.2"	0.6"	124°	208°	2001	1914	F8V	21h11m22.8s	-52°20'21"	31
31	230591	Ind	**I 1437**			7.03	10.25	1.1"	0.9"	348°	354°	1991	1926	K3III	21h15m02.1s	-49°05'51"	31
31	246965	Ind	**θ Ind**	HJ 5258		4.5	6.93	7"	3.7"	273°	307°	2002	1834	A5V	21h19m52.0s	-53°26'58"	31
31	247151	Ind	**JC 25**		AB	6.54	6.9	152.3"	152.2"	4°	5°	1999	1845	F5/7IV/V	21h43m59.0s	-57°19'31"	31
31	247151	Ind			AC	6.54	7.47	187"	205.4"	214°	221°	1999	1845	K2III	21h43m59.0s	-57°19'31"	31
31	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	31
31	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	31
31	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	31
31	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	31
31	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	31
31	257003	Mus	**CHR 228**			6.05	8.57	0.6"	0.6"	163°	165°	1993	1990	B1.5IIIne	13h03m05.3s	-71°28'33"	31
31	252224	Mus	**η Mus**	Δ 131	AC	4.76	7.24	58.4"	61.2"	332°	329°	2002	1826	B8V	13h15m14.9s	-67°53'41"	31
31	252245	Mus	**HDO 224**			7.03	8.06	0.7"	0.6"	208°	212°	1996	1897	B9IV	13h17m55.4s	-68°29'44"	31
31	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	31
31	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	31
31	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	31
31	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	31
31	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	31
31	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	31
31	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	31
31	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	31
31	254196	Pav	**HDO 289**			6.4	9.9	2"	3.8"	305°	290°	1968	1897	B9V	18h18m01.0s	-68°13'45"	31
31	254209	Pav	**I 249**			6.2	10.8	7.8"	5"	352°	5°	2000	1897	F9V	18h19m40.1s	-63°53'14"	31
31	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	31
31	257630	Pav	**R 314**			6.2	8.08	1.9"	1"	271°	260°	1991	1880	B9.5IV-V	18h49m43.7s	-72°59'45"	31
31	254515	Pav	**GLE 3**			6.12	6.42	0.5"	0.5"	329°	40°	1999	1894	A5V+A8V	19h17m12.2s	-66°39'40"	31
31	246293	Pav	**I 121**			5.62	7.23	0.8"	0.7"	151°	80°	1999	1896	A0IV	19h50m44.8s	-59°11'37"	31
31	246470	Pav	**HDO 295**			6.76	7.68	0.6"	0.7"	269°	228°	1991	1901	B7V+A3V	20h11m07.4s	-57°31'28"	31
31	254757	Pav	**HJ 5171**		AB	6.94	9.75	17.5"	12"	306°	305°	2000	1836	A2/3IV	20h14m34.9s	-64°25'47"	31
31	254757	Pav			AC	7	10	33.8"	25"	336°	334°	2000	1836		20h14m34.9s	-64°25'47"	31
31	254883	Pav	**RMK 26**			6.23	6.58	2.4"	3.2"	82°	101°	2002	1835	A2-3IV-V	20h51m38.5s	-62°25'46"	31
31	248097	Phe	**HJ 5437**			6.55	9.85	1.6"	2.5"	331°	296°	2001	1836	G0/2IV	00h00m34.4s	-53°05'52"	31
31	231719	Phe	**θ Phe**	Δ 251		6.53	7.27	3.9"	3"	276°	270°	2002	1834	A8V+F0V	23h39m28.0s	-46°38'16"	31
31	231726	Phe	**HDO 303**			7.18	9.33	2"	3"	66°	45°	1991	1897	K1III	23h39m59.9s	-47°19'35"	31
31	231749	Phe	**HJ 5416**		AC	6.8	10.4	45.4"	35"	215°	218°	1999	1834		23h43m05.9s	-46°18'44"	31
31	248023	Phe	**I 305**			6.88	10.88	3.14"		122°		1991			23h48m06.9s	-50°53'28"	31
31	246311	Tel	**Δ 227**			5.8	6.39	22.5"	23.5"	147°	152°	2002	1826	K0III A2V	19h52m37.7s	-54°58'16"	31
31	230083	Tel	**I 123**			6.81	11.3	8.2"		184°		1954			20h10m39.1s	-46°44'07"	31
31	248201	Tuc	**β Tuc**	I 260	CD	4.6	6.54	0.5"	0.6"	270°	335°	2001	1895	A2V+A7V	00h31m32.7s	-62°57'30"	31
31	248243	Tuc	**COO 3**			6.31	8.01	2.3"	3"	66°	90°	2001	1894	F5III-IV	00h44m31.7s	-62°29'51"	31

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
31	248269	Tuc	**λ 1 Tuc**	Δ 2		6.7	7.35	20.4"	22.5"	81°	77°	1998	1834	F7IV-V	00h52m24.5s	-69°30'14"	**31**
31	248346	Tuc	**κ Tuc**	HJ 3423	AB	5	7.74	5"	2"	322°	12°	1999	1834	F6IV	01h15m46.3s	-68°52'32"	**31**
31	248346	Tuc		HJ 3423	A-CD	5	7.85	319.5"	319.7"	310°	310°	1991	1874		01h15m46.3s	-68°52'32"	**31**
31	248350	Tuc	**HJ 3426**			6.41	8.27	2.4"	2"	330°	342°	1999	1834	A0V	01h17m03.8s	-66°23'52"	**31**
31	255222	Tuc	**δ Tuc**	HJ 5334	Aa-B	4.49	8.73	6.9"	8"	280°	283°	2000	1835		22h27m20.0s	-64°57'59"	**31**
31	247451	Tuc	**I 137**			6.93	10.31	2.1"	1.5"	339°	315°	1991	1896	A1m	22h27m21.2s	-58°00'02"	**31**
31	255316	Tuc	**HJ 5361**			6.49	10.8	80.6"		41°		1916			22h47m35.7s	-65°33'37"	**31**
31	255339	Tuc	**I 340**			6.33	9.03	0.9"	1.2"	337°	20°	1999	1900	K0III	22h52m10.0s	-63°11'20"	**31**
31	255453	Tuc	**Δ 247**			6.87	8.17	50"	30"	293°	278°	2002	1826	K1IIICN	23h18m00.8s	-61°00'14"	**31**
31	256326	Vol	**I 351**			6.5	10	16.4"	10.5"	333°	332°	1998	1893	K1III	06h40m57.6s	-71°46'31"	**31**
31	256374	Vol	**γ Vol**	Δ 42		3.86	5.43	14.4"	15.7"	296°	302°	2002	1826	K0III F2V	07h08m44.9s	-70°29'55"	**31**
31	256428	Vol	**HJ 3997**			7.02	7.07	1.9"	1"	306°	280°	1996	1835	B9IV B9IV	07h35m21.7s	-74°16'30"	**31**
31	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**31**

