

Here's the constellations by seasonal catalogue:

(Constellations are highlighted by season: brown, autumn; blue, winter; green, spring & yellow, summer).

Andromeda	0 - 6 hrs	Circinus	6 -12 hrs	Lacerta	18-24 hrs	Pisces Austrinus	18-24 hrs
Antlia	6 -12	Columba	0 - 6	Leo	6 -12	Puppis	6 -12
Apus	12-18	Coma Berenices	12-18	Leo Minor	6 -12	Pyxis	6 -12
Aquarius	18-24	Corona Australis	18-24	Lepus	0 - 6	Reticulum	0 - 6
Aquila	18-24	Corona Borealis	12-18	Libra	12-18	Sagitta	18-24
Ara	12-18	Corvus	12-18	Lupus	12-18	Sagittarius	18-24
Aries	0 - 6	Crater	6 -12	Lynx	6 -12	Scorpius	12-18
Auriga	0 - 6	Crux	12-18	Lyra	18-24	Sculptor	0 - 6
Bootes	12-18	Cygnus	18-24	Mensa	0 - 6	Scutum	18-24
Caelum	0 - 6	Delphinus	18-24	Microscopium	18-24	Serpens Caput Serpens Cauda	12-18 12-18
Camelopardalis	0 - 6	Dorado	0 - 6	Monoceros	6 -12	Sextans	6 -12
Cancer	6 -12	Draco	12-18	Musca	6 -12	Taurus	0 - 6
Canes Venatici	12-18	Equuleus	18-24	Norma	12-18	Telescopium	18-24
Canis Major	6 -12	Eridanus	0 - 6	Octans	18-24	Triangulum	0 - 6
Canis Minor	6 -12	Fornax	0 - 6	Ophiuchus	12-18	Triangulum Australe	12-18
Capricornus	18-24	Gemini	6 -12	Orion	0 - 6	Tucana	0 - 6
Carina	6 -12	Grus	18-24	Pavo	18-24	Ursa Major	6 -12
Cassiopeia	0 - 6	Hercules	12-18	Pegasus	18-24	Ursa Minor	12-18
Centaurus	12-18	Horologium	0 - 6	Perseus	0 - 6	Vela	6 -12
Cepheus	18-24	Hydra	6 -12	Phoenix	0 - 6	Virgo	12-18
Cetus	0 - 6	Hydrus	0 - 6	Pictor	0 - 6	Volans	6 -12
Chamaeleon	6 -12	Indus	18-24	Pisces	0 - 6	Vulpecula	18-24

Here's the list of doubles; extras mag 6.5 primary or brighter, no notes:

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
And 23028+4404 STF2973	1991	40	7.6"	6.37	10.10	B2V		
And 23348+3801 BU 388	1908	333	20.3	6.18	11.8	K7III		
And 23476+4650 BU 995	1991	249	0.9	6.19	8.59	B3IV		
And 23509+4730 A 794 BC	1978	14	0.8	10.2	10.9	(232" from A; what mag A?)		
And 00046+4206 STT 514 Aa-B	1997	169	5.3	6.11	9.7			
And 00134+2659 STT 2 AB-C	1989	223	17.8	6.30	10.37			
And 00164+4336 HJ 1947	1991	75	9.0	6.12	10.14	A2VpSi		
And 00167+3638 STF 19	1999	141	2.4	7.15	9.65	A2V		
And 00187+4347 STT 5	1958	241	6.2	6.0	9.7	B8V		
And 00568+3830 HJ 1057 AC	1924	127	34.2	3.87	11.4			
And 01328+3551 STF 133 AB	1991	191	3.1	6.60	9.85	K3III		
And 01562+3715 BU 1368 Aa	1934	79	18.6	5.68	11.93	K0III		
And 01562+3715 STF 4 AB	1991	298	199.5	5.69	5.89	K0III gM0	(56 And; which members you already have notes for?)	
And 02140+4729 STF 228	1999	283	1.0	6.59	7.24	F4V		
And 02355+3940 HJ 1120 AB	1959	83	16.3	6.3	10.8	B9pHgMn		
	1959	321	41.5	6.3	10.6			
And 02383+3744 BU 305 AC	1959	204	20.8	6.16	11.37	FOX 127		
	1934	262	8.5	6.16	11.3	F5IV		
And 23400+3739 STT 501	1998	163	15.0	6.53	9.7	F2IV		

0-6 hours (autumn)		year	p.a.	sep	mag1	mag2	spec	class	notes
Ari	02305+2514 STF 271 AB	1972	181	12.5	5.9	10.4	F6IV		
Ari	02493+1728 STF 311 AC	1969	110	25.1	5.3	10.72		(part of Pi Ari, you have --what? --AB?)	
Ari	02500+2716 H 116 Aa-C	1991	229	28.4	3.7	10.6	B8	1	
Ari	02500+2716 STT 47 Aa-B	1991	291	31.1	3.63	10.8		(41 Ari?)	
Ari	03054+2515 STF 346 AB-C	1988	360	4.6	5.46	10.8		(part of 52 Ari; you have notes for -- what? -- AB?)	
Ari	03212+2109 COU 259	1991	228	1.0	5.40	8.12	B5IV		
Aur	Aur05020+4349 BU 554 AC	1989	276	42.9	2.99	11.26			
Aur	05133+3720 SEI 105	1895	354	16.7	6.48	11.0	F6V		
Aur	05154+3241 STF 653 AB	1909	352	11.1	5.02	11.1	A9IV		
	AC	1991	225	14.1	5.01	7.94	F3V	(14 Aur; you have notes for either AB or AC)	
Aur	05167+4600 HJ 2256 AF	1958	141	126.7	2.1	11.1			
Aur	05167+4600 SHJ 51 AG	1895	348	484.6	2.1	10.1		(Alpha Aur; Add AF or AG? Which members have notes already?)	
Aur	05247+3723 BU 888 AB	1922	167	8.7	4.97	12.0	K3III		
Aur	05514+3207 ES 415	1934	18	14.7	6.25	12.0	M3IIIv:		
Aur	06021+3843 STT 127	1991	332	1.6	7.44	10.42	G5		
Aur	06050+3758 BU 893 AB	1925	130	18.0	6.34	12.7	K0III+A2		
Aur	06396+2816 STT 152	1995	35	0.9	6.24	7.86	B7III		7
Aur	06508+4147 ENG 27 AB	1983	90	40.9	5.02	10.0	K3III		
Aur	07220+3646 BU 901 AB	1934	11	11.4	5.13	11.7	K0III		

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cae 05044-3529 JC 9	1999	306	3.2	4.55	8.30	K3III		
Cam 03335+5846 STF 396 AB	1991	244	20.5	6.45	7.90			
Cam 03571+6107 STT 67	1991	49	1.7	5.27	8.16	K3I-II		
Cam 04480+5645 BU 1387 AB	1958	201	13.5	5.34	13.2	A3m		
Cam 04573+5345 STF 610 AB-C	1933	240	25.9	4.47	11.3			2
Cam 05016+6105 HU 1093	1991	12	5.8	6.03	11.5	F4V		
Cam 05047+7404 STT 89	1995	300	0.4	6.44	7.58	A1V		
Cam 05061+5858 STF 13 AB	1991	9	178.7	5.22	6.08	B2.5Ve		
Cam 05146+7628 HU 1097	1991	122	1.9	6.43	9.49	A0V		
Cam 05373+6409 HU 1107	1991	56	1.5	6.20	9.81	A0V		
Cam 05511+6545 STF 780 AC	1991	149	12.3	6.6	10.0		(you have notes for AB)	
Cam 06282+7032 STT 136	1937	81	5.5	6.0	11.0	A4V		
Cam 07223+5954 STF1055	1991	308	2.1	6.43	10.27	A8m		
Cam 08222+7449 STT 188	1991	195	10.5	6.40	10.32	G8III	G0V	
Cam 08368+7443 STT 192	1991	233	1.5	6.39	9.70	A2m		
Cam 13124+8028 KUI 61	1991	182	1.0	6.47	9.13	K0Ib		
Cas 23206+6213 BU 278 AB	1934	175	12.8	6.39	11.6	K2III		
Cas 23248+6217 H 24 CD	1912	38	9.4	8.7	9.7		(215" from mag 5.0 star)	
Cas 23388+6208 HJ 1896	1912	116	16.6	6.58	11.1	A5III		

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cas 00272+4959 STF 30 AB	1991	311	14.3	6.95	9.01	B9III		
Cas 00303+5959 BU 1094 AB	1963	270	0.5	6.07	8.55	B9IIIIn		
Cas 00318+5431 STT 12	1999	196	0.4	5.49	5.49	B9V		
Cas 00392+4921 STT 16	1998	22	12.8	5.7	10.2	K4III		
Cas 00447+4817 BU 231	1960	302	33.6	4.54	11.2	B5IIIe		
Cas 00453+5513 BU 492 AB	1964	163	2.0	5.42	11.5	A2Vs		
Cas 00457+7459 H 122	1987	162	35.6	5.66	11.23	A2IV		
Cas 00491+5749 STF 60 BH	1928	2	10.9	7.2	8.6	(part of Eta Cas, you have main members))		
Cas 00538+5242 STF 70 CD	1980	92	1.7	10.0	10.4	(part of STF 70, which you have AB)		3
Cas 00550+5858 BU 1098 AB	1934	70	14.3	5.0	12.5	K2III		
Cas 01036+6104 BU 396	1995	64	1.5	6.09	8.69	F0II		
Cas 01072+5330 H 66 AB	1991	75	20.9	6.5	10.1	K2III		
Cas 01083+5455 BUP 14 Aa-C	1907	145	205.8	5.3	11.1			
CD	1907	114	4.2	11.1	12.8			
Cas 01259+6808 BU 1101 AD	1983	120	22.4	4.68	10.0	(part of Psi Cas, which you have notes for AB)		
Cas 01259+6808 H 83 AC	1998	123	22.1	4.68	9.18			
Cas 01443+5732 BU 870 AB	1999	348	0.7	6.36	8.56	A3V		
Cas 02020+7054 BU 513 AB	1997	256	0.8	4.69	6.72	A3V		
Cas 02291+6724 STF 262 Aa-B	1997	230	2.7	4.46	6.93	A5pSr		
Aa-C	1996	116	7.1	4.6	8.40	A5 (part of Iota Cass; add either Aa-B or Aa-C if you haven't)		