CHART 32

32	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**32**
32	257206	Aps	**I 236**			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	**32**
32	257341	Aps	**I 333**			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	**32**
32	257380	Aps	**δ 1 Aps**	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	**32**
32	257421	Aps	**HDO 255**			6.67	10.6	2.4"	2.8"	253°	235°	1991	1897	G8III	16h40m47.4s	-72°17'58"	**32**
32	257448	Aps	**I 100**			6.92	8.43	0.9"	0.8"	177°	135°	1991	1896	B9III	16h59m54.7s	-73°25'21"	**32**
32	253870	Aps	**I 104**			6.67	9.72	0.9"	2"	129°	135°	1991	1896	G0-1IV:	17h20m12.7s	-70°02'45"	**32**
32	257571	Aps	**HDO 284**			5.96	9.14	2.3"	1"	260°	210°	1991	1891	F5V	18h12m34.0s	-73°40'23"	**32**
32	244037	Ara	**HJ 4866**			7.23	7.79	3.3"	3"	120°	128°	1999	1835	B9IV/V	16h39m44.7s	-56°59'40"	**32**
32	253651	Ara	**B 1818**			6.29	9.09	1.6"	1.2"	36°	33°	1991	1930	F2III-IV	16h40m50.5s	-60°26'48"	**32**
32	227049	Ara	**Δ 206**		AC	5.71	6.76	9.5"	10"	265°	266°	2002	1836	O6.5V	16h41m20.4s	-48°45'47"	**32**
32	227049	Ara		MLO 8	AB	5.8	8.5	1.6"	2.1"	15°	12°	1938	1878	O5	16h41m20.4s	-48°45'47"	**32**
32	227049	Ara		HJ 4876	AD	5.7	10.5	13.3"	12"	160°	165°	1999	1836		16h41m20.4s	-48°45'47"	**32**
32	227542	Ara	**SEE 316**			6.34	7.69	1"	0.5"	172°	179°	1996	1897		17h00m27.0s	-48°38'53"	**32**
32	244356	Ara	**HLD 131**			6.37	9.86	2.3"	2"	131°	125°	1991	1882	Ap	17h01m07.0s	-56°33'18"	**32**
32	244386	Ara	**COO 206**		AB	7.29	8.14	7.9"	8"	233°	234°	1999	1888	A0V	17h02m52.5s	-50°09'38"	**32**
32	244518	Ara	**HJ 4920**			7.03	9.2	3"	3.5"	323°	329°	1991	1836	F4IV-V	17h12m59.1s	-58°35'50"	**32**
32	253827	Ara	**Δ 214**			5.99	8.78	37.4"	22"	14°	328°	2000	1826	K0-1III	17h13m17.8s	-67°11'48"	**32**
32	227816	Ara	**BSO 13**		AB	5.61	8.88	9.2"	3.7"	256°	0°	2002	1880	G8V M0V	17h19m04.3s	-46°38'10"	**32**
32	244675	Ara	**COO 213**			6.87	9.34	9.2"	11"	284°	280°	2000	1875	A5V	17h22m47.9s	-58°28'24"	**32**
32	244678	Ara	**HDO 270**			6	9.41	1.8"	4"	183°	190°	1991	1891	G8Ib-II	17h22m55.2s	-58°00'37"	**32**
32	244755	Ara	**SEE 328**		AB	5.91	10.91	75.9"	76.1"	159°	159°	2000	1900	B9II	17h27m12.5s	-50°37'49"	**32**
32	253938	Ara	**I 598**			6.9	9	1.2"	1"	136°	130°	1944	1909	Fm	17h29m29.0s	-61°45'50"	**32**
32	228075	Ara	**I 40**			6.03	10.5	20.1"	6"	209°	225°	1999	1895	F8-G0Ib	17h31m49.1s	-46°02'12"	**32**
32	244967	Ara	**HDO 276**			6.82	8.56	1.1"	2"	104°	105°	1991	1897	B9III	17h43m33.1s	-57°01'20"	**32**
32	245065	Ara	**HJ 4978**			5.69	9.22	12.4"	12.1"	268°	270°	2000	1834	B2V+B3V	17h50m28.4s	-53°36'45"	**32**
32	228465	Ara	**HJ 4982**			7.02	9.31	41.2"	42.9"	58°	60°	2000	1837	K3III	17h50m28.9s	-48°17'08"	**32**
32	245131	Ara	**RMK 22**			7.02	7.93	2.4"	2.7"	95°	83°	1991	1880	K0III+A2	17h57m13.2s	-55°22'53"	**32**
32	228734	Ara	**HJ 5015**			6.15	9.55	3.5"	3"	259°	263°	1999	1836	B7-8II	18h08m30.1s	-45°46'01"	**32**
32	256599	Car	**HJ 4206**		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	**32**
32	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	**32**
32	250672	Car	**HJ 4241**			6.6	10.6	34"	30"	305°	303°	2000	1835	A0V	09h42m13.0s	-66°54'53"	**32**
32	250750	Car	**RMK 12**			6.85	8.87	9.2"	12"	213°	208°	2000	1834	B9V	09h55m05.6s	-69°11'20"	**32**
32	250844	Car	**I 13**			6.1	11.5	26"		40°		1901		A0V	10h09m30.2s	-68°40'58"	**32**
32	256750	Car	**Δ 99**		AB	6.26	6.47	62.8"	68.7"	75°	74°	2000	1826	A5IV-V	10h44m20.0s	-70°51'35"	**32**
32	256750	Car			AC	6.26	9.64	42.2"	35"	44°	39°	2000	1835	A3	10h44m20.0s	-70°51'35"	**32**
32	256750	Car			BC	7.5	11	34.2"	35"	294°	282°	2000	1835	A6IV	10h44m20.0s	-70°51'35"	**32**
32	256770	Car	**HJ 4383**			6.38	7.09	1.5"	0.5"	288°	276°	1991	1835	B6V B6V	10h53m42.1s	-70°43'13"	**32**
32	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**32**
32	252835	Cir	**MLO 58**			6.73	9.98	1.07"		297°		1991			14h39m31.7s	-68°12'12"	**32**
32	252894	Cir	**I 369**		AB	5.9	9	46.6"	30"	34°	80°	2000	1891	B2.5Ve	14h48m44.5s	-66°35'37"	**32**
32	253064	Cir	**I 329**			6.72	7.68	0.9"	0.9"	339°	318°	1996	1897	B5V	15h13m59.2s	-61°20'35"	**32**
32	253082	Cir	**I 428**			5.7	11.62	10.8"		315°		1901		B0.5V	15h16m36.7s	-60°54'14"	**32**
32	253082	Cir		B 1777	AB	5.79	8.55	1.3"	1.2"	164°	163°	1991	1930	B0.5Ve	15h16m36.7s	-60°54'14"	**32**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
32	242463	Cir	**γ Cir**	HJ 4757		4.94	5.73	0.8"	1"	194°	107°	1996	1835	B5IV+F8	15h23m22.6s	-59°19'15"	**32**
32	228982	CrA	**Δ 221**			5.2	10.13	74.2"	40"	162°	180°	1999	1826	B2.5Vn	18h24m18.2s	-44°06'37"	**32**
32	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	**32**
32	255919	Hyi	**HDS 357**			6.79	10.56	0.5"	0.5"	132°	132°	1991	1991	F6V	02h45m37.0s	-71°14'09"	**32**
32	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	**32**
32	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	**32**
32	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	**32**
32	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	**32**
32	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	**32**
32	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	**32**
32	257003	Mus	**CHR 228**			6.05	8.57	0.6"	0.6"	163°	165°	1993	1990	B1.5IIIne	13h03m05.3s	-71°28'33"	**32**
32	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	**32**
32	243001	Nor	**B 1792**			6.21	10.32	1.2"	1.2"	288°	292°	1991	1931	K2-3III	15h48m50.4s	-52°26'18"	**32**
32	243044	Nor	**Δ 193**			5.77	9.07	16.5"	22.5"	12°	19°	1999	1836	B2II	15h51m06.8s	-55°03'20"	**32**
32	253349	Nor	**HJ 4813**			5.91	8.36	4.4"	2"	100°	97°	2000	1836	G5II-III	15h55m32.3s	-60°10'40"	**32**
32	243279	Nor	**ι 1 Nor**	HJ 4825	AB-C	4.64	8.02	10.9"	15"	243°	251°	2000	1835		16h03m32.0s	-57°46'31"	**32**
32	243279	Nor		SEE 258	AB	5.2	5.76	0.4"	0.8"	307°	266°	1996	1897	A7IV	16h03m32.0s	-57°46'31"	**32**
32	226696	Nor	**Δ 200**			6.04	9.73	39.2"	17"	195°	172°	1999	1826	G3II	16h22m29.1s	-43°54'43"	**32**
32	226773	Nor	**ε Nor**	HJ 4853		4.51	6.12	22.8"	25"	335°	337°	2002	1835	B2V	16h27m11.0s	-47°33'17"	**32**
32	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	**32**
32	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	**32**
32	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	**32**
32	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	**32**
32	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	**32**
32	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	**32**
32	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	**32**
32	254196	Pav	**HDO 289**			6.4	9.9	2"	3.8"	305°	290°	1968	1897	B9V	18h18m01.0s	-68°13'45"	**32**
32	254209	Pav	**I 249**			6.2	10.8	7.8"	5"	352°	5°	2000	1897	F9V	18h19m40.1s	-63°53'14"	**32**
32	254226	Pav	**ξ Pav**	GLE 2		4.4	8.1	3.4"	4"	156°	140°	1988	1894	K4III	18h23m13.6s	-61°29'38"	**32**
32	245510	Pav	**HDO 290**		AC	5.76	10.5	30.2"	20"	123°	120°	1999	1894		18h29m56.8s	-57°31'24"	**32**
32	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	**32**
32	245547	Pav	**HDS 2633**			6.52	10.63	1"	1"	205°	205°	1991	1991	G5IV	18h33m29.5s	-58°42'32"	**32**
32	257630	Pav	**R 314**			6.2	8.08	1.9"	1"	271°	260°	1991	1880	B9.5IV-V	18h49m43.7s	-72°59'45"	**32**
32	254515	Pav	**GLE 3**			6.12	6.42	0.5"	0.5"	329°	40°	1999	1894	A5V+A8V	19h17m12.2s	-66°39'40"	**32**
32	246293	Pav	**I 121**			5.62	7.23	0.8"	0.7"	151°	80°	1999	1896	A0IV	19h50m44.8s	-59°11'37"	**32**
32	246470	Pav	**HDO 295**			6.76	7.68	0.6"	0.7"	269°	228°	1991	1901	B7V+A3V	20h11m07.4s	-57°31'28"	**32**
32	254757	Pav	**HJ 5171**		AB	6.94	9.75	17.5"	12"	306°	305°	2000	1836	A2/3IV	20h14m34.9s	-64°25'47"	**32**
32	254757	Pav			AC	7	10	33.8"	25"	336°	334°	2000	1836		20h14m34.9s	-64°25'47"	**32**
32	254883	Pav	**RMK 26**			6.23	6.58	2.4"	3.2"	82°	101°	2002	1835	A2-3IV-V	20h51m38.5s	-62°25'46"	**32**
32	226855	Sco	**Δ 202**		AC	5.36	9.79	57.6"	26"	179°	190°	1999	1826		16h31m41.8s	-41°49'02"	**32**
32	226989	Sco	**HJ 4867**		AB	5.83	9.4	16.3"	12"	294°	295°	1999	1834	B2V	16h38m26.3s	-43°23'54"	**32**
32	228010	Sco	**Δ 217**			6.29	8.52	13.4"	8"	168°	148°	1999	1826	B5III	17h29m00.9s	-43°58'26"	**32**
32	229646	Sgr	**β 1 Sgr**	Δ 226		3.98	7.21	28.6"	30"	76°	60°	1999	1826	B8V F0V	19h22m38.3s	-44°27'32"	**32**
32	245320	Tel	**HDO 288**			6.59	9.94	1.6"	2.8"	132°	170°	1991	1897	F0V	18h12m56.2s	-50°33'32"	**32**
32	228845	Tel	**HJ 5033**		AB	6.68	9.77	17.2"	10"	114°	121°	1999	1834	G8III/IV	18h15m26.7s	-48°51'06"	**32**
32	228845	Tel			AD	6.8	10.7	25.5"	30"	69°	30°	1999	1834		18h15m26.7s	-48°51'06"	**32**
32	245354	Tel	**I 111**			7.23	9.09	1"	1"	287°	310°	1991	1896	K3III	18h16m07.1s	-56°39'04"	**32**
32	229077	Tel	**HJ 5045**			6.71	9.74	8.1"	6"	21°	23°	2000	1836	F6V	18h30m56.2s	-48°00'53"	**32**
32	229148	Tel	**HJ 5049**			6.88	11.5	19.9"		264°		1913			18h37m25.8s	-47°04'29"	**32**
32	229410	Tel	**I 113**			6.79	10.73	3.2"	3"	227°	225°	1991	1896	K3IIIBaII	18h58m53.0s	-48°30'21"	**32**
32	246028	Tel	**I 1397**			6.6	10.6	1.5"	1.5"	338°	336°	1928	1926	A1V	19h19m37.4s	-51°34'22"	**32**
32	246110	Tel	**HJ 5114**		AB	5.85	8.24	75.1"	69.4"	238°	271°	1999	1837	K4III	19h27m48.1s	-54°19'31"	**32**
32	246110	Tel			Aa	5.85	11	1.5"	1.8"	260°	131°	1857	1837	K4III	19h27m48.1s	-54°19'31"	**32**
32	246110	Tel			AD	5.85	10.85	72.9"	70.6"	94°	96°	1999	1873		19h27m48.1s	-54°19'31"	**32**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
32	246311	Tel	**Δ 227**			5.8	6.39	22.5"	23.5"	147°	152°	2002	1826	K0III A2V	19h52m37.7s	-54°58'16"	**32**
32	253029	TrA	**HDO 243**	T TrA	AD	7	10.5	43.3"	20"	40°	70°	2000	1891		15h09m36.5s	-68°43'17"	**32**
32	253029	TrA			AE	7	11	49.7"	55"	317°	311°	2000	1900		15h09m36.5s	-68°43'17"	**32**
32	253115	TrA	**I 332**			6.42	8.23	1.1"	1.1"	107°	108°	1991	1901	B3V	15h20m40.5s	-67°28'54"	**32**
32	253297	TrA	**RMK 20**		AB	6.16	6.43	1.7"	2.4"	146°	156°	1996	1835	A5III-IV	15h47m53.0s	-65°26'33"	**32**
32	253344	TrA	**Δ 194**		AD	6.35	9.02	48.3"	49.3"	256°	257°	2000	1836		15h54m52.6s	-60°44'37"	**32**
32	253344	TrA		Δ 194	AC	6.35	9.97	44.4"	43.5"	48°	51°	2000	1836		15h54m52.6s	-60°44'37"	**32**
32	253344	TrA		SLR 11	AB	6.35	8.09	1.1"	0.6"	95°	97°	1991	1891	B9II	15h54m52.6s	-60°44'37"	**32**
32	253500	TrA	**I 15**			6.84	8.95	1.3"	0.8"	317°	300°	1991	1894	B9/9.5V	16h20m00.5s	-64°38'56"	**32**
32	253687	TrA	**RST 5063**			6.85	10.77	1.4"	1.4"	128°	147°	1991	1942	A0V	16h45m56.9s	-61°39'49"	**32**
32	253756	TrA	**HDS 2404**			5.87	8.21	1"	1"	188°	189°	1991	1991	Ap Si	16h59m34.0s	-69°16'05"	**32**
32	248346	Tuc	**κ Tuc**	HJ 3423	AB	5	7.74	5"	2"	322°	12°	1999	1834	F6IV	01h15m46.3s	-68°52'32"	**32**
32	248346	Tuc		HJ 3423	A-CD	5	7.85	319.5"	319.7"	310°	310°	1991	1874		01h15m46.3s	-68°52'32"	**32**
32	250128	Vol	**ε Vol**	RMK 7		4.38	7.31	6"	6"	24°	44°	1999	1826	B6IV	08h07m55.8s	-68°37'01"	**32**
32	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**32**
32	256497	Vol	**κ Vol**	BSO 17	AB	5.31	5.59	64.7"	60"	58°	53°	2002	1835	B9III-IV	08h19m49.0s	-71°30'53"	**32**
32	256497	Vol		BSO 17	AC	5.31	7.67	98.8"	101"	48°	46°	2002	1850		08h19m49.0s	-71°30'53"	**32**
32	256497	Vol		BSO 17	BC	5.59	7.67	36.7"	34.2"	32°	29°	2002	1835		08h19m49.0s	-71°30'53"	**32**