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cet 00145-0747 BU 486	1958	3	3.0	5.4	11.4	M3III		
Cet 00266-0003 HDS 61	1996	272	0.4	6.44	8.76	G8III		
Cet 00300-0357 HJ 322 AB	1982	199	11.1	6.0	10.8	M1III		
Cet 00457-1625 MLF 1	1999	199	2.9	6.47	10.29	F2V		
Cet 00527-2400 BU 734	1964	345	11.0	5.6	9.8	K1III		
Cet 01225-1905 HJ 2043	1991	73	5.2	6.35	8.64	F6IV		
Cet 01225-1905 HJ 2043	1991	73	5.2	6.35	8.64	F6IV		
Cet 01278-1054 BU 399	1991	303	1.5	6.40	8.90	K4III-IV		
Cet 01417-1119 STF 147	1999	95	0.7	6.17	7.22	F5V+F7V		
Cet 01447-0646 BU 6 AB	1991	165	2.2	6.67	9.03	G5III		
Cet 01572-1015 GAL 315	1987	136	29.7	6.41	10.5	G5IV		
Cet 02296+0934 BU 518	1991	141	1.5	6.26	9.85	K0IV		
Cet 03184-0056 AC 2 AB	1999	256	1.2	5.66	7.97	G9IV		4
Col 05213-3421 DAW 117	1969	7	2.2	6.1	10.9	B5IVnpe		
Col 05526-3738 I 64 AB	1960	250	16.4	5.63	11.0	K1III		
Col 06240-3642 HJ 3857 AB	1960	256	12.9	5.62	10.8	G6III		
Col 06370-3809 HDO 196 AC	1900	180	25.0	6.04	10.	K0III		
Dor 05303-6356 HDO 192	1930	68	9.2	6.19	11.4	F0IV		
Eri 03113-0349 BU 400	1981	55	24.4	6.05	11.9	M0III		4

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Eri 03160-0555 BU 84	1995	9	1.0	6.41	7.97	B9V		
Eri 03184-2231 SEE 23	1999	81	0.4	4.86	6.11	G8IV		
Eri 03195-2145 JC 1 AC	1964	114	39.3	4.0	10.8	M3III	(this is Tau 4 Eri; Hartung has notes for AB)	
Eri 03441-4040 HJ 3589	1991	350	5.0	6.45	9.41	K1III		
Eri 03503-0131 BU 401 AB	1991	254	4.5	6.47	10.38	F2		
Eri 04153-0739 STF 518 BC	1995	337	8.9	9.52	11.17	DA dM4e	(members of Omicron 2 Eri (40 Eri); Web/Smyth have A-BC)	
Eri 04215-2544 HJ 3644 AB-D	1991	41	44.3	6.15	8.23	K0	(you have notes for QB-C already)	
Eri 04239-1102 GAL 367	1903	122	14.3	6.	11.5			
Eri 04249-3445 I 59 AB	1984	204	33.2	6.55	10.0	F2III		
	1929	281	3.5	10.0	11.0			
Eri 04339-0644 BU 881	1991	62	1.3	5.76	9.19	B9pSi		
Eri 04360-0337 STF 571 AB	1958	260	17.9	6.33	10.72	B7III		
Eri 04376-0228 BU 88	1963	79	29.9	5.23	11.8	F0V		
Eri 04382-1418 KUI 18	1999	353	1.0	4.08	6.90	K2IIIb	5	
For 02498-2434 HJ 2161 AC	1954	143	40.9	6.14	10.7			
For 02502-3551 HJ 3536	1960	14	5.0	5.8	10.0	K0III		
For 03282-3551 I 58	1991	247	6.5	6.49	10.27	A1V		
Hor 02199-5557 HJ 3497	1955	82	35.3	5.6	10.5	K5III		
Lep 05193-1831 S 476 AB	1991	19	39.3	6.37	6.53	B3V	Ap	

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Lep 05327-1749 HJ 3766 AB	1977	157	36.2	2.58	11.2	F0Ib		
Lep 05393-1751 HJ 3780 AC	1977	137	89.2	6.7	8.8	CD		
	1977	355	1.4	8.8	8.21	(CD is 89" from mag 6.4 star)		
Lep 06093-1808 B 2598	1958	358	23.0	6.35	11.2	B9Vn		
Ori 04564+1331 BU 553 AB	1962	51	36.2	4.07	11.3	K2III		
Ori 04582-0213 HJ 689	1963	277	21.0	6.35	10.9	A2V		
Ori 05020+0137 STF 630 A-BC	1991	50	14.4	6.45	7.97	B8V		
Ori 05118+0102 STF 652	1999	181	1.7	6.29	7.51	A+G2:III		
Ori 05176-0651 H 25 AB	1921	250	34.8	3.60	10.97	B5III HJ 2259		
	1920	61	36.1	3.60	10.9			
Ori 05204-0522 BU 189 AB	1933	285	4.3	6.4	9.8	B8III		
Ori 05265+0256 STF 712 AB	1991	64	3.2	6.52	8.47	B9.5V		
Ori 05297-0048 A 850	1917	155	2.2	6.5	11.9	A2		
Ori 05341-0102 H 118	1977	265	28.0	6.22	11.20	B2.5V		
Ori 05351+0956 STF 738 AC	1957	182	28.0	3.7	10.72	(Lambda Ori; you have notes for AB)		
Ori 05353-0523 STF 748 AB	1995	32	9.0	4.98	6.12	O7 B1V		
	1995	132	12.9	4.98	5.13			
	1991	242	13.4	5.13	6.71			
	1990	123	4.0	5.1	11.5	(Theta Ori, the 4 main members; match what you have already?)	6	
Ori 05366-0604 STF 754	1991	289	5.4	5.71	8.94	B1V		
Ori 05469+0931 J 251	1961	285	16.2	5.79	11.9	G8III		
Ori 05500+0952 HEI 670	1999	268	1.0	6.03	8.32	G8III		

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Ori 05588+0033 KUI 22	1988	31	19.0	5.22	11.8	A1Vs		
Ori 05589+1248 STT 124	1999	297	0.6	6.18	7.27	K2IIII+A5V		
Ori 06148+1909 HJ 2302 AB	1922	202	25.4	5.20	11.2	F6V		
Ori 06181+1423 HO 229 AB	1958	336	2.1	6.2	11.5	A3V		
Per 01493+4754 STF 162 BC	1960	176	18.8	7.0	8.4	(you have notes for Aa-B)		
Per 02224+5551 BU 875	1918	164	11.7	6.0	12.0	A2Ia		
Per 02471+3533 BU 9 AC	1959	142	31.4	6.3	13.2			
Per 02533+4834 STT 48	1991	319	6.6	6.5	10.6	G5Iab:		
Per 02537+3820 STF 318 AB-C	1974	237	14.1		9.68	F4IV BU 524		
AB	1993	too close?	5.6	6.7	F4IV	(AB-C makes good pair)		
Per 02543+5246 BU 1376 Aa-C	1878	75	4.0					
Per 02543+5246 BU 1376 BC	1925	87	3.5	10.7	11.8	(BC pair is in field with mag 4.0 star)		
Per 02566+4710 STF 324	1934	205	24.9	6.1	11.6	gK3		
Per 03082+4057 BU 526 DE	1922	118	11.5	10.5	12.5	(in field with Aa -- what mag Aa?)		
Per 03082+4057 BU 526 DE	1922	118	11.5	10.5	12.5	(in field with Aa -- what mag Aa?)		
Per 03160+3441 HO 503	1963	93	29.3	6.25	11.9	Alm		
Per 03294+4931 BU 1179	1991	144	0.9	4.78	7.20	B3V		
Per 03443+3217 BU 535	1996	24	1.2	3.94	6.75	B1IIII		
Per 03452+4235 ES 2601 AB	1924	47	31.3	3.77	11.9	F5II		
Per 03483+5044 STT 63	1993	272	7.0	6.2	11.2	B8Vne		7

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Per 03541+3153 STF 464 AC	1990	289	34.4	2.85	11.24			
Per 04149+4825 STT 73 AB	1934	351	15.1	4.16	10.28	G0II		
Per 04314+4001 STF 552	1994	112	9.8	6.25	6.71	B8V		
Phe 00006-5306 HJ 5437	1991	325	1.7	6.63	9.85	G0/2IV		
Phe 00063-4905 HDO 180	1928	177	5.4	5.70	11.5	G1IV		
Phe 00418-5630 HJ 3387	1933	253	13.1	5.8	10.2	ApSrEuCr		
Phe 00434-5728 HJ 3391	1933	216	19.8	4.36	11.5	A0IV		
Phe 01084-5515 RST1205 AB	1999	95	0.6	4.13	6.29	B6V+B9V		
Pic 05302-4705 HJ 3767 A-BC	1933	257	25.9	5.46	11.08	G3IV		
Pic 06225-6013 JSP 101	1977	50	16.2	6.52	10.6	G1V		
Psc 22571-0315 STF2959 AB	1962	116	11.0	6.58	10.6	A0		
Psc 23235+0017 HJ 3189	1909	137	42.2	6.31	10.5	K2		
Psc 01052+1250 HJ 10 AB	1999	134	5.0	9.3	10.2	F6V		
Psc 01058+0455 STF 90 AB	1998	84	33.1	6.35	7.26	F3V F5V		
Psc 01333+0813 STT 31	1991	78	4.0	6.31	10.37	K0III		
Ret 03294-6256 HJ 3580	1986	127	54.7	4.72	10.69	F5IV-V		
Ret 03442-6448 LDS 104	1991	94	24.4	3.84	7.85	K1-2III		
Ret 04148-6212 HJ 3641	1966	225	11.0	5.5	11.0	K0III		
Sc1 23498-2520 HJ 5423	1944	307	13.6	6.42	11.6	A3V		