CHART 33

33	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**33**
33	257206	Aps	**I 236**			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	**33**
33	257341	Aps	**I 333**			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	**33**
33	257380	Aps	**δ 1 Aps**	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	**33**
33	257421	Aps	**HDO 255**			6.67	10.6	2.4"	2.8"	253°	235°	1991	1897	G8III	16h40m47.4s	-72°17'58"	**33**
33	257448	Aps	**I 100**			6.92	8.43	0.9"	0.8"	177°	135°	1991	1896	B9III	16h59m54.7s	-73°25'21"	**33**
33	253870	Aps	**I 104**			6.67	9.72	0.9"	2"	129°	135°	1991	1896	G0-1IV:	17h20m12.7s	-70°02'45"	**33**
33	257571	Aps	**HDO 284**			5.96	9.14	2.3"	1"	260°	210°	1991	1891	F5V	18h12m34.0s	-73°40'23"	**33**
33	253651	Ara	**B 1818**			6.29	9.09	1.6"	1.2"	36°	33°	1991	1930	F2III-IV	16h40m50.5s	-60°26'48"	**33**
33	253827	Ara	**Δ 214**			5.99	8.78	37.4"	22"	14°	328°	2000	1826	K0-1III	17h13m17.8s	-67°11'48"	**33**
33	256599	Car	**HJ 4206**		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	**33**
33	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	**33**
33	250750	Car	**RMK 12**			6.85	8.87	9.2"	12"	213°	208°	2000	1834	B9V	09h55m05.6s	-69°11'20"	**33**
33	250844	Car	**I 13**			6.1	11.5	26"		40°		1901		A0V	10h09m30.2s	-68°40'58"	**33**
33	256750	Car	**Δ 99**		AB	6.26	6.47	62.8"	68.7"	75°	74°	2000	1826	A5IV-V	10h44m20.0s	-70°51'35"	**33**
33	256750	Car			AC	6.26	9.64	42.2"	35"	44°	39°	2000	1835	A3	10h44m20.0s	-70°51'35"	**33**
33	256750	Car			BC	7.5	11	34.2"	35"	294°	282°	2000	1835	A6IV	10h44m20.0s	-70°51'35"	**33**
33	256770	Car	**HJ 4383**			6.38	7.09	1.5"	0.5"	288°	276°	1991	1835	B6V B6V	10h53m42.1s	-70°43'13"	**33**
33	251195	Car	**HJ 4393**			6.6	8.67	8.7"	10"	132°	131°	2000	1835	B7V	10h57m20.2s	-69°02'17"	**33**
33	251334	Car	**FIN 179**			7.23	9.45	0.8"	1"	106°	106°	1991	1932	K4/5III	11h15m22.2s	-66°30'43"	**33**
33	251511	Cen	**I 422**		AB,C	6.54	9.91	1.7"	1.7"	1°	0°	1991	1902		11h38m20.4s	-63°22'22"	**33**
33	251533	Cen	**CPO 11**			6.87	7.43	2.6"	2.8"	220°	220°	1991	1888	O9.5	11h40m37.0s	-62°34'05"	**33**
33	251540	Cen	**HDO 212**			7.46	7.87	1"	1"	323°	320°	1991	1900	K1III	11h41m10.5s	-61°08'28"	**33**
33	239487	Cen	**HLD 114**			7.36	7.81	3.3"	2"	172°	230°	2000	1882	G3IV/V	11h55m01.4s	-56°05'47"	**33**
33	223130	Cen	**RST 564**			6.7	10.8	2.7"	2.6"	3°	2°	1962	1929	F0V	11h57m20.3s	-49°21'36"	**33**
33	239710	Cen	**I 216**			6.99	9.02	1"	1"	28°	40°	1991	1897	G8/K0III	12h09m46.6s	-51°47'02"	**33**
33	223266	Cen	**I 423**			6.76	10.6	2.7"	2.3"	166°	171°	1991	1902	K0III	12h11m02.9s	-45°25'22"	**33**
33	223297	Cen	**RMK 14**			5.78	6.98	2.8"	4"	243°	247°	1995	1837	K3III	12h14m02.7s	-45°43'26"	**33**
33	223366	Cen	**I 1221**			6.85	10.73	1.8"	1.5"	83°	83°	1991	1926	A0V	12h21m06.6s	-42°33'43"	**33**
33	223417	Cen	**HJ 4518**			6.47	8.37	10"	10"	208°	209°	1999	1834	K2-3III	12h24m44.7s	-41°23'04"	**33**
33	223603	Cen	**γ Cen**	HJ 4539	AB	2.82	2.88	0.9"	0.8"	347°	341°	2000	1835	A1IV	12h41m31.0s	-48°57'36"	**33**
33	223827	Cen	**CPO 13**			7.21	9.2	4.8"	5"	68°	67°	2000	1889	G8IV	13h00m16.9s	-48°36'13"	**33**
33	240566	Cen	**R 213**			6.59	7.04	0.7"	0.3"	22°	27°	1997	1874		13h07m24.3s	-59°51'38"	**33**
33	240645	Cen	**I 424**		AB-C	4.8	8.4	1.9"	1.6"	7°	346°	1991	1902		13h12m17.6s	-59°55'14"	**33**
33	240653	Cen	**COO 152**		AB	6.26	9.42	25"	26.1"	146°	146°	2000	1892	G0V	13h12m55.7s	-59°49'01"	**33**
33	252218	Cen	**I 399**			6.94	10.52	8.2"	8.7"	136°	132°	2000	1892	F6Ib	13h14m01.9s	-62°39'14"	**33**
33	252220	Cen	**MLO 3**			7.04	9.13	1.7"	1.4"	40°	35°	1991	1883	O9II-III	13h14m44.4s	-63°34'52"	**33**
33	252284	Cen	**Δ 133**		AB-C	4.49	6.15	60.7"	59.8"	346°	341°	2000	1826	B2.5Vn	13h22m37.9s	-60°59'18"	**33**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
33	224095	Cen	**SLR 18**			6.73	7.18	0.7"	0.5"	244°	190°	1998	1836	A4V	13h22m52.5s	-47°56'36"	**33**
33	252342	Cen	**HDS 1894**			6.89	9.68	0.6"	0.6"	234°	234°	1991	1991	F6/F7Ib	13h31m33.4s	-61°34'57"	**33**
33	241013	Cen	**R 223**			6.58	9.85	2.6"	6"	13°	22°	1991	1897	K1III	13h38m07.6s	-58°24'53"	**33**
33	241076	Cen	**Δ 141**			5.2	6.53	5.5"	3"	163°	168°	2000	1826	B8Vn	13h41m44.8s	-54°33'34"	**33**
33	241114	Cen	**Δ 142**			6.48	7.6	33.2"	32.4"	90°	95°	2000	1826	B8V	13h43m57.3s	-59°14'10"	**33**
33	252448	Cen	**COO 157**		AB	7.19	9.9	7.1"	10"	321°	310°	1991	1897	K00-Ia	13h47m10.9s	-62°35'23"	**33**
33	241239	Cen	**RMK 18**			5.24	7.5	18.1"	13.2"	289°	330°	1999	1826	B8V	13h52m04.8s	-52°48'42"	**33**
33	241309	Cen	**R 227**		AB	6.52	7.45	1.8"	1.2"	11°	349°	1996	1841	A1V	13h56m20.0s	-54°07'57"	**33**
33	252582	Cen	**β Cen**	VOU 31	Aa-B	0.58	3.95	0.9"	1.1"	234°	257°	1991	1935	B1III	14h03m49.4s	-60°22'23"	**33**
33	252599	Cen	**HJ 4642**		AD	6.92	10.58	26.3"	25"	334°	337°	2000	1835		14h07m04.9s	-63°26'43"	**33**
33	224702	Cen	**SLR 19**			7.14	7.38	1.3"	1.1"	316°	230°	1998	1895	G3V	14h07m41.5s	-49°52'03"	**33**
33	241491	Cen	**HJ 4651**			5.95	8.89	64.3"	62.7"	131°	134°	1999	1837	B9IV	14h09m35.0s	-51°30'17"	**33**
33	252665	Cen	**COO 167**			6.88	8.66	2.7"	3"	158°	160°	1991	1887	O8nke	14h15m01.6s	-61°42'24"	**33**
33	241673	Cen	**Δ 159**		AB	5.03	7.59	8.9"	12.8"	159°	161°	1994	1826	G8III+F5V	14h22m37.1s	-58°27'33"	**33**
33	241673	Cen			AD	5	10.5	43.7"	35"	9°	2°	2000	1826		14h22m37.1s	-58°27'33"	**33**
33	252838	Cen	**α Cen**	RHD 1	AB	0.14	1.24	12.5"	20.5"	224°	218°	2002	1752	G2V K1V	14h39m33.6s	-60°50'07"	**33**
33	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**33**
33	257060	Cha	**HJ 4590**	S Cha		6.58	9.22	22.1"	25"	133°	137°	2000	1837	F6V	13h33m13.6s	-77°34'11"	**33**
33	252534	Cir	**HJ 4632**			6.36	9.53	6.5"	6"	14°	9°	1991	1835	K0III	13h58m31.2s	-65°48'03"	**33**
33	252661	Cir	**RST 690**			6.73	9.8	2"	1.8"	283°	283°	1991	1929	B5V	14h14m39.6s	-65°42'05"	**33**
33	252835	Cir	**MLO 58**			6.73	9.98	1.07"		297°		1991			14h39m31.7s	-68°12'12"	**33**
33	241971	Cir	**Δ 169**			6.08	7.55	69.2"	67.9"	105°	108°	1999	1872	B2III	14h45m11.0s	-55°36'06"	**33**
33	252894	Cir	**I 369**		AB	5.9	9	46.6"	30"	34°	80°	2000	1891	B2.5Ve	14h48m44.5s	-66°35'37"	**33**
33	242025	Cir	**HJ 4699**		AB-C	6.81	9.11	37"	37.5"	125°	127°	1999	1836	A3	14h49m14.9s	-59°24'27"	**33**
33	253064	Cir	**I 329**			6.72	7.68	0.9"	0.9"	339°	318°	1996	1897	B5V	15h13m59.2s	-61°20'35"	**33**
33	253082	Cir	**I 428**			5.7	11.62	10.8"		315°		1901		B0.5V	15h16m36.7s	-60°54'14"	**33**
33	253082	Cir		B 1777	AB	5.79	8.55	1.3"	1.2"	164°	163°	1991	1930	B0.5Ve	15h16m36.7s	-60°54'14"	**33**
33	242463	Cir	**γ Cir**	HJ 4757		4.94	5.73	0.8"	1"	194°	107°	1996	1835	B5IV+F8	15h23m22.6s	-59°19'15"	**33**
33	251765	Cru	**HRG 74**			7.43	9.51	2.3"	1.5"	163°	165°	1991	1883	B+M1e	12h09m23.2s	-63°49'13"	**33**
33	251904	Cru	**α 1 Cru**	Δ 252	AB	1.25	1.55	4"	5.4"	114°	114°	2002	1826	B1V	12h26m35.9s	-63°05'57"	**33**
33	251904	Cru		Δ 252	AC	1.25	4.8	90"	87.2"	202°	200°	1991	1826	B4IV	12h26m35.9s	-63°05'57"	**33**
33	251904	Cru		Δ 252	BC	2.3	6	90"	87"	205°	204°	1991	1826		12h26m35.9s	-63°05'57"	**33**
33	251919	Cru	**CPO 12**		A-BC	7.32	8.24	2"	2.4"	195°	271°	2001	1880	G3V	12h28m16.9s	-61°45'58"	**33**
33	251928	Cru	**I 36**			6.91	10.91	21.4"	7"	326°	330°	2000	1895	B3V	12h28m54.9s	-61°52'15"	**33**
33	240104	Cru	**HLD 116**			7.14	8.94	1.9"	1.6"	183°	193°	1991	1880	A1/2V	12h38m07.2s	-55°55'52"	**33**
33	240183	Cru	**HJ 4543**		AC	6.5	9.8	36.5"	25"	95°	98°	2000	1834	K0-1III	12h43m28.3s	-58°54'10"	**33**
33	240183	Cru		RST 606	AB	6.4	10.9	2.4"	2.5"	157°	163°	1967	1939	K0-1III	12h43m28.3s	-58°54'10"	**33**
33	252016	Cru	**ι Cru**	HJ 4547		4.72	10.24	28.1"	21.5"	8°	50°	1991	1834	K0III	12h45m38.1s	-60°58'53"	**33**
33	240235	Cru	**HJ 4548**		AB	4.59	8.93	51.7"	70"	166°	174°	2000	1834	B3V	12h46m22.7s	-56°29'20"	**33**
33	252070	Cru	**HDS 1808**	BU Cru		6.89	8.22	17.1"	17.3"	43°	43°	2000	1892	B3Ib:	12h53m37.6s	-60°21'25"	**33**
33	240366	Cru	**μ Cru**	Δ 126	AB	3.94	4.95	34.8"	35.9"	18°	10°	2002	1826	B2IV-V	12h54m35.6s	-57°10'41"	**33**
33	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	**33**
33	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	**33**
33	224870	Lup	**R 244**			6.09	9.51	4.5"	4"	122°	125°	1991	1881	B1III	14h22m38.7s	-48°19'12"	**33**
33	241686	Lup	**B 1245**			6.27	8.98	1.1"	1.3"	146°	146°	1991	1929	K2III	14h23m20.2s	-50°46'20"	**33**
33	224919	Lup	**τ 1 Lup**	Δ 160		4.53	8.92	157"	122"	205°	213°	2002	1826	B2IV	14h26m08.2s	-45°13'17"	**33**
33	225062	Lup	**HJ 4690**		Aa-B	5.55	7.65	19.6"	25"	26°	24°	2002	1834	G8III+A1V	14h37m20.1s	-46°08'00"	**33**
33	225306	Lup	**HJ 4715**			5.98	6.82	2.2"	3"	278°	291°	1991	1826	B9V	14h56m32.0s	-47°52'45"	**33**
33	225426	Lup	**π Lup**	HJ 4728		4.56	4.6	1.7"	0.8"	66°	113°	2002	1835	B5V	15h05m07.1s	-47°03'05"	**33**
33	225517	Lup	**B 1267**		AB	6.53	9.6	1.2"	1.1"	314°	312°	1991	1929	K1III	15h11m34.8s	-45°16'39"	**33**
33	225517	Lup	**Δ 178**		AC	6.53	7.31	30.9"	40.3"	258°	291°	1999	1826	K0III	15h11m34.8s	-45°16'39"	**33**
33	225525	Lup	**κ Lup**	Δ 177		3.83	5.52	26.1"	28.9"	143°	146°	2002	1826	B9.5V+A5V	15h11m56.0s	-48°44'17"	**33**
33	242304	Lup	**ζ Lup**	Δ 176		3.5	6.74	71.8"	68.8"	249°	249°	1999	1826	K0III F8V	15h12m17.0s	-52°05'58"	**33**
33	225582	Lup	**HDO 244**			6.72	9.64	13.9"	20"	40°	30°	1999	1897	B9IV	15h15m19.6s	-44°08'58"	**33**
33	225590	Lup	**HJ 4750**			5.95	10.4	12.9"	12"	16°	23°	1999	1834	A3m	15h15m53.7s	-48°04'25"	**33**
33	225638	Lup	**μ Lup**	Δ 180	AC	4.99	6.34	22.7"	21.1"	127°	155°	2002	1826		15h18m32.0s	-47°52'31"	**33**
33	225638	Lup		HJ 4753	AB	4.99	4.93	1"	2.1"	323°	174°	1999	1836	B8V	15h18m32.0s	-47°52'31"	**33**
33	225950	Lup	**HJ 4788**			4.68	6.51	2.1"	3.1"	9°	349°	1995	1836	B3V	15h35m53.2s	-44°57'30"	**33**
33	226132	Lup	**HWE 79**			6.1	7.94	3.2"	2.5"	338°	350°	1999	1876	A0V+B	15h44m22.7s	-41°49'09"	**33**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
33	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	**33**
33	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	**33**
33	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	**33**
33	251383	Mus	**HJ 4432**			5.37	6.56	2.4"	2.4"	308°	289°	1991	1836	B5V	11h23m21.4s	-64°57'17"	**33**
33	256849	Mus	**HJ 4450**			6.87	10.89	20.9"	17.5"	40°	37°	2000	1835	B7IV	11h31m47.9s	-73°54'10"	**33**
33	251617	Mus	**COO 130**			4.97	7.25	1.6"	2.1"	159°	162°	1991	1894	B4V	11h51m51.2s	-65°12'21"	**33**
33	251720	Mus	**HDS 1698**		Aa	5.51	7.38	0.7"	0.7"	158°	157°	2004	1991	A0V	12h04m38.9s	-68°19'44"	**33**
33	251738	Mus	**HJ 4498**		Aa-B	6.13	7.74	8.9"	15"	60°	59°	2000	1835		12h06m23.0s	-65°42'34"	**33**
33	251866	Mus	**ζ 2 Mus**	HDS 1742	AB	5.17	10.61	32.6"	20"	127°	135°	2000	1891	A5V	12h22m07.3s	-67°31'20"	**33**
33	251866	Mus		HDS 1742	Aa	5.26	8.71	0.5"	0.5"	128°	128°	1991	1991	Am	12h22m07.3s	-67°31'20"	**33**
33	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	**33**
33	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	**33**
33	252019	Mus	**β Mus**	R 207		3.52	3.98	1.1"	0.5"	44°	317°	2002	1880	B2.5V	12h46m16.8s	-68°06'29"	**33**
33	257003	Mus	**CHR 228**			6.05	8.57	0.6"	0.6"	163°	165°	1993	1990	B1.5IIIne	13h03m05.3s	-71°28'33"	**33**
33	252162	Mus	**θ Mus**	CHR 247	AB	5.65	7.55	4.9"	3.3"	187°	191°	2002	1826	B0Ia+WC5:	13h08m07.2s	-65°18'22"	**33**
33	252224	Mus	**η Mus**	Δ 131	AC	4.76	7.24	58.4"	61.2"	332°	329°	2002	1826	B8V	13h15m14.9s	-67°53'41"	**33**
33	252245	Mus	**HDO 224**			7.03	8.06	0.7"	0.6"	208°	212°	1996	1897	B9IV	13h17m55.4s	-68°29'44"	**33**
33	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	**33**
33	242793	Nor	**Δ 189**		AB	5.42	10.72	53"	56"	280°	310°	1999	1826	A0V	15h38m49.5s	-52°22'22"	**33**
33	242892	Nor	**HJ 4797**			6.86	10.62	21.3"	20"	257°	256°	1999	1836	F2IV/V	15h44m10.4s	-50°12'57"	**33**
33	242915	Nor	**HLD 124**			6.61	8.45	2.2"	2"	195°	210°	1996	1882	A3V	15h44m59.5s	-50°47'08"	**33**
33	243001	Nor	**B 1792**			6.21	10.32	1.2"	1.2"	288°	292°	1991	1931	K2-3III	15h48m50.4s	-52°26'18"	**33**
33	243044	Nor	**Δ 193**			5.77	9.07	16.5"	22.5"	12°	19°	1999	1836	B2II	15h51m06.8s	-55°03'20"	**33**
33	253349	Nor	**HJ 4813**			5.91	8.36	4.4"	2"	100°	97°	2000	1836	G5II-III	15h55m32.3s	-60°10'40"	**33**
33	243279	Nor	**ι 1 Nor**	HJ 4825	AB-C	4.64	8.02	10.9"	15"	243°	251°	2000	1835		16h03m32.0s	-57°46'31"	**33**
33	243279	Nor		SEE 258	AB	5.2	5.76	0.4"	0.8"	307°	266°	1996	1897	A7IV	16h03m32.0s	-57°46'31"	**33**
33	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	**33**
33	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	**33**
33	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	**33**
33	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	**33**
33	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	**33**
33	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	**33**
33	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	**33**
33	254196	Pav	**HDO 289**			6.4	9.9	2"	3.8"	305°	290°	1968	1897	B9V	18h18m01.0s	-68°13'45"	**33**
33	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	**33**
33	257630	Pav	**R 314**			6.2	8.08	1.9"	1"	271°	260°	1991	1880	B9.5IV-V	18h49m43.7s	-72°59'45"	**33**
33	253029	TrA	**HDO 243**	T TrA	AD	7	10.5	43.3"	20"	40°	70°	2000	1891		15h09m36.5s	-68°43'17"	**33**
33	253029	TrA			AE	7	11	49.7"	55"	317°	311°	2000	1900		15h09m36.5s	-68°43'17"	**33**
33	253115	TrA	**I 332**			6.42	8.23	1.1"	1.1"	107°	108°	1991	1901	B3V	15h20m40.5s	-67°28'54"	**33**
33	253297	TrA	**RMK 20**		AB	6.16	6.43	1.7"	2.4"	146°	156°	1996	1835	A5III-IV	15h47m53.0s	-65°26'33"	**33**
33	253344	TrA	**Δ 194**		AD	6.35	9.02	48.3"	49.3"	256°	257°	2000	1836		15h54m52.6s	-60°44'37"	**33**
33	253344	TrA		Δ 194	AC	6.35	9.97	44.4"	43.5"	48°	51°	2000	1836		15h54m52.6s	-60°44'37"	**33**
33	253344	TrA		SLR 11	AB	6.35	8.09	1.1"	0.6"	95°	97°	1991	1891	B9II	15h54m52.6s	-60°44'37"	**33**
33	253500	TrA	**I 15**			6.84	8.95	1.3"	0.8"	317°	300°	1991	1894	B9/9.5V	16h20m00.5s	-64°38'56"	**33**
33	253687	TrA	**RST 5063**			6.85	10.77	1.4"	1.4"	128°	147°	1991	1942	A0V	16h45m56.9s	-61°39'49"	**33**
33	253756	TrA	**HDS 2404**			5.87	8.21	1"	1"	188°	189°	1991	1991	Ap Si	16h59m34.0s	-69°16'05"	**33**
33	256326	Vol	**I 351**			6.5	10	16.4"	10.5"	333°	332°	1998	1893	K1III	06h40m57.6s	-71°46'31"	**33**
33	256374	Vol	**γ Vol**	Δ 42		3.86	5.43	14.4"	15.7"	296°	302°	2002	1826	K0III F2V	07h08m44.9s	-70°29'55"	**33**
33	256428	Vol	**HJ 3997**			7.02	7.07	1.9"	1"	306°	280°	1996	1835	B9IV B9IV	07h35m21.7s	-74°16'30"	**33**
33	250128	Vol	**ε Vol**	RMK 7		4.38	7.31	6"	6"	24°	44°	1999	1826	B6IV	08h07m55.8s	-68°37'01"	**33**
33	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**33**
33	256497	Vol	**κ Vol**	BSO 17	AB	5.31	5.59	64.7"	60"	58°	53°	2002	1835	B9III-IV	08h19m49.0s	-71°30'53"	**33**
33	256497	Vol		BSO 17	AC	5.31	7.67	98.8"	101"	48°	46°	2002	1850		08h19m49.0s	-71°30'53"	**33**
33	256497	Vol		BSO 17	BC	5.59	7.67	36.7"	34.2"	32°	29°	2002	1835		08h19m49.0s	-71°30'53"	**33**