0-6 hours (autumn)	year	p.a.	sep	mag1	mag2	spec	class	notes
Sc1 00427-3828 HDO 182	1994	16	0.7	6.63	7.04	A0V	8	
Sc1 01045-3332 STN 60	1991	219	8.7	6.44	10.40	K0III		
Sc1 01304-2612 BU 1230	1959	226	3.0	6.0	11.0	K4III		
Sc1 01361-2954 HJ 3447	1999	169	0.8	6.03	7.34	F2V		
Tau 03520+0632 KUI 15	1997	206	0.7	6.28	6.61	B5V		
Tau 04018+1000 STT 70 AB	1914	226	12.0	5.67	11.21	B5V		
Tau 04077+1510 STF 495	1991	222	3.8	6.02	8.97	F3V		
Tau 04080+1720 STT 72	1998	328	4.7	5.89	9.68	K5IIIb		
Tau 04122+0044 STF 510	1991	302	11.0	6.62	10.05	G8III		
Tau 04346+2858 HJ 5461 AB	1962	102	25.3	5.87	10.73	B9pHg		
Tau 04497+1554 BU 551 A-BC	1924	60	27.5	6.08	11.2	BC		
	1925	204	6.2	11.3	13.1			
Tau 05081+2416 EDG 2 AB	1925	150	14.4	5.50	12.0	B2V		
Tau 05272+1758 STT 107 Aa-B	1963	305	10.2	5.4	10.1	B5V F8V		
	1899	58	5.8	10.1	11.8			
Tau 05371+2655 STF 749 AC	1959	300	178.1	5.7	10.5			
	1934	293	5.4	10.4	10.9	(have notes for AB or AC); CD members are 178" from mag 5 star)		
Tau 05490+2434 HDS 782 AC	1991	230	3.8	4.88	8.89	G8IIIvar		
Tau 05510+2758 BU 1054	1958	231	15.2	5.56	11.6	gG7		
Tuc 00315-6257 LCL 119 AC	1991	169	27.0	4.36	4.53			

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Ant 09530-2720 RST5341	1966	6	1.3	6.3	10.5	G1V		9
Ant 09589-3553 HJ 4271	1966	319	31.1	5.23	11.3	F1III-IV		
Ant 10095-3551 RST2678	1964	283	2.3	6.2	10.4	F8V		
Ant 10296-3036 H 50	1991	226	11.0	5.57	9.64	B9.5V		
Ant 09589-3553 HJ 4271	1966	319	31.1	5.23	11.3	F1III-IV		
Cnc 08239+1038 A 2961	1991	259	1.2	6.37	9.53	M2III		
Cnc 08259+0734 H 109	1962	343	30.4	5.13	11.16	G5II-III		
Cnc 08404+1940 STF1254 AB	1999	55	20.9	6.44	10.37	K0III		
CMa 06243-1258 STF 903	1931	295	23.2	6.12	10.49	B5Ve		
CMa 06272-2551 LDS 162	1990	43	39.0	6.07	11.3	F9V		
CMa 06306-1309 GAL 242 AB	1983	70	35.8	6.16	11.08	B1.5V		
CMa 06367-2237 H 60	1991	336	9.1	6.35	9.32	B5V		
CMa 06445-3104 HDO 197	1901	97	36.3	5.20	12.58	B2IIIe		
CMa 06450-3035 COO 44	1991	224	4.5	6.53	10.19	B8IV		
CMa 06556-2008 H 123	1933	18	11.8	4.6	9.6	gF2		
CMa 06561-1403 STF 997 AB	1999	343	2.8	5.00	7.05	G5III+A2		
CMa 06587-3100 HDO 198 AB	1977	337	40.2	6.31	10.10	B3V		
AC		320	70.0	6.31	11.37			

6-12 hours (winter)				year	p.a.	sep	mag1	mag2	spec	class	notes
CMa	07003-2207	SEE	74	Aa-B	1899	233	12.8	6.52	11.07		
				Aa-C		0	128.4	6.3	10.5		
				CD	1943	346	2.7	10.5	11.5	(CD is 128" from mag 6.5 star)	
CMa	07006-2038	BU	572		1991	143	5.2	6.71	10.26	A4mA5A9	
CMa	07084-2624	BU	1412		1879	224	266.4	1.80	7.5	F8Iab:	
CMa	07067-1118	BU	328	AB	1997	115	0.6	5.70	7.08	B0.5IV	
CMa	07088-2403	ARA2035			1922	292	15.0	6.0	11.1		
CMa	07096-1614	BU	329		1983	100	29.4	6.03	11.67	B1II	
CMa	07138-2254	HJ	3938		1982	251	19.4	6.38	9.10	B2IV+G5IV	
CMa	07165-1559	SHT	6	AC	1992	160	15.5		6.2	(find A)	
CMa	07187-2457	HJ	3948	Aa-B	1960	89	8.6	4.42	10.2		
CMa	07222-2412	SHT	8	AC	1992	305	5.4	4.6	8	AD	
					1992	344	11.6		5.1	(get AB)	
CMa	07247-3149	DAW	129	AB	1991	311	2.1	5.49	9.73	G8II (you have notes for superwide A-CD)	
CMa	07248-1901	KUI	29		1937	309	2.7	6.24	11.2	A2Ib	
CMa	07271-1752	BU	578		1991	42	1.5	5.69	9.23	A5n	
CMi	07280+0657	BU	21		1934	28	4.1	5.25	11.1	F0III	
CMi	07393+0514	SHB	1	AB	1997	55	4.7	0.38	10.8	F5IV-V	
CMi	07431+0011	A	2534	AB-C	1997	233	0.8	6.48	8.42		
CMi	07481+0525	STF1143			1825	152	9.3	6.60	11.0	K0	
Car	06442-5442	DUN	34		1991	192	129.5	6.47	6.68	B5/6V	

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Car 07120-6311 HDO 199	1991	112	0.4	6.43	7.35	A0IV-V		
Car 07456-5643 HJ 4005	1915	218	36.6	6.12	11.4	F0II		
Car 08179-5910 HJ 4084 AB	1924	154	43.3	6.42	9.7	F5V BC		
	1918	89	3.1	9.7	9.9	A2V		
Car 08373-6251 HJ 4125	1918	237	7.6	5.47	11.0	K0III		
Car 08450-5821 SHT 12 AC	1992	212	17.2	5.0				
	1992	182	33.1	3.1				
	1992	166	42.0	0.7 (find AB)				
Car 08594-5905 I 318	1914	27	26.3	5.16	12.0	F3V		
Car 09048-5751 HJ 4178	1991	161	3.4	6.43	10.31	A8III		10
Car 09115-5758 HJ 4190	1991	23	8.2	6.59	10.36	B3IV		
Car 09174-7454 HJ 4206 AB-C	1991	344	6.8	5.5	10.0			
Car 09255-6157 HJ 4213	1991	329	8.8	5.77	9.84	A4V		
Car 09422-6655 HJ 4241	1984	305	34.4	6.6	10.6	A0V		
Car 10095-6841 I 13 AB	1997	113	0.6	6.57	6.60	A0IV HJ 4295		
	1941	40	26.0	6.1	11.5			
Car 10351-5741 COO 107	1991	238	5.1	6.84	9.72	G8/K0III		
Car 10443-7052 DUN 99 AB	1991	75	62.7	6.25	6.43	A5IV-V		
	1970	44	41.3	6.26	9.64	A3		
Car 10494-5919 R 161	1991	290	1.0	6.15	7.47	B9.5IV-V		

6-12 hours (winter)				year	p.a.	sep	mag1	mag2	spec	class	notes
Car	10545-6150	RST4468	AB	1987	163	10.0	5.93	11.0	K4V		
Car	10592-6119	R	164	1960	77	4.1	6.2	9.7	B8IV		
Car	11006-7259	SHT	19 AC	1992	85	5.8		5.7			
Car	11017-5716	SHT	20 AC	1992	117	11.3		6.9	(find AB)		
Car	11126-6019	HJ	4414	1932	278	21.1	4.60	11.5	A6Iae		
Car	11128-6410	HJ	4415	1983	121	21.9	5.23	11.10	B8V		
Cha	10453-8028	I	294	1991	84	0.8	6.24	6.47	K0III		
Cha	11058-7707	AGE	1 AB	1995	49	2.5		6.85	M0 (find Aa)		
Cha	11410-8306	HJ	4468	1956	143	23.9	6.33	11.4	K0III		
Cha	11596-7813	HJ	4486	1997	211	0.4	5.34	6.08	B9Vn		
Crt	11032-1118	A	1774	1952	274	3.8	5.5	10.8	G8III-IV		
Crt	11249-1741	HJ	840	1968	93	5.3	4.1	7.9	A5V		
Crt	11292-1721	H	112 A-BC	1985	331	28.2	9.1	9.1	F5/6V: (find A)		11
Crt	11387-1312	KUI	58	1958	228	1.7	5.6	11.0	F7V		
Gem	06149+2230	BU	1008	1998	259	1.6	3.55	6.25	M3.5I-II		
Gem	06544+2110	STT	160	1991	188	1.3	6.70	9.92	K1III		
Gem	06312+1656	STT	143 AB	1961	102	8.0	6.20	10.40	K2III		
Gem	06398+1259	BU	571	1962	342	2.9	6.0	11.9	A2V		
Gem	06413+2812	HJ	397 AB	1904	46	30.7	6.42	11.7	G5Ib		

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Gem 06544+2110 STT 160	1991	188	1.3	6.70	9.92	K1III		
Gem 07198+1322 SHT 7 AC	1992	331	14.8		6.0			
Gem 07202+2159 CHE 85	1911	207	6.9	3.0	8.0			
Gem 07277+2127 HDS1050 AD	1991	97	3.9	5.20	9.09	F5IV-V..		
Gem 07291+3147 A 2124 AB	1935	8	3.4	4.18	12.5	F0V		
Gem 07346+3153 STF1110 AC	1998	163	68.0	2.0	8.8		(this is Alpha Gem AC, which you may have)	
Gem 07385+3503 BU 200 AB	1926	191	100.4	5.56	11.6	K0III		
Gem 07385+3503 BU 200 CD	1981	247	2.0	10.6	11.6		(CD pair is 10.4" from mag 5.56 70 Gem)	
Hya 08198+0357 FIN 346	1997	73	0.4	6.04	6.36	G8III		
Hya 08285-0231 STF1233 AB-C	1930	329	18.1	6.42	10.49			
Hya 08417-1557 HJ 4124	1920	112	31.0	4.88	11.8	G9.5III		
Hya 08461-1100 BU 1069	1960	63	2.3	6.25	10.	K5III		
Hya 08484+0550 AGC 3	1935	145	12.3	4.36	11.9	A0Vn		
Hya 08525-1314 HJ 4146	1981	108	30.7	6.13	11.5	K1III		
Hya 09167+0044 BU 588	1996	153	2.1	6.5	11.0	F1V		
Hya 09167-0621 KUI 40	1959	283	1.6	5.3	10.8	K2III		
Hya 09196-1550 A 3077	1943	191	4.2	5.8	10.8	K2III		
Hya 09205-0933 SHJ 105 AB	1991	211	229.1	4.80	6.99	G8III	F4V	12
Hya 09276-0840 H 111 AB	1987	154	285.1	1.98	9.7	K3II-III		