CHART 34

34	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**34**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
34	257206	Aps	I 236			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	34
34	257341	Aps	I 333			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	34
34	257380	Aps	δ 1 Aps	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	34
34	257421	Aps	HDO 255			6.67	10.6	2.4"	2.8"	253°	235°	1991	1897	G8III	16h40m47.4s	-72°17'58"	34
34	257448	Aps	I 100			6.92	8.43	0.9"	0.8"	177°	135°	1991	1896	B9III	16h59m54.7s	-73°25'21"	34
34	253870	Aps	I 104			6.67	9.72	0.9"	2"	129°	135°	1991	1896	G0-1IV:	17h20m12.7s	-70°02'45"	34
34	257571	Aps	HDO 284			5.96	9.14	2.3"	1"	260°	210°	1991	1891	F5V	18h12m34.0s	-73°40'23"	34
34	235532	Car	FIN 109			6.64	8.39	0.9"	1.2"	216°	215°	1991	1930	K0III A1V	07h48m19.5s	-56°28'16"	34
34	235686	Car	Δ 60			6.1	7.86	40.2"	40.4"	162°	160°	1999	1837	B2IV-V	08h01m23.0s	-54°30'56"	34
34	250101	Car	Δ 62			6.22	7.8	86.4"	87.4"	259°	266°	2000	1826	B2.5Vn	08h04m42.9s	-62°50'11"	34
34	250120	Car	HJ 4053		AC	6.91	10.5	20.3"	20"	323°	310°	2000	1836		08h08m12.9s	-61°04'38"	34
34	250164	Car	RMK 8			5.27	7.62	3.6"	3.7"	67°	57°	2000	1851	A2V	08h15m15.9s	-62°54'56"	34
34	235872	Car	HJ 4084		AB	6.5	9.81	42.2"	60"	150°	159°	2000	1836	F5V	08h17m58.5s	-59°10'37"	34
34	236105	Car	HDS 1234			5.25	8.9	0.6"	0.6"	294°	294°	1991	1991	B3V+...	08h35m15.5s	-58°13'29"	34
34	250291	Car	HJ 4128			6.76	7.53	1.1"	2.5"	203°	222°	1995	1836	A0V	08h39m13.2s	-60°19'02"	34
34	236179	Car	HJ 4130			6.54	8.31	3.3"	3"	245°	218°	1998	1835	A3V	08h40m43.5s	-57°32'44"	34
34	236241	Car	RMK 9		AB	6.87	6.93	3.7"	3.5"	293°	288°	1998	1836	B7III	08h45m05.5s	-58°43'28"	34
34	236241	Car			AC	6.9	11	50.9"	60"	359°	357°	1913	1837		08h45m05.5s	-58°43'28"	34
34	236241	Car			AD	6.9	10.8	60.5"	80"	223°	218°	1998	1837		08h45m05.5s	-58°43'28"	34
34	236358	Car	FIN 37			6.86	9.69	0.9"	0.8"	50°	47°	1991	1927	A0V	08h52m24.7s	-55°20'30"	34
34	236436	Car	Δ 74			4.87	6.58	40.1"	40.6"	76°	75°	2000	1836	B2IV-V	08h56m58.4s	-59°13'46"	34
34	236578	Car	HJ 4178			6.48	9.57	3.4"	3.1"	161°	165°	1991	1836	A8III	09h04m48.0s	-57°51'09"	34
34	236707	Car	Hj 4190			6.59	10.36	8.2"		23°		1991			09h11m32.7s	-57°58'06"	34
34	256599	Car	HJ 4206		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	34
34	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	34
34	250575	Car	HJ 4213			5.79	9.55	8.8"	8"	330°	322°	2000	1835	A4V	09h25m27.2s	-61°57'01"	34
34	237097	Car	R 123			7.5	7.61	1.9"	2.5"	34°	30°	1991	1873	B8III	09h33m17.3s	-57°57'48"	34
34	250672	Car	HJ 4241			6.6	10.6	34"	30"	305°	303°	2000	1835	A0V	09h42m13.0s	-66°54'53"	34
34	250695	Car	υ Car	RMK 11		3.02	6	5"	4.9"	129°	126°	2000	1836	A8Ib	09h47m06.1s	-65°04'19"	34
34	250750	Car	RMK 12			6.85	8.87	9.2"	12"	213°	208°	2000	1834	B9V	09h55m05.6s	-69°11'20"	34
34	250795	Car	HRG 47			6.34	7.93	1.2"	0.6"	352°	351°	1991	1883	B7IVne	10h03m34.1s	-61°53'03"	34
34	250836	Car	HJ 4292			5.36	10.05	65.4"	35"	124°	122°	2000	1835	K0III	10h08m42.7s	-65°48'55"	34
34	250844	Car	I 13			6.1	11.5	26"		40°		1901		A0V	10h09m30.2s	-68°40'58"	34
34	250917	Car	HJ 4306			6.26	6.48	2.4"	1.3"	313°	319°	1997	1836	A1V	10h19m05.1s	-64°40'34"	34
34	250992	Car	Δ 87			6.6	7.55	82.3"	85.3"	331°	337°	2000	1826	M2IIIe	10h30m39.2s	-61°21'23"	34
34	238217	Car	COO 107			7.01	9.91	5.1"	5.2"	238°	238°	1991	1902	G8/K0III	10h35m04.6s	-57°40'38"	34
34	238295	Car	Δ 94			4.89	7.48	14.5"	10.1"	21°	11°	1991	1826	K4-5III:	10h38m45.0s	-59°10'59"	34
34	238304	Car	GLI 152			6.18	7.95	26.3"	17.2"	80°	67°	2000	1852	M1III	10h38m59.6s	-58°49'01"	34
34	251085	Car	Δ 97		AB	6.59	7.88	12.4"	12"	175°	176°	1998	1834	B3III	10h43m09.4s	-61°10'07"	34
34	251085	Car			AC	6.59	8.14	83.6"	83"	17°	17°	1998	1847		10h43m09.4s	-61°10'07"	34
34	256750	Car	Δ 99		AB	6.26	6.47	62.8"	68.7"	75°	74°	2000	1826	A5IV-V	10h44m20.0s	-70°51'35"	34
34	256750	Car			AC	6.26	9.64	42.2"	35"	44°	39°	2000	1835	A3	10h44m20.0s	-70°51'35"	34
34	256750	Car			BC	7.5	11	34.2"	35"	294°	282°	2000	1835	A6IV	10h44m20.0s	-70°51'35"	34
34	238429	Car	η Car	Δ 98	Aa,H	6.54	8.14	60.6"	60.2"	17°	11°	2000	1826		10h45m03.5s	-59°41'04"	34
34	238514	Car	R 161			6.12	7.42	1"	0.5"	292°	256°	1996	1874	B9.5IV-V	10h49m24.4s	-59°19'26"	34
34	238529	Car	HJ 4378			6.78	10.21	31"	30.9"	347°	344°	2000	1836	B8/9IV	10h50m58.6s	-59°57'26"	34
34	238574	Car	Δ 102		AB	3.88	6.23	159.4"	163"	204°	200°	2000	1837	K1III	10h53m29.7s	-58°51'11"	34
34	238574	Car		Δ 103	AC	3.88	7.84	56.4"	57.5"	7°	13°	2000	1826		10h53m29.7s	-58°51'11"	34
34	256770	Car	HJ 4383			6.38	7.09	1.5"	0.5"	288°	276°	1991	1835	B6V B6V	10h53m42.1s	-70°43'13"	34
34	251195	Car	HJ 4393			6.6	8.67	8.7"	10"	132°	131°	2000	1835	B7V	10h57m20.2s	-69°02'17"	34
34	251205	Car	R 164			6.2	9.7	3.3"	4.5"	78°	82°	2000	1873	B8IV	10h59m14.0s	-61°19'15"	34
34	251334	Car	FIN 179			7.23	9.45	0.8"	1"	106°	106°	1991	1932	K4/5III	11h15m22.2s	-66°30'43"	34
34	238939	Car	R 163		A-BC	7.24	7.6	1.6"	1.8"	57°	55°	1991	1879		11h17m27.5s	-59°06'19"	34
34	222581	Cen	HJ 4409			5.24	7.73	1.3"	1.4"	252°	278°	1995	1827	ApSrCrEu	11h07m16.7s	-42°38'19"	34
34	222682	Cen	HJ 4421			6.9	10.5	23.8"	12"	66°	69°	1999	1835	A0V	11h15m53.7s	-47°55'15"	34
34	222751	Cen	HDS 1618			6.3	9.94	0.7"	0.7"	55°	55°	1991	1991	G8III	11h22m23.1s	-44°38'46"	34
34	222813	Cen	BSO 6			5.13	7.38	13.1"	19"	168°	168°	1999	1835	B9V	11h28m35.1s	-42°40'27"	34
34	251511	Cen	I 422		AB,C	6.54	9.91	1.7"	1.7"	1°	0°	1991	1902		11h38m20.4s	-63°22'22"	34
34	239272	Cen	RST 4949			6.8	11	1"	1.1"	28°	14°	1964	1942	ApEuCr	11h39m53.6s	-50°29'09"	34
34	251533	Cen	CPO 11			6.87	7.43	2.6"	2.8"	220°	220°	1991	1888	O9.5	11h40m37.0s	-62°34'05"	34
34	251540	Cen	HDO 212			7.46	7.87	1"	1"	323°	320°	1991	1900	K1III	11h41m10.5s	-61°08'28"	34
34	239487	Cen	HLD 114			7.36	7.81	3.3"	2"	172°	230°	2000	1882	G3IV/V	11h55m01.4s	-56°05'47"	34

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
34	223130	Cen	**RST 564**			6.7	10.8	2.7"	2.6"	3°	2°	1962	1929	F0V	11h57m20.3s	-49°21'36"	**34**
34	239710	Cen	**I 216**			6.99	9.02	1"	1"	28°	40°	1991	1897	G8/K0III	12h09m46.6s	-51°47'02"	**34**
34	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**34**
34	257060	Cha	**HJ 4590**	S Cha		6.58	9.22	22.1"	25"	133°	137°	2000	1837	F6V	13h33m13.6s	-77°34'11"	**34**
34	251765	Cru	**HRG 74**			7.43	9.51	2.3"	1.5"	163°	165°	1991	1883	B+M1e	12h09m23.2s	-63°49'13"	**34**
34	251904	Cru	**α 1 Cru**	Δ 252	AB	1.25	1.55	4"	5.4"	114°	114°	2002	1826	B1V	12h26m35.9s	-63°05'57"	**34**
34	251904	Cru		Δ 252	AC	1.25	4.8	90"	87.2"	202°	200°	1991	1826	B4IV	12h26m35.9s	-63°05'57"	**34**
34	251904	Cru		Δ 252	BC	2.3	6	90"	87"	205°	204°	1991	1826		12h26m35.9s	-63°05'57"	**34**
34	251919	Cru	**CPO 12**		A-BC	7.32	8.24	2"	2.4"	195°	271°	2001	1880	G3V	12h28m16.9s	-61°45'58"	**34**
34	251928	Cru	**I 36**			6.91	10.91	21.4"	7"	326°	330°	2000	1895	B3V	12h28m54.9s	-61°52'15"	**34**
34	240183	Cru	**HJ 4543**		AC	6.5	9.8	36.5"	25"	95°	98°	2000	1834	K0-1III	12h43m28.3s	-58°54'10"	**34**
34	240183	Cru		RST 606	AB	6.4	10.9	2.4"	2.5"	157°	163°	1967	1939	K0-1III	12h43m28.3s	-58°54'10"	**34**
34	252016	Cru	**ι Cru**	HJ 4547		4.72	10.24	28.1"	21.5"	8°	50°	1991	1834	K0III	12h45m38.1s	-60°58'53"	**34**
34	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	**34**
34	255919	Hyi	**HDS 357**			6.79	10.56	0.5"	0.5"	132°	132°	1991	1991	F6V	02h45m37.0s	-71°14'09"	**34**
34	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	**34**
34	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	**34**
34	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	**34**
34	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	**34**
34	251383	Mus	**HJ 4432**			5.37	6.56	2.4"	2.4"	308°	289°	1991	1836	B5V	11h23m21.4s	-64°57'17"	**34**
34	256849	Mus	**HJ 4450**			6.87	10.89	20.9"	17.5"	40°	37°	2000	1835	B7IV	11h31m47.9s	-73°54'10"	**34**
34	251617	Mus	**COO 130**			4.97	7.25	1.6"	2.1"	159°	162°	1991	1894	B4V	11h51m51.2s	-65°12'21"	**34**
34	251720	Mus	**HDS 1698**		Aa	5.51	7.38	0.7"	0.7"	158°	157°	2004	1991	A0V	12h04m38.9s	-68°19'44"	**34**
34	251738	Mus	**HJ 4498**		Aa-B	6.13	7.74	8.9"	15"	60°	59°	2000	1835		12h06m23.0s	-65°42'34"	**34**
34	251866	Mus	**ζ 2 Mus**	HDS 1742	AB	5.17	10.61	32.6"	20"	127°	135°	2000	1891	A5V	12h22m07.3s	-67°31'20"	**34**
34	251866	Mus		HDS 1742	Aa	5.26	8.71	0.5"	0.5"	128°	128°	1991	1991	Am	12h22m07.3s	-67°31'20"	**34**
34	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	**34**
34	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	**34**
34	252019	Mus	**β Mus**	R 207		3.52	3.98	1.1"	0.5"	44°	317°	2002	1880	B2.5V	12h46m16.8s	-68°06'29"	**34**
34	257003	Mus	**CHR 228**			6.05	8.57	0.6"	0.6"	163°	165°	1993	1990	B1.5IIIne	13h03m05.3s	-71°28'33"	**34**
34	252162	Mus	**θ Mus**	CHR 247	AB	5.65	7.55	4.9"	3.3"	187°	191°	2002	1826	B0Ia+WC5:	13h08m07.2s	-65°18'22"	**34**
34	252224	Mus	**η Mus**	Δ 131	AC	4.76	7.24	58.4"	61.2"	332°	329°	2002	1826	B8V	13h15m14.9s	-67°53'41"	**34**
34	252245	Mus	**HDO 224**			7.03	8.06	0.7"	0.6"	208°	212°	1996	1897	B9IV	13h17m55.4s	-68°29'44"	**34**
34	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	**34**
34	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	**34**
34	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	**34**
34	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	**34**
34	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	**34**
34	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	**34**
34	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	**34**
34	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	**34**
34	254196	Pav	**HDO 289**			6.4	9.9	2"	3.8"	305°	290°	1968	1897	B9V	18h18m01.0s	-68°13'45"	**34**
34	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	**34**
34	257630	Pav	**R 314**			6.2	8.08	1.9"	1"	271°	260°	1991	1880	B9.5IV-V	18h49m43.7s	-72°59'45"	**34**
34	248269	Tuc	**λ 1 Tuc**	Δ 2		6.7	7.35	20.4"	22.5"	81°	77°	1998	1834	F7IV-V	00h52m24.5s	-69°30'14"	**34**
34	248346	Tuc	**κ Tuc**	HJ 3423	AB	5	7.74	5"	2"	322°	12°	1999	1834	F6IV	01h15m46.3s	-68°52'32"	**34**
34	248346	Tuc		HJ 3423	A-CD	5	7.85	319.5"	319.7"	310°	310°	1991	1874		01h15m46.3s	-68°52'32"	**34**
34	219504	Vel	**γ Vel**	Δ 65	AB	1.79	4.14	41"	42.9"	219°	222°	2002	1826	WC8+O7.5e	08h09m31.9s	-47°20'12"	**34**
34	219504	Vel		Δ 65	AC	1.79	7.26	62.6"	62.4"	152°	152°	2000	1835		08h09m31.9s	-47°20'12"	**34**
34	219504	Vel		Δ 65	AD	1.79	9.4	93.9"	93.5"	142°	141°	2000	1846		08h09m31.9s	-47°20'12"	**34**
34	219504	Vel		Δ 65	BC	4.14	7.26	60.8"	61.5"	113°	112°	2000	1846		08h09m31.9s	-47°20'12"	**34**
34	219504	Vel		Δ 65	BD	4.14	9.4	94.5"	95.9"	117°	115°	2000	1851		08h09m31.9s	-47°20'12"	**34**
34	219504	Vel		Δ 65	CD	7.26	11	34.1"	33.5"	123°	123°	2000	1846		08h09m31.9s	-47°20'12"	**34**
34	219602	Vel	**SEE 96**		Aa-B	6.22	7.65	0.6"	0.3"	276°	282°	1997	1897		08h12m30.8s	-46°15'51"	**34**
34	219629	Vel	**GLI 87**			5.1	10.05	34.9"	36.4"	343°	344°	1999	1852	B2.5V	08h13m36.2s	-46°59'30"	**34**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
34	219657	Vel	**HJ 4069**		AB-C	5.81	8.7	32.1"	33.2"	249°	257°	1999	1836		08h14m23.9s	-45°50'04"	**34**
34	219785	Vel	**HJ 4081**			6.45	11	42.5"		185°		1920			08h19m05.6s	-48°11'52"	**34**
34	219848	Vel	**I 67**			5.14	6.08	0.7"	1"	137°	145°	1998	1896	B2III	08h22m31.7s	-48°29'25"	**34**
34	219977	Vel	**HJ 4102**			6.56	9.35	68.1"	68"	283°	281°	1999	1900	B0Vnne	08h28m52.1s	-42°35'15"	**34**
34	219985	Vel	**HJ 4104**		Aa-B	5.51	7.17	3"	2.3"	250°	238°	1999	1835		08h29m04.7s	-47°55'44"	**34**
34	219985	Vel			Aa-C	5.51	9.23	18.9"	17.5"	40°	37°	1999	1835	B5	08h29m04.7s	-47°55'44"	**34**
34	219996	Vel	**Δ 70**			5.16	6.95	4.3"	5.6"	349°	350°	2002	1835	B2IV	08h29m27.5s	-44°43'29"	**34**
34	220025	Vel	**I 168**			6.31	10.53	3.5"	3"	74°	80°	1991	1897	B4IV	08h30m39.2s	-44°44'14"	**34**
34	236062	Vel	**SLR 8**			6.13	7.08	0.8"	0.4"	285°	302°	1991	1892	K0III+A3	08h32m05.0s	-53°12'43"	**34**
34	220086	Vel	**HDO 202**			6.46	10.9	15"	15"	225°	225°	1900	1900	B3III	08h33m01.9s	-45°45'10"	**34**
34	236157	Vel	**HJ 4126**			5.2	8.66	16.8"	15"	31°	28°	1998	1834	B5	08h39m57.6s	-53°03'17"	**34**
34	220313	Vel	**RST 5304**	HX Vel		5.5	8.28	0.5"	0.3"	307°	303°	1995	1944	B1.5Vn	08h42m16.2s	-48°05'57"	**34**
34	236205	Vel	**BSO 18**	HY Vel	AB	4.79	5.45	76.1"	76.6"	311°	310°	1998	1836	B3IV	08h42m25.4s	-53°06'50"	**34**
34	236205	Vel			BD	5.45	9.9	60.4"	61"	267°	265°	1998	1846	F5V	08h42m25.4s	-53°06'50"	**34**
34	220561	Vel	**HDO 205**			5.1	10	3.2"	3.7"	85°	81°	1959	1894	B0III	08h50m33.5s	-46°31'45"	**34**
34	236362	Vel	**CPO 9**			6.63	8.22	2.9"	3.9"	83°	78°	1991	1877	A0V	08h52m40.8s	-52°07'44"	**34**
34	236417	Vel	**R 87**			4.7	7.72	2.6"	3.5"	335°	341°	1995	1881	B5V	08h56m19.3s	-52°43'24"	**34**
34	236518	Vel	**HJ 4165**			5.55	6.6	0.7"	1.4"	136°	88°	1996	1837	B9Si	09h01m44.6s	-52°11'19"	**34**
34	220952	Vel	**HJ 4188**		Aa-B	5.96	6.76	2.8"	3.1"	281°	287°	1992	1835		09h12m30.5s	-43°36'48"	**34**
34	220998	Vel	**I 11**			6.56	7.65	0.8"	1"	290°	270°	1997	1894	B8V	09h15m14.6s	-45°33'20"	**34**
34	236956	Vel	**COO 83**			7.03	10.18	19.2"	19.3"	154°	153°	1999	1894	F7V	09h25m36.3s	-53°15'07"	**34**
34	221288	Vel	**HJ 4220**			5.54	6.19	1.6"	3"	217°	202°	1996	1836	B5III	09h33m44.5s	-49°00'18"	**34**
34	221339	Vel	**R 125**	IM Vel		6.26	10.34	3"	2.8"	188°	165°	2000	1880	ApSrEuCr	09h36m25.4s	-48°45'04"	**34**
34	237149	Vel	**SEE 115**			6.12	6.28	0.7"	0.3"	8°	4°	1997	1897	A2-3V	09h37m12.6s	-53°40'07"	**34**
34	221480	Vel	**HJ 4245**			6.77	9.6	9.3"	12"	217°	217°	1999	1835	G8II/III	09h46m09.0s	-45°55'05"	**34**
34	221523	Vel	**HJ 4254**			5.07	9.33	67"	65.7"	48°	47°	1999	1901	B7III	09h49m57.1s	-45°43'58"	**34**
34	221592	Vel	**Δ 81**			5.79	8.23	5.2"	4"	240°	239°	1999	1826	B5V	09h54m17.6s	-45°17'01"	**34**
34	221644	Vel	**HJ 4269**			6.05	10.1	13.8"	15"	321°	317°	1999	1837	B3V	09h57m42.6s	-48°24'51"	**34**
34	221668	Vel	**HJ 4273**			6.71	10.44	15.5"	15.5"	136°	137°	1999	1836	B8/9V	09h59m26.2s	-44°57'20"	**34**
34	237603	Vel	**HDO 209**			6.42	10	15"		55°					10h01m12.0s	-56°05'48"	**34**
34	221773	Vel	**I 173**			5.32	7.1	0.9"	0.6"	1°	45°	1997	1897	K1IV+G5V	10h06m11.2s	-47°22'12"	**34**
34	237832	Vel	**SEE 118**			6.64	11.5	125"		31°		1984			10h15m07.4s	-55°32'57"	**34**
34	237921	Vel	**HJ 4307**		Aa-B	6.92	7.3	15"	12"	262°	245°	1991	1834		10h19m52.3s	-51°34'04"	**34**
34	237959	Vel	**RMK 13**		AB	4.49	7.19	7.1"	6"	102°	104°	2000	1834	B3IIIe	10h20m54.8s	-56°02'36"	**34**
34	237959	Vel			AC	4.49	9.22	36.2"	30"	191°	188°	2000	1834		10h20m54.8s	-56°02'36"	**34**
34	238059	Vel	**HJ 4319**			7.3	10.5	10.8"	10"	119°	130°	1968	1834	M2I+B3III	10h26m15.6s	-53°53'29"	**34**
34	222057	Vel	**RST 4928**			6.7	8.7	0.5"	0.6"	313°	315°	1949	1943	F0IV/V	10h26m44.0s	-47°39'36"	**34**
34	238146	Vel	**HJ 4329**			4.95	8.58	73.9"	15"	103°	10°	2000	1834	F6V	10h31m21.6s	-53°42'54"	**34**
34	222126	Vel	**PZ 3**			5.64	5.97	13.6"	14.9"	219°	223°	1999	1826	B8	10h31m57.4s	-45°04'00"	**34**
34	222136	Vel	**HJ 4330**		Aa-B	5.15	8.55	40.4"	30"	163°	161°	1999	1835		10h32m56.9s	-47°00'12"	**34**
34	238309	Vel	**Δ 95**		AB	4.38	6.06	51.7"	53.3"	105°	105°	2000	1826	G2-3Ib	10h39m18.4s	-55°36'12"	**34**
34	222321	Vel	**μ Vel**	R 155		2.82	5.65	2"	2.8"	52°	55°	2001	1880	G5III+G2V	10h46m46.2s	-49°25'13"	**34**
34	222454	Vel	**HJ 4388**			6.83	11.5	34.7"		206°		1930			10h57m37.8s	-45°52'33"	**34**
34	256326	Vol	**I 351**			6.5	10	16.4"	10.5"	333°	332°	1998	1893	K1III	06h40m57.6s	-71°46'31"	**34**
34	256374	Vol	**γ Vol**	Δ 42		3.86	5.43	14.4"	15.7"	296°	302°	2002	1826	K0III F2V	07h08m44.9s	-70°29'55"	**34**
34	256428	Vol	**HJ 3997**			7.02	7.07	1.9"	1"	306°	280°	1996	1835	B9IV B9IV	07h35m21.7s	-74°16'30"	**34**
34	250128	Vol	**ε Vol**	RMK 7		4.38	7.31	6"	6"	24°	44°	1999	1826	B6IV	08h07m55.8s	-68°37'01"	**34**
34	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**34**
34	256497	Vol	**κ Vol**	BSO 17	AB	5.31	5.59	64.7"	60"	58°	53°	2002	1835	B9III-IV	08h19m49.0s	-71°30'53"	**34**
34	256497	Vol		BSO 17	AC	5.31	7.67	98.8"	101"	48°	46°	2002	1850		08h19m49.0s	-71°30'53"	**34**
34	256497	Vol		BSO 17	BC	5.59	7.67	36.7"	34.2"	32°	29°	2002	1835		08h19m49.0s	-71°30'53"	**34**