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Hya 09568-2633 BU 216	1978	159	2.7	6.3	10.5	A4V		
Hya 10233-1323 HJ 4311	1991	120	4.5	6.61	10.11	F5V		
Hya 10361-2641 BU 411	1998	311	1.3	6.70	7.85	F6V		
Hya 10365-1214 KUI 51	1987	12	24.0	5.70	10.5	F7V		
Hya 10592-3344 I 211	1991	221	1.9	5.80	9.50	F2V		
Hya 11053-2718 LDS6238 AC	1960	46	18.0	5.9	6.1			
Hya 12136-3348 HWE 72	1991	164	1.3	6.50	8.65	A0V		
Hya 14282-2929 BU 940 AB-C	1966	280	4.0	4.97	10.0			
Leo 09333+2822 H 29	1958	260	30.6	6.53	12.08	A3Vnn		
Leo 10276+0946 HJ 832	1924	132	37.2	6.04	10.9	A0pSiCr:		
Leo 10534-0215 S 617	1986	178	35.0	6.12	8.73	G9IV		
Leo 10557+0044 BU 1076	1995	59	1.0	6.05	9.02	F4V		
Leo 11050+0720 KUI 54 AB	1979	268	3.7	4.63	11.0	F2III-IVv		
Leo 11140+0804 KUI 56	1986	249	22.2	5.79	11.83	K3III		
Leo 11363+2747 HJ 503 AB-C	1999	155	22.4	5.83	11.17			
Leo 11442+2513 STT 239	1999	30	37.0	6.04	10.82	K4III		
Leo 11509+1217 HJ 1201	1934	191	14.7	6.42	11.65	A5m		
Leo 11140+0804 KUI 56	1986	249	22.2	5.79	11.83	K3III		
Leo 11363+2747 HJ 503 AB-C	1999	155	22.4	5.83	11.17			

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Leo 11442+2513 STT 239	1999	30	37.0	6.04	10.82	K4III		
Leo 11509+1217 HJ 1201	1934	191	14.7	6.42	11.65	A5m		
LMi 10430+2620 BU 913 AB	1958	112	18.4	5.51	12.6	A4Vn		13
Lyn 07359+4302 STT 174	1995	89	1.9	6.64	8.37	F0		
Lyn 07441+5026 COU2607	1991	152	1.2	5.39	8.29	A0IIIIn		
Mon 06412-4021 HJ 5443	1991	108	15.4	6.16	9.55	B4V		
Mon 06047-4505 HJ 3834 AB	1995	218	5.7	5.93	9.13	F5V		
AC	1950	321	196.7	6.0	6.34	G01V-V	Mon 06066-0412 J 187	
	1958	146	28.6	5.38	11.6	B5IV		
Mon 06117-0440 AC 3	1995	203	0.7	6.39	8.07	B9pHgMn		
Mon 06146-0434 BU 566 Aa-B	1938	209	1.7	5.9	10.1			
Mon 06155-0455 BU 567	1958	242	4.1	6.0	10.0	A5IVs		
Mon 06292+0239 BAL1695	1958	299	19.3	6.16	10.4	M1		
Mon 06298-5014 R 65 AB	1999	87	0.8	6.08	6.11	F2V		
Mon 06324+1140 STT 146	1989	140	29.4	6.03	9.8	K0III		
Mon 06410+0954 STF 950 Aa-B	1998	213	2.9	4.66	7.99			
Aa-C	1998	15	17.0	4.7	9.9	FG		
	1985	263	38.8	7.8	8.3	(15 Mon; Web, Smyth have notes for Aa-B and Aa-C, FG added)		
Mon 06412-4021 HJ 5443	1991	108	15.4	6.16	9.55	B4V		
Mon 06508-0032 BU 897	1987	23	6.3	5.8	11.1	F2V		
Mon 06590+0336 BU 1060	1953	59	3.6	5.97	11.0	G8III		

6-12 hours (winter)				year	p.a.	sep	mag1	mag2	spec	class	notes
Mon	07019-0121	KUI	28	1986	251	24.6	6.17	10.9	K0		
Mon	07058-1040	D	12 AB	1991	282	6.6	6.50	10.46			
Mon	07142-0354	A	524	1991	152	2.7	5.80	9.88	M1III		
Mon	08086-0259	STF1190	AB AC	1968	105	32.8	4.34	10.1	G2Ib		
				1985	246	64.8	4.35	8.81	(Zeta Mon; check notes, see if you've seen AB or AC)		
Mus	11519-6512	COO	130	1991	159	1.6	5.00	7.30	B4V		
Mus	12221-6731	HDO	215 AB	1930	130	32.4	5.15	10.7	A5V	14	
Mus	12392-7522	I	296	1991	271	2.0	6.63	9.22	B8Vne		
Pyx	08280-3507	GLI	96 Aa-B	1985	145	24.8	5.8	10.0			
Pyx	08331-2436	BU	205 AB AB-C	1997	318	0.6	6.95	7.06	A8IV		
				1898	355	26.4	6.2	14.	A8IV		
Pyx	08375-3345	HJ	4115 AB	1919	158	22.4	6.48	11.8	F0IV-V		
Pyx	08387-1944	BU	207	1991	103	4.5	6.32	9.25	K5III		
Pyx	09099-3022	H	96 A-BC	1971	148	17.6	5.59	9.9	A4IV-V		
Pyx	09267-2847	JC	5	1998	281	0.5	6.50	7.40	B6Ve		
Pup	06047-4505	HJ	3834 AB AC	1995	218	5.7	5.93	9.13	F5V		
				1950	321	196.7	6.0	6.34	G01V-V		
Pup	06257-4811	I	156	1999	125	1.0	5.90	8.10	B9V		
Pup	06298-5014	R	65 AB	1999	87	0.8	6.08	6.11	F2V		
Pup	06412-4021	HJ	5443	1991	108	15.4	6.16	9.55	B4V		

6-12 hours (winter)				year	p.a.	sep	mag1	mag2	spec	class	notes
Pup	06500-4527	I	159	1966	323	6.6	6.5	11.0	K5-M0III		
Pup	06573-3530	I	65	1997	146	0.2	6.23	6.64	F8IV-V		
Pup	07055-3447	HJ	3928	1985	290	37.5	6.5	9.9			
			AD	1920	125	38.7	6.5	10.8			you have notes for AB)
Pup	07171-3706	HDS1008	Aa	1991	148	0.7	2.93	6.76	K3Ib		
Pup	07183-3644	JC	10	1991	212	3.0	8.10	8.64	A0/1V		(CD is 117" from mag 5.1 star; you have notes for AB)
Pup	07279-1133	BU	332	1991	169	0.8	6.27	7.35			
Pup	07280-2650	HJ	2391	1933	290	16.7	6.5	11.0	K4III		
Pup	07299-2301	RST2482		1967	180	3.0	4.85	10.7	A5Ib		15
Pup	07371-1352	HJ	3983	1915	301	7.6		9.7			(find AB)
Pup	07397-3808	I	160	1991	152	1.3	5.79	8.67	B5Vn		
Pup	07402-1940	SEE	84	1959	279	8.4	5.93	11.3	K0III		
Pup	07474-3831	I	161	1933	83	10.9	5.08	11.13	B2.5III		
Pup	07510-2432	B	146	1991	60	1.0	6.50	9.67	B9.5V		
Pup	07518-1354	BU	101	1998	310	0.4	5.64	6.52	G1V		
Pup	07525-1352	H	28	1902	197	23.7	6.61	10.5	K2III		
Pup	07558-4351	SEE	91	1991	341	0.7	6.66	6.90	B6V		
Pup	08031-3228	HJ	4035	1967	135	35.2	5.82	8.92	K2.5III		
Pup	08114-4259	HJ	4057	1957	299	25.7	4.75	9.5	A5Ib		
Pup	08140-4021	HJ	4062	1920	341	51.1	4.44	9.5	K1II-III		

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Pup 08148-2728 SHT 11 AC	1992	348	14.6		5.6			(find mag of A)
Pup 08214-3629 HJ 4085	1933	273	6.8	5.20	12.0		B2IV-V	
Pup 08250-4246 RST4888 Aa-B	1991	112	0.5	6.48	7.01			
UMa 08158+6023 STF1192 AB	1991	257	2.7	6.43	9.93		A7Vm	
UMa 08303+6043 BU 1067 AB	1899	192	7.2	3.36	15.2		G5III	
UMa 08592+4803 HJ 2477 A-BC	1971	24	3.9	3.1	9.2		A7IV	
UMa 09207+5116 STT 199 AB	1983	135	5.8	6.2	10.0		F5V	
UMa 09459+6339 KUI 43	1991	27	6.2	6.34	11.7		F2V	
UMa 10275+4136 COU1900	1981	295	1.7	6.0	10.0		A2V	
UMa 10332+4026 HJ 2534	1958	337	19.3	4.75	11.6		A7IV	
UMa 11003+4255 KUI 53	1958	151	37.1	6.02	11.7		F9V	
UMa 11045+3814 HO 377 AB	1958	249	8.1	6.0	11.6		A3III-IV	
UMa 11137+4105 HO 50	1991	35	3.0	6.33	10.52		K2III	16
UMa 11593+3310 BU 919	1958	13	4.7	5.96	12.0		K1III	
UMa 12057+6256 HU 1136	1992	217	1.9	6.30	10.24		K1III-IV	
UMa 13404+5031 STF1774	1999	135	17.3	6.34	10.51		F8V	
UMa 14161+5643 STF1831 AB	1991	138	5.8	7.07	9.79		A7IV	
Vel 08125-4616 SEE 96 Aa-B	1997	276	0.6	6.30	7.52			
Vel 08136-4700 GLI 87	1985	343	34.8	5.14	9.50		B2.5V	