CHART 35

35	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**35**
35	257206	Aps	**I 236**			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	**35**
35	257341	Aps	**I 333**			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	**35**
35	257380	Aps	**δ 1 Aps**	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	**35**
35	234623	Car	**HJ 3884**			6.9	10.8	25.2"	25"	282°	276°	1999	1837	G8III	06h37m36.2s	-55°20'37"	**35**
35	234683	Car	**Δ 34**			6.44	6.66	129.5"	130.2"	192°	185°	1999	1826	B5/6V	06h44m12.8s	-54°41'44"	**35**
35	234704	Car	**I 157**			6.63	9.34	1.9"	2"	349°	10°	1991	1897	G6III	06h46m41.6s	-54°41'42"	**35**
35	234890	Car	**Δ 39**			5.83	6.78	1.4"	2.8"	86°	79°	1997	1826	B9IV	07h03m15.1s	-59°10'41"	**35**
35	235017	Car	**HDO 304**			6.8	10	15"	15"	350°	350°	1901	1901	A1/2V	07h12m46.3s	-57°29'27"	**35**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
35	235110	Car	**RMK 6**			6	6.51	9.1"	12"	26°	25°	2000	1826	F0-2IV-V	07h20m21.4s	-52°18'40"	**35**
35	235532	Car	**FIN 109**			6.64	8.39	0.9"	1.2"	216°	215°	1991	1930	K0III A1V	07h48m19.5s	-56°28'16"	**35**
35	235686	Car	**Δ 60**			6.1	7.86	40.2"	40.4"	162°	160°	1999	1837	B2IV-V	08h01m23.0s	-54°30'56"	**35**
35	250101	Car	**Δ 62**			6.22	7.8	86.4"	87.4"	259°	266°	2000	1826	B2.5Vn	08h04m42.9s	-62°50'11"	**35**
35	250164	Car	**RMK 8**			5.27	7.62	3.6"	3.7"	67°	57°	2000	1851	A2V	08h15m15.9s	-62°54'56"	**35**
35	235872	Car	**HJ 4084**		AB	6.5	9.81	42.2"	60"	150°	159°	2000	1836	F5V	08h17m58.5s	-59°10'37"	**35**
35	236105	Car	**HDS 1234**			5.25	8.9	0.6"	0.6"	294°	294°	1991	1991	B3V+...	08h35m15.5s	-58°13'29"	**35**
35	256599	Car	**HJ 4206**		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	**35**
35	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	**35**
35	250672	Car	**HJ 4241**			6.6	10.6	34"	30"	305°	303°	2000	1835	A0V	09h42m13.0s	-66°54'53"	**35**
35	250750	Car	**RMK 12**			6.85	8.87	9.2"	12"	213°	208°	2000	1834	B9V	09h55m05.6s	-69°11'20"	**35**
35	250844	Car	**I 13**			6.1	11.5	26"		40°		1901		A0V	10h09m30.2s	-68°40'58"	**35**
35	256750	Car	**Δ 99**		AB	6.26	6.47	62.8"	68.7"	75°	74°	2000	1826	A5IV-V	10h44m20.0s	-70°51'35"	**35**
35	256750	Car			AC	6.26	9.64	42.2"	35"	44°	39°	2000	1835	A3	10h44m20.0s	-70°51'35"	**35**
35	256750	Car			BC	7.5	11	34.2"	35"	294°	282°	2000	1835	A6IV	10h44m20.0s	-70°51'35"	**35**
35	256770	Car	**HJ 4383**			6.38	7.09	1.5"	0.5"	288°	276°	1991	1835	B6V B6V	10h53m42.1s	-70°43'13"	**35**
35	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**35**
35	257060	Cha	**HJ 4590**	S Cha		6.58	9.22	22.1"	25"	133°	137°	2000	1837	F6V	13h33m13.6s	-77°34'11"	**35**
35	252835	Cir	**MLO 58**			6.73	9.98	1.07"		297°		1991			14h39m31.7s	-68°12'12"	**35**
35	233476	Dor	**FIN 87**			6.22	8.83	0.8"	0.6"	106°	154°	2001	1929	F7IV-V	04h18m40.0s	-52°51'36"	**35**
35	233512	Dor	**SLR 6**			7.11	9.05	0.9"	0.8"	105°	98°	1991	1892	F0V	04h25m29.7s	-53°06'42"	**35**
35	249281	Dor	**I 276**			6.66	6.95	1.4"	0.5"	161°	210°	2001	1898	F0IV-V	05h26m59.8s	-68°37'21"	**35**
35	216667	Hor	**RST 98**		AB	6.67	10	1.6"	0.8"	316°	316°	2001	1930	F3V	04h08m33.9s	-45°51'53"	**35**
35	216749	Hor	**HJ 3643**			5.45	8.64	70.4"	70"	115°	116°	1999	1836	K2III	04h19m16.7s	-44°16'05"	**35**
35	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	**35**
35	255919	Hyi	**HDS 357**			6.79	10.56	0.5"	0.5"	132°	132°	1991	1991	F6V	02h45m37.0s	-71°14'09"	**35**
35	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	**35**
35	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	**35**
35	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	**35**
35	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	**35**
35	256849	Mus	**HJ 4450**			6.87	10.89	20.9"	17.5"	40°	37°	2000	1835	B7IV	11h31m47.9s	-73°54'10"	**35**
35	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	**35**
35	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	**35**
35	257003	Mus	**CHR 228**			6.05	8.57	0.6"	0.6"	163°	165°	1993	1990	B1.5IIIne	13h03m05.3s	-71°28'33"	**35**
35	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	**35**
35	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	**35**
35	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	**35**
35	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	**35**
35	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	**35**
35	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	**35**
35	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	**35**
35	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	**35**
35	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	**35**
35	216939	Pic	**HJ 3681**			6.76	10.6	49.6"	35"	246°	263°	1999	1834	G8III+	04h41m46.2s	-47°15'34"	**35**
35	233709	Pic	**ι Pic**	Δ 18		5.61	6.24	12.6"	12.6"	59°	60°	2002	1826	F0IV F4V:	04h50m55.3s	-53°27'41"	**35**
35	233965	Pic	**θ Pic**	Δ 20	AB-C	6.24	6.74	38.1"	38.5"	289°	284°	2002	1826	A0V A2V	05h24m46.3s	-52°18'59"	**35**
35	233965	Pic		I 345		6.9	7.2	0.1"	0.5"	49°	197°	1990	1901	A0V	05h24m46.3s	-52°18'59"	**35**
35	217368	Pic	**HJ 3767**			5.46	11.08	25.9"		257°	223°	1933	1835	G3IV	05h30m09.5s	-47°04'41"	**35**
35	217368	Pic		Δ 21	AD	5.52	6.68	197.8"	197.2"	271°	264°	2000	1837	G3IV	05h30m09.5s	-47°04'41"	**35**
35	234026	Pic	**HJ 3777**		AB	6.48	10.4	58.6"	51.8"	342°	349°	1999	1834	F8V	05h33m44.4s	-54°54'08"	**35**
35	217598	Pic	**HJ 3816**			6.75	11.6	22.9"		180°		1913			05h53m09.6s	-47°57'19"	**35**
35	234224	Pic	**HJ 3822**		AB	6.63	7.58	55.6"	65"	303°	304°	2000	1836	K5-M0III	05h57m14.4s	-53°25'32"	**35**
35	249475	Pic	**I 3**			7.09	7.58	1"	0.8"	5°	350°	1991	1894	B9.5V	06h12m32.2s	-61°28'26"	**35**
35	234418	Pic	**Δ 27**		AB	6.49	7.61	34.4"	58"	233°	223°	1999	1826	G0V F8	06h16m18.8s	-59°12'51"	**35**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
35	249526	Pic	**JSP 101**			6.52	10.6	16.2"	16"	50°	51°	1977	1930	G1V	06h22m30.9s	-60°13'07"	**35**
35	234564	Pic	**μ Pic**	HJ 3874		5.63	9.33	2.5"	2.3"	230°	228°	1991	1836	B9Ve	06h31m58.3s	-58°45'14"	**35**
35	249604	Pic	**I 5**			6.32	8.77	0.3"	1.7"	255°	270°	1999	1894	G1-2V	06h38m00.3s	-61°32'00"	**35**
35	217706	Pup	**HJ 3834**		AB	6.02	8.98	5.7"	1.1"	216°	246°	1999	1837	F5V	06h04m40.1s	-45°04'42"	**35**
35	217706	Pup			AC	6.02	6.39	196.2"	173.8"	321°	320°	1999	1854	G01V-V	06h04m40.1s	-45°04'42"	**35**
35	217893	Pup	**HJ 3856**			6.7	9.7	34"	30"	4°	5°	1999	1835	K1III	06h22m55.2s	-45°37'44"	**35**
35	217922	Pup	**I 156**			5.87	8.07	1"	1.6"	125°	131°	1999	1894	B9V	06h25m43.7s	-48°10'37"	**35**
35	234539	Pup	**Δ 30**		AB-CD	5.97	7.98	11.9"	14"	312°	310°	1999	1826		06h29m49.0s	-50°14'21"	**35**
35	234539	Pup		R 65	AB	5.97	6.15	0.7"	0.7"	266°	88°	2001	1879	F2V	06h29m49.0s	-50°14'21"	**35**
35	218093	Pup	**Δ 31**			5.14	7.38	12.9"	12.3"	320°	319°	1999	1826	G8III	06h38m37.6s	-48°13'13"	**35**
35	218186	Pup	**HJ 3895**			7.11	10.89	25.7"	30"	66°	63°	1999	1835	K3III	06h46m44.6s	-47°48'16"	**35**
35	218197	Pup	**I 158**			6.96	10.38	1.8"	1"	187°	185°	1991	1897	G8:III+	06h47m22.8s	-48°33'49"	**35**
35	218236	Pup	**I 159**			6.5	11	6.6"	4"	323°	315°	1966	1897	K5-M0III	06h49m57.7s	-45°27'02"	**35**
35	218421	Pup	**Δ 38**		AB	5.61	6.68	20.9"	21.5"	126°	119°	1999	1826	G3V K0V	07h03m57.3s	-43°36'26"	**35**
35	218421	Pup			AC	5.61	8.83	184.9"	184.8"	335°	334°	1999	1900	G3V	07h03m57.3s	-43°36'26"	**35**
35	235458	Pup	**Δ 55**			6.69	7.59	51.9"	60"	133°	134°	1999	1836	F8V G0	07h44m12.5s	-50°27'23"	**35**
35	218987	Pup	**HU 1428**	HU 1428		7.59	8.72	0.5"	0.4"	33°	354°	1997	1913	B7IV	07h46m58.5s	-46°48'54"	**35**
35	218992	Pup	**Δ 56**			6.89	7.84	49.5"	53"	178°	170°	1999	1826	B1/2Ib/II	07h47m07.2s	-41°30'13"	**35**
35	219035	Pup	**JC 11**		AB	4.06	8.79	59.1"	60"	104°	103°	1999	1846	B0III	07h49m14.3s	-46°22'23"	**35**
35	219244	Pup	**RST 297**			6.84	11.3	3.8"		258°		1929			07h59m00.7s	-48°22'35"	**35**
35	219249	Pup	**Δ 59**			6.23	6.24	16.5"	20"	48°	43°	1999	1834	B2IV-V	07h59m12.3s	-49°58'37"	**35**
35	219265	Pup	**HJ 4032**		AB-C	6.71	9.38	28.8"	30.4"	351°	351°	1999	1836		07h59m45.9s	-47°18'13"	**35**
35	219507	Pup	**Δ 63**			6.55	7.48	5.5"	6"	80°	81°	1999	1836	B7V	08h09m47.7s	-42°38'27"	**35**
35	219569	Pup	**HJ 4057**			4.77	9.81	26.3"	30"	299°	292°	1999	1835	A5Ib	08h11m25.9s	-42°59'14"	**35**
35	248764	Ret	**Δ 12**		A-BC	6.68	8.95	19.1"	14"	104°	98°	1999	1826	F5	03h15m11.0s	-64°26'38"	**35**
35	233252	Ret	**HJ 3592**			6.47	9.26	5"	4"	17°	4°	1993	1834	K1III	03h44m33.9s	-54°16'26"	**35**
35	248986	Ret	**θ Ret**	RMK 3		6.04	7.67	4.3"	6.4"	2°	6°	2000	1835	B9III-IV	04h17m40.3s	-63°15'19"	**35**
35	249054	Ret	**HJ 3670**			5.9	9.3	31.8"	32"	100°	95°	1998	1836	K1III	04h33m33.9s	-62°49'25"	**35**
35	248346	Tuc	**κ Tuc**	HJ 3423	AB	5	7.74	5"	2"	322°	12°	1999	1834	F6IV	01h15m46.3s	-68°52'32"	**35**
35	248346	Tuc		HJ 3423	A-CD	5	7.85	319.5"	319.7"	310°	310°	1991	1874		01h15m46.3s	-68°52'32"	**35**
35	256326	Vol	**I 351**			6.5	10	16.4"	10.5"	333°	332°	1998	1893	K1III	06h40m57.6s	-71°46'31"	**35**
35	256374	Vol	**γ Vol**	Δ 42		3.86	5.43	14.4"	15.7"	296°	302°	2002	1826	K0III F2V	07h08m44.9s	-70°29'55"	**35**
35	256428	Vol	**HJ 3997**			7.02	7.07	1.9"	1"	306°	280°	1996	1835	B9IV B9IV	07h35m21.7s	-74°16'30"	**35**
35	250128	Vol	**ε Vol**	RMK 7		4.38	7.31	6"	6"	24°	44°	1999	1826	B6IV	08h07m55.8s	-68°37'01"	**35**
35	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**35**
35	256497	Vol	**κ Vol**	BSO 17	AB	5.31	5.59	64.7"	60"	58°	53°	2002	1835	B9III-IV	08h19m49.0s	-71°30'53"	**35**
35	256497	Vol		BSO 17	AC	5.31	7.67	98.8"	101"	48°	46°	2002	1850		08h19m49.0s	-71°30'53"	**35**
35	256497	Vol		BSO 17	BC	5.59	7.67	36.7"	34.2"	32°	29°	2002	1835		08h19m49.0s	-71°30'53"	**35**