6-12 hours (winter)				year	p.a.	sep	mag1	mag2	spec	class	notes
Vel	08144-4550	HJ	4069	AB-C	1989	249	32.1	5.83	8.65		
Vel	08255-5144	DUN	69		1985	220	25.4	5.17	9.51	B2Ve	
Vel	08291-4756	HJ	4104	Aa-B	1994	246	3.4	5.33	7.16		
				Aa-C	1962	41	19.4	5.33	9.3	B5	
Vel	08295-4443	DUN	70		1991	351	4.6	5.03	6.94	B2IV	
Vel	08307-4444	I	168		1991	75	3.5	6.30	10.51	B4IV	
Vel	08314-3904	HJ	4107	AB	1991	329	4.5	6.31	8.07	B4V	
Vel	08330-4545	HDO	202		1900	225	15.0	6.46	10.90	B3III	
Vel	08400-5303	HJ	4126		1964	30	16.8	5.20	8.66	B5	
Vel	08403-4016	COO	74		1994	67	4.3	5.20	9.04	B9V	
Vel	08406-4639	HJ	4127		1985	59	37.5	3.84	10.81	F3Ia	
Vel	08423-4806	RST5304			1995	307	0.5	5.54	8.39	B1.5Vn	
Vel	08424-5307	B	1625	BC	1991	153	0.6	5.57	8.02	B8Si	
Vel	08447-5443	I	10	Aa-B	1999	344	1.1	2.1	5.1	TNG	1
				Aa	1991	5	0.7	1.93	5.51	A1V	
Vel	08527-5208	CPO	9		1991	83	2.9	6.39	7.98	A0V11	
Vel	08563-5243	R	87		1995	335	2.6	4.67	7.92	B5V	
Vel	09125-4337	HJ	4188	Aa-B	1992	281	2.8	5.56	6.38		
Vel	09144-4314	HJ	4191		1935	14	5.9	5.3	9.2	B4V	
Vel	09323-4039	RST1435			1991	95	1.1	5.53	8.41	G8III	17
Vel	09337-4900	HJ	4220		1995	218	2.0	5.57	6.27	B5III	

6-12 hours (winter)	year	p.a.	sep	mag1	mag2	spec	class	notes
Vel 09364-4845 R 125	1991	186	3.3	6.18	9.13	ApSrEuCr		
Vel 09372-5340 SEE 115	1997	8	0.7	6.17	6.30	A2-3V		
Vel 09435-5114 B 1658	1944	200	2.1	6.15	11.2	B6V		
Vel 09543-4517 DUN 81	1991	240	5.3	5.72	8.32	B5V		
Vel 09577-4825 HJ 4269	1964	318	14.2	6.05	10.51	B3V		
Vel 10012-5606 HDO 209 AB	1901	55	15.0	6.41	10.	B8		
Vel 10209-5603 RMK 13 AB	1992	102	7.2	4.50	8.38	B3IIIe		
Vel 10320-4504 PZ 3	1991	218	13.5	5.76	6.04	B8		
Vel 10354-5347 SHT 16 AC	1992	238	8.4	5.0				
AD	1992	116	13.9		3.8			
Vel 10393-5536 DUN 95 AB	1991	106	51.8	4.38	6.06	G2-3Ib		
Vel 10490-4348 SHT 18 AC	1992	84	20.3		6.7	(find AB)		
Vol 06410-7147 I 351	1981	333	15.3	6.5	10.0	K1III		
Vol 07087-7030 DUN 42	1991	298	14.1	3.78	5.68	K0III F2V		
Vol 07418-7236 DUN 57	1984	117	16.7	3.95	9.7	K0III		
Vol 08079-6837 RMK 7	1991	23	5.4	4.35	7.46	B6IV		
Vol 08221-7324 HJ 4103 AB	1984	285	28.2	5.29	11.9	A0IV-V		
Vol 08391-7023 HJ 4134 AC	1987	105	42.0	5.20	10.3	A0V		
Vol 08506-6648 HDO 206	1899	230	20.0	5.35	12.	F5IV		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Aps 14532-7311 I 236	1991	123	2.2	5.90	7.68	G5III		18
Aps 15315-7323 HJ 4764	1918	255	27.0	5.49	11.27	B1pne		
Aps 17348-7034 HEI 248 BC	1984	264	1.1	10.9	11.0	K3III	(get A; BC pair is 29.0" from A)	
Aps 18126-7340 HDO 284	1991	260	2.3	5.99	9.14	F5V		
Ara 16408-6027 B 1818	1991	36	1.6	6.34	9.09	F2III-IV		20
Ara 17004-4839 SEE 316	1991	173	1.0	6.41	7.66			
Ara 17011-5633 HLD 131	1991	131	2.3	6.46	9.86	Ap		
Ara 17229-5801 HDO 270	1991	184	1.8	6.03	9.41	G8Ib-II		
Ara 17254-5623 HJ 4942 AB	1934	327	17.9	3.32	10.21	B1Ib		
AC	1913	66	41.6	3.32	12.16			
Ara 17318-4602 I 40	1984	209	19.9	6.03	10.5	F8-G0Ib		
Ara 17357-4731 SHT 32 AC	1992	264	10.7	0.7				
AD	1992	189	7.8	3.7				
AE	1992	181	12.9	5.6				
AF	1992	49	13.6	5.1				
AG	1992	56	28.0		4.1	(get AB)		
Ara 17505-5337 HJ 4978	1991	267	12.3	5.68	9.43	B2V+B3V		
Ara 18085-4546 HJ 5015	1991	258	4.1	6.13	9.87	B7-8II		
Boo 14148+1006 KUI 66	1991	114	1.0	5.49	8.60	K1III		
Boo 14298+3147 STF1854 AB	1958	255	26.3	6.06	11.34	A0Vs		
Boo 14318+3022 HJ 2728	1988	339	38.4	3.58	11.5	K3III		
Boo 14342+3232 KUI 68	1986	322	26.0	6.33	11.6	F5V		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Boo 14495+5122 STF1889	1991	91	15.2	6.49	9.70	F3V		
Boo 14560+3218 STT 289	2000	112	4.8	6.2	10.2	A2V		
Boo 15155+3319 STF 27	1998	78	103.7	3.46	7.80	G8IIICN-1		
CVn 13059+4516 BU 930	1995	123	2.5	5.6	10.0	K0III 19		
CVn 13097+3832 BU 608 BC	1991	271	1.3	6.31	9.23	B7III		
CVn 13344+3847 HJ 1234	1984	9	29.7	6.37	11.0	F0IV		
Cen 11073-4238 HJ 4409	1991	252	1.4	5.26	7.77	ApSrCrEu		
Cen 11210-5429 I 879	1997	140	0.4	4.12	5.57	B5Vn		
Cen 11256-3745 B 796	1965	59	4.7	5.89	11.5	M3III		
Cen 11290-6334 SHT 22 AC	1992	184	26.8	2.5				
AD	1992	178	30.2	5.1	(find AB)			
Cen 11318-5927 HJ 4445	1961	128	13.3	5.0	11.4	G30-Ia		
Cen 11358-6301 RST3746	1944	317	16.0	3.13	11.5	B9III		
Cen 11522-5659 I 892 AB	1960	122	54.6	5.57	11.0	A2V		
BC	1960	122	5.1	11.0	12.0			
Cen 12524-5350 HDO 220	1947	210	6.3	6.2	11.7	G8Ib-II		
Cen 11550-5606 HLD 114	1992	173	3.6	6.70	7.18	G3IV/V		
Cen 11583-4057 HJ 4484	1991	313	3.0	6.77	9.41	K1III		
Cen 13063-4828 HJ 4567	1933	79	11.3	4.71	10.8	B5V		
Cen 13069-4954 DUN 128	1964	100	25.0	4.27	9.41	B1.5V		15

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cen 13143-5906 FIN 205	1928	341	2.7	4.92	10.2	F7IV		
Cen 13252-6429 HJ 4583	1935	203	25.7	5.31	11.0	F2III		
Cen 13372-6142 I 365 AB	1997	102	0.4	6.26	6.70	F6V		
Cen 13435-3739 SHT 27 AC	1992	222	20.5		6.5			
Cen 13437-4204 RST1741 AB-C	1991	71	1.0	5.96	9.15			
Cen 13472-6235 COO 157 AB	1933	318	9.4	6.2	10.2	K00-Ia		
Cen 13489-3542 HWE 94	1991	358	11.6	6.56	10.07	G3IV-V		
Cen 13535-3540 HWE 28 AB	1997	308	1.0	6.35	6.38	F4V		
Cen 13540-4708 HJ 4624	1959	350	21.2	6.12	11.26	B2IIIe		
Cen 14332-3043 BU 1112	1991	13	2.7	6.07	9.66	K0III		20
Cen 14355-4131 HDO 235	1898	130	26.9	5.87	11.22	B7V		
Cen 14546-3318 BU 347 AB	1956	318	14.1	5.82	10.8	K2III		
Cen 14592-4206 I 1260 AB	1960	81	4.0	3.10	11.5	B2IV		
Cir 13585-6548 HJ 4632	1991	14	6.5	6.20	9.75	K0III		
Cir 14313-6743 HDS2051 Aa	1991	353	1.0	6.05	8.79	K1III		
Cir 14378-6756 WFC 153	1947	245	34.1	6.1	9.9			
Cir 14453-6253 HDO 239	1984	48	35.2	5.35	10.8	A9V		
Cir 14487-6636 I 369 BC	1929	241	2.7	9.0	11.0	B7/8V	(you have notes for AB)	
Cir 15140-6121 I 329	1991	339	0.9	6.75	7.71	B5V		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cir 15166-6054 B 1777 AB	1991	164	1.3	5.82	8.55	B0.5Ve		
Cir 15166-6054 I 428 AC	1934	316	11.0	5.7	11.62	B0.5Ve		
Com 12175+2856 STT 245	1998	285	8.6	5.7	10.2	A3IV		
Com 12225+2551 SHJ 143 AB	1935	55	35.7	4.81	11.8			
Com 12244+2535 STF1639 AB	1999	328	1.8	6.76	7.91	A7V+F4V		
Com 12533+2115 STF1687 AB	1998	181	1.1	5.17	7.17	G7III		
AC	1988	126	28.8	5.0	9.76			
Com 13006+1822 BU 112 A-BC	1926	352	146.8	6.22	9.50	F5V		
BC	1999	298	2.1	10.14	10.56			
Com 13064+2109 COU 11 Aa-B	1998	317	1.5	6.13	8.85			
Com 13169+1701 BU 800 AB	1994	104	7.0	6.49	9.57	K1V M1V		
Com 13328+2421 A 567	1991	257	1.4	6.26	9.71	G8III		
CrB 15329+3122 COU 610	1998	186	0.9	4.26	6.57	B6Vnne		
CrB 16117+3321 STT 305 AB	1991	263	5.6	6.30	10.39	K2III		21
Crv 12301-1324 BU 28 AB	1997	334	2.0	6.50	9.58	F9V		
Cru 12266-6306 DUN 252 AB	1994	114	4.0	0.77	1.16	B1V		
Cru 12435-5854 HJ 4543 AC	1961	95	29.8	6.5	9.8	K0-1III		
Cru 12435-5854 RST 606 AB	1967	157	2.4	6.4	10.9	K0-1III		
Cru 12456-6059 HJ 4547	1991	8	28.1	4.72	10.24	K0III		
Cru 12477-5941 DUN 125 AC	1950	23	371.6	1.25	7.5	B7II		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cru 12560-5650 HDO 221	1913	315	29.0	5.32	11.77	O9Ibe		
Dra 15249+5858 BUP 162	1909	50	254.7	3.29	9.2	K2III		
Dra 15476+5523 BU 946	1991	132	2.2	5.94	9.53	A3m		
Dra 16090+5756 ES 2651	1999	140	12.3	6.33	10.6	A1V		
Dra 16315+7237 HDS2334	1991	170	1.0	6.48	10.33	K2III		
Dra 17083+5051 ES 77 Aa-B	1959	274	18.3	6.46	11.0			
Dra 17350+6153 LDS2736 AB-C	1996	241	25.1	5.25	8.06	F8		
Dra 18139+6424 STT 586	1881	264	28.4	5.03	9.0	F5V		
Dra 18208+7120 STT 353 AB	1998	271	0.4	4.48	5.90	A0pSi:		
Dra 18312+6526 KUI 86	1985	40	24.9	6.59	10.5	A8m		
Dra 18443+6103 STF2403	1997	281	1.1	6.28	8.40	G8III		
Dra 19021+5216 STF2450 A-BC	1997	299	5.4	6.35	9.68	G8III		
Dra 19052+4955 ES 2673	1911	130	12.3	6.43	11.7	K4III-IV		
Dra 19151+8328 STF2572	1925	199	24.6	6.51	10.0	A3V		
Dra 20023+6438 STT 200 Aa	1960	191	32.2	6.6	11.9			
Dra 20282+8125 STH 7 AC	1991	282	196.8	5.38	6.55	(75 Dra)		
Dra 20047+6353 STF2640 AB	1991	16	5.6	6.24	9.79	A2II-III		
Her 16118+4222 STF2024	1999	44	23.7	5.86	10.73	K4III		22
Her 16254+1402 BU 625 AC	1957	96	28.4	4.5	11.0	B9pCr		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Her 16492+4559 BU 627 A-BC	1997	33	2.2	4.87	8.45	A1V		
Her 16496+1316 STF2103 AB	1958	43	5.3	5.9	10.8	A1V		
Her 16518+2840 STF2107 AB	1999	96	1.4	6.92	8.58	F5IV		
Her 16550+2544 STF2110	1998	91	17.8	6.10	10.80	G8III		
Her 16567+1408 STT 318	1995	243	2.8	6.77	9.24	G9III		
Her 17016+1457 H 122	1958	237	19.0	6.29	10.70	B9pCrEu		
Her 17080+3556 HO 412 AB-C	1982	133	20.5	5.37	12.10			
Her 17460+3919 STF2224	1991	349	7.9	6.51	10.05			
Her 17047+1936 PRY 2	1996	226	2.0	6.27	9.38	A0IV		
Her 17117+4945 STF2142 AB	1996	110	4.9	6.12	9.68	A5III		
Her 17245+3657 STT 329 AB	1995	12	32.9	6.28	9.92	G5III+F0V		
Her 17520+1520 STT 338 AC	1894	217	28.0	6.5	12.9			
Her 17596+4314 COU1784	1978	99	1.9	6.5	10.0	K0		
Her 18088+2049 AGC 8	1934	137	23.4	4.36	11.8	B2IV		
Her 18250+2724 STF2315 AB	1999	128	0.5	6.65	7.66	A0V+A4V		
Her 18267+2627 BU 1326 AB	1958	106	5.5	6.5	12.1	B3V		
Her 18355+2336 STT 359	1999	7	0.7	6.42	6.61	G9III-IV		
Her 18470+1811 ENG 64 AC	1989	253	128.1	4.36	9.9			64
CD	1988	313	19.0	9.9	10.4	K2III	(CD pair is 128" from mag 4.4 star)	

12-18 hours (spring)				year	p.a.	sep	mag1	mag2	spec	class	notes
Her	18547+2239	BU	646	AB	1960	35	35.7	4.59	11.1	G4IIII+A6V	
				BC	1915	325	7.0	11.1	11.1		
Lib	15139-2612	B	288		1959	82	1.7	5.9	10.1	G8II	
Lib	15355-1447	GOL	1	Aa-B	1960	155	41.8	4.0	11.2		
Lib	15370-2808	I	1271		1965	164	3.5	3.58	10.8	K5III	
					23						
Lup	14202-4304	HJ	4672		1991	301	3.5	5.55	7.89	G8III	
Lup	14226-4819	R	244		1991	122	4.5	6.10	10.08	B1III	
Lup	14233-5046	B	1245		1991	146	1.1	6.30	9.12	K2III	
Lup	14272-4608	HDO	230		1965	123	30.0	5.83	11.5	Am	
Lup	14301-4519	I	426		1932	310	10.5	5.50	11.8	B8Vn	
Lup	14373-4608	HJ	4690	Aa-B	1991	25	19.3	5.40	8.47	G8III+A1V	
Lup	15051-4703	HJ	4728		1996	67	1.7	4.59	4.67	B5V	16
Lup	15116-4517	DUN	178	AC	1991	259	31.1	6.44	7.38	K0III	
Lup	15119-4844	DUN	177		1991	143	26.5	3.88	5.70	B9.5V+A5V	
Lup	15153-4409	HDO	244		1991	40	13.9	6.74	9.71	B9IV	
Lup	15159-4804	HJ	4750		1981	8	13.1	5.95	10.4	A3m	
Lup	15215-3813	HWE	76		1991	121	5.7	6.57	9.34	A0pSi8	
Lup	15227-4441	DUN	182	AC	1988	169	26.2	3.6	9.1		
Lup	15248-3943	RST1839			1945	40	1.5	5.37	10.9	A0pSi	

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Lup 15253-3844 I 87 BC	1991	222	1.1	9.38	9.74	G5V	(find AB)	
Lup 15304-4155 HJ 4776	1992	229	5.6	6.23	8.49	B9.5V		
Lup 15351-4110 HJ 4786	1996	276	0.8	3.44	3.54	B2IV		
Lup 15359-4457 HJ 4788	1991	9	2.1	4.70	6.59	B3V		
Lup 15379-3115 I 243	1991	330	0.9	8.05	8.67	F3/5V		
Lup 15381-4234 HDO 250	1933	28	11.8	4.33	11.16	K4.5III		
Lup 15569-3358 PZ 4	1991	49	10.3	5.14	5.59	A3V B9V		
Lup 16001-3824 RMK 21 AB	1991	19	14.9	3.44	7.84	B2.5IV		
Lup 16009-4026 COO 190 AB-C	1933	158	8.0	6.21	10.4	A0V		
Lup 16073-3645 HJ 4831	1919	358	40.9	5.73	11.8	F1IV		
Mus 12046-6820 HDS1698	1991	157	0.7	5.57	7.26	A0V		24
Mus 12221-6731 HDO 215 AB	1930	130	32.4	5.15	10.7	A5V		
Mus 12389-6712 HJ 4535	1918	339	17.2	6.25	11.47	B1Ia		
Nor 15501-5313 HJ 4805	1917	127	28.4	5.77	11.8	B9Vn:		
Nor 15503-4524 I 548 A-BC	1976	188	3.3	6.2	11.0	A9III		
Nor 16198-5009 HJ 4841	1959	12	44.9	4.02	10.1	G8III		
Oct 12023-8538 HJ 4490	1991	146	24.9	6.05	9.15	K3III		
Oct 12550-8507 RST2819	1991	238	0.7	5.98	6.86	K0III		
Oct 20333-8058 HJ 5182	1956	356	26.0	5.77	11.5	G6-8II		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Oct 21334-8002 HJ 5262	1970	92	24.3	6.47	11.5	A0V		
Oct 22031-7607 HJ 5306	1971	71	34.7	5.95	10.1	F3III		
Oph 17304-0104 STF2173	1999	320	0.7	6.13	6.20	G5V		
Oph 18081+0213 BU 636 AB	1975	126	1.9	6.5	11.7	A4V		
	1920	100	13.7	6.5	13.5			
	1923	349	41.5	6.5	11.5			
Oph 16057-0617 STF2005 Aa-C	1958	232	28.9	6.32	11.31			
Oph 16288-0808 STF2048 AB	1991	298	5.5	6.49	9.71	F4V		
Oph 16568-2309 BU 1117	1994	301	1.0	6.17	6.51	A0V		
Oph 17069-0139 STF2122	1969	279	20.3	6.38	9.73	A9V		
Oph 17104-1544 BU 1118 AB	1999	242	0.5	2.97	3.44	A2IV		
Oph 17153-1435 BU 282	1972	151	4.4	6.2	11.3	K2III		
Oph 17177-2638 H 35	1991	336	5.9	6.81	9.17	B9.5V		
Oph 17199-1745 BU 126 AC	1982	141	11.9	6.4	11.3			
Oph 17247-2126 HLD 134	1933	149	4.4	5.8	12.0	G8III		
Oph 17303-0422 RST5085	1971	335	10.3	6.6	11.5	F0		
Oph 17304-0104 STF2173	1999	320	0.7	6.13	6.20	G5V		25
Oph 18081+0213 BU 636 AB	1975	126	1.9	6.5	11.7	A4V		
	1920	100	13.7	6.5	13.5			
	1923	349	41.5	6.5	11.5			
Oph 18099+0307 BU 637 AB	1964	192	7.2	5.7	11.7	F6V		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Ser 15210+0043 BU 32	1994	19	3.1	5.35	9.22	K2III		
SerCp 15402+1203 STT 300	1998	262	15.5	6.22	10.33	G7.5IIIa		26
SerCp 15440+0231 A 2230 AB	1974	47	4.4	5.88	12.0	G3V		18
SerCp 15462+1525 STF1970 AB	1999	264	30.9	3.66	9.96	A2IV		
SerCd 17541-1120 HJ 4995	1981	155	28.0	6.6	11.6	K2III		
SerCd 18365+0457 HJ 864	1910	323	18.1	6.76	11.0	K2III		
TrA 16280-6403 DUN 201	1947	11	18.5	5.29	9.42	F4IV		
TrA 16467-6707 HDO 257 AB	1900	123	25.0	5.13	11.5	ApSi		
TrA 16596-6916 HDS2404	1991	188	1.0	5.90	8.26	Ap Si		
UMi 13048+7302 BU 799 AB	1998	266	1.1	6.63	8.52	A7IV		
UMi 16431+7731 KU 1 AB	1991	178	2.6	5.99	10.07	F5IV		
Vir 11384-0226 STF1560	1991	280	5.0	6.22	9.43	G9III		
Vir 12514-1020 STF1682 AB	1992	298	28.8	6.50	9.78	G8III		
Vir 12597-0349 STF1704 Aa-B	1958	54	20.8	5.80	10.15			
Vir 13006-0322 AGC 5 AB	1991	167	0.8	6.22	8.92	K1IV		
Vir 13038-2035 BU 341	1991	132	0.8	6.40	6.42	F8V		
Vir 13240-2055 BU 610	1991	17	4.2	6.44	10.27			
Vir 13252-1110 BUP 150 AB	1909	32	147.9	0.98	12.0			
Vir 13304-0628 STF1750	1938	17	30.9	6.09	11.4	F2V		