CHART 36

36	257167	Aps	**I 326**		AB	7.14	9.96	2.3"	2"	117°	124°	1991	1898	G6II+A3/7	14h31m50.1s	-76°16'26"	**36**
36	257206	Aps	**I 236**			5.87	7.59	2.2"	0.6"	123°	90°	1996	1891	G5III	14h53m13.6s	-73°11'24"	**36**
36	257341	Aps	**I 333**			6.92	7.53	0.7"	0.8"	332°	312°	1996	1897	F3IV	15h59m55.1s	-78°01'39"	**36**
36	257380	Aps	**δ 1 Aps**	BSO 22	AB	4.9	5.41	103.3"	90"	10°	13°	2000	1835	M5IIIb	16h20m20.8s	-78°41'45"	**36**
36	257421	Aps	**HDO 255**			6.67	10.6	2.4"	2.8"	253°	235°	1991	1897	G8III	16h40m47.4s	-72°17'58"	**36**
36	257448	Aps	**I 100**			6.92	8.43	0.9"	0.8"	177°	135°	1991	1896	B9III	16h59m54.7s	-73°25'21"	**36**
36	253870	Aps	**I 104**			6.67	9.72	0.9"	2"	129°	135°	1991	1896	G0-1IV:	17h20m12.7s	-70°02'45"	**36**
36	257571	Aps	**HDO 284**			5.96	9.14	2.3"	1"	260°	210°	1991	1891	F5V	18h12m34.0s	-73°40'23"	**36**
36	256599	Car	**HJ 4206**		AB-C	5.32	9.55	7"	5"	345°	339°	2000	1835		09h17m25.2s	-74°53'39"	**36**
36	256599	Car			AB-D	5.5	10.3	46"	40"	354°	348°	2000	1835		09h17m25.2s	-74°53'39"	**36**
36	250750	Car	**RMK 12**			6.85	8.87	9.2"	12"	213°	208°	2000	1834	B9V	09h55m05.6s	-69°11'20"	**36**
36	250844	Car	**I 13**			6.1	11.5	26"		40°		1901		A0V	10h09m30.2s	-68°40'58"	**36**
36	256750	Car	**Δ 99**		AB	6.26	6.47	62.8"	68.7"	75°	74°	2000	1826	A5IV-V	10h44m20.0s	-70°51'35"	**36**
36	256750	Car			AC	6.26	9.64	42.2"	35"	44°	39°	2000	1835	A3	10h44m20.0s	-70°51'35"	**36**
36	256750	Car			BC	7.5	11	34.2"	35"	294°	282°	2000	1835	A6IV	10h44m20.0s	-70°51'35"	**36**
36	256770	Car	**HJ 4383**			6.38	7.09	1.5"	0.5"	288°	276°	1991	1835	B6V B6V	10h53m42.1s	-70°43'13"	**36**
36	251195	Car	**HJ 4393**			6.6	8.67	8.7"	10"	132°	131°	2000	1835	B7V	10h57m20.2s	-69°02'17"	**36**
36	258592	Cha	**δ 1 Cha**	I 294		6.15	6.49	0.8"	0.6"	85°	60°	1996	1898	K0III	10h45m16.3s	-80°28'11"	**36**

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Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
36	257060	Cha	**HJ 4590**	S Cha		6.58	9.22	22.1"	25"	133°	137°	2000	1837	F6V	13h33m13.6s	-77°34'11"	**36**
36	249281	Dor	**I 276**			6.66	6.95	1.4"	0.5"	161°	210°	2001	1898	F0IV-V	05h26m59.8s	-68°37'21"	**36**
36	232490	Eri	**Δ 5**			5.78	5.9	11.4"	2.5"	190°	343°	2002	1825	K0V K5V	01h39m47.7s	-56°11'47"	**36**
36	216209	Eri	**HJ 3556**		AB-C	6.42	8.76	3.7"	1.5"	190°	233°	2002	1835	F5V	03h12m25.8s	-44°25'11"	**36**
36	216209	Eri		JC 8	AB	6.42	7.36	0.7"	0.5"	170°	190°	2002	1895	F7III+A0V	03h12m25.8s	-44°25'11"	**36**
36	232717	Hor	**HJ 3497**			5.98	10.63	36.5"	35"	83°	82°	2000	1836	K5III	02h19m54.3s	-55°56'41"	**36**
36	233106	Hor	**HJ 3575**		AB	6.7	10.2	35.8"	31.6"	48°	42°	1999	1835	A0V	03h24m36.2s	-51°03'45"	**36**
36	255904	Hyi	**HJ 3522**		AB	6.9	11	39.7"	35"	286°	300°	1999	1836	F5V	02h33m16.6s	-75°53'36"	**36**
36	255919	Hyi	**HDS 357**			6.79	10.56	0.5"	0.5"	132°	132°	1991	1991	F6V	02h45m37.0s	-71°14'09"	**36**
36	255962	Hyi	**HJ 3568**			5.7	7.7	15.3"	14.5"	224°	222°	2000	1836	F2II-III	03h07m32.2s	-78°59'21"	**36**
36	256153	Men	**HJ 3741**			6.46	10.73	49.5"	42.7"	111°	114°	1999	1835	K5-M0III	05h00m13.2s	-78°18'00"	**36**
36	256152	Men	**HRG 2**			7.37	7.97	0.8"	0.8"	169°	167°	1991	1883	B9.5V	05h01m09.4s	-74°20'27"	**36**
36	256339	Men	**HJ 3911**		AB	7.12	9.95	21.9"	19.6"	48°	43°	1998	1836	G8III	06h47m28.8s	-76°51'05"	**36**
36	256849	Mus	**HJ 4450**			6.87	10.89	20.9"	17.5"	40°	37°	2000	1835	B7IV	11h31m47.9s	-73°54'10"	**36**
36	256934	Mus	**FIN 198**			6.76	10.8	2.5"	2.1"	102°	108°	1991	1933	A4/5V	12h22m15.0s	-73°30'13"	**36**
36	256967	Mus	**I 296**			6.6	9.1	2"	1.9"	271°	270°	1991	1898	B8Vne	12h39m14.6s	-75°22'14"	**36**
36	257078	Mus	**HJ 4598**			6.9	11.7	13.1"		46°		1871			13h41m39.5s	-75°06'55"	**36**
36	258356	Oct	**R 38**			6.63	8.08	1.9"	1.6"	252°	236°	1993	1871	B9.5IV	03h42m32.8s	-85°15'43"	**36**
36	258632	Oct	**HJ 4490**			6.17	8.97	24.8"	25"	146°	147°	2000	1837	K3III	12h02m20.3s	-85°37'54"	**36**
36	258654	Oct	**ι Oct**	RST 2819		5.94	6.86	0.7"	0.7"	239°	227°	1991	1935	K0III	12h54m58.8s	-85°07'24"	**36**
36	258768	Oct	**HJ 4912**			6.62	10.68	24.8"	25"	123°	124°	2000	1835	B2V	17h28m44.0s	-82°46'47"	**36**
36	258914	Oct	**λ Oct**	HJ 5278		5.56	7.26	3.5"	3.4"	63°	83°	2002	1835	G8-K0III	21h50m54.6s	-82°43'08"	**36**
36	257993	Oct	**HJ 5306**			5.97	10.57	34.7"	30"	71°	71°	1999	1835	F3III	22h03m03.8s	-76°07'07"	**36**
36	258036	Oct	**Δ 238**			6.19	8.85	20.8"	14"	80°	90°	1999	1826	G3V	22h25m51.2s	-75°00'56"	**36**
36	254196	Pav	**HDO 289**			6.4	9.9	2"	3.8"	305°	290°	1968	1897	B9V	18h18m01.0s	-68°13'45"	**36**
36	257601	Pav	**HDS 2631**			6.08	9.86	0.7"	0.7"	49°	49°	1991	1991	K0III	18h32m55.3s	-73°57'57"	**36**
36	257630	Pav	**R 314**			6.2	8.08	1.9"	1"	271°	260°	1991	1880	B9.5IV-V	18h49m43.7s	-72°59'45"	**36**
36	248097	Phe	**HJ 5437**			6.55	9.85	1.6"	2.5"	331°	296°	2001	1836	G0/2IV	00h00m34.4s	-53°05'52"	**36**
36	232152	Phe	**ξ Phe**	HJ 3387		5.72	9.95	13.1"	15"	253°	252°	1999	1834	ApSrEuCr	00h41m46.4s	-56°30'04"	**36**
36	215208	Phe	**HJ 3390**			7.09	10.25	14.3"	15"	313°	314°	2000	1834	K0III	00h43m17.5s	-45°10'53"	**36**
36	215270	Phe	**I 47**			7.45	7.95	0.8"	1"	23°	0°	2001	1895	F2V+F5V	00h51m52.2s	-43°42'32"	**36**
36	215365	Phe	**β Phe**	SLR 1	AB	4.1	4.19	0.3"	0.9"	258°	26°	1999	1891	G8IIIv	01h06m05.0s	-46°43'06"	**36**
36	232306	Phe	**ζ Phe**	RMK 2	AB-C	4	8.23	6.8"	4"	242°	239°	2000	1835	B6V+B9V	01h08m23.1s	-55°14'45"	**36**
36	232306	Phe		RST 1205	AB	4.02	6.8	0.6"	0.6"	95°	22°	1999	1931	B6V+B9V	01h08m23.1s	-55°14'45"	**36**
36	215567	Phe	**I 51**			7.14	9.35	1.6"	1.4"	8°	15°	1991	1896	G8IV	01h34m20.7s	-45°41'28"	**36**
36	248023	Phe	**I 305**			6.88	10.88	3.14"		122°		1991			23h48m06.9s	-50°53'28"	**36**
36	248764	Ret	**Δ 12**		A-BC	6.68	8.95	19.1"	14"	104°	98°	1999	1826	F5	03h15m11.0s	-64°26'38"	**36**
36	233252	Ret	**HJ 3592**			6.47	9.26	5"	4"	17°	4°	1993	1834	K1III	03h44m33.9s	-54°16'26"	**36**
36	248986	Ret	**θ Ret**	RMK 3		6.04	7.67	4.3"	6.4"	2°	6°	2000	1835	B9III-IV	04h17m40.3s	-63°15'19"	**36**
36	249054	Ret	**HJ 3670**			5.9	9.3	31.8"	32"	100°	95°	1998	1836	K1III	04h33m33.9s	-62°49'25"	**36**
36	248201	Tuc	**β Tuc**	I 260	CD	4.6	6.54	0.5"	0.6"	270°	335°	2001	1895	A2V+A7V	00h31m32.7s	-62°57'30"	**36**
36	248243	Tuc	**COO 3**			6.31	8.01	2.3"	3"	66°	90°	2001	1894	F5III-IV	00h44m31.7s	-62°29'51"	**36**
36	248269	Tuc	**λ 1 Tuc**	Δ 2		6.7	7.35	20.4"	22.5"	81°	77°	1998	1834	F7IV-V	00h52m24.5s	-69°30'14"	**36**
36	248346	Tuc	**κ Tuc**	HJ 3423	AB	5	7.74	5"	2"	322°	12°	1999	1834	F6IV	01h15m46.3s	-68°52'32"	**36**
36	248346	Tuc		HJ 3423	A-CD	5	7.85	319.5"	319.7"	310°	310°	1991	1874		01h15m46.3s	-68°52'32"	**36**
36	248350	Tuc	**HJ 3426**			6.41	8.27	2.4"	2"	330°	342°	1999	1834	A0V	01h17m03.8s	-66°23'52"	**36**
36	255222	Tuc	**δ Tuc**	HJ 5334	Aa-B	4.49	8.73	6.9"	8"	280°	283°	2000	1835		22h27m20.0s	-64°57'59"	**36**
36	255316	Tuc	**HJ 5361**			6.49	10.8	80.6"		41°		1916			22h47m35.7s	-65°33'37"	**36**
36	255339	Tuc	**I 340**			6.33	9.03	0.9"	1.2"	337°	20°	1999	1900	K0III	22h52m10.0s	-63°11'20"	**36**
36	255453	Tuc	**Δ 247**			6.87	8.17	50"	30"	293°	278°	2002	1826	K1IIICN	23h18m00.8s	-61°00'14"	**36**
36	256326	Vol	**I 351**			6.5	10	16.4"	10.5"	333°	332°	1998	1893	K1III	06h40m57.6s	-71°46'31"	**36**
36	256374	Vol	**γ Vol**	Δ 42		3.86	5.43	14.4"	15.7"	296°	302°	2002	1826	K0III F2V	07h08m44.9s	-70°29'55"	**36**

Cht No.	SAO No.	Con	Pri ID	Sec ID	Star Pair	Pri Mag	Sec Mag	Sep Ep 2	Sep Ep 1	Pos Ang Ep 2	Pos Ang Ep 1	Year Ep 2	Year Ep 1	Spect	RA (2000)	Dec (2000)	Cht No.
36	256428	Vol	**HJ 3997**			7.02	7.07	1.9"	1"	306°	280°	1996	1835	B9IV B9IV	07h35m21.7s	-74°16'30"	**36**
36	256489	Vol	**I 9**			7.32	7.48	0.8"	0.9"	103°	100°	1996	1894	A8III	08h14m42.6s	-73°48'26"	**36**
36	256497	Vol	**κ Vol**	BSO 17	AB	5.31	5.59	64.7"	60"	58°	53°	2002	1835	B9III-IV	08h19m49.0s	-71°30'53"	**36**
36	256497	Vol		BSO 17	AC	5.31	7.67	98.8"	101"	48°	46°	2002	1850		08h19m49.0s	-71°30'53"	**36**
36	256497	Vol		BSO 17	BC	5.59	7.67	36.7"	34.2"	32°	29°	2002	1835		08h19m49.0s	-71°30'53"	**36**

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