12-18 hours (spring)	year	p.a.	sep	mag1	mag2	spec	class	notes
Vir 13307+0919 STF1751	1991	57	5.8	6.88	10.20	K2III		
Vir 13347-1313 BU 932 AB	1999	57	0.4	6.32	7.27	A0V		
Vir 14282-0214 STF1846 AB	1991	110	5.2	4.81	8.94	G2III		
Vir 14471+0058 STF1881	1998	360	3.4	6.62	9.12	B9.5V		27
Vir 19299-2659 H 119	1991	143	7.6	5.46	8.84	K2III		
AC	1879	62	359.8	0.98	10.5			

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Aqr 20572+0028 HWE 55 AB	1981	71	26.4	6.05	11.76	K2III		
Aqr 21075-0010 STF2755	1982	81	25.1	6.56	10.4	M3III		
Aqr 21376-0023 STF2809	1992	163	31.2	6.23	9.50	A2V		
Aqr 21395-0003 BU 1212 AB-C	1987	171	36.8	6.63	10.9			
Aqr 22306-1041 HDS3190	1991	10	3.7	4.82	8.42	A0IVs		
Aqr 22552-0459 BU 178	1999	322	0.7	6.06	7.78	G4:III		
Aqr 23147-1041 BU 715 AB	1958	256	3.8	6.1	10.9	K5III		
Aqr 23194-0507 HJ 5394	1958	20	10.6	5.60	10.92	F3V		
Aqr 23241-2146 I 1058	1913	233	1.9	6.5	10.0	F5IV		
Aqr 23460-1841 H 24	1997	136	6.8	5.28	6.28	A9IV F2V		
Aql 18465-0058 STF2379 BC	1987	175	13.2	7.9	11.3	(5 Aql; you have notes for Aa-B)		
Aql 18582+1722 HO 91 Aa-B	1961	141	6.6	5.4	11.1			
Aql 19143-0843 A 98 AB	1937	128	26.0	6.5	11.0	K0IV		
Aql 19362+0600 STF2543	1995	151	11.9	6.62	10.71	G8III		
Aql 19387-1009 STF2545 AB	1998	326	3.7	6.61	8.63	A9III		
AC	1959	165	26.1	6.6	11.4			
Aql 19426+1150 HLM 26 AD	1941	315	5.0	5.3	11.5			
Aql 19514+0405 STF2587	1991	100	3.9	6.47	9.35	A5V+K2III		
Aql 19547+0708 BU 659	1958	306	13.8	6.15	12.0	A2V		
Aql 19553+0624 STT 532 AB	1976	8	12.9	3.71	11.8	G8IV		

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Aql 20101+0827 STF2635 AB	1991	79	7.6	6.57	10.51	F7V		28
Aql 20383-0106 BU 672	1914	281	32.2	4.32	11.0	G8III		
Cap 20181-1233 AGC 12 BC	1959	243	1.3	11.2	11.5	152"	from mag 3.8 star)	
Cap 20181-1233 HJ 608 A-BC	1959	172	6.6	3.8	11.2	G9III	(Alpha 1 or 2 Cap; add to which one is mag 3.8)	
Cap 20289-1749 SHJ 323 AB	1999	194	1.3	4.99	6.94	F3V		
Cap 20324-0951 BU 668 AB	1965	27	3.2	5.8	11.3	G2V		
Cap 21071-2500 SEE 439	1996	186	23.5	4.50	11.7	K5/M0III		
Cap 21198-2621 BU 271 AB	1991	270	1.9	6.73	9.76	G5V		
Cap 21420-2316 SEE 454	1973	212	5.2	5.2	11.2	G8III		
Cep 21186+6235 BU 1502 CD	1907	104	2.6	11.1	11.3			
Cep 21449+6228 MLR 16	1985	33	18.3	6.0	9.5	O9IIe		
Cep 21491+6648 STF2836	1991	153	11.9	6.49	10.33	F4V		
Cep 21555+6519 STT 457	1994	245	1.1	6.04	8.20	B2.5Ve		
Cep 22051+6217 BU 697 AB	1958	93	20.1	5.11	11.2	O9Ib		
Cep 22303+5714 STT 473	1998	359	15.0	6.65	10.0	A3Ia		
Cep 03117+8128 STF 327	1935	284	23.7	5.95	10.7	A7III-IV		
CrA 18438-3819 COO 227 AB	1981	214	29.2	5.13	9.7	A2Vn		
CrA 18522-4143 HDO 291 A-BC	1959	342	36.0	6.5	10.0	K3III		
CrA 18592-3932 HJ 5074	1920	246	15.8	6.49	11.8	B9.5V		

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cyg 19153+5004 STF2496 AB	1991	80	2.1	6.49	10.00	G8III	29	
Cyg 19372+2920 HJ 1423 AB	1984	129	20.2	6.3	11.0			
Cyg 19372+2920 HJ 1423 AB	1984	129	20.2	6.3	11.0	WRH	23	
AE	1949	289	25.1	6.4	9.6			
Cyg 19379+4917 HJ 1428 CD	1905	274	10.5	9.5	11.9	(63" from mag 6.4 G6V star)		
Cyg 19397+3359 HO 111 AB	1991	15	1.2	6.18	9.61	B0.5Iae		
Cyg 19439+3410 HO 453 AC	1924	137	33.6	6.06	11.5			
Cyg 19455+3709 POP 122 BC	1995	86	2.4	12.0	12.5			
Cyg 19495+3843 ES 84 AB	1985	161	11.2	6.11	11.1	G3II-III		
Cyg 20144+4206 STF2657 AC	1991	33	11.5	6.71	10.23			
Cyg 20014+5006 H 47 BC	1933	76	8.5	10.4	12.9	(42" from mag 5.0 26 Cyg; Web/Smyth have notes for 26 Cyg AB)		
Cyg 20125+5128 AC 17 AB	1991	82	4.3	6.01	10.34	K2.5III		
Cyg 20169+4022 BU 661 AB	1958	66	12.6	5.24	11.5	K3.5IIab		
Cyg 20181+4044 STF2666 Aa-B	1998	245	2.7	5.83	8.10			
Aa-C	1959	207	34.8	5.80	11.11			
AB-C	1996	283	3.5	6.2	8.5			
Cyg 20190+3900 HO 125	1941	194	3.1	6.4	10.6	K4II		
Cyg 20229+4259 HO 128 AB	1995	3	1.5	6.43	8.93	G8III		
Cyg 20383+4804 ES 89	1912	200	16.6	6.58	11.5	G9III		
Cyg 20396+4035 STT 410 AB	1997	5	0.9	6.82	6.82	B8IIIpMn		

18-24 hours (summer)				year	p.a.	sep	mag1	mag2	spec	class	notes
Cyg	20422+5020	BU	675 AB	1934	103	3.1	5.38	12.4	B2V		
			AC	1934	184	25.8	5.4	11.4			
Cyg	20414+4517	H	73	1924	106	75.3	1.25	11.7	A2Iae		
Cyg	20422+5020	BU	675 AC	1934	184	25.8	5.4	11.4			
Cyg	20462+3358	STT	594 Aa-B	1970	269	47.3	2.46	11.6			
Cyg	20472+3422	BU	677 AC	1934	201	14.0	5.2	11.5			30
Cyg	20479+5224	ES	93	1991	318	21.6	6.27	11.4	G7IV		
Cyg	20489+4607	HJ	1581	1934	174	21.3	4.82	11.14	B3Iae		23
Cyg	20499+4640	BU	250	1934	7	19.2	6.33	11.5	B4Ve		
Cyg	20544+4042	STT	420	1930	2	6.3	6.7	10.7	B8Vnne		
Cyg	20598+4731	STF2743	Aa-B	1998	353	20.7	4.59	9.43			
			Aa-C	1998	140	26.6	4.59	11.62			
			Aa-D	1998	59	70.3	4.59	11.2			
Cyg	21001+4841	STT	425 AC	1924	27	14.9	7.2	10.4			
			AE	1907	17	45.1	7.1				
			CD	1924	133	4.1	10.4	10.8			
Cyg	21012+4609	STT	426	1991	161	2.9	5.38	9.54	B1Ve		
Cyg	21023+3931	H	113 AC	1913	260	25.9	6.31	11.6	(AB in Webb/Smyth add notes)		
Cyg	21130+3732	HEI	283 BC	1982	89	2.5	11.2	11.7	G5 (find A)		
Cyg	21148+3803	AGC	13 AB	1999	303	0.9	3.87	6.65	F3IV-V		
Cyg	21179+3454	STT	433 AB	1961	220	15.3	4.43	10.0	B2Vne		
			BC	1946	137	13.6	10.0	10.0			

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Cyg 21208+3227 POP1232 CD	1990	21	15.0	1.12	11.2			
Cyg 21249+4919 ES 2710	1924	164	20.3	6.4	11.9			
Cyg 21258+3640 S 790 AB	1988	32	34.2	5.93	10.36	B0Ib		
Cyg 21362+3003 BU 167	1996	94	1.4	6.40	9.95	G8III		
Cyg 21395+4144 BU 449 AB	1915	14	6.2	7.56	12.6	K0III		
Cyg 21402+4316 AC 20 AB	1975	326	2.8	5.1	9.8	M2III		
Cyg 22029+4439 BU 694 AB	1998	2	1.1	5.74	7.81	A0IV		
Del 20194+1422 STF2665 A-BC	1991	14	3.3	6.74	9.39	A0+G		
Del 20310+2036 BU 363 AB	1962	70	11.8	6.18	10.0	A1m		
Del 20391+1550 BU 288 AB	1934	159	6.8	5.97	12.4	B3V		31
Del 20556+1234 HJ 1592	1960	17	36.0	5.58	11.8	A4V		
Equ 21103+1008 KNT 5 AB	1994	264	1.5	4.78	8.69	A9V		
Equ 21214+0253 STT 435	1998	235	0.6	8.23	8.37	K0a		
Gru22082-4658 RST5483	1947	149	28.5	1.74	12.3	B7IV		
Gru 22183-5338 HDO 298	1988	39	5.0	5.4	9.7	G3V		
Gru 22227-4557 I 135	1975	201	2.8	6.5	10.7	S5		
Gru 22370-4035 BU 771	1991	265	2.7	5.85	9.96	A1V		
Gru 22391-5242 HJ 5349	1916	119	33.4	6.65	11.5	F1III		
Gru 22426-4713 COO 252	1967	126	7.8	6.00	11.10	G0V		

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Gru 22456-5330 CRU 4	1936	185	24.4	4.85	11.5	K2IIICNv		
Gru 23069-3854 BU 773	1999	209	1.0	5.73	8.26	A1V	(Theta Gru; probably meant these members in notes -- check!)	
Gru 23167-4429 HJ 5390	1933	44	22.5	5.92	10.7	K1III		25
Gru 23208-5018 DUN 248 AB-C	1992	212	16.9	6.04	8.89	A8		
Gru 23208-5018 RST5560 AB	1999	233	1.3	6.15	8.93			
Lac 22112+5049 HJ 1741 AB	1998	288	36.0	5.40	10.4	A5V		
Lac 22139+3943 HJ 1746 Aa-B	1999	188	30.4	4.6	10.6			
Lac 22175+4908 ES 2717	1907	292	21.2	6.6	11.6	G8III		
Lac 22219+4040 HJ 1756 AB	1924	286	22.3	6.7	10.6	K3.5III		
Lac 22268+3727 STF2906	1991	0	3.9	6.46	9.97	B2V		
Lac 22299+5225 LEO 53 AB	1928	312	13.9	6.6	11.5	G8III		32
Lac 22324+3947 ROE 47 AC	1911	345	32.8	5.8	10.1			
DE	1928	173	6.7	9.4	9.8	(106" from mag 5.8 primary)		
Lac 22386+5648 HJ 1796	1987	9	30.9	5.21	10.8	M4III4		
Lac 22431+4710 STT 476 A-BC	1997	123	0.5	6.39	6.46	A1V+G:		
Lac 22441+3928 BU 450 AC	1933	239	10.4	6.1	11.6	(add to Webb/Smyth extras)		
Lac 22441+4149 STT 479	1958	129	14.9	5.08	10.6	G8III		
Lac 22520+4319 BU 451 AB	1958	144	25.7	4.94	11.9	M1III		
Lac 22537+4445 BU 382 AB	1998	222	1.0	6.01	7.81	A3m+F6V		HJ 1828
AB-C	1989	359	29.1	5.81	10.7			

18-24 hours (summer)				year	p.a.	sep	mag1	mag2	spec	class	notes
Lyr	18421+3445	STF2372	Aa-B	1993	83	25.0	6.49	8.18			
Lyr	18498+3249	H 40	AB	1924	73	34.8	5.93	10.89	B3IV		
			CD	1905	213	18.4	10.3	11.5			
Lyr	18545+3654	ES 2028	AB	1995	349	88.3	4.30	11.2	M4II		
			BC	1995	142	2.0	11.2	11.6	(BC pair is 88" from mag 4.3 star)		
Lyr	18549+4136	HO 270	AB	1934	303	8.7	5.44	12.6	K0III		
			AC	1934	40	23.7	5.6	11.6			
Mic	20409-4224	HJ 5211	AB	1965	300	20.0	6.5	10.4	G6III		
Mic	21270-4233	MLO 6		1999	150	2.9	5.50	8.10	Am		
Oct	12023-8538	HJ 4490		1991	146	24.9	6.05	9.15	K3III		
Oct	12550-8507	RST2819		1991	238	0.7	5.98	6.86	K0III		
Oct	20333-8058	HJ 5182		1956	356	26.0	5.77	11.5	G6-8II		
Oct	21334-8002	HJ 5262		1970	92	24.3	6.47	11.5	A0V		
Oct	22031-7607	HJ 5306		1971	71	34.7	5.95	10.1	F3III		33
Pav	17449-5733	HDO 277	Aa-B	1891	265	30.0	6.01	12.0			
Pav	18180-6814	HDO 289		1968	305	2.0	6.4	9.9	B9V		
Pav	18197-6353	I 249		1961	357	7.7	6.2	10.8	F9V		
Pav	18299-5731	HDO 290	AC	1928	120	33.9	5.76	10.5			
Pav	19507-5912	I 121		1999	151	0.8	5.67	7.28	A0IV		
Pav	20256-5644	HJ 5193	AB	1879	85	245.4	1.94	9.2	B2IV		

18-24 hours (summer)				year	p.a.	sep	mag1	mag2	spec	class	notes
Pav	20256-5644	HJ 5193	AB	1879	85	245.4	1.94	9.2	B2IV	HJ 5193	
			BC	1914	332	17.7	9.2	10.5	(245" from mag 1.9 star)		
Pav	21094-7310	I 379	AB	1932	24	0.2	6.4	6.4	F8-G0V		
Peg	21124+1432	SHT 36	AE	1992	10	19.5	5.5	36			
			AF	1992	144	37.0	6.0	(find A)			
Peg	21299+2338	BU 685		1934	331	29.9	4.57	11.6	M1III		
Peg	21377+0637	STF 56	AB	1991	350	39.8	6.19	7.66	A2V		
Peg	21385+0546	HJ 941		1910	335	27.2	5.67	11.8	A9IV-Vn		
Peg	21517+1918	STF2834	AB	1991	297	4.3	6.82	10.19	F5IV		
Peg	22046+3256	HJ 953		1934	106	21.2	6.4	11.3	G3II		
Peg	22205+0547	HJ 962	AB	1958	18	6.4	5.4	11.5	B5IV		
Peg	22092+3310	BU 1511	AB	1934	323	27.7	5.58	11.9	G8III		
Peg	22213+2820	HO 615	BC	1924	16	2.9	9.2	10.9	(71" from mag 4.8 star)		
Peg	22456+3027	CHE 418		1961	19	29.3	6.40	10.9	G9V		
Peg	23074+2035	STT 488		1975	336	14.7	6.7	10.4	K0III		
Peg	23134+1104	STF2991		1999	359	33.9	5.82	9.3	G8III		
Peg	23144+2946	HJ 1859		1975	121	34.0	6.41	9.9	F6IVw		
Peg	23228+2034	STF3007	AB	1997	91	5.8	6.62	9.83	G2V	dK6	34
Peg	23340+3120	BU 720		1999	94	0.5	5.69	6.16	K4IIIb		
Peg	23578+1128	HJ 321		1911	133	20.9	6.62	10.2	B9V		

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Peg 00049+2639 FOX 103	1962	133	17.5	6.25	10.72	K4IIIb		
PsA 21449-3302 I 1051	1910	290	20.0	4.34	11.4	A0V		
PsA 21477-3054 HJ 5296 AB-C	1918	339	35.5	5.01	11.3			
PsA 22525-3253 HJ 5367	1992	258	4.0	4.46	8.16	A0III		
PsA 22559-3232 HWE 91	1966	243	5.2	4.2	9.2	G8III		
Sgr 18048-3554 HDO 283	1900	290	12.5	6.00	11.0	K1III:		
Sgr 18089-2528 WNO 21	1991	65	13.5	6.76	8.70	B3III		
Sgr 18155-1840 SEE 349	1899	130	10.1	6.07	11.8	A0Ia		
Sgr 18311-3259 HWE 43 AB	1991	185	3.5	5.37	9.70	A3m142		
Sgr 19031-1915 HJ 5082 BC	1933	126	13.7	9.5	10.7	(you have AB notes already)		
Sgr 19069-1614 S 710	1991	0	6.4	6.00	8.54	B8IV		
Sgr 19251-2919 HJ 5113	1964	159	12.1	5.93	10.5	K3III		
Sgr 19367-2453 BU 654	1970	171	2.7	4.7	9.2	B9		
Sgr 19543-2356 HJ 2904	1985	40	38.9	6.18	10.3	K3IV		21
Sgr 19599-3442 I 1410 AB	1965	162	36.4	5.30	10.8	Am:		
Sgr 20112-3606 HJ 5173	1987	126	5.3	5.31	11.5	K3V		
Sgr 20164-3627 HJ 5183 AB	1919	229	38.0	6.39	11.2	M4III		
	AC	1919	180	46.7	6.39	12.6	M4III	
	AB	1992	43	3.8	6.56	9.97	A2III	
	AC	1991	321	27.3	6.4	7.71		
Sgr 20205-2912 HJ 5188 DE	1990	187	4.7	10.2	10.2	F0V (106" from mag 6.4 star; you have notes for AC)		

18-24 hours (summer)	year	p.a.	sep	mag1	mag2	spec	class	notes
Sgr 20225-4203 HJ 5190 AB	1914	307	31.8	5.59	12.6	A0V		
Sgr 20205-2912 HJ 5188 DE	1990	187	4.7	10.2	10.2	F0V	(106" from mag 6.4 star; you have notes for AC)	35
Sgr 20225-4203 HJ 5190 AB	1914	307	31.8	5.59	12.6	A0V		
Sgr 20239-4225 BU 763 AB	1992	268	0.4	6.04	7.04	A5V		
Sct 18381-1400 BU 135 AB	1953	173	2.0	6.5	10.5	B9IV		
Sct 18400-0747 STF2350	1959	195	19.4	5.84	11.1	K4III		
Ser 18564+0228 J 2681 AB	1943	35	100.0	6.15	12.0	G8III		
BC	1943	95	5.0	12.0	12.3	(BC pair is 100" from mag 6.1 star)		
CD								
Tel 18154-4851 HJ 5033 AB	1991	113	17.2	6.58	9.75	G8III/IV		
Vul 19162+2123 HJ 2862 AB	1924	12	39.3	4.77	11.6	B4IV		
Vul 19254+2455 STT 589 AB	1924	57	40.5	6.2	10.4	F7V		
Vul 19255+1948 HJ 2871 AB	1957	100	18.9	5.16	10.0	G9III		
Vul 19535+2405 DJU 4	1993	248	1.2	4.66	7.37	B9.5III		
Vul 20020+2456 STT 395	1999	122	0.8	5.90	6.19	F2III		
Vul 20175+2909 BU 441 Aa-B	1958	67	5.8	6.4	10.9			
Vul 21241+2519 BU 447 AB	1934	320	9.3	6.2	12.2	A2V